## Gordon G Wallace

List of Publications by Year in descending order

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|          |                | 643          | 1347           |
|----------|----------------|--------------|----------------|
| 1,227    | 77,412         | 123          | 223            |
| papers   | citations      | h-index      | g-index        |
|          |                |              |                |
|          |                |              |                |
| 1262     | 1262           | 1262         | 61412          |
| all docs | docs citations | times ranked | citing authors |
|          |                |              |                |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Processable aqueous dispersions of graphene nanosheets. Nature Nanotechnology, 2008, 3, 101-105.  | 31.5 | 8,393     |
| 2  | Carbon Nanotube Actuators. Science, 1999, 284, 1340-1344.   | 12.6 | 2,343     |
| 3  | Mechanically Strong, Electrically Conductive, and Biocompatible Graphene Paper. Advanced Materials, 2008, 20, 3557-3561.  | 21.0 | 1,843     |
| 4  | Use of Ionic Liquids for pi -Conjugated Polymer Electrochemical Devices. Science, 2002, 297, 983-987.   | 12.6 | 1,155     |
| 5  | Artificial Muscles from Fishing Line and Sewing Thread. Science, 2014, 343, 868-872.  | 12.6 | 1,006     |
| 6  | Conducting polymers for neural interfaces: Challenges in developing an effective long-term implant.<br>Biomaterials, 2008, 29, 3393-3399.   | 11.4 | 677       |
| 7  | Electrostatic catalysis of a Diels–Alder reaction. Nature, 2016, 531, 88-91.  | 27.8 | 596       |
| 8  | Electrochemical Properties of Graphene Paper Electrodes Used in Lithium Batteries. Chemistry of<br>Materials, 2009, 21, 2604-2606.  | 6.7  | 546       |
| 9  | Electroactive conducting polymers for corrosion control. Journal of Solid State Electrochemistry, 2002, 6, 73-84.   | 2.5  | 529       |
| 10 | Torsional Carbon Nanotube Artificial Muscles. Science, 2011, 334, 494-497.  | 12.6 | 495       |
| 11 | Bio-ink properties and printability for extrusion printing living cells. Biomaterials Science, 2013, 1, 763.  | 5.4  | 484       |
| 12 | Ultrafast charge and discharge biscrolled yarn supercapacitors for textiles and microdevices. Nature<br>Communications, 2013, 4, 1970.  | 12.8 | 475       |
| 13 | Electroactive conducting polymers for corrosion control. Journal of Solid State Electrochemistry, 2002, 6, 85-100.  | 2.5  | 446       |
| 14 | Harvesting Waste Thermal Energy Using a Carbon-Nanotube-Based Thermo-Electrochemical Cell. Nano<br>Letters, 2010, 10, 838-846.  | 9.1  | 431       |
| 15 | Dispersing Carbon Nanotubes with Graphene Oxide in Water and Synergistic Effects between Graphene<br>Derivatives. Chemistry - A European Journal, 2010, 16, 10653-10658.                                  | 3.3  | 373       |
| 16 | 3D printing of layered brain-like structures using peptide modified gellan gum substrates.<br>Biomaterials, 2015, 67, 264-273.  | 11.4 | 357       |
| 17 | Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. Nature Communications, 2012, 3, 650.   | 12.8 | 354       |
| 18 | Scalable One‣tep Wet‣pinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of<br>Graphene Oxide: Towards Multifunctional Textiles. Advanced Functional Materials, 2013, 23, 5345-5354. | 14.9 | 354       |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | High-Performance Multifunctional Graphene Yarns: Toward Wearable All-Carbon Energy Storage<br>Textiles. ACS Nano, 2014, 8, 2456-2466.                                | 14.6 | 331       |
| 20 | Performance evaluation of CNT/polypyrrole/MnO2 composite electrodes for electrochemical capacitors. Electrochimica Acta, 2007, 52, 7377-7385.                        | 5.2  | 310       |
| 21 | Bioactive Coatings for Orthopaedic Implants—Recent Trends in Development of Implant Coatings.<br>International Journal of Molecular Sciences, 2014, 15, 11878-11921. | 4.1  | 306       |
| 22 | Functional 3D Neural Miniâ€Tissues from Printed Gelâ€Based Bioink and Human Neural Stem Cells.<br>Advanced Healthcare Materials, 2016, 5, 1429-1438.                 | 7.6  | 303       |
| 23 | Biosensors Based on Aligned Carbon Nanotubes Coated with Inherently Conducting Polymers.<br>Electroanalysis, 2003, 15, 1089-1094.                                    | 2.9  | 278       |
| 24 | Polypyrrole-coated electrodes for the delivery of charge and neurotrophins to cochlear neurons.<br>Biomaterials, 2009, 30, 2614-2624.                                | 11.4 | 277       |
| 25 | Graphene oxide dispersions: tuning rheology to enable fabrication. Materials Horizons, 2014, 1, 326-331.   | 12.2 | 276       |
| 26 | Use of Ionic Liquids as Electrolytes in Electromechanical Actuator Systems Based on Inherently<br>Conducting Polymers. Chemistry of Materials, 2003, 15, 2392-2398.  | 6.7  | 274       |
| 27 | Mechanism of electromechanical actuation in polypyrrole. Synthetic Metals, 1995, 73, 247-256.  | 3.9  | 272       |
| 28 | Nanotechnology-based disinfectants and sensors for SARS-CoV-2. Nature Nanotechnology, 2020, 15, 618-621.   | 31.5 | 269       |
| 29 | Knitted Strain Sensor Textiles of Highly Conductive All-Polymeric Fibers. ACS Applied Materials &<br>Interfaces, 2015, 7, 21150-21158.                               | 8.0  | 267       |
| 30 | Carbon-Nanotube-Reinforced Polyaniline Fibers for High-Strength Artificial Muscles. Advanced<br>Materials, 2006, 18, 637-640.  | 21.0 | 266       |
| 31 | Polypyrrole-heparin composites as stimulus-responsive substrates for endothelial cell growth.<br>Journal of Biomedical Materials Research Part B, 1999, 44, 121-129. | 3.1  | 256       |
| 32 | A Single Component Conducting Polymer Hydrogel as a Scaffold for Tissue Engineering. Advanced<br>Functional Materials, 2012, 22, 2692-2699.                          | 14.9 | 254       |
| 33 | High-Performance Flexible All-Solid-State Supercapacitor from Large Free-Standing<br>Graphene-PEDOT/PSS Films. Scientific Reports, 2015, 5, 17045.                   | 3.3  | 243       |
| 34 | Organic material in the global troposphere. Reviews of Geophysics, 1983, 21, 921-952.  | 23.0 | 242       |
| 35 | High Acetic Acid Production Rate Obtained by Microbial Electrosynthesis from Carbon Dioxide.<br>Environmental Science & Technology, 2015, 49, 13566-13574.           | 10.0 | 241       |
| 36 | Strainâ€Responsive Polyurethane/PEDOT:PSS Elastomeric Composite Fibers with High Electrical<br>Conductivity. Advanced Functional Materials, 2014, 24, 2957-2966.     | 14.9 | 238       |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | The effect of polypyrrole with incorporated neurotrophin-3 on the promotion of neurite outgrowth from auditory neurons. Biomaterials, 2007, 28, 513-523.  | 11.4 | 236       |
| 38 | A novel carbon nanotube modified scaffold as an efficient biocathode material for improved microbial electrosynthesis. Journal of Materials Chemistry A, 2014, 2, 13093-13102.                      | 10.3 | 236       |
| 39 | Aligned Coaxial Nanowires of Carbon Nanotubes Sheathed with Conducting Polymers. Angewandte<br>Chemie - International Edition, 2000, 39, 3664-3667.   | 13.8 | 235       |
| 40 | Electrochemical studies of single-wall carbon nanotubes in aqueous solutions. Journal of<br>Electroanalytical Chemistry, 2000, 488, 92-98.  | 3.8  | 234       |
| 41 | Tunable and Efficient Tin Modified Nitrogenâ€Đoped Carbon Nanofibers for Electrochemical Reduction of Aqueous Carbon Dioxide. Advanced Energy Materials, 2018, 8, 1702524.                          | 19.5 | 232       |
| 42 | <i>In situ</i> handheld threeâ€dimensional bioprinting for cartilage regeneration. Journal of Tissue<br>Engineering and Regenerative Medicine, 2018, 12, 611-621.                                   | 2.7  | 232       |
| 43 | Investigation of ionic liquids as electrolytes for carbon nanotube electrodes. Electrochemistry Communications, 2004, 6, 22-27.   | 4.7  | 228       |
| 44 | Chiral conducting polymers. Chemical Society Reviews, 2010, 39, 2545.   | 38.1 | 224       |
| 45 | Polymeric Material with Metal-Like Conductivity for Next Generation Organic Electronic Devices.<br>Chemistry of Materials, 2012, 24, 3998-4003.   | 6.7  | 224       |
| 46 | Covalently linked biocompatible graphene/polycaprolactone composites for tissue engineering.<br>Carbon, 2013, 52, 296-304.  | 10.3 | 222       |
| 47 | Organic Solvent-Based Graphene Oxide Liquid Crystals: A Facile Route toward the Next Generation of<br>Self-Assembled Layer-by-Layer Multifunctional 3D Architectures. ACS Nano, 2013, 7, 3981-3990. | 14.6 | 219       |
| 48 | A comparison of reactive robot chemotaxis algorithms. Robotics and Autonomous Systems, 2003, 45, 83-97.   | 5.1  | 216       |
| 49 | Porphyrins for dye-sensitised solar cells: new insights into efficiency-determining electron transfer steps. Chemical Communications, 2012, 48, 4145.   | 4.1  | 215       |
| 50 | Flexible, Aligned Carbon Nanotube/Conducting Polymer Electrodes for a Lithium-Ion Battery.<br>Chemistry of Materials, 2007, 19, 3595-3597.  | 6.7  | 212       |
| 51 | Buckled, Stretchable Polypyrrole Electrodes for Battery Applications. Advanced Materials, 2011, 23, 3580-3584.  | 21.0 | 211       |
| 52 | Conducting polymers, dual neurotrophins and pulsed electrical stimulation — Dramatic effects on neurite outgrowth. Journal of Controlled Release, 2010, 141, 161-167.                               | 9.9  | 209       |
| 53 | Recent Progress in Flexible Electrochemical Capacitors: Electrode Materials, Device Configuration, and Functions. Advanced Energy Materials, 2015, 5, 1500959.                                      | 19.5 | 208       |
| 54 | Skeletal muscle cell proliferation and differentiation on polypyrrole substrates doped with extracellular matrix components. Biomaterials, 2009, 30, 5292-5304.                                     | 11.4 | 207       |

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|----|---|------|-----------|
| 55 | Biofabrication: an overview of the approaches used for printing of living cells. Applied Microbiology and Biotechnology, 2013, 97, 4243-4258.   | 3.6  | 206       |
| 56 | Fabrication of an ammonia gas sensor using inkjet-printed polyaniline nanoparticles. Talanta, 2008, 77,<br>710-717.   | 5.5  | 202       |
| 57 | Compositional effects of PEDOT-PSS/single walled carbon nanotube films on supercapacitor device performance. Journal of Materials Chemistry, 2011, 21, 15987.   | 6.7  | 201       |
| 58 | Liquid Crystals of DNA-Stabilized Carbon Nanotubes. Advanced Materials, 2005, 17, 1673-1676.  | 21.0 | 197       |
| 59 | Polypyrrole coated nylon lycra fabric as stretchable electrode for supercapacitor applications.<br>Electrochimica Acta, 2012, 68, 18-24.  | 5.2  | 197       |
| 60 | Optimising the incorporation and release of a neurotrophic factor using conducting polypyrrole.<br>Journal of Controlled Release, 2006, 116, 285-294.   | 9.9  | 196       |
| 61 | Smart Nanotextiles: A Review of Materials and Applications. MRS Bulletin, 2007, 32, 434-442.  | 3.5  | 195       |
| 62 | Electrochemical synthesis of polypyrrole in ionic liquids. Polymer, 2004, 45, 1447-1453.  | 3.8  | 191       |
| 63 | Intrinsically Stretchable Supercapacitors Composed of Polypyrrole Electrodes and Highly Stretchable<br>Gel Electrolyte. ACS Applied Materials & Interfaces, 2013, 5, 9008-9014.                                   | 8.0  | 190       |
| 64 | Bio-sensing textile based patch with integrated optical detection system for sweat monitoring.<br>Sensors and Actuators B: Chemical, 2009, 139, 231-236.  | 7.8  | 189       |
| 65 | Knitted Carbon-Nanotube-Sheath/Spandex-Core Elastomeric Yarns for Artificial Muscles and Strain<br>Sensing. ACS Nano, 2016, 10, 9129-9135.  | 14.6 | 189       |
| 66 | On Low-Concentration Inks Formulated by Nanocellulose Assisted with Gelatin Methacrylate (GelMA)<br>for 3D Printing toward Wound Healing Application. ACS Applied Materials & Interfaces, 2019, 11,<br>8838-8848. | 8.0  | 189       |
| 67 | Two-dimensional transition metal dichalcogenides in supercapacitors and secondary batteries. Energy Storage Materials, 2019, 19, 408-423.   | 18.0 | 189       |
| 68 | Pneumatic Carbon Nanotube Actuators. Advanced Materials, 2002, 14, 1728-1732.   | 21.0 | 187       |
| 69 | Strain Response from Polypyrrole Actuators under Load. Advanced Functional Materials, 2002, 12, 437-440.  | 14.9 | 186       |
| 70 | Development of the Biopen: a handheld device for surgical printing of adipose stem cells at a chondral wound site. Biofabrication, 2016, 8, 015019.   | 7.1  | 186       |
| 71 | Carbon nanotube and polyaniline composite actuators*. Smart Materials and Structures, 2003, 12, 626-632.  | 3.5  | 184       |
| 72 | Bio-ink for on-demand printing of living cells. Biomaterials Science, 2013, 1, 224-230.   | 5.4  | 184       |

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|----|---|------|-----------|
| 73 | Steric Modification of a Cobalt Phthalocyanine/Graphene Catalyst To Give Enhanced and Stable Electrochemical CO <sub>2</sub> Reduction to CO. ACS Energy Letters, 2019, 4, 666-672.   | 17.4 | 183       |
| 74 | The use of electropolymerization to produce new sensing surfaces: A review emphasizing electrode position of heteroaromatic compounds. Electroanalysis, 1991, 3, 879-889.   | 2.9  | 181       |
| 75 | Development of polypyrrole-based electromechanical actuators. Synthetic Metals, 2000, 113, 121-127.   | 3.9  | 181       |
| 76 | Selfâ€Assembly of Flexible Freeâ€Standing 3D Porous MoS <sub>2</sub> â€Reduced Graphene Oxide Structure<br>for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1700234.                  | 14.9 | 181       |
| 77 | Three dimensional (3D) printed electrodes for interdigitated supercapacitors. Electrochemistry Communications, 2014, 41, 20-23.   | 4.7  | 179       |
| 78 | Recent progress in 2D materials for flexible supercapacitors. Journal of Energy Chemistry, 2018, 27, 57-72.   | 12.9 | 179       |
| 79 | Fast trilayer polypyrrole bending actuators for high speed applications. Synthetic Metals, 2006, 156, 1017-1022.  | 3.9  | 178       |
| 80 | Carbon Nanotube – Reduced Graphene Oxide Composites for Thermal Energy Harvesting Applications.<br>Advanced Materials, 2013, 25, 6602-6606.   | 21.0 | 178       |
| 81 | Znâ^'Zn Porphyrin Dimer-Sensitized Solar Cells: Toward 3-D Light Harvesting. Journal of the American<br>Chemical Society, 2009, 131, 15621-15623.   | 13.7 | 177       |
| 82 | Processable conducting graphene/chitosan hydrogels for tissue engineering. Journal of Materials<br>Chemistry B, 2015, 3, 481-490.   | 5.8  | 177       |
| 83 | Enantioselective electropolymerization of aniline in the presence of (+)- or (â^')-camphorsulfonate ion:<br>a facile route to conducting polymers with preferred one-screw-sense helicity. Polymer, 1994, 35,<br>3113-3115. | 3.8  | 172       |
| 84 | Vapor Phase Polymerization of Pyrrole and Thiophene Using Iron(III) Sulfonates as Oxidizing Agents.<br>Macromolecules, 2004, 37, 5930-5935.   | 4.8  | 172       |
| 85 | Engineered 2D Transition Metal Dichalcogenides—A Vision of Viable Hydrogen Evolution Reaction<br>Catalysis. Advanced Energy Materials, 2020, 10, 1903870.   | 19.5 | 169       |
| 86 | Direct Growth of Flexible Carbon Nanotube Electrodes. Advanced Materials, 2008, 20, 566-570.  | 21.0 | 168       |
| 87 | Monolithic Actuators from Flashâ€Welded Polyaniline Nanofibers. Advanced Materials, 2008, 20, 155-158.  | 21.0 | 167       |
| 88 | Sustained solar hydrogen generation using a dye-sensitised NiO photocathode/BiVO4 tandem photo-electrochemical device. Energy and Environmental Science, 2012, 5, 9472.   | 30.8 | 167       |
| 89 | High Power Density Electrochemical Thermocells for Inexpensively Harvesting Lowâ€Grade Thermal Energy. Advanced Materials, 2017, 29, 1605652.   | 21.0 | 166       |
| 90 | Conducting electroactive polymer-based biosensors. TrAC - Trends in Analytical Chemistry, 1999, 18, 245-251.  | 11.4 | 165       |

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|-----|---|------|-----------|
| 91  | Superelastic Hybrid CNT/Graphene Fibers for Wearable Energy Storage. Advanced Energy Materials, 2018, 8, 1702047.   | 19.5 | 165       |
| 92  | EVIDENCE FOR PERSISTENCE OF INFECTIOUS AGENTS IN ISOLATED HUMAN POPULATIONS1. American Journal of Epidemiology, 1974, 100, 230-250.   | 3.4  | 164       |
| 93  | 3D Bioprinting Human Induced Pluripotent Stem Cell Constructs for In Situ Cell Proliferation and Successive Multilineage Differentiation. Advanced Healthcare Materials, 2017, 6, 1700175.  | 7.6  | 164       |
| 94  | Handheld Co-Axial Bioprinting: Application to in situ surgical cartilage repair. Scientific Reports, 2017,<br>7, 5837.  | 3.3  | 160       |
| 95  | One‣tep Wet‣pinning Process of Poly(3,4â€ethylenedioxythiophene):Poly(styrenesulfonate) Fibers and the Origin of Higher Electrical Conductivity. Advanced Functional Materials, 2011, 21, 3363-3370.  | 14.9 | 158       |
| 96  | Dye-Sensitized Solar Cell with Integrated Triplet–Triplet Annihilation Upconversion System. Journal of Physical Chemistry Letters, 2013, 4, 2073-2078.  | 4.6  | 158       |
| 97  | The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001.  | 2.8  | 158       |
| 98  | Conducting polymers and the bioanalytical sciences: new tools for biomolecular communications. A review. Analyst, The, 1996, 121, 699.  | 3.5  | 157       |
| 99  | Properties of Carbon Nanotube Fibers Spun from DNA-Stabilized Dispersions. Advanced Functional<br>Materials, 2004, 14, 133-138.   | 14.9 | 155       |
| 100 | Electrochemically Synthesized Polypyrrole/Graphene Composite Film for Lithium Batteries. Advanced<br>Energy Materials, 2012, 2, 266-272.  | 19.5 | 155       |
| 101 | Conducting polymer coated lycra. Synthetic Metals, 2005, 155, 698-701.  | 3.9  | 154       |
| 102 | Extrusion printing of ionic–covalent entanglement hydrogels with high toughness. Journal of<br>Materials Chemistry B, 2013, 1, 4939.  | 5.8  | 154       |
| 103 | Solid state actuators based on polypyrrole and polymer-in-ionic liquid electrolytes. Electrochimica<br>Acta, 2003, 48, 2355-2359.   | 5.2  | 150       |
| 104 | Electrochemical Characterization of Single-Walled Carbon Nanotube Electrodes. Journal of the<br>Electrochemical Society, 2000, 147, 4580.   | 2.9  | 149       |
| 105 | High-power biofuel cell textiles from woven biscrolled carbon nanotube yarns. Nature<br>Communications, 2014, 5, 3928.  | 12.8 | 147       |
| 106 | Biopolymers for Antitumor Implantable Drug Delivery Systems: Recent Advances and Future Outlook.<br>Advanced Materials, 2018, 30, e1706665.   | 21.0 | 147       |
| 107 | Electrical Stimulation Using Conductive Polymer Polypyrrole Promotes Differentiation of Human<br>Neural Stem Cells: A Biocompatible Platform for Translational Neural Tissue Engineering. Tissue<br>Engineering - Part C: Methods, 2015, 21, 385-393. | 2.1  | 146       |
| 108 | High performance conducting polymer actuators utilising a tubular geometry and helical wire interconnects. Synthetic Metals, 2003, 138, 391-398.  | 3.9  | 144       |

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|-----|--|------|-----------|
| 109 | Development of Graphene Oxide/Polyaniline Inks for High Performance Flexible Microsupercapacitors<br>via Extrusion Printing. Advanced Functional Materials, 2018, 28, 1706592.       | 14.9 | 144       |
| 110 | Incorporation of Erythrocytes into Polypyrrole to Form the Basis of a Biosensor to Screen for Rhesus (D) Blood Groups and Rhesus (D) Antibodies. Electroanalysis, 1999, 11, 215-222. | 2.9  | 136       |
| 111 | A Conductingâ€Polymer Platform with Biodegradable Fibers for Stimulation and Guidance of Axonal<br>Growth. Advanced Materials, 2009, 21, 4393-4397.                                  | 21.0 | 136       |
| 112 | Carbon nanotube/graphene nanocomposite as efficient counter electrodes in dye-sensitized solar cells. Nanotechnology, 2012, 23, 085201.  | 2.6  | 135       |
| 113 | Fibronectin and Bovine Serum Albumin Adsorption and Conformational Dynamics on Inherently<br>Conducting Polymers: A QCM-D Study. Langmuir, 2012, 28, 8433-8445.                      | 3.5  | 134       |
| 114 | Electrically Conductive, Tough Hydrogels with pH Sensitivity. Chemistry of Materials, 2012, 24, 3425-3433.   | 6.7  | 134       |
| 115 | A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroin–Ionic Liquid Polymer<br>Electrolyte. ACS Energy Letters, 2017, 2, 831-836.                                    | 17.4 | 134       |
| 116 | The nanostructure of three-dimensional scaffolds enhances the current density of microbial bioelectrochemical systems. Energy and Environmental Science, 2013, 6, 1291.              | 30.8 | 132       |
| 117 | Physical surface and electromechanical properties of doped polypyrrole biomaterials. Biomaterials, 2010, 31, 1974-1983.  | 11.4 | 130       |
| 118 | Tissue engineering with gellan gum. Biomaterials Science, 2016, 4, 1276-1290.  | 5.4  | 130       |
| 119 | Preparation and characterization of processable electroactive polyaniline–polyvinyl alcohol composite. Polymer, 2003, 44, 3523-3528.   | 3.8  | 129       |
| 120 | Tin nanoparticles decorated copper oxide nanowires for selective electrochemical reduction of aqueous CO <sub>2</sub> to CO. Journal of Materials Chemistry A, 2016, 4, 10710-10718. | 10.3 | 129       |
| 121 | Electrochemical and Electrostatic Cleavage of Alkoxyamines. Journal of the American Chemical Society, 2018, 140, 766-774.  | 13.7 | 129       |
| 122 | 3D printing of nanocellulose hydrogel scaffolds with tunable mechanical strength towards wound healing application. Journal of Materials Chemistry B, 2018, 6, 7066-7075.            | 5.8  | 129       |
| 123 | Glucose sensors based on glucose-oxidase-containing polypyrrole/aligned carbon nanotube coaxial nanowire electrodes. Synthetic Metals, 2003, 137, 1393-1394.                         | 3.9  | 128       |
| 124 | Chemical generation of optically active polyaniline via the doping of emeraldine base with (+)- or<br>(?)-camphorsulfonic acid. Polymer, 1995, 36, 3597-3599.                        | 3.8  | 126       |
| 125 | Comparison of polyaniline primers prepared with different dopants for corrosion protection of steel. Progress in Organic Coatings, 2003, 48, 43-49.                                  | 3.9  | 126       |
| 126 | Graphite Oxide to Graphene. Biomaterials to Bionics. Advanced Materials, 2015, 27, 7563-7582.  | 21.0 | 126       |

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|-----|---|------|-----------|
| 127 | Direct Electrodeposition of Polypyrrole on Aluminum and Aluminum Alloy by Electron Transfer<br>Mediation. Journal of the Electrochemical Society, 2002, 149, C173.              | 2.9  | 125       |
| 128 | Superflexibility of graphene oxide. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11088-11093.                                    | 7.1  | 125       |
| 129 | Energy efficient electrochemical reduction of CO <sub>2</sub> to CO using a three-dimensional porphyrin/graphene hydrogel. Energy and Environmental Science, 2019, 12, 747-755. | 30.8 | 125       |
| 130 | Effect of the dopant anion in polypyrrole on nerve growth and release of a neurotrophic protein.<br>Biomaterials, 2011, 32, 3822-3831.  | 11.4 | 124       |
| 131 | Tailoring the mechanical properties of gelatin methacryloyl hydrogels through manipulation of the photocrosslinking conditions. Soft Matter, 2018, 14, 2142-2151.               | 2.7  | 123       |
| 132 | Highâ€Performance Grapheneâ€Fiberâ€Based Neural Recording Microelectrodes. Advanced Materials, 2019,<br>31, e1805867.   | 21.0 | 122       |
| 133 | Conducting polymers ? bridging the bionic interface. Soft Matter, 2007, 3, 665.   | 2.7  | 120       |
| 134 | Nano-Carbon Electrodes for Thermal Energy Harvesting. Journal of Nanoscience and Nanotechnology,<br>2015, 15, 1-14.   | 0.9  | 118       |
| 135 | Modified gellan gum hydrogels for tissue engineering applications. Soft Matter, 2013, 9, 3705.  | 2.7  | 117       |
| 136 | Soft, Flexible Freestanding Neural Stimulation and Recording Electrodes Fabricated from Reduced Graphene Oxide. Advanced Functional Materials, 2015, 25, 3551-3559.             | 14.9 | 117       |
| 137 | â€~SWEATCH': A Wearable Platform for Harvesting and Analysing Sweat Sodium Content.<br>Electroanalysis, 2016, 28, 1283-1289.  | 2.9  | 117       |
| 138 | Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. Sensors and Actuators B: Chemical, 2006, 115, 678-684.                                     | 7.8  | 116       |
| 139 | Inkjet Printable Polyaniline Nanoformulations. Langmuir, 2007, 23, 8569-8574.   | 3.5  | 116       |
| 140 | Biofunctionalized anti-corrosive silane coatings for magnesium alloys. Acta Biomaterialia, 2013, 9,<br>8671-8677.   | 8.3  | 116       |
| 141 | 3-dimensional (3D) fabricated polymer based drug delivery systems. Journal of Controlled Release, 2014, 193, 27-34.   | 9.9  | 116       |
| 142 | Eosinophilic Meningoencephalitis Caused by a Metastrongylid Lung-Worm of Rats. JAMA - Journal of<br>the American Medical Association, 1962, 179, 620.                           | 7.4  | 115       |
| 143 | Mechanical properties of carbon nanotube paper in ionic liquid and aqueous electrolytes. Carbon, 2005, 43, 1891-1896.   | 10.3 | 113       |
| 144 | Highly Conductive Carbon Nanotubeâ€Graphene Hybrid Yarn. Advanced Functional Materials, 2014, 24,<br>5859-5865.   | 14.9 | 113       |

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|-----|---|------|-----------|
| 145 | Formation and processability of liquid crystalline dispersions of graphene oxide. Materials Horizons, 2014, 1, 87-91.   | 12.2 | 113       |
| 146 | The use of microelectrodes to probe the electropolymerization mechanism of heterocyclic<br>conducting polymers. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991,<br>306, 157-167. | 0.1  | 111       |
| 147 | Molecular recognition using conducting polymers: basis of an electrochemical sensing<br>technology—Plenary lecture. Analyst, The, 1993, 118, 329-334.   | 3.5  | 111       |
| 148 | Conducting polymer composites for unconventional solid-state supercapacitors. Journal of Materials<br>Chemistry A, 2020, 8, 4677-4699.  | 10.3 | 111       |
| 149 | A high-performance capillary-fed electrolysis cell promises more cost-competitive renewable hydrogen. Nature Communications, 2022, 13, 1304.  | 12.8 | 111       |
| 150 | The intelligent knee sleeve: A wearable biofeedback device. Sensors and Actuators B: Chemical, 2008, 131, 541-547.  | 7.8  | 109       |
| 151 | Mechanically strong high performance layered polypyrrole nano fibre/graphene film for flexible solid state supercapacitor. Carbon, 2014, 79, 554-562.   | 10.3 | 109       |
| 152 | Liquid Crystal Behavior of Single-Walled Carbon Nanotubes Dispersed in Biological Hyaluronic Acid<br>Solutions. Journal of the American Chemical Society, 2007, 129, 9452-9457.                                 | 13.7 | 108       |
| 153 | Polyaniline and polyaniline–carbon nanotube composite fibres as battery materials in ionic liquid electrolyte. Journal of Power Sources, 2007, 163, 1105-1109.  | 7.8  | 108       |
| 154 | Multifunctional conducting fibres with electrically controlled release of ciprofloxacin. Journal of Controlled Release, 2013, 169, 313-320.   | 9.9  | 108       |
| 155 | Fabrication of Polyaniline-Based Gas Sensors Using Piezoelectric Inkjet and Screen Printing for the Detection of Hydrogen Sulfide. IEEE Sensors Journal, 2010, 10, 1419-1426.                                   | 4.7  | 107       |
| 156 | Simultaneous determination of copper, nickel, cobalt, chromium(VI), and chromium(III) by liquid chromatography with electrochemical detection. Analytical Chemistry, 1982, 54, 1706-1712.                       | 6.5  | 106       |
| 157 | The influence of carbon nanotubes on mechanical and electrical properties of polyaniline fibers.<br>Synthetic Metals, 2005, 152, 77-80.   | 3.9  | 106       |
| 158 | Carbon nanotube network modified carbon fibre paper for Li-ion batteries. Energy and Environmental Science, 2009, 2, 393.   | 30.8 | 106       |
| 159 | Investigation of protein adsorption and electrochemical behavior at a gold electrode. Journal of Colloid and Interface Science, 2003, 261, 312-319.   | 9.4  | 105       |
| 160 | Conducting polymers with immobilised fibrillar collagen for enhanced neural interfacing.<br>Biomaterials, 2011, 32, 7309-7317.  | 11.4 | 105       |
| 161 | Promoting neurite outgrowth from spiral ganglion neuron explants using polypyrrole/BDNFâ€coated<br>electrodes. Journal of Biomedical Materials Research - Part A, 2009, 91A, 241-250.                           | 4.0  | 103       |
| 162 | Microwave-assisted synthesis of Pt/CNT nanocomposite electrocatalysts for PEM fuel cells.<br>Nanoscale, 2010, 2, 282-286.   | 5.6  | 103       |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 163 | Reduced graphene oxide and polypyrrole/reduced graphene oxide composite coated stretchable fabric electrodes for supercapacitor application. Electrochimica Acta, 2015, 172, 12-19.                                 | 5.2  | 103       |
| 164 | A novel capacitor material based on Nafion-doped polypyrrole. Journal of Power Sources, 2008, 177, 665-668.   | 7.8  | 101       |
| 165 | A highly nitrogen-doped porous graphene – an anode material for lithium ion batteries. Journal of<br>Materials Chemistry A, 2015, 3, 18229-18237.   | 10.3 | 101       |
| 166 | Polypyrrole-based amperometric flow injection biosensor for urea. Analytica Chimica Acta, 1996, 323, 107-113.   | 5.4  | 100       |
| 167 | Characterisation of olive oil by an electronic nose based on conducting polymer sensors. Sensors and Actuators B: Chemical, 2000, 63, 1-9.  | 7.8  | 100       |
| 168 | Polymerisation and characterisation of conducting polyaniline nanoparticle dispersions. Current<br>Applied Physics, 2004, 4, 402-406.   | 2.4  | 100       |
| 169 | Engineering Surface Amine Modifiers of Ultrasmall Gold Nanoparticles Supported on Reduced<br>Graphene Oxide for Improved Electrochemical CO <sub>2</sub> Reduction. Advanced Energy Materials,<br>2018, 8, 1801400. | 19.5 | 100       |
| 170 | Electrofunctional polymers: their role in the development of new analytical systems. Analyst, The, 1999, 124, 213-219.  | 3.5  | 99        |
| 171 | Electrode-Cellular Interface. Science, 2009, 324, 185-186.  | 12.6 | 99        |
| 172 | Chondrogenesis of Infrapatellar Fat Pad Derived Adipose Stem Cells in 3D Printed Chitosan Scaffold.<br>PLoS ONE, 2014, 9, e99410.   | 2.5  | 99        |
| 173 | Biocompatible Ionic Liquid–Biopolymer Electrolyte-Enabled Thin and Compact Magnesium–Air<br>Batteries. ACS Applied Materials & Interfaces, 2014, 6, 21110-21117.  | 8.0  | 99        |
| 174 | Toward Biodegradable Mg–Air Bioelectric Batteries Composed of Silk Fibroin–Polypyrrole Film.<br>Advanced Functional Materials, 2016, 26, 1454-1462.   | 14.9 | 99        |
| 175 | Micro-humidity sensors based on a processable polyaniline blend. Sensors and Actuators B: Chemical, 2005, 107, 657-665.   | 7.8  | 98        |
| 176 | Printing conducting polymers. Analyst, The, 2010, 135, 2779.  | 3.5  | 98        |
| 177 | The origin of open circuit voltage of porphyrin-sensitised TiO2 solar cells. Chemical Communications, 2008, , 4741.   | 4.1  | 97        |
| 178 | Advanced Wearable Thermocells for Body Heat Harvesting. Advanced Energy Materials, 2020, 10, 2002539.   | 19.5 | 97        |
| 179 | A Multiswitchable Poly(terthiophene) Bearing a Spiropyran Functionality: Understanding Photo- and<br>Electrochemical Control. Journal of the American Chemical Society, 2011, 133, 5453-5462.                       | 13.7 | 96        |
| 180 | Manganese dioxide-anchored three-dimensional nitrogen-doped graphene hybrid aerogels as excellent<br>anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 10403-10412.             | 10.3 | 96        |

| #   | Article   | IF                | CITATIONS            |
|-----|---|-------------------|----------------------|
| 181 | Conducting polymer coated neural recording electrodes. Journal of Neural Engineering, 2013, 10, 016004.   | 3.5               | 95                   |
| 182 | High-performance hybrid carbon nanotube fibers for wearable energy storage. Nanoscale, 2017, 9,<br>5063-5071.   | 5.6               | 95                   |
| 183 | Pulse damperometric detection of proteins using antibody containing conducting polymers. Analytica Chimica Acta, 1993, 279, 209-212.  | 5.4               | 94                   |
| 184 | Electrical stimulation promotes nerve cell differentiation on polypyrrole/poly (2-methoxy-5 aniline) Tj ETQqO 0 0   | rgBT /Ovei<br>3.5 | rlock 10 Tf 50<br>94 |
| 185 | Injection Limitations in a Series of Porphyrin Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2010, 114, 3276-3279.   | 3.1               | 94                   |
| 186 | Preparation and enhanced stability of flexible supercapacitor prepared from Nafion/polyaniline nanofiber. Synthetic Metals, 2010, 160, 94-98.                                     | 3.9               | 94                   |
| 187 | Fully Roll-to-Roll Gravure Printable Wireless (13.56â€MHz) Sensor-Signage Tags for Smart Packaging.<br>Scientific Reports, 2014, 4, 5387.   | 3.3               | 94                   |
| 188 | Tunable Conducting Polymers: Toward Sustainable and Versatile Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 14321-14340.   | 6.7               | 94                   |
| 189 | Achieving Outstanding Mechanical Performance in Reinforced Elastomeric Composite Fibers Using<br>Large Sheets of Graphene Oxide. Advanced Functional Materials, 2015, 25, 94-104. | 14.9              | 93                   |
| 190 | Soft Mechanical Sensors Through Reverse Actuation in Polypyrrole. Advanced Functional Materials, 2007, 17, 3216-3222.   | 14.9              | 92                   |
| 191 | Human endothelial cell attachment to and growth on polypyrrole-heparin is vitronectin dependent.<br>Journal of Materials Science: Materials in Medicine, 1999, 10, 19-27.         | 3.6               | 91                   |
| 192 | Biomaterials for corneal bioengineering. Biomedical Materials (Bristol), 2018, 13, 032002.  | 3.3               | 91                   |
| 193 | Electrochemical Properties of Single-Wall Carbon Nanotube Electrodes. Journal of the<br>Electrochemical Society, 2003, 150, E409.   | 2.9               | 90                   |
| 194 | Enhanced control and stability of polypyrrole electromechanical actuators. Synthetic Metals, 2004, 140, 273-280.  | 3.9               | 90                   |
| 195 | An Amperometric Enzyme Biosensor Fabricated from Polyaniline Nanoparticles. Electroanalysis, 2005, 17, 423-430.   | 2.9               | 90                   |
| 196 | DNAâ€Wrapped Singleâ€Walled Carbon Nanotube Hybrid Fibers for supercapacitors and Artificial Muscles.<br>Advanced Materials, 2008, 20, 466-470.                                   | 21.0              | 90                   |
| 197 | Vapour phase polymerisation of conducting and non-conducting polymers: A review. Talanta, 2014, 119, 133-143.   | 5.5               | 90                   |
| 198 | Electrochemical quartz crystal microbalance studies of single-wall carbon nanotubes in aqueous and non-aqueous solutions. Electrochimica Acta, 2000, 46, 509-517.                 | 5.2               | 88                   |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 199 | A Porphyrin/Graphene Framework: A Highly Efficient and Robust Electrocatalyst for Carbon Dioxide<br>Reduction. Advanced Energy Materials, 2018, 8, 1801280.   | 19.5 | 88        |
| 200 | Simultaneous determination of free sulfide and cyanide by ion chromatography with electrochemical detection. Analytical Chemistry, 1982, 54, 582-585.   | 6.5  | 87        |
| 201 | 3D printed metal columns for capillary liquid chromatography. Analyst, The, 2014, 139, 6343-6347.   | 3.5  | 87        |
| 202 | Novel biosensor fabrication methodology based on processable conducting polyaniline nanoparticles. Electrochemistry Communications, 2005, 7, 317-322.   | 4.7  | 86        |
| 203 | On the electrodeposition of titanium in ionic liquids. Physical Chemistry Chemical Physics, 2008, 10, 2189.   | 2.8  | 85        |
| 204 | Thin, Tough, pH-Sensitive Hydrogel Films with Rapid Load Recovery. ACS Applied Materials &<br>Interfaces, 2014, 6, 4109-4114.   | 8.0  | 85        |
| 205 | STUDIES ON EOSINOPHILIC MENINGITIS. 3. EPIDEMIOLOGIC AND CLINICAL OBSERVATIONS ON PACIFIC ISLANDS AND THE POSSIBLE ETIOLOGIC ROLE OF ANGIOSTRONGYLUS CANTONENSIS1. American Journal of Epidemiology, 1967, 85, 17-44. | 3.4  | 84        |
| 206 | 3D Bioprinting of Cartilage for Orthopedic Surgeons: Reading between the Lines. Frontiers in Surgery, 2015, 2, 39.  | 1.4  | 84        |
| 207 | A robust free-standing MoS2/poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) film for supercapacitor applications. Electrochimica Acta, 2017, 235, 348-355.  | 5.2  | 84        |
| 208 | Doping-dedoping of polypyrrole: a study using current-measuring and resistance-measuring techniques. Journal of Electroanalytical Chemistry, 1993, 354, 145-160.  | 3.8  | 83        |
| 209 | An erodible polythiophene-based composite for biomedical applications. Journal of Materials<br>Chemistry, 2011, 21, 5555.   | 6.7  | 83        |
| 210 | Hybrid Nanomembranes for High Power and High Energy Density Supercapacitors and Their Yarn<br>Application. ACS Nano, 2012, 6, 327-334.  | 14.6 | 83        |
| 211 | Manganosite–microwave exfoliated graphene oxide composites for asymmetric supercapacitor device applications. Electrochimica Acta, 2013, 101, 99-108.   | 5.2  | 83        |
| 212 | Composite Photocatalysts Containing BiVO4 for Degradation of Cationic Dyes. Scientific Reports, 2017, 7, 8929.  | 3.3  | 82        |
| 213 | Functionalizing graphene with titanate coupling agents as reinforcement for one-component<br>waterborne poly(urethane-acrylate) anticorrosion coatings. Chemical Engineering Journal, 2019, 359,<br>331-343.          | 12.7 | 82        |
| 214 | Polypyrrole-based potentiometric biosensor for urea part 1. Incorporation of urease. Analytica Chimica Acta, 1993, 281, 611-620.  | 5.4  | 81        |
| 215 | Studies of double layer capacitance and electron transfer at a gold electrode exposed to protein solutions. Electrochimica Acta, 2004, 49, 4223-4230.   | 5.2  | 81        |
| 216 | Self-Oscillatory Actuation at Constant DC Voltage with pH-Sensitive Chitosan/Polyaniline Hydrogel Blend. Chemistry of Materials, 2006, 18, 5805-5809.   | 6.7  | 81        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 217 | Development of a polypyrrole-based human serum albumin sensor. Analytica Chimica Acta, 1991, 249, 381-385.   | 5.4  | 80        |
| 218 | Temporal trends of triclosan contamination in dated sediment cores from four urbanized estuaries:<br>Evidence of preservation and accumulation. Chemosphere, 2010, 78, 347-352.                          | 8.2  | 80        |
| 219 | 3D Printing for Electrocatalytic Applications. Joule, 2019, 3, 1835-1849.  | 24.0 | 80        |
| 220 | Poly(pyrrole-N-carbodithioate) electrode for electroanalysis. Analytical Chemistry, 1986, 58, 128-131.   | 6.5  | 79        |
| 221 | The fabrication and characterization of inkjet-printed polyaniline nanoparticle films. Electrochimica Acta, 2008, 53, 5092-5099.   | 5.2  | 79        |
| 222 | Organic Conducting Polymer–Protein Interactions. Chemistry of Materials, 2012, 24, 828-839.  | 6.7  | 79        |
| 223 | A wearable sensor for the detection of sodium and potassium in human sweat during exercise.<br>Talanta, 2020, 219, 121145.   | 5.5  | 79        |
| 224 | Behavior of copper in southeastern United States estuaries. Marine Chemistry, 1983, 12, 183-193.   | 2.3  | 78        |
| 225 | Preparation, characterisation and biosensor application of conducting polymers based on ferrocene substituted thiophene and terthiophene. Electrochimica Acta, 2002, 47, 2715-2724.                      | 5.2  | 78        |
| 226 | Increased upconversion performance for thin film solar cells: a trimolecular composition. Chemical Science, 2016, 7, 559-568.  | 7.4  | 78        |
| 227 | SEROLOGIC AND EPIDEMIOLOGIC OBSERVATIONS ON TOXOPLASMOSIS ON THREE PACIFIC ATOLLS.<br>American Journal of Epidemiology, 1969, 90, 103-111.   | 3.4  | 77        |
| 228 | Inkjet deposition and characterization of transparent conducting electroactive polyaniline composite films with a high carbon nanotube loading fraction. Journal of Materials Chemistry, 2007, 17, 4359. | 6.7  | 77        |
| 229 | Carbon-Nanotube Biofibers. Advanced Materials, 2007, 19, 1244-1248.  | 21.0 | 77        |
| 230 | Ionic-covalent entanglement hydrogels from gellan gum, carrageenan and an epoxy-amine. Soft<br>Matter, 2013, 9, 3009.  | 2.7  | 77        |
| 231 | Facile preparation of optically active polyanilines via the in situ chemical oxidative polymerisation of aniline. Synthetic Metals, 1999, 106, 171-176.  | 3.9  | 76        |
| 232 | Conducting textiles from single-walled carbon nanotubes. Synthetic Metals, 2007, 157, 358-362.   | 3.9  | 76        |
| 233 | Highly Stretchable Conducting SIBSâ€₽3HT Fibers. Advanced Functional Materials, 2011, 21, 955-962  | 14.9 | 76        |
| 234 | Optimizing Electron Densities of Niâ€Nâ€C Complexes by Hybrid Coordination for Efficient<br>Electrocatalytic CO <sub>2</sub> Reduction. ChemSusChem, 2020, 13, 929-937.                                  | 6.8  | 76        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 235 | Liquid chromatography with electrochemical and or spectrophotometric detection for automated determination of lead, cadmium, mercury, cobalt, nickel and copper. Analytical Chemistry, 1984, 56, 2085-2090.       | 6.5  | 75        |
| 236 | Pulsed amperometric detection of thaumatin using antibody-containing poly(pyrrole) electrodes.<br>Analyst, The, 1994, 119, 1997.  | 3.5  | 75        |
| 237 | Conducting Polymers and Corrosion III. A Scanning Vibrating Electrode Study of Poly(3-octyl pyrrole) on Steel and Aluminum. Journal of the Electrochemical Society, 2000, 147, 3667.                              | 2.9  | 75        |
| 238 | Applications of scanning electrochemical microscopy (SECM) for local characterization of AZ31 surface during corrosion in a buffered media. Corrosion Science, 2014, 86, 93-100.                                  | 6.6  | 75        |
| 239 | 3Dâ€Printed Conical Arrays of TiO <sub>2</sub> Electrodes for Enhanced Photoelectrochemical Water Splitting. Advanced Energy Materials, 2017, 7, 1701060.   | 19.5 | 75        |
| 240 | Responsive conducting polymer-hydrogel composites. Polymer Gels and Networks, 1997, 5, 251-265.   | 0.6  | 74        |
| 241 | Poly(3,4-ethylenedioxythiophene):dextran sulfate (PEDOT:DS) – A highly processable conductive organic biopolymer. Acta Biomaterialia, 2015, 14, 33-42.  | 8.3  | 74        |
| 242 | Co-deposition of carbon dots and reduced graphene oxide nanosheets on carbon-fiber<br>microelectrode surface for selective detection of dopamine. Applied Surface Science, 2017, 412, 131-137.                    | 6.1  | 74        |
| 243 | Polyaniline fibres containing single walled carbon nanotubes: Enhanced performance artificial muscles. Synthetic Metals, 2006, 156, 796-803.  | 3.9  | 73        |
| 244 | Detection of electroinactive ions using conducting polymer microelectrodes. Electroanalysis, 1994, 6, 860-864.  | 2.9  | 72        |
| 245 | Studies of the overoxidation of polypyrrole. Synthetic Metals, 1997, 84, 403-404.   | 3.9  | 72        |
| 246 | Disclosure of Adverse Events in the United States and Canada: An Update, and a Proposed Framework<br>for Improvement. Journal of Public Health Research, 2013, 2, jphr.2013.e32.                                  | 1.2  | 72        |
| 247 | Chemically converted graphene: scalable chemistries to enable processing and fabrication. NPG Asia<br>Materials, 2015, 7, e186-e186.  | 7.9  | 72        |
| 248 | The influence of organic matter and atmospheric deposition on the particulate trace metal concentration of northwest Atlantic surface seawater. Marine Chemistry, 1977, 5, 143-170.                               | 2.3  | 71        |
| 249 | Preparation and application of conducting polymers containing chemically active counterions for analytical purposes. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 247, 145-156. | 0.1  | 71        |
| 250 | Electroactive-conducting polymers for corrosion control. Progress in Organic Coatings, 2001, 43, 149-157.   | 3.9  | 71        |
| 251 | Novel electrode substrates for rechargeable lithium/polypyrrole batteries. Journal of Power<br>Sources, 2005, 140, 162-167.   | 7.8  | 71        |
| 252 | Biomolecules as selective dispersants for carbon nanotubes. Carbon, 2005, 43, 1879-1884.  | 10.3 | 71        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 253 | Extrusion printed polymer structures: A facile and versatile approach to tailored drug delivery platforms. International Journal of Pharmaceutics, 2012, 422, 254-263.                             | 5.2  | 71        |
| 254 | Biofabrication of human articular cartilage: a path towards the development of a clinical treatment.<br>Biofabrication, 2018, 10, 045006.  | 7.1  | 71        |
| 255 | Interobserver agreement in the examination of acute ankle injury patients. American Journal of<br>Emergency Medicine, 1992, 10, 14-17.   | 1.6  | 70        |
| 256 | Polypyrrole-based potentiometric biosensor for urea. Analytica Chimica Acta, 1993, 281, 621-627.   | 5.4  | 70        |
| 257 | Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part I. Use of macroelectrodes. Analytica Chimica Acta, 1997, 339, 201-209.        | 5.4  | 70        |
| 258 | A novel "dual mode―actuation in chitosan/polyaniline/carbon nanotube fibers. Sensors and Actuators<br>B: Chemical, 2007, 121, 616-621.   | 7.8  | 70        |
| 259 | Response Characterization of Electroactive Polymers as Mechanical Sensors. IEEE/ASME Transactions on Mechatronics, 2008, 13, 187-196.  | 5.8  | 70        |
| 260 | High sensitivity DNA detection using gold nanoparticle functionalised polyaniline nanofibres.<br>Biosensors and Bioelectronics, 2011, 26, 2613-2618.   | 10.1 | 70        |
| 261 | Wholly printed polypyrrole nanoparticle-based biosensors on flexible substrate. Journal of Materials<br>Chemistry B, 2014, 2, 793-799.   | 5.8  | 70        |
| 262 | Clinical manifestations of eosinophilic meningitis due to <i>Angiostrongylus cantonensis</i> .<br>Neurology, 1979, 29, 1566-1570.  | 1.1  | 70        |
| 263 | Deposition and electrochemical stripping of mercury ions on polypyrrole based modified electrodes.<br>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 246, 181-191. | 0.1  | 69        |
| 264 | Amperometric Glucose Biosensor on Layer by Layer Assembled Carbon Nanotube and Polypyrrole<br>Multilayer Film. Electroanalysis, 2008, 20, 150-156.   | 2.9  | 69        |
| 265 | Determination of copper as a dithiocarbamate complex by reverse-phase liquid chromatography with electrochemical detection. Analytical Chemistry, 1981, 53, 1209-1213.                             | 6.5  | 68        |
| 266 | Facile synthesis of optically active polyaniline and polytoluidine. Polymer, 1996, 37, 359-362.  | 3.8  | 68        |
| 267 | Pulsed-amperometric detection of urea in blood samples on a conducting polypyrrole-urease biosensor. Analytica Chimica Acta, 1997, 341, 155-160.   | 5.4  | 68        |
| 268 | Inherently Conducting Polymer Nanostructures. Journal of Nanoscience and Nanotechnology, 2002, 2, 441-451.   | 0.9  | 68        |
| 269 | Electrochemical modulation of antigen–antibody binding. Biosensors and Bioelectronics, 2004, 20, 260-268.  | 10.1 | 68        |
| 270 | Carbon Nanotube Biofiber Formation in a Polymerâ€Free Coagulation Bath. Advanced Functional<br>Materials, 2008, 18, 61-66.   | 14.9 | 68        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 271 | Reproducible flaws unveil electrostatic aspects of semiconductor electrochemistry. Nature<br>Communications, 2017, 8, 2066.   | 12.8 | 68        |
| 272 | Multitechnology Biofabrication: A New Approach for the Manufacturing of Functional Tissue<br>Structures?. Trends in Biotechnology, 2020, 38, 1316-1328.   | 9.3  | 68        |
| 273 | Studies on Eosinophilic Meningitis. American Journal of Tropical Medicine and Hygiene, 1969, 18, 206-216.   | 1.4  | 68        |
| 274 | Detection of amino acids at conducting electroactive polymer modified electrodes using flow injection analysis. Part II. Use of microelectrodes. Analytica Chimica Acta, 1997, 339, 211-223.      | 5.4  | 67        |
| 275 | Conducting polymer sensors for monitoring aromatic hydrocarbons using an electronic nose.<br>Sensors and Actuators B: Chemical, 2002, 84, 252-257.  | 7.8  | 67        |
| 276 | TITAN: a conducting polymer based microfluidic pump. Smart Materials and Structures, 2005, 14, 1511-1516.   | 3.5  | 67        |
| 277 | A Cytocompatible Robust Hybrid Conducting Polymer Hydrogel for Use in a Magnesium Battery.<br>Advanced Materials, 2016, 28, 9349-9355.  | 21.0 | 67        |
| 278 | Cartilage Tissue Engineering Using Stem Cells and Bioprinting Technology—Barriers to Clinical<br>Translation. Frontiers in Surgery, 2018, 5, 70.  | 1.4  | 67        |
| 279 | Influence of the chiral dopant anion on the generation of induced optical activity in polyanilines.<br>Polymer, 1997, 38, 2627-2631.  | 3.8  | 66        |
| 280 | Electrochemical Formation of Chiral Polyaniline Colloids Codoped with (+)- or<br>(â^')-10-Camphorsulfonic Acid and Polystyrene Sulfonate. Macromolecules, 1998, 31, 6521-6528.                    | 4.8  | 66        |
| 281 | Electroformation of conducting polymers in a hydrogel support matrix. Polymer, 2000, 41, 1783-1790.   | 3.8  | 66        |
| 282 | Characterisation of the topography and surface potential of electrodeposited conducting polymer films using atomic force and electric force microscopies. Electrochimica Acta, 2000, 46, 519-531. | 5.2  | 66        |
| 283 | Three-dimensional bio-printing. Science China Life Sciences, 2015, 58, 411-419.   | 4.9  | 66        |
| 284 | A Free-standing Graphene-Polypyrrole Hybrid Paper via Electropolymerization with an Enhanced Areal<br>Capacitance. Electrochimica Acta, 2016, 212, 561-571.                                       | 5.2  | 66        |
| 285 | Pt nanoparticles embedded metal-organic framework nanosheets: A synergistic strategy towards bifunctional oxygen electrocatalysis. Applied Catalysis B: Environmental, 2019, 245, 389-398.        | 20.2 | 66        |
| 286 | Atomic nickel cluster decorated defect-rich copper for enhanced C2 product selectivity in electrocatalytic CO2 reduction. Applied Catalysis B: Environmental, 2021, 291, 120030.                  | 20.2 | 66        |
| 287 | Automated determination of nickel and copper by liquid chromatography with electrochemical and spectrophotometric detection. Analytical Chemistry, 1983, 55, 718-723.                             | 6.5  | 65        |
| 288 | Engineering a multimodal nerve conduit for repair of injured peripheral nerve. Journal of Neural<br>Engineering, 2013, 10, 016008.  | 3.5  | 65        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 289 | One-Step Synthesis of Graphene/Polypyrrole Nanofiber Composites as Cathode Material for a<br>Biocompatible Zinc/Polymer Battery. ACS Applied Materials & Interfaces, 2014, 6, 16679-16686.                                      | 8.0  | 65        |
| 290 | Flexible Electrodes and Electrolytes for Energy Storage. Electrochimica Acta, 2015, 175, 87-95.   | 5.2  | 65        |
| 291 | Developments in conducting polymer fibres: from established spinning methods toward advanced applications. RSC Advances, 2016, 6, 44687-44716.  | 3.6  | 65        |
| 292 | UV Cross-Linkable Graphene/Poly(trimethylene Carbonate) Composites for 3D Printing of Electrically Conductive Scaffolds. ACS Applied Materials & Interfaces, 2016, 8, 31916-31925.  | 8.0  | 65        |
| 293 | Reactive supramolecular assemblies of mucopolysaccharide, polypyrrole and protein as controllable<br>biocomposites for a new generation of â€īntelligent biomaterials'. Supramolecular Science, 1994, 1,<br>77-83.              | 0.7  | 64        |
| 294 | lron(II) in rainwater, snow, and surface seawater from a coastal environment. Marine Chemistry, 1995, 50, 41-50.  | 2.3  | 64        |
| 295 | Functionalized polythiophene-coated textile: A new anode material for a flexible battery. Journal of Power Sources, 2006, 156, 610-614.   | 7.8  | 64        |
| 296 | One‣tep Synthesis of Conducting Polymer–Noble Metal Nanoparticle Composites using an Ionic<br>Liquid. Advanced Functional Materials, 2008, 18, 2031-2040.   | 14.9 | 64        |
| 297 | Artificial Muscles Based on Polypyrrole/Carbon Nanotube Laminates. Advanced Materials, 2011, 23, 2966-2970.   | 21.0 | 64        |
| 298 | Nanobionics: the impact of nanotechnology on implantable medical bionic devices. Nanoscale, 2012, 4, 4327.  | 5.6  | 64        |
| 299 | Wet-spinning of PEDOT:PSS/Functionalized-SWNTs Composite: a Facile Route Toward Production of Strong and Highly Conducting Multifunctional Fibers. Scientific Reports, 2013, 3, 3438.   | 3.3  | 64        |
| 300 | Photo hemopropulsion – Lightâ€Stimulated Movement of Microdroplets. Advanced Materials, 2014, 26,<br>7339-7345.   | 21.0 | 64        |
| 301 | Ionic electroactive polymer artificial muscles in space applications. Scientific Reports, 2014, 4, 6913.  | 3.3  | 64        |
| 302 | Enzymatic degradation of graphene/polycaprolactone materials for tissue engineering. Polymer<br>Degradation and Stability, 2015, 111, 71-77.  | 5.8  | 64        |
| 303 | TEMPO Monolayers on Si(100) Electrodes: Electrostatic Effects by the Electrolyte and Semiconductor Space-Charge on the Electroactivity of a Persistent Radical. Journal of the American Chemical Society, 2016, 138, 9611-9619. | 13.7 | 64        |
| 304 | 3D printed titanium micro-bore columns containing polymer monoliths for reversed-phase liquid chromatography. Analytica Chimica Acta, 2016, 910, 84-94.   | 5.4  | 64        |
| 305 | A de-doping/re-doping study of organic soluble polyaniline. Synthetic Metals, 2002, 129, 165-172.   | 3.9  | 63        |
| 306 | A highly flexible polymer fibre battery. Journal of Power Sources, 2005, 150, 223-228.  | 7.8  | 63        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 307 | The Development and Characterisation of Conducting Polymeric-based Sensing Devices. Synthetic Metals, 2005, 154, 25-28.   | 3.9  | 63        |
| 308 | Nanostructured carbon electrodes. Journal of Materials Chemistry, 2010, 20, 3553.   | 6.7  | 63        |
| 309 | Engineering Carbon Materials for Electrochemical Oxygen Reduction Reactions. Advanced Energy<br>Materials, 2021, 11, 2100695.   | 19.5 | 63        |
| 310 | Effect of the counterion employed during synthesis on the properties of polypyrrole membranes.<br>Journal of Membrane Science, 1994, 87, 47-56.   | 8.2  | 62        |
| 311 | Quartz crystal microbalance studies of the effect of solution temperature on the ion-exchange properties of polypyrrole conducting electroactive polymers. Reactive and Functional Polymers, 2003, 56, 141-146. | 4.1  | 62        |
| 312 | Actuation behaviour of layered composites of polyaniline, carbon nanotubes and polypyrrole.<br>Synthetic Metals, 2005, 151, 85-91.  | 3.9  | 62        |
| 313 | Creating conductive structures for cell growth: Growth and alignment of myogenic cell types on polythiophenes. Journal of Biomedical Materials Research - Part A, 2010, 95A, 256-268.                           | 4.0  | 62        |
| 314 | Human Neural Tissues from Neural Stem Cells Using Conductive Biogel and Printed Polymer<br>Microelectrode Arrays for 3D Electrical Stimulation. Advanced Healthcare Materials, 2019, 8,<br>e1900425.            | 7.6  | 62        |
| 315 | Nanoelectrodes: energy conversion and storage. Materials Today, 2009, 12, 20-27.  | 14.2 | 61        |
| 316 | Electromechanical coupling in polypyrrole sensors and actuators. Sensors and Actuators A: Physical, 2010, 161, 127-133.   | 4.1  | 61        |
| 317 | Inkjet printed polypyrrole/collagen scaffold: A combination of spatial control and electrical stimulation of PC12 cells. Synthetic Metals, 2012, 162, 1375-1380.  | 3.9  | 61        |
| 318 | Electrical Stimulation of Myoblast Proliferation and Differentiation on Aligned Nanostructured Conductive Polymer Platforms. Advanced Healthcare Materials, 2012, 1, 801-808.                                   | 7.6  | 61        |
| 319 | Experimental Transmission of Toxoplasma Gondii by Filth-Flies. American Journal of Tropical Medicine and Hygiene, 1971, 20, 411-413.  | 1.4  | 61        |
| 320 | Experimental Transmission of Toxoplasma gondii by Cockroaches. Journal of Infectious Diseases, 1972,<br>126, 545-547.   | 4.0  | 60        |
| 321 | Concentration of particulate trace metals and particulate organic carbon in marine surface waters by a bubble flotation mechanism. Marine Chemistry, 1975, 3, 157-181.  | 2.3  | 60        |
| 322 | Enhanced electrochemical stability of polyaniline in ionic liquids. Current Applied Physics, 2004, 4, 389-393.  | 2.4  | 60        |
| 323 | Fast Carbon Nanotube Charging and Actuation. Advanced Materials, 2006, 18, 870-873.   | 21.0 | 60        |
| 324 | Putting function into fashion: Organic conducting polymer fibres and textiles. Fibers and Polymers, 2007, 8, 135-142.   | 2.1  | 60        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 325 | Enhanced Performance of Dye Sensitized Solar Cells Utilizing Platinum Electrodeposit Counter Electrodes. Journal of the Electrochemical Society, 2008, 155, K124.                                 | 2.9  | 60        |
| 326 | Bio-functionalisation of polydimethylsiloxane with hyaluronic acid and hyaluronic acid – Collagen conjugate for neural interfacing. Biomaterials, 2011, 32, 4714-4724.                            | 11.4 | 60        |
| 327 | Inhibition of smooth muscle cell adhesion and proliferation on heparin-doped polypyrrole. Acta<br>Biomaterialia, 2012, 8, 194-200.  | 8.3  | 60        |
| 328 | Electrodeposited polypyrrole (PPy)/para (toluene sulfonic acid) (pTS) free-standing film for lithium secondary battery application. Electrochimica Acta, 2012, 60, 201-205.                       | 5.2  | 60        |
| 329 | Self-healing graphene oxide-based composite for electromagnetic interference shielding. Carbon, 2019, 155, 499-505.   | 10.3 | 60        |
| 330 | Hybrid Printing Using Cellulose Nanocrystals Reinforced GelMA/HAMA Hydrogels for Improved Structural Integration. Advanced Healthcare Materials, 2020, 9, e2001410.                               | 7.6  | 60        |
| 331 | Besnoitia species (Protozoa, Sporozoa, Toxoplasmatidae): recognition of cyclic transmission by cats.<br>Science, 1975, 188, 369-371.  | 12.6 | 59        |
| 332 | Electrochemically controlled transport of potassium chloride across a conducting electro-active polymer membrane. Journal of Electroanalytical Chemistry, 1992, 334, 111-120.                     | 3.8  | 59        |
| 333 | Force generation from polypyrrole actuators. Smart Materials and Structures, 2005, 14, 406-412.   | 3.5  | 59        |
| 334 | Liquid Crystallinity and Dimensions of Surfactant-Stabilized Sheets of Reduced Graphene Oxide.<br>Journal of Physical Chemistry Letters, 2012, 3, 2425-2430.                                      | 4.6  | 59        |
| 335 | Emulsion-coaxial electrospinning: designing novel architectures for sustained release of highly soluble low molecular weight drugs. Journal of Materials Chemistry, 2012, 22, 11347.              | 6.7  | 59        |
| 336 | Adaptive Membrane Systems Based on Conductive Electroactive Polymers. Journal of Intelligent<br>Material Systems and Structures, 1993, 4, 43-49.  | 2.5  | 58        |
| 337 | In-situ electrochemical studies on the redox properties of polypyrrole in aqueous solutions.<br>European Polymer Journal, 1999, 35, 1761-1772.  | 5.4  | 58        |
| 338 | Exploiting high quality PEDOT:PSS–SWNT composite formulations for wet-spinning multifunctional fibers. Journal of Materials Chemistry, 2012, 22, 25174.   | 6.7  | 58        |
| 339 | THE ROLE OF THE CAT IN THE NATURAL HISTORY OF TOXOPLASMA GONDII. American Journal of Tropical Medicine and Hygiene, 1973, 22, 313-322.  | 1.4  | 58        |
| 340 | Electrochemical Synthesis and Chiroptical Properties of Optically Active Poly(o-methoxyaniline).<br>Macromolecules, 2000, 33, 3237-3243.  | 4.8  | 57        |
| 341 | Determining the Orientation and Molecular Packing of Organic Dyes on a TiO <sub>2</sub> Surface<br>Using X-ray Reflectometry. Langmuir, 2011, 27, 12944-12950.                                    | 3.5  | 57        |
| 342 | A pHâ€sensitive, strong doubleâ€network hydrogel: Poly(ethylene glycol) methyl ether<br>methacrylates–poly(acrylic acid). Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 423-430. | 2.1  | 57        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 343 | Novel nanographene/porphyrin hybrids – preparation, characterization, and application in solar energy conversion schemes. Chemical Science, 2013, 4, 3085.                                      | 7.4  | 57        |
| 344 | Coupling machine learning with 3D bioprinting to fast track optimisation of extrusion printing.<br>Applied Materials Today, 2021, 22, 100914.   | 4.3  | 57        |
| 345 | Stirring influences the phytoplankton species composition within enclosed columns of coastal sea water. Journal of Experimental Marine Biology and Ecology, 1978, 32, 219-239.                  | 1.5  | 56        |
| 346 | Development of membrane systems based on conducting polymers. Synthetic Metals, 1999, 102, 1338-1341.   | 3.9  | 56        |
| 347 | Conducting Polymers with Fibrillar Morphology Synthesized in a Biphasic Ionic Liquid/Water System.<br>Macromolecules, 2007, 40, 2702-2711.  | 4.8  | 56        |
| 348 | Direct exfoliation of graphite with a porphyrin – creating functionalizable nanographene hybrids.<br>Chemical Communications, 2012, 48, 8745.   | 4.1  | 56        |
| 349 | All-polymer battery system based on polypyrrole (PPy)/para (toluene sulfonic acid) (pTS) and polypyrrole (PPy)/indigo carmine (IC) free standing films. Electrochimica Acta, 2012, 83, 209-215. | 5.2  | 56        |
| 350 | Electrochemical chromatography —packings, hardware and mechanisms of interaction. Journal of<br>Chromatography A, 1991, 544, 305-316.   | 3.7  | 55        |
| 351 | Preparation of hydrogel/conducting polymer composites. Polymer Gels and Networks, 1994, 2, 135-143.   | 0.6  | 55        |
| 352 | Production of polypyrrole fibres by wet spinning. Synthetic Metals, 2008, 158, 104-107.   | 3.9  | 55        |
| 353 | A reactive wet spinning approach to polypyrrole fibres. Journal of Materials Chemistry, 2011, 21, 6421.   | 6.7  | 55        |
| 354 | A flexible capacitor based on conducting polymer electrodes. Synthetic Metals, 2011, 161, 1130-1132.  | 3.9  | 55        |
| 355 | Organic Bionics: A New Dimension in Neural Communications. Advanced Functional Materials, 2012, 22, 2003-2014.  | 14.9 | 55        |
| 356 | Flexible free-standing graphene paper with interconnected porous structure for energy storage.<br>Journal of Materials Chemistry A, 2015, 3, 4428-4434.   | 10.3 | 55        |
| 357 | High Performance Fe Porphyrin/Ionic Liquid Coâ€catalyst for Electrochemical CO <sub>2</sub><br>Reduction. Chemistry - A European Journal, 2016, 22, 14158-14161.                                | 3.3  | 55        |
| 358 | Development of a Coaxial 3D Printing Platform for Biofabrication of Implantable Isletâ€Containing<br>Constructs. Advanced Healthcare Materials, 2019, 8, e1801181.                              | 7.6  | 55        |
| 359 | Photovoltaic devices based on polythiophenes and substituted polythiophenes. Synthetic Metals, 2001, 123, 53-60.  | 3.9  | 54        |
| 360 | Surprising shrinkage of expanding gels under an external load. Nature Materials, 2006, 5, 48-51.  | 27.5 | 54        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 361 | Incorporation of carbon nanotubes into the biomedical polymer poly(styrene-β-isobutylene-β-styrene).<br>Carbon, 2007, 45, 402-410.   | 10.3 | 54        |
| 362 | Novel carbon materials for thermal energy harvesting. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1229-1235.   | 3.6  | 54        |
| 363 | A smart cyto-compatible asymmetric polypyrrole membrane for salinity power generation. Nano<br>Energy, 2018, 53, 475-482.  | 16.0 | 54        |
| 364 | Thermochromism in Optically Active Polyaniline Salts. Macromolecules, 1998, 31, 6529-6533.   | 4.8  | 53        |
| 365 | Polypyrrole membranes containing chelating ligands: synthesis, characterisation and transport studies. Polymer, 2001, 42, 8571-8579.   | 3.8  | 53        |
| 366 | Increased actuation rate of electromechanical carbon nanotube actuators using potential pulses with resistance compensation. Smart Materials and Structures, 2003, 12, 549-555.  | 3.5  | 53        |
| 367 | DNA Hydrogel Fiber with Selfâ€Entanglement Prepared by Using an Ionic Liquid. Angewandte Chemie -<br>International Edition, 2008, 47, 2470-2474.   | 13.8 | 53        |
| 368 | Wet‧pun Biodegradable Fibers on Conducting Platforms: Novel Architectures for Muscle<br>Regeneration. Advanced Functional Materials, 2009, 19, 3381-3388.  | 14.9 | 53        |
| 369 | Coexistence of Femtosecond- and Nonelectron-Injecting Dyes in Dye-Sensitized Solar Cells:<br>Inhomogeniety Limits the Efficiency. Journal of Physical Chemistry C, 2011, 115, 22084-22088.                                   | 3.1  | 53        |
| 370 | Highly-flexible fibre battery incorporating polypyrrole cathode and carbon nanotubes anode. Journal of Power Sources, 2006, 161, 1458-1462.  | 7.8  | 52        |
| 371 | Electronic interactions within composites of polyanilines formed under acidic and alkaline<br>conditions. Conductivity, ESR, Raman, UV-vis and fluorescence studies. Physical Chemistry Chemical<br>Physics, 2011, 13, 3303. | 2.8  | 52        |
| 372 | Novel methods of antiepileptic drug delivery — Polymer-based implants. Advanced Drug Delivery<br>Reviews, 2012, 64, 953-964.   | 13.7 | 52        |
| 373 | Development of a porous 3D graphene-PDMS scaffold for improved osseointegration. Colloids and Surfaces B: Biointerfaces, 2017, 159, 386-393.   | 5.0  | 52        |
| 374 | Conductive Tough Hydrogel for Bioapplications. Macromolecular Bioscience, 2018, 18, 1700270.   | 4.1  | 52        |
| 375 | Synthesis and characterisation of polypyrrole/heparin composites. Reactive and Functional Polymers, 1999, 39, 19-26.   | 4.1  | 51        |
| 376 | Carbon Nanotube Electroactive Polymer Materials: Opportunities and Challenges. MRS Bulletin, 2008, 33, 215-224.  | 3.5  | 51        |
| 377 | Functionalised polyterthiophenes as anode materials in polymer/polymer batteries. Synthetic Metals, 2010, 160, 76-82.  | 3.9  | 51        |
| 378 | Integrated Highâ€Efficiency Pt/Carbon Nanotube Arrays for PEM Fuel Cells. Advanced Energy Materials, 2011, 1, 671-677.   | 19.5 | 51        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 379 | Controlled delivery for neuro-bionic devices. Advanced Drug Delivery Reviews, 2013, 65, 559-569.   | 13.7 | 51        |
| 380 | Disclosing Adverse Events to Patients: International Norms and Trends. Journal of Patient Safety, 2017, 13, 43-49.   | 1.7  | 51        |
| 381 | CATS, RATS, AND TOXOPLASMOSIS ON A SMALL PACIFIC ISLAND. American Journal of Epidemiology, 1972, 95, 475-482.  | 3.4  | 50        |
| 382 | Conducting polymer nanoparticles synthesized in an ionic liquid by chemical polymerisation.<br>Synthetic Metals, 2006, 156, 979-983.   | 3.9  | 50        |
| 383 | Carbon nanotube biogels. Carbon, 2009, 47, 1282-1291.  | 10.3 | 50        |
| 384 | Preparation and characterization of hybrid conducting polymer–carbon nanotube yarn. Nanoscale, 2012, 4, 940-945.   | 5.6  | 50        |
| 385 | High strain stretchable solid electrolytes. Electrochemistry Communications, 2013, 32, 47-50.  | 4.7  | 50        |
| 386 | Observations on the Natural History of Encephalomyocarditis Virus. American Journal of Tropical<br>Medicine and Hygiene, 1978, 27, 133-143.  | 1.4  | 50        |
| 387 | Transport of particulate organic matter by bubbles in marine waters 1. Limnology and Oceanography, 1978, 23, 1155-1167.  | 3.1  | 49        |
| 388 | Electroimmobilisation of sulphite oxidase into a polypyrrole film and its utilisation for flow amperometric detection of sulphite. Analytica Chimica Acta, 1996, 332, 145-153.       | 5.4  | 49        |
| 389 | Optimisation of a polypyrrole based actuator. Synthetic Metals, 1997, 85, 1419-1420.   | 3.9  | 49        |
| 390 | EPR characterisation of platinum nanoparticle functionalised carbon nanotube hybrid materials.<br>Physical Chemistry Chemical Physics, 2010, 12, 4135.                               | 2.8  | 49        |
| 391 | Domain wall conductivity in oxygen deficient multiferroic YMnO3 single crystals. Applied Physics<br>Letters, 2011, 99, .   | 3.3  | 49        |
| 392 | Novel composite graphene/platinum electro-catalytic electrodes prepared by electrophoretic deposition from colloidal solutions. Electrochimica Acta, 2012, 60, 213-223.              | 5.2  | 49        |
| 393 | Electrochemically synthesized stretchable polypyrrole/fabric electrodes for supercapacitor.<br>Electrochimica Acta, 2013, 113, 17-22.  | 5.2  | 49        |
| 394 | Rapid formation of self-organised Ag nanosheets with high efficiency and selectivity in CO <sub>2</sub> electroreduction to CO. Sustainable Energy and Fuels, 2017, 1, 1023-1027.    | 4.9  | 49        |
| 395 | Genetic determinants of resistance to ectromelia (mousepox) virus-induced mortality. Journal of Virology, 1985, 55, 890-891.   | 3.4  | 49        |
| 396 | Characterization of novel conducting polymeric stationary phases and electrochemically controlled high-performance liquid chromatography. Analytical Chemistry, 1989, 61, 2391-2394. | 6.5  | 48        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 397 | Ion exchange properties of polypyrrole. Reactive & Functional Polymers, 1992, 18, 133-140.  | 0.8  | 48        |
| 398 | Parameters influencing transport across conducting electroactive polymer membranes. Journal of Membrane Science, 1996, 119, 199-212.  | 8.2  | 48        |
| 399 | Facile Fabrication of Flexible Microsupercapacitor with High Energy Density. Advanced Materials<br>Technologies, 2016, 1, 1600166.  | 5.8  | 48        |
| 400 | Fabrication of a graphene coated nonwoven textile for industrial applications. RSC Advances, 2016, 6, 73203-73209.  | 3.6  | 48        |
| 401 | Development of an all-polymer, axial force electrochemical actuator. Synthetic Metals, 1999, 102, 1317-1318.  | 3.9  | 47        |
| 402 | Optically Active Polymer Carbon Nanotube Composite. Journal of Physical Chemistry B, 2005, 109, 22725-22729.  | 2.6  | 47        |
| 403 | Influence of Biodopants on PEDOT Biomaterial Polymers: Using QCMâ€D to Characterize Polymer<br>Interactions with Proteins and Living Cells. Advanced Materials Interfaces, 2014, 1, 1300122.  | 3.7  | 47        |
| 404 | 3D printable conducting hydrogels containing chemically converted graphene. Nanoscale, 2017, 9, 2038-2050.  | 5.6  | 47        |
| 405 | Electrical stimulation-induced osteogenesis of human adipose derived stem cells using a conductive graphene-cellulose scaffold. Materials Science and Engineering C, 2020, 107, 110312.   | 7.3  | 47        |
| 406 | Isolation of Toxoplasma gondii from the Feces of Naturally Infected Cats. Journal of Infectious<br>Diseases, 1971, 124, 227-228.  | 4.0  | 46        |
| 407 | Effect of polymer composition on the detection of electroinactive species using conductive polymers.<br>Electroanalysis, 1993, 5, 555-563.  | 2.9  | 46        |
| 408 | Spinning Carbon Nanotube-Gel Fibers Using Polyelectrolyte Complexation. Advanced Functional Materials, 2008, 18, 3759-3764.   | 14.9 | 46        |
| 409 | Performance characteristics of a polypyrrole modified polydimethylsiloxane (PDMS) membrane based microfluidic pump. Sensors and Actuators A: Physical, 2008, 148, 239-244.  | 4.1  | 46        |
| 410 | Capillary zone electrophoresis of graphene oxide and chemically converted graphene. Journal of<br>Chromatography A, 2010, 1217, 7593-7597.  | 3.7  | 46        |
| 411 | Carbon Nanohorns as Integrative Materials for Efficient Dyeâ€ <del>S</del> ensitized Solar Cells. Advanced<br>Materials, 2013, 25, 6513-6518.   | 21.0 | 46        |
| 412 | Liquid Ink Deposition from an Atomic Force Microscope Tip: Deposition Monitoring and Control of Feature Size. Langmuir, 2014, 30, 2712-2721.  | 3.5  | 46        |
| 413 | Electro-stimulated release from a reduced graphene oxide composite hydrogel. Journal of Materials<br>Chemistry B, 2015, 3, 2530-2537.   | 5.8  | 46        |
| 414 | The development and characterisation of polyaniline—single walled carbon nanotube composite<br>fibres using 2-acrylamido-2 methyl-1-propane sulfonic acid (AMPSA) through one step wet spinning<br>process. Polymer, 2006, 47, 4996-5002. | 3.8  | 45        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 415 | Inkjet and extrusion printing of conducting poly(3,4-ethylenedioxythiophene) tracks on and embedded in biopolymer materials. Journal of Materials Chemistry, 2011, 21, 2671.         | 6.7  | 45        |
| 416 | Liquid Deposition Patterning of Conducting Polymer Ink onto Hard and Soft Flexible Substrates via<br>Dip-Pen Nanolithography. Langmuir, 2012, 28, 804-811.                           | 3.5  | 45        |
| 417 | Recent Advances in Nerve Tissue Engineering. International Journal of Artificial Organs, 2014, 37, 277-291.  | 1.4  | 45        |
| 418 | A facile approach to spinning multifunctional conductive elastomer fibres with nanocarbon fillers.<br>Smart Materials and Structures, 2016, 25, 035015.                              | 3.5  | 45        |
| 419 | Engineering 2D Materials: A Viable Pathway for Improved Electrochemical Energy Storage. Advanced<br>Energy Materials, 2020, 10, 2002621.   | 19.5 | 45        |
| 420 | Conducting Polmers as a Basis for Responsive Materials Systems. Journal of Intelligent Material Systems and Structures, 1998, 9, 723-731.  | 2.5  | 44        |
| 421 | Effect of electron withdrawing or donating substituents on the photovoltaic performance of polythiophenes. Synthetic Metals, 2002, 128, 35-42.                                       | 3.9  | 44        |
| 422 | Study on the formation of the Prussian blue films on the polypyrrole surface as a potential mediator system for biosensing applications. Analytica Chimica Acta, 2002, 472, 113-121. | 5.4  | 44        |
| 423 | Conducting Polymer Electrochemistry in Ionic Liquids Synthetic Metals, 2003, 135-136, 31-32.   | 3.9  | 44        |
| 424 | Swelling Behavior of Chitosan Hydrogels in Ionic Liquidâ `Water Binary Systems. Langmuir, 2006, 22,<br>9375-9379.  | 3.5  | 44        |
| 425 | Electroless recovery of silver by inherently conducting polymer powders, membranes and composite materials. Polymer, 2006, 47, 4520-4530.  | 3.8  | 44        |
| 426 | Modulated release of dexamethasone from chitosan–carbon nanotube films. Sensors and Actuators<br>A: Physical, 2009, 155, 120-124.  | 4.1  | 44        |
| 427 | Gemini surfactant doped polypyrrole nanodispersions: an inkjet printable formulation. Journal of<br>Materials Chemistry, 2011, 21, 1918-1924.  | 6.7  | 44        |
| 428 | A bio-friendly, green route to processable, biocompatible graphene/polymer composites. RSC Advances, 2015, 5, 45284-45290.   | 3.6  | 44        |
| 429 | Peptide modification of purified gellan gum. Journal of Materials Chemistry B, 2015, 3, 1106-1115.   | 5.8  | 44        |
| 430 | Evaluation of sterilisation methods for bio-ink components: gelatin, gelatin methacryloyl, hyaluronic acid methacryloyl. Biofabrication, 2019, 11, 035003.                           | 7.1  | 44        |
| 431 | Use of Prussian Blue/Conducting Polymer Modified Electrodes for the Detection of Cytochrome C.<br>Electroanalysis, 1998, 10, 472-476.  | 2.9  | 43        |
| 432 | Influence of Electrochemical Polymerization Temperature on the Chiroptical Properties of (+)-Camphorsulfonic Acid-Doped Polyaniline. Macromolecules, 2006, 39, 5604-5610.            | 4.8  | 43        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 433 | The effect of reduced graphene oxide addition on the superconductivity of MgB2. Journal of Materials<br>Chemistry, 2012, 22, 13941.  | 6.7  | 43        |
| 434 | Evaluating the corrosion behaviour of Magnesium alloy in simulated biological fluid by using SECM to detect hydrogen evolution. Electrochimica Acta, 2015, 152, 294-301.           | 5.2  | 43        |
| 435 | Highâ€Performance Multifunctional Grapheneâ€PLGA Fibers: Toward Biomimetic and Conducting 3D<br>Scaffolds. Advanced Functional Materials, 2016, 26, 3105-3117.                     | 14.9 | 43        |
| 436 | Organic Electrodes and Communications with Excitable Cells. Advanced Functional Materials, 2018, 28, 1700587.  | 14.9 | 43        |
| 437 | Polypyrrole-based amperometric biosensor for sulfite determination. Electroanalysis, 1994, 6, 865-870.   | 2.9  | 42        |
| 438 | Electrochemically controlled transport of small charged organic molecules across conducting polymer membranes. Journal of Membrane Science, 1995, 100, 239-248.                    | 8.2  | 42        |
| 439 | Investigation of the applied potential limits for polypyrrole when employed as the active components of a two-electrode device. Synthetic Metals, 2001, 122, 379-385.              | 3.9  | 42        |
| 440 | Photoelectrochemical cells based on polymers and copolymers from terthiophene and nitrostyrylterthiophene. Synthetic Metals, 2001, 123, 225-237.                                   | 3.9  | 42        |
| 441 | Can fabric sensors monitor breast motion?. Journal of Biomechanics, 2007, 40, 3056-3059.   | 2.1  | 42        |
| 442 | Significant Performance Improvement of Porphyrin-Sensitized TiO <sub>2</sub> Solar Cells under<br>White Light Illumination. Journal of Physical Chemistry C, 2011, 115, 317-326.   | 3.1  | 42        |
| 443 | Sodium Fluoride-Assisted Modulation of Anodized TiO <sub>2</sub> Nanotube for Dye-Sensitized Solar Cells Application. ACS Applied Materials & amp; Interfaces, 2011, 3, 1585-1593. | 8.0  | 42        |
| 444 | A battery composed of a polypyrrole cathode and a magnesium alloy anode—Toward a bioelectric<br>battery. Synthetic Metals, 2012, 162, 584-589.                                     | 3.9  | 42        |
| 445 | Maintaining Cytocompatibility of Biopolymers Through a Graphene Layer for Electrical Stimulation of Nerve Cells. Advanced Functional Materials, 2014, 24, 769-776.                 | 14.9 | 42        |
| 446 | Conductive Polymer Hydrogels. Springer Series on Polymer and Composite Materials, 2016, , 19-44.   | 0.7  | 42        |
| 447 | Wearable Platform for Realâ€ŧime Monitoring of Sodium in Sweat. ChemPhysChem, 2018, 19, 1531-1536.   | 2.1  | 42        |
| 448 | Silicon as a ubiquitous contaminant in graphene derivatives with significant impact on device performance. Nature Communications, 2018, 9, 5070.                                   | 12.8 | 42        |
| 449 | Effect of thermal treatment on the electroactivity of polyaniline. Polymer, 1996, 37, 917-923.   | 3.8  | 41        |
| 450 | Synthesis, characterisation and transport properties of layered conducting electroactive polypyrrole membranes. Journal of Membrane Science, 1998, 148, 161-172.                   | 8.2  | 41        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 451 | Synthesis, characterisation and ion transport studies on polypyrrole/polyvinylphosphate conducting polymer materials. Synthetic Metals, 1999, 99, 191-199.  | 3.9  | 41        |
| 452 | Nano-Pt Modified Aligned Carbon Nanotube Arrays Are Efficient, Robust, High Surface Area<br>Electrocatalysts. Chemistry of Materials, 2008, 20, 2603-2605.  | 6.7  | 41        |
| 453 | 3D Bio-nanofibrous PPy/SIBS mats as platforms for cell culturing. Chemical Communications, 2008, , 3729.  | 4.1  | 41        |
| 454 | Self-healing characteristic of praseodymium conversion coating on AZNd Mg alloy studied by scanning electrochemical microscopy. Electrochemistry Communications, 2017, 76, 6-9.                             | 4.7  | 41        |
| 455 | 3D Printing of Cytocompatible Graphene/Alginate Scaffolds for Mimetic Tissue Constructs. Frontiers in Bioengineering and Biotechnology, 2020, 8, 824.   | 4.1  | 41        |
| 456 | One-Pot Hydrothermal Synthesis of Solution-Processable MoS <sub>2</sub> /PEDOT:PSS Composites for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 7285-7296.                | 8.0  | 41        |
| 457 | Intermediate and transport hosts in the natural history of Toxoplasma gondii *. American Journal of<br>Tropical Medicine and Hygiene, 1973, 22, 456-464.  | 1.4  | 41        |
| 458 | High-performance liquid chromatography on polypyrrole-modified silica. Journal of Chromatography<br>A, 1991, 588, 25-31.  | 3.7  | 40        |
| 459 | Lead Deposition in the Shell of the Bivalve, Mya arenaria: an Indicator of Dissolved Lead in Seawater.<br>Estuarine, Coastal and Shelf Science, 1994, 39, 93-104.   | 2.1  | 40        |
| 460 | In-situ mechanical properties of tosylate doped (pts) polypyrrole. Synthetic Metals, 1997, 84, 847-848.   | 3.9  | 40        |
| 461 | Conducting Polyaniline/Calixarene Salts:Â Synthesis and Properties. Macromolecules, 2000, 33, 7044-7050.  | 4.8  | 40        |
| 462 | Capacitive properties of RuO2 and Ru–Co mixed oxide deposited on single-walled carbon nanotubes for high-performance supercapacitors. Synthetic Metals, 2009, 159, 1389-1392.                               | 3.9  | 40        |
| 463 | Conducting gel-fibres based on carrageenan, chitosan and carbon nanotubes. Journal of Materials<br>Chemistry, 2010, 20, 7953.   | 6.7  | 40        |
| 464 | Cell patterning via linker-free protein functionalization of an organic conducting polymer<br>(polypyrrole) electrode. Acta Biomaterialia, 2012, 8, 2538-2548.  | 8.3  | 40        |
| 465 | Graphene cryogel papers with enhanced mechanical strength for high performance lithium battery anodes. Journal of Materials Chemistry A, 2014, 2, 1325-1331.  | 10.3 | 40        |
| 466 | Processable 2D materials beyond graphene: MoS <sub>2</sub> liquid crystals and fibres. Nanoscale, 2016, 8, 16862-16867.   | 5.6  | 40        |
| 467 | A "Tandem―Strategy to Fabricate Flexible Graphene/Polypyrrole Nanofiber Film Using the<br>Surfactant-Exfoliated Graphene for Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10,<br>22031-22041. | 8.0  | 40        |
| 468 | Bulk electropolymerization of alkylpyrroles. Polymer, 1996, 37, 2811-2819.  | 3.8  | 39        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 469 | The amounts per cycle of polypyrrole electromechanical actuators. Smart Materials and Structures, 2003, 12, 468-472.  | 3.5  | 39        |
| 470 | Preparation of novel ultrafine fibers based on DNA and poly(ethylene oxide) by electrospinning from aqueous solutions. Reactive and Functional Polymers, 2007, 67, 461-467.                               | 4.1  | 39        |
| 471 | Carbon nanotube-based transducers for immunoassays. Carbon, 2009, 47, 2337-2343.  | 10.3 | 39        |
| 472 | Inkjet printed LED based pH chemical sensor for gas sensing. Analytica Chimica Acta, 2009, 652, 308-314.  | 5.4  | 39        |
| 473 | Guidance of neurite outgrowth on aligned electrospun polypyrrole/poly(styreneâ€Î²â€isobutyleneâ€Î²â€styrene)<br>fiber platforms. Journal of Biomedical Materials Research - Part A, 2010, 94A, 1004-1011. | 4.0  | 39        |
| 474 | Crosslinking neat ultrathin films and nanofibres of pH-responsive poly(acrylic acid) by UV radiation.<br>Soft Matter, 2010, 6, 1045.  | 2.7  | 39        |
| 475 | Flux pinning mechanisms in graphene-doped MgB2 superconductors. Scripta Materialia, 2011, 65, 634-637.  | 5.2  | 39        |
| 476 | A Porphyrinâ€Doped Polymer Catalyzes Selective, Lightâ€Assisted Water Oxidation in Seawater.<br>Angewandte Chemie - International Edition, 2012, 51, 1907-1910.   | 13.8 | 39        |
| 477 | A facile approach for fabrication of mechanically strong graphene/polypyrrole films with large areal capacitance for supercapacitor applications. RSC Advances, 2015, 5, 102643-102651.                   | 3.6  | 39        |
| 478 | Electrodeposition of polyaniline and polyaniline composites from colloidal dispersions. Polymer<br>International, 1995, 37, 87-91.  | 3.1  | 38        |
| 479 | Ion transport membranes based on conducting polymers. Journal of Membrane Science, 1997, 132, 245-253.  | 8.2  | 38        |
| 480 | Conducting polymers electromechanical actuators and strain sensors. Macromolecular Symposia, 2003, 192, 161-170.  | 0.7  | 38        |
| 481 | Nanocomposites of Polyaniline/Poly(2-methoxyaniline-5-sulfonic acid). Macromolecular Rapid<br>Communications, 2006, 27, 1995-2000.  | 3.9  | 38        |
| 482 | A readily-prepared, convergent, oxygen reduction electrocatalyst. Chemical Communications, 2007, ,<br>3353.   | 4.1  | 38        |
| 483 | Novel ACNT arrays based MEA structure-nano-Pt loaded ACNT/Nafion/ACNT for fuel cell applications.<br>Chemical Communications, 2010, 46, 4824.   | 4.1  | 38        |
| 484 | Biocompatibility of Immobilized Aligned Carbon Nanotubes. Small, 2011, 7, 1035-1042.  | 10.0 | 38        |
| 485 | Aqueous dispersions of reduced graphene oxide and multi wall carbon nanotubes for enhanced glucose oxidase bioelectrode performance. Carbon, 2013, 61, 467-475.   | 10.3 | 38        |
| 486 | Local probing of magnetoelectric properties of PVDF/Fe <sub>3</sub> O <sub>4</sub> electrospun nanofibers by piezoresponse force microscopy. Nanotechnology, 2017, 28, 065707.                            | 2.6  | 38        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 487 | Facile Development of a Fiber-Based Electrode for Highly Selective and Sensitive Detection of Dopamine. ACS Sensors, 2019, 4, 2599-2604.   | 7.8  | 38        |
| 488 | Life-Saving Threads: Advances in Textile-Based Analytical Devices. ACS Combinatorial Science, 2019, 21, 229-240.   | 3.8  | 38        |
| 489 | The association of copper, mercury and lead with surface-active organic matter in coastal seawater.<br>Marine Chemistry, 1982, 11, 379-394.                                      | 2.3  | 37        |
| 490 | Transport of copper(II) across stand-alone conducting polypyrrole membranes: the effect of applied potential waveforms. Polymer, 1993, 34, 16-20.                                | 3.8  | 37        |
| 491 | Characterisation and analytical use of a polypyrrole electrode containing anti-human serum albumin.<br>Analytica Chimica Acta, 1998, 371, 39-48.                                 | 5.4  | 37        |
| 492 | Electrochemical preparation of chiral polyaniline nanocomposites. Synthetic Metals, 1999, 106, 89-95.  | 3.9  | 37        |
| 493 | Optically active sulfonated polyanilines. Synthetic Metals, 1999, 106, 129-137.  | 3.9  | 37        |
| 494 | Electrohydrodynamic polymerization of 2-methoxyaniline-5-sulfonic acid. Synthetic Metals, 2000, 114, 267-272.  | 3.9  | 37        |
| 495 | Immobilisation of anti-Listeria in a polypyrrole film. Reactive and Functional Polymers, 2002, 53, 217-227.  | 4.1  | 37        |
| 496 | Tough Supersoft Sponge Fibers with Tunable Stiffness from a DNA Selfâ€Assembly Technique.<br>Angewandte Chemie - International Edition, 2009, 48, 5116-5120.                     | 13.8 | 37        |
| 497 | A new twist: controlled shape-shifting of silver nanoparticles from prisms to discs. Journal of<br>Materials Chemistry, 2009, 19, 8294.  | 6.7  | 37        |
| 498 | Highly stretchable reduced graphene oxide (rGO)/single-walled carbon nanotubes (SWNTs) electrodes<br>for energy storage devices. Electrochimica Acta, 2015, 163, 149-160.        | 5.2  | 37        |
| 499 | Fabrication of Coaxial Wetâ€5pun Graphene–Chitosan Biofibers. Advanced Engineering Materials, 2016,<br>18, 284-293.  | 3.5  | 37        |
| 500 | Compositional Effects of Large Graphene Oxide Sheets on the Spinnability and Properties of Polyurethane Composite Fibers. Advanced Materials Interfaces, 2016, 3, 1500672.       | 3.7  | 37        |
| 501 | Probe Sensor Using Nanostructured Multi-Walled Carbon Nanotube Yarn for Selective and Sensitive Detection of Dopamine. Sensors, 2017, 17, 884.                                   | 3.8  | 37        |
| 502 | Three-Dimensional Printing and Cell Therapy for Wound Repair. Advances in Wound Care, 2018, 7, 145-156.  | 5.1  | 37        |
| 503 | Self-Healing Electrode with High Electrical Conductivity and Mechanical Strength for Artificial Electronic Skin. ACS Applied Materials & amp; Interfaces, 2019, 11, 46026-46033. | 8.0  | 37        |
| 504 | 3Dâ€Printed Wearable Electrochemical Energy Devices. Advanced Functional Materials, 2022, 32, 2103092.   | 14.9 | 37        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 505 | Electrochemically controlled transport across conducting polymer composites — Basis of smart<br>membrane materials. Polymer Gels and Networks, 1993, 1, 61-77.   | 0.6  | 36        |
| 506 | Polypyrrole based cation transport membranes. Journal of Membrane Science, 1999, 152, 61-70.   | 8.2  | 36        |
| 507 | Redox-active conducting polymers incorporating ferrocenes. Preparation, characterization and bio-sensing properties of ferrocenylpropyl and -butyl polypyrroles. Electrochimica Acta, 2002, 47, 4227-4238.   | 5.2  | 36        |
| 508 | ATR-IR spectroscopic studies of the influence of phosphate buffer on adsorption of immunoglobulin G to TiO2. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2003, 220, 159-167.   | 4.7  | 36        |
| 509 | Metal transport studies on inherently conducting polymer membranes containing cyclodextrin dopants. Journal of Membrane Science, 2005, 249, 9-20.  | 8.2  | 36        |
| 510 | Solutionâ^'Surface Electropolymerization:  A Route to Morphologically Novel Poly(pyrrole) Using an<br>Ionic Liquid. Macromolecules, 2006, 39, 7193-7195.   | 4.8  | 36        |
| 511 | Modelling trilayer conjugated polymer actuators for their sensorless position control. Sensors and Actuators A: Physical, 2012, 185, 82-91.  | 4.1  | 36        |
| 512 | Electrodeposition of pyrrole and 3-(4-tert-butylphenyl)thiophene copolymer for supercapacitor applications. Synthetic Metals, 2012, 162, 2216-2221.  | 3.9  | 36        |
| 513 | Development and Characterization of Novel Hybrid Hydrogel Fibers. Macromolecular Materials and Engineering, 2015, 300, 1217-1225.  | 3.6  | 36        |
| 514 | Electrically Stimulated Adipose Stem Cells on Polypyrrole-Coated Scaffolds for Smooth Muscle<br>Tissue Engineering. Annals of Biomedical Engineering, 2017, 45, 1015-1026.   | 2.5  | 36        |
| 515 | Pulsed electrochemical detection of proteins using conducting polymer based sensors. Analytica Chimica Acta, 1995, 315, 27-32.   | 5.4  | 35        |
| 516 | Porous conducting membranes based on polypyrrole–PMMA composites. Synthetic Metals, 1999, 99,<br>121-126.  | 3.9  | 35        |
| 517 | Conformational Changes in Sulfonated Polyaniline Caused By Metal Salts and OH Synthetic Metals, 2003, 135-136, 289-290.  | 3.9  | 35        |
| 518 | Polypyrrole as cathode materials for Zn-polymer battery with various biocompatible aqueous electrolytes. Electrochimica Acta, 2013, 95, 212-217.   | 5.2  | 35        |
| 519 | Corrosion protection afforded by praseodymium conversion film on Mg alloy AZNd in simulated<br>biological fluid studied by scanning electrochemical microscopy. Journal of Electroanalytical<br>Chemistry, 2015, 739, 211-217.   | 3.8  | 35        |
| 520 | A high energy density solar rechargeable redox battery. Journal of Materials Chemistry A, 2016, 4,<br>3446-3452.   | 10.3 | 35        |
| 521 | Thermally Responsive Torsional and Tensile Fiber Actuator Based on Graphene Oxide. ACS Applied Materials & Materia | 8.0  | 35        |
| 522 | 3D Bioprinting Constructs to Facilitate Skin Regeneration. Advanced Functional Materials, 2022, 32, 2105080.   | 14.9 | 35        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 523 | Preparation of metal dithiocarbamate complexes for chromatographic separation and multi-element determinations. Analytica Chimica Acta, 1984, 164, 223-232.                    | 5.4 | 34        |
| 524 | Determination of metal ions using ion chromatography and indirect amperometric detection.<br>Analytical Chemistry, 1987, 59, 54-57.  | 6.5 | 34        |
| 525 | Electrochemically Controlled Liquid Chromatography on Conducting Polymer Stationary Phases.<br>Journal of Liquid Chromatography and Related Technologies, 1990, 13, 3245-3260. | 1.0 | 34        |
| 526 | New Conducting Polymer Affinity Chromatography Stationary Phases. Journal of Liquid<br>Chromatography and Related Technologies, 1990, 13, 3091-3110.                           | 1.0 | 34        |
| 527 | Electrochemically controlled transport in a dual conducting polymer membrane system. Journal of Membrane Science, 1995, 98, 173-176.   | 8.2 | 34        |
| 528 | Electrochemical production of conducting polymer colloids. Colloids and Surfaces A:<br>Physicochemical and Engineering Aspects, 1995, 103, 281-288.                            | 4.7 | 34        |
| 529 | Preparation and characterisation of processable conducting polymer–hydrogel composites. Reactive and Functional Polymers, 2000, 44, 31-40.                                     | 4.1 | 34        |
| 530 | Synthesis, characterisation and ion transport studies on polypyrrole/deoxyribonucleic acid conducting polymer membranes. Synthetic Metals, 2001, 123, 279-286.                 | 3.9 | 34        |
| 531 | Electrodeposition of conducting polymers on active metals by electron transfer mediation. Current Applied Physics, 2004, 4, 137-140.   | 2.4 | 34        |
| 532 | Polypyrrole filament sensors for gases and vapours. Current Applied Physics, 2004, 4, 366-369.   | 2.4 | 34        |
| 533 | An HRP based biosensor using sulphonated polyaniline. Synthetic Metals, 2005, 153, 185-188.  | 3.9 | 34        |
| 534 | Free standing carbon nanotube composite bio-electrodes. Journal of Biomedical Materials Research -<br>Part B Applied Biomaterials, 2007, 82B, 37-43.                           | 3.4 | 34        |
| 535 | Colouration efficiency measurements in electrochromic polymers: The importance of charge density.<br>Electrochemistry Communications, 2007, 9, 2032-2036.                      | 4.7 | 34        |
| 536 | Effect of synthesis conditions on the properties of wet spun polypyrrole fibres. Synthetic Metals, 2009, 159, 1837-1843.   | 3.9 | 34        |
| 537 | The mechanical and the electrical properties of conducting polypyrrole fibers. Journal of Applied Physics, 2010, 107, .  | 2.5 | 34        |
| 538 | The citrate-mediated shape evolution of transforming photomorphic silver nanoparticles. Chemical Communications, 2010, 46, 7807.   | 4.1 | 34        |
| 539 | Coaxial additive manufacture of biomaterial composite scaffolds for tissue engineering.<br>Biofabrication, 2014, 6, 025002.  | 7.1 | 34        |
| 540 | Electrical Stimulation with a Conductive Polymer Promotes Neurite Outgrowth and Synaptogenesis in Primary Cortical Neurons in 3D. Scientific Reports, 2018, 8, 9855.           | 3.3 | 34        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 541 | Emerging approach in semiconductor photocatalysis: Towards 3D architectures for efficient solar<br>fuels generation in semi-artificial photosynthetic systems. Journal of Photochemistry and<br>Photobiology C: Photochemistry Reviews, 2019, 39, 142-160. | 11.6 | 34        |
| 542 | Carbon Nanotube Based Electronic and Electrochemical Sensors. Sensor Letters, 2005, 3, 183-193.  | 0.4  | 34        |
| 543 | Observations on a feline coccidium with some characteristics of Toxoplasma and Sarcocystis.<br>Zeitschrift Für Parasitenkunde (Berlin, Germany), 1975, 46, 167-178.  | 0.8  | 33        |
| 544 | Determination of P-Cresol (and Other Phenolics) Using a Conducting Polymer Based<br>Electro-Immunological Sensing System. Analytical Letters, 1994, 27, 2417-2429.   | 1.8  | 33        |
| 545 | Electrochemical production of polypyrrole colloids. Polymer, 1994, 35, 3801-3803.  | 3.8  | 33        |
| 546 | Electrosynthesis and characterisation of poly(2-methoxyaniline-5-sulfonic acid)-effect of pH control.<br>Synthetic Metals, 2000, 114, 287-293.   | 3.9  | 33        |
| 547 | Electrochemically controlled transport of metal ions across polypyrrole membranes using a flow-through cell. Reactive and Functional Polymers, 2001, 49, 87-98.  | 4.1  | 33        |
| 548 | Comparison of Emeraldine Salt, Emeraldine Base, and Epoxy Coatings for Corrosion Protection of Steel During Immersion in a Saline Solution. Corrosion, 2003, 59, 22-31.  | 1.1  | 33        |
| 549 | Purification and characterisation of poly(2-methoxyaniline-5-sulfonicacid acid). Synthetic Metals, 2005, 153, 181-184.   | 3.9  | 33        |
| 550 | Characterisation of porous freeze dried conducting carbon nanotube–chitosan scaffolds. Journal of<br>Materials Chemistry, 2008, 18, 5417.  | 6.7  | 33        |
| 551 | A molecular template approach to integration of polyaniline into textiles. Synthetic Metals, 2009, 159, 1135-1140.   | 3.9  | 33        |
| 552 | Remarkable synergistic effects in a mixed porphyrin dye-sensitized TiO2 film. Applied Physics Letters, 2011, 98, .   | 3.3  | 33        |
| 553 | Gel electrolytes with ionic liquid plasticiser for electrochromic devices. Electrochimica Acta, 2011, 56, 4408-4413.   | 5.2  | 33        |
| 554 | Evaluation of encapsulating coatings on the performance of polypyrrole actuators. Smart Materials and Structures, 2013, 22, 075005.  | 3.5  | 33        |
| 555 | Phase-controlled microwave synthesis of pure monoclinic BiVO4 nanoparticles for photocatalytic dye degradation. Applied Materials Today, 2015, 1, 67-73.   | 4.3  | 33        |
| 556 | Conductive composite fibres from reduced graphene oxide and polypyrrole nanoparticles. Journal of<br>Materials Chemistry B, 2016, 4, 1142-1149.  | 5.8  | 33        |
| 557 | Fabrication of 3D structures from graphene-based biocomposites. Journal of Materials Chemistry B, 2017, 5, 3462-3482.  | 5.8  | 33        |
| 558 | Selective determination of Cr(VI) oxyanions using a poly-3-methylthiophene-modified electrode.<br>Electroanalysis, 1989, 1, 541-547.   | 2.9  | 32        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 559 | Characterisation of conductive, electroactive polymers using resistometry. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 319, 365-371.   | 0.1  | 32        |
| 560 | Communicating with the building blocks of life using organic electronic conductors. Synthetic Metals, 2001, 119, 39-42.   | 3.9  | 32        |
| 561 | Photoelectrochemical cells based on a novel porphyrin containing light harvesting conducting copolymer. Electrochimica Acta, 2004, 49, 329-337.   | 5.2  | 32        |
| 562 | Application of polypyrrole to flexible substrates. Journal of Applied Polymer Science, 2007, 104, 3938-3947.  | 2.6  | 32        |
| 563 | Synthesis and characterisation of controllably functionalised polyaniline nanofibres. Synthetic<br>Metals, 2009, 159, 741-748.  | 3.9  | 32        |
| 564 | Correlation of the impedance and effective electrode area of doped PEDOT modified electrodes for brain–machine interfaces. Analyst, The, 2015, 140, 3164-3174.  | 3.5  | 32        |
| 565 | FLASH: Fluorescently LAbelled Sensitive Hydrogel to monitor bioscaffolds degradation during neocartilage generation. Biomaterials, 2021, 264, 120383.   | 11.4 | 32        |
| 566 | Simultaneous Determination of Cadmium, Cobalt, Copper, Lead, Mercury and Nickel in Zinc Sulfate<br>Plant Electrolyte Using Liquid Chromatography with Electrochemical and Spectrophotometric<br>Detection. Journal of Liquid Chromatography and Related Technologies, 1983, 6, 1799-1822. | 1.0  | 31        |
| 567 | Detection of Nitrite Using Electrodes Modified with an Electrodeposited Ruthenium-Containing Polymer. Analytical Letters, 1991, 24, 2059-2073.  | 1.8  | 31        |
| 568 | Preparation of chiral conducting polymer colloids. Synthetic Metals, 1997, 84, 181-182.   | 3.9  | 31        |
| 569 | Mechanism of electropolymerisation of methyl methacrylate and glycidyl acrylate on stainless steel.<br>Electrochimica Acta, 2002, 47, 1935-1948.  | 5.2  | 31        |
| 570 | Controlled Transport of Droplets Using Conducting Polymers. Langmuir, 2009, 25, 11137-11141.  | 3.5  | 31        |
| 571 | Cell attachment and proliferation on high conductivity PEDOT–glycol composites produced by vapour phase polymerisation. Biomaterials Science, 2013, 1, 368-378.   | 5.4  | 31        |
| 572 | Advances in printing biomaterials and living cells. Current Opinion in Organ Transplantation, 2016, 21, 467-475.  | 1.6  | 31        |
| 573 | Smart graphene-cellulose paper for 2D or 3D "origami-inspired―human stem cell support and differentiation. Colloids and Surfaces B: Biointerfaces, 2019, 176, 87-95.  | 5.0  | 31        |
| 574 | Encapsulation of Human Natural and Induced Regulatory Tâ€Cells in ILâ€2 and CCL1 Supplemented<br>Alginateâ€GelMA Hydrogel for 3D Bioprinting. Advanced Functional Materials, 2020, 30, 2000544.   | 14.9 | 31        |
| 575 | Molecular interactions and forces of adhesion between single human neural stem cells and gelatin methacrylate hydrogels of varying stiffness. Acta Biomaterialia, 2020, 106, 156-169.   | 8.3  | 31        |
| 576 | Variable Resistance to Ectromelia (Mousepox) Virus Among Genera of Mus. Current Topics in<br>Microbiology and Immunology, 1986, 127, 319-322.   | 1.1  | 31        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 577 | Factors influencing electrochemical release of 2,6-anthraquinone disulphonic acid from polypyrrole.<br>Journal of Controlled Release, 1994, 30, 137-142.   | 9.9  | 30        |
| 578 | The effect of the counterion on the electrochemical properties of conducting polymers — a study using resistometry. Synthetic Metals, 1994, 63, 83-88.   | 3.9  | 30        |
| 579 | Electrochemical induced ductile—brittle transition in tosylate-doped (pTS) polypyrrole. Synthetic<br>Metals, 1998, 97, 117-121.  | 3.9  | 30        |
| 580 | Microsecond Dye Regeneration Kinetics in Efficient Solid State Dye-Sensitized Solar Cells Using a<br>Photoelectrochemically Deposited PEDOT Hole Conductor. Journal of the American Chemical Society,<br>2010, 132, 9543-9545. | 13.7 | 30        |
| 581 | Nanostructured aligned CNT platforms enhance the controlled release of a neurotrophic protein from polypyrrole. Nanoscale, 2010, 2, 499.   | 5.6  | 30        |
| 582 | Surface and Biomolecular Forces of Conducting Polymers. Polymer Reviews, 2013, 53, 506-526.  | 10.9 | 30        |
| 583 | Bioengineering of articular cartilage: past, present and future. Regenerative Medicine, 2013, 8, 333-349.  | 1.7  | 30        |
| 584 | Anhydrous organic dispersions of highly reduced chemically converted graphene. Carbon, 2014, 76, 368-377.  | 10.3 | 30        |
| 585 | Conductive surfaces with dynamic switching in response to temperature and salt. Journal of Materials Chemistry B, 2015, 3, 9285-9294.  | 5.8  | 30        |
| 586 | Measuring the effective area and charge density of platinum electrodes for bionic devices. Journal of<br>Neural Engineering, 2018, 15, 046015.   | 3.5  | 30        |
| 587 | The significance of supporting electrolyte on poly (vinyl alcohol)–iron(II)/iron(III) solid-state<br>electrolytes for wearable thermo-electrochemical cells. Electrochemistry Communications, 2021, 124,<br>106938.            | 4.7  | 30        |
| 588 | Electrochemically-induced fluid movement using polypyrrole. Synthetic Metals, 2005, 151, 60-64.  | 3.9  | 29        |
| 589 | Bio-nanowebs Based on Poly(styrene-β-isobutylene-β-styrene) (SIBS) Containing Single-Wall Carbon<br>Nanotubes. Chemistry of Materials, 2007, 19, 2721-2723.  | 6.7  | 29        |
| 590 | The mechanism of conductivity enhancement in<br>poly(3,4-ethylenedioxythiophene)–poly(styrenesulfonic) acid using linear-diol additives: Its effect on<br>electrochromic performance. Thin Solid Films, 2008, 516, 7828-7835.  | 1.8  | 29        |
| 591 | The influence of poly(2-methoxyaniline-5-sulfonic acid) on the electrochemical and photochemical properties of a highly luminescent ruthenium complex. Electrochimica Acta, 2008, 53, 4599-4605.                               | 5.2  | 29        |
| 592 | Visualizing Dynamic Actuation of Ultrathin Polypyrrole Films. Langmuir, 2009, 25, 3627-3633.   | 3.5  | 29        |
| 593 | Gellan gum doped polypyrrole neural prosthetic electrode coatings. Soft Matter, 2011, 7, 4690.   | 2.7  | 29        |
| 594 | Investigations into the electrochemical characteristics of nickel oxide hydroxide/multi-walled carbon nanotube nanocomposites for use as supercapacitor electrodes. Synthetic Metals, 2012, 161, 2641-2646.                    | 3.9  | 29        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 595 | The Role of Unbound Oligomers in the Nucleation and Growth of Electrodeposited Polypyrrole and<br>Method for Preparing High Strength, High Conductivity Films. Langmuir, 2012, 28, 10891-10897.                                 | 3.5  | 29        |
| 596 | Indigo carmine (IC) doped polypyrrole (PPy) as a free-standing polymer electrode for lithium secondary battery application. Solid State Ionics, 2012, 215, 29-35.   | 2.7  | 29        |
| 597 | Flexible cellulose based polypyrrole–multiwalled carbon nanotube films for bio-compatible zinc<br>batteries activated by simulated body fluids. Journal of Materials Chemistry A, 2013, 1, 14300.                               | 10.3 | 29        |
| 598 | Differentiation of Stem Cells from Human Infrapatellar Fat Pad: Characterization of Cells Undergoing<br>Chondrogenesis. Tissue Engineering - Part A, 2014, 20, 2213-2223.   | 3.1  | 29        |
| 599 | High-strength graphene and polyacrylonitrile composite fiber enhanced by surface coating with polydopamine. Composites Science and Technology, 2017, 149, 280-285.  | 7.8  | 29        |
| 600 | Threeâ€dimensional neural cultures produce networks that mimic native brain activity. Journal of<br>Tissue Engineering and Regenerative Medicine, 2018, 12, 490-493.  | 2.7  | 29        |
| 601 | Supercapacitors: Development of Graphene Oxide/Polyaniline Inks for High Performance Flexible<br>Microsupercapacitors via Extrusion Printing (Adv. Funct. Mater. 21/2018). Advanced Functional<br>Materials, 2018, 28, 1870142. | 14.9 | 29        |
| 602 | Synthesis, properties, and biomedical applications of alginate methacrylate (ALMA)-based hydrogels:<br>Current advances and challenges. Applied Materials Today, 2021, 24, 101150.  | 4.3  | 29        |
| 603 | Transient electrochemical techniques in liquid chromatography with microprocessor-based instrumentation. Analytical Chemistry, 1982, 54, 1702-1705.   | 6.5  | 28        |
| 604 | Electrosynthesis of chromatographic stationary phases. Analytical Chemistry, 1989, 61, 198-201.   | 6.5  | 28        |
| 605 | The use of microelectrodes as substrates for chemically modified sensors. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1990, 283, 87-98.  | 0.1  | 28        |
| 606 | Factors controlling the induction of optical activity in chiral polyanilines. Synthetic Metals, 1997, 84, 115-116.  | 3.9  | 28        |
| 607 | â€~Stuffed' conducting polymers. Polymer, 2005, 46, 4664-4669.  | 3.8  | 28        |
| 608 | Electrosynthesis of novel photochemically active inherently conducting polymers using an ionic liquid electrolyte. Electrochimica Acta, 2006, 51, 2471-2476.  | 5.2  | 28        |
| 609 | Galvanic coupling conducting polymers to biodegradable Mg initiates autonomously powered drug release. Journal of Materials Chemistry, 2008, 18, 3608.  | 6.7  | 28        |
| 610 | Vapor Phase Polymerization of EDOT from Submicrometer Scale Oxidant Patterned by Dip-Pen<br>Nanolithography. Langmuir, 2012, 28, 9953-9960.   | 3.5  | 28        |
| 611 | Resolving Subâ€Molecular Binding and Electrical Switching Mechanisms of Single Proteins at Electroactive Conducting Polymers. Small, 2013, 9, 393-401.  | 10.0 | 28        |
| 612 | A new class of bubble-free water electrolyzer that is intrinsically highly efficient. International<br>Journal of Hydrogen Energy, 2019, 44, 23568-23579.   | 7.1  | 28        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 613 | In vitro characterisation of 3D printed platelet lysate-based bioink for potential application in skin<br>tissue engineering. Acta Biomaterialia, 2021, 123, 286-297.                                     | 8.3  | 28        |
| 614 | Evaluation of an enzyme-linked immunosorbent assay for the detection of ectromelia (mousepox) antibody. Journal of Clinical Microbiology, 1983, 18, 1220-1225.  | 3.9  | 28        |
| 615 | The use of chemisorbed electrocatalytic polymers for detection in flowing solutions.<br>Electroanalysis, 1989, 1, 245-250.  | 2.9  | 27        |
| 616 | Influence of steric stabilizers on the electropolymerization and properties of polypyrroles. Polymer, 1994, 35, 1754-1758.  | 3.8  | 27        |
| 617 | Interrupted Blood-Feeding byCuliseta melanura(Diptera: Culicidae) on European Starlings. Journal of<br>Medical Entomology, 2001, 38, 59-66.   | 1.8  | 27        |
| 618 | A readily-prepared electrocatalytic coating that is more active than platinum for hydrogen generation in 1 M strong acid. Chemical Communications, 2004, , 308-309.                                       | 4.1  | 27        |
| 619 | Photocatalytic Oxidation of Methanol Using Titanium Dioxide/Single-Walled Carbon Nanotube<br>Composite. Journal of the Electrochemical Society, 2007, 154, A407.  | 2.9  | 27        |
| 620 | Magnetorheology of single-walled nanotube dispersions. Materials Letters, 2007, 61, 3116-3118.  | 2.6  | 27        |
| 621 | Polypyrrole doped with redox-active poly(2-methoxyaniline-5-sulfonic acid) for lithium secondary batteries. RSC Advances, 2013, 3, 5447.  | 3.6  | 27        |
| 622 | Probing the PEDOT:PSS/cell interface with conductive colloidal probe AFM-SECM. Nanoscale, 2016, 8, 4475-4481.   | 5.6  | 27        |
| 623 | Electrical Stimulation Using Conductive Polymer Polypyrrole Counters Reduced Neurite Outgrowth of Primary Prefrontal Cortical Neurons from NRG1-KO and DISC1-LI Mice. Scientific Reports, 2017, 7, 42525. | 3.3  | 27        |
| 624 | Engineering the poly(vinyl alcohol)-polyaniline colloids for high-performance waterborne alkyd anticorrosion coating. Applied Surface Science, 2019, 481, 960-971.  | 6.1  | 27        |
| 625 | Boosting Formate Production from CO <sub>2</sub> at High Current Densities Over a Wide Electrochemical Potential Window on a SnS Catalyst. Advanced Science, 2021, 8, e2004521.                           | 11.2 | 27        |
| 626 | Shaping collagen for engineering hard tissues: Towards a printomics approach. Acta Biomaterialia, 2021, 131, 41-61.   | 8.3  | 27        |
| 627 | Determination of trace amounts of chloramines by liquid chromatographic separation and amperometric detection. Analytica Chimica Acta, 1990, 237, 149-153.  | 5.4  | 26        |
| 628 | Determination of zinc stable isotopes in biological materials using isotope dilution inductively coupled plasma mass spectrometry. Analytica Chimica Acta, 1992, 258, 317-324.                            | 5.4  | 26        |
| 629 | Synthesis and properties of a mechanically strong poly(bithiophene) composite polymer containing a polyelectrolyte dopant. Synthetic Metals, 2000, 110, 123-132.  | 3.9  | 26        |
| 630 | Coupling conducting polymers and mediated electrochemical responses for the detection of Listeria.<br>Analytica Chimica Acta, 2003, 475, 37-45.   | 5.4  | 26        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 631 | A Simple Means to Immobilize Enzyme into Conducting Polymers via Entrapment. Electrochemical and Solid-State Letters, 2006, 9, H68.  | 2.2  | 26        |
| 632 | Reversible Photoinduced Electron Transfer in a Ruthenium Poly(2-methoxyaniline-5-sulfonic acid)<br>Composite Film. Journal of Physical Chemistry B, 2008, 112, 12907-12912.  | 2.6  | 26        |
| 633 | Processable polyaniline-HCSA/poly(vinyl acetate-co-butyl acrylate) corrosion protection coatings for aluminium alloy 2024-T3: A SVET and Raman study. Electrochimica Acta, 2009, 54, 1483-1490.  | 5.2  | 26        |
| 634 | The effect of molecule size and shape on free charge generation, transport and recombination in all-thiophene dendrimer:fullerene bulk heterojunctions. Organic Electronics, 2010, 11, 573-582.  | 2.6  | 26        |
| 635 | Evaluation of thrust force generated for a robotic fish propelled with polypyrrole actuators.<br>Polymer International, 2010, 59, 357-364.   | 3.1  | 26        |
| 636 | Polyterthiophene as an electrostimulated controlled drug release material of therapeutic levels of dexamethasone. Synthetic Metals, 2010, 160, 1107-1114.  | 3.9  | 26        |
| 637 | Direct Sub-Micrometer Patterning of Nanostructured Conducting Polymer Films via a Low-Energy<br>Infrared Laser. Nano Letters, 2011, 11, 3128-3135.   | 9.1  | 26        |
| 638 | Vapor Phase Synthesis of Conducting Polymer Nanocomposites Incorporating 2D Nanoparticles.<br>Chemistry of Materials, 2014, 26, 4207-4213.   | 6.7  | 26        |
| 639 | Metal porphyrin intercalated reduced graphene oxide nanocomposite utilized for electrocatalytic oxygen reduction. Green Energy and Environment, 2017, 2, 285-293.  | 8.7  | 26        |
| 640 | Knowledge creation in complex inter-organizational arrangements: understanding the barriers and<br>enablers of university-industry knowledge creation in science-based cooperation. Journal of<br>Knowledge Management, 2021, 25, 743-769. | 5.1  | 26        |
| 641 | STUDIES ON EOSINOPHILIC MENINGITIS. 4. EXPERIMENTAL INFECTION OF FRESH-WATER AND MARINE FISH WITH ANGIOSTRONGYLUS CANTONENSIS1. American Journal of Epidemiology, 1967, 85, 395-402.   | 3.4  | 25        |
| 642 | Sarcocystis in Mice Inoculated with Toxoplasma-Like Oocysts from Cat Feces. Science, 1973, 180, 1375-1377.   | 12.6 | 25        |
| 643 | Determination of metals in urine by direct injection of sample, high-performanc liquid<br>chromatography and electrochemical or spectrophotometric detection. Analytica Chimica Acta, 1986,<br>182, 47-59.                                 | 5.4  | 25        |
| 644 | Intelligent Chemical Systems Based on Conductive Electroactive Polymers. Journal of Intelligent<br>Material Systems and Structures, 1991, 2, 228-238.  | 2.5  | 25        |
| 645 | Polypyrrole-coated silica as a new stationary phase for liquid chromatography. Chromatographia, 1993, 37, 423-428.   | 1.3  | 25        |
| 646 | Transport across stand-alone conducting polypyrrole membranes containing dodecylsulfate counterions. Reactive & Functional Polymers, 1994, 23, 213-220.  | 0.8  | 25        |
| 647 | In situ characterization of conducting polymers by measuring dynamic contact angles with Wilhelmy's plate technique. Reactive & Functional Polymers, 1995, 24, 157-164.  | 0.8  | 25        |
| 648 | Amperometric detection of electroinactive anions using conducting polymer electrodes subsequent to chromatographic separation. Electroanalysis, 1997, 9, 461-467.  | 2.9  | 25        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 649 | Polypyrrole/poly(2-methoxyaniline-5-sulfonic acid) polymer composite. Polymer Gels and Networks, 1998, 6, 233-245.   | 0.6  | 25        |
| 650 | Study of the surface potential and photovoltage of conducting polymers using electric force microscopy. Synthetic Metals, 2001, 124, 407-414.  | 3.9  | 25        |
| 651 | Effect of growth conditions on the photovoltaic efficiency of poly(terthiophene) based photoelectrochemical cells. Electrochimica Acta, 2005, 50, 3224-3230.   | 5.2  | 25        |
| 652 | Wearable sensors for monitoring sports performance and training. , 2008, , .   |      | 25        |
| 653 | Electrocatalytic Reduction of Carbon Dioxide by Cobalt-Phthalocyanine-Incorporated Polypyrrole.<br>Electrochemical and Solid-State Letters, 2009, 12, E17.   | 2.2  | 25        |
| 654 | ESR, Raman, and Conductivity Studies on Fractionated Poly(2-methoxyaniline-5-sulfonic acid). Journal of Physical Chemistry B, 2010, 114, 2337-2341.  | 2.6  | 25        |
| 655 | Wireless Ion-Selective Electrode Autonomous Sensing System. IEEE Sensors Journal, 2011, 11, 2374-2382.   | 4.7  | 25        |
| 656 | An Electrosynthesized 3D Porous Molybdenum Sulfide/Graphene Film with Enhanced Electrochemical<br>Performance for Lithium Storage. Small, 2018, 14, 1703096.   | 10.0 | 25        |
| 657 | Development and Characterization of a Sucrose Microneedle Neural Electrode Delivery System.<br>Advanced Biology, 2018, 2, 1700187.   | 3.0  | 25        |
| 658 | 3D Scaffolds of Polycaprolactone/Copper-Doped Bioactive Glass: Architecture Engineering with<br>Additive Manufacturing and Cellular Assessments in a Coculture of Bone Marrow Stem Cells and<br>Endothelial Cells. ACS Biomaterials Science and Engineering, 2019, 5, 4496-4510. | 5.2  | 25        |
| 659 | Bioprinting an Artificial Pancreas for Type 1 Diabetes. Current Diabetes Reports, 2019, 19, 53.  | 4.2  | 25        |
| 660 | Dielectric Elastomer Actuators, Neuromuscular Interfaces, and Foreign Body Response in Artificial<br>Neuromuscular Prostheses: A Review of the Literature for an In Vivo Application. Advanced<br>Healthcare Materials, 2021, 10, e2100041.                                      | 7.6  | 25        |
| 661 | Electrochemical Synthesis of Optically Active Polyanilines. Australian Journal of Chemistry, 1998, 51, 23.   | 0.9  | 25        |
| 662 | STUDIES ON EOSINOPHILIC MENINGITIS. 2. EXPERIMENTAL INFECTION OF SHRIMP AND CRABS WITH ANGIOSTRONGYLUS CANTONENSIS1. American Journal of Epidemiology, 1966, 84, 120-131.  | 3.4  | 24        |
| 663 | Open-ocean transport of particulate trace metals by bubbles. Deep-sea Research, 1978, 25, 827-835.   | 0.5  | 24        |
| 664 | First-order removal of particulate aluminium in oceanic surface layers. Nature, 1981, 293, 729-731.  | 27.8 | 24        |
| 665 | Gut contents: A significant contaminant of Mytilus edulis whole body metal concentrations. Archives of Environmental Contamination and Toxicology, 1993, 25, 415-21.   | 4.1  | 24        |
| 666 | Development of a conducting polymer-based microelectrode array detection system. Electroanalysis, 1996, 8, 623-629.  | 2.9  | 24        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 667 | Detection of haloacetic acids at conductive electroactive polymer-modified microelectrodes.<br>Analytica Chimica Acta, 1997, 341, 141-153.   | 5.4 | 24        |
| 668 | Electrochemical polymerization of acrylics on stainless steel cathodes. Journal of Applied Polymer Science, 2003, 87, 765-773.   | 2.6 | 24        |
| 669 | Autopolymerization of Pyrrole in the Presence of a Host/Guest Calixarene. Macromolecules, 2005, 38, 1616-1622.   | 4.8 | 24        |
| 670 | Electrochemical synthesis of polypyrrole films using stainless steel mesh as substrate for battery application. Synthetic Metals, 2005, 153, 117-120.                                    | 3.9 | 24        |
| 671 | Nanofiber Mats from DNA, SWNTs, and Poly(ethylene oxide) and Their Application in Glucose<br>Biosensors. Journal of the Electrochemical Society, 2008, 155, K100.                        | 2.9 | 24        |
| 672 | Electrically conductive coatings of nickel and polypyrrole/poly(2-methoxyaniline-5-sulfonic acid) on nylon Lycra® textiles. Progress in Organic Coatings, 2013, 76, 1296-1301.           | 3.9 | 24        |
| 673 | Capacitive behaviour of thermally reduced graphene oxide in a novel ionic liquid containing di-cationic charge. Synthetic Metals, 2014, 193, 110-116.                                    | 3.9 | 24        |
| 674 | New Insights into the Analysis of the Electrode Kinetics of Flavin Adenine Dinucleotide Redox Center of Glucose Oxidase Immobilized on Carbon Electrodes. Langmuir, 2014, 30, 3264-3273. | 3.5 | 24        |
| 675 | Disorder engineering of undoped TiO <sub>2</sub> nanotube arrays for highly efficient solar-driven oxygen evolution. Physical Chemistry Chemical Physics, 2015, 17, 5642-5649.           | 2.8 | 24        |
| 676 | Development of rhamnose-rich hydrogels based on sulfated xylorhamno-uronic acid toward wound healing applications. Biomaterials Science, 2019, 7, 3497-3509.                             | 5.4 | 24        |
| 677 | Processable Thermally Conductive Polyurethane Composite Fibers. Macromolecular Materials and Engineering, 2019, 304, 1800542.  | 3.6 | 24        |
| 678 | Free-form co-axial bioprinting of a gelatin methacryloyl bio-ink by direct in situ photo-crosslinking<br>during extrusion. Bioprinting, 2020, 19, e00087.                                | 5.8 | 24        |
| 679 | Light Cross-Linkable Marine Collagen for Coaxial Printing of a 3D Model of Neuromuscular Junction Formation. Biomedicines, 2021, 9, 16.  | 3.2 | 24        |
| 680 | Integration of biocomponents with synthetic structures: use of conducting polymer polyelectrolyte composites. , 1996, 2716, 164.   |     | 23        |
| 681 | Properties of chiral polyaniline in various oxidation states. Synthetic Metals, 1999, 101, 817-818.  | 3.9 | 23        |
| 682 | Electrosynthesis of polyurethane-based core-shell PAn·(+)-HCSA colloids. Synthetic Metals, 2000, 114, 313-320.   | 3.9 | 23        |
| 683 | Redox-active conducting polymers incorporating ferrocenes. Electrochimica Acta, 2004, 49, 691-702.   | 5.2 | 23        |
| 684 | Synthesis of Chiral Polyaniline Films via Chemical Vapor Phase Polymerization. Electrochemical and Solid-State Letters, 2006, 9, C9.   | 2.2 | 23        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 685 | Polypyrrole/Co-tetraphenylporphyrin modified carbon fibre paper as a fuel cell electrocatalyst of oxygen reduction. Electrochemistry Communications, 2008, 10, 519-522.                          | 4.7  | 23        |
| 686 | Wireless aquatic navigator for detection and analysis (WANDA). Sensors and Actuators B: Chemical, 2010, 150, 425-435.  | 7.8  | 23        |
| 687 | Flexible and Compressible Goretexâ^'PEDOT Membrane Electrodes for Solid-State Dye-Sensitized Solar<br>Cells. Langmuir, 2010, 26, 1452-1455.  | 3.5  | 23        |
| 688 | Nano-bioelectronics via dip-pen nanolithography. Journal of Materials Chemistry C, 2015, 3, 6431-6444.   | 5.5  | 23        |
| 689 | Comparison of inorganic electron transport layers in fully roll-to-roll coated/printed organic photovoltaics in normal geometry. Journal of Materials Chemistry A, 2016, 4, 15986-15996.         | 10.3 | 23        |
| 690 | 3D graphene-containing structures for tissue engineering. Materials Today Chemistry, 2019, 14, 100199.   | 3.5  | 23        |
| 691 | Conducting Polymer Mediated Electrical Stimulation Induces Multilineage Differentiation with<br>Robust Neuronal Fate Determination of Human Induced Pluripotent Stem Cells. Cells, 2020, 9, 658. | 4.1  | 23        |
| 692 | Biomimetic corneal stroma using electro-compacted collagen. Acta Biomaterialia, 2020, 113, 360-371.  | 8.3  | 23        |
| 693 | STUDIES ON EOSINOPHILIC MENINGITIS. American Journal of Epidemiology, 1969, 89, 331-344.   | 3.4  | 22        |
| 694 | Studies of the preparation and analytical application of polypyrrole-coated microelectrodes for determination of aluminum. Electroanalysis, 1996, 8, 330-335.                                    | 2.9  | 22        |
| 695 | Protein transport and separation using polypyrrole coated, platinised polyvinylidene fluoride membranes. Reactive and Functional Polymers, 2000, 45, 217-226.                                    | 4.1  | 22        |
| 696 | Development of Conducting Polymer Modified Electrodes for the Detection of Phenol.<br>Electroanalysis, 2002, 14, 325-332.  | 2.9  | 22        |
| 697 | Polypyrrole–heparin system for the separation of thrombin. Reactive and Functional Polymers, 2002, 53, 53-62.  | 4.1  | 22        |
| 698 | Poly(3-methylthiophene) electrochemical actuators showing increased strain and work per cycle at higher operating stresses. Polymer, 2006, 47, 7720-7725.  | 3.8  | 22        |
| 699 | High current density and drift velocity in templated conducting polymers. Organic Electronics, 2007, 8, 796-800.   | 2.6  | 22        |
| 700 | Electrochemical polymerization of pyrrole in BMIMPF6 ionic liquid and its electrochemical response to dopamine in the presence of ascorbic acid. Synthetic Metals, 2009, 159, 1542-1545.         | 3.9  | 22        |
| 701 | Ion effects in REDOX cycling of conducting polymer based electrochromic materials.<br>Electrochemistry Communications, 2010, 12, 1505-1508.  | 4.7  | 22        |
| 702 | A novel enzymatic bioelectrode system combining a redox hydrogel with a carbon NanoWeb. Chemical<br>Communications, 2011, 47, 8886.  | 4.1  | 22        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 703 | On corrosion behaviour of magnesium alloy AZ31 in simulated body fluids and influence of ionic liquid pretreatments. Corrosion Engineering Science and Technology, 2012, 47, 374-382.                      | 1.4  | 22        |
| 704 | Towards Hydrogen Energy: Progress on Catalysts for Water Splitting. Australian Journal of Chemistry, 2012, 65, 577.  | 0.9  | 22        |
| 705 | Surface modification of polypyrrole/biopolymer composites for controlled protein and cellular adhesion. Biofouling, 2013, 29, 1155-1167.   | 2.2  | 22        |
| 706 | A light-assisted, polymeric water oxidation catalyst that selectively oxidizes seawater with a low onset potential. Chemical Science, 2013, 4, 2797.   | 7.4  | 22        |
| 707 | Advancement in liquid exfoliation of graphite through simultaneously oxidizing and ultrasonicating.<br>Journal of Materials Chemistry A, 2014, 2, 20382-20392.   | 10.3 | 22        |
| 708 | Inkâ€onâ€Probe Hydrodynamics in Atomic Force Microscope Deposition of Liquid Inks. Small, 2014, 10,<br>3717-3728.  | 10.0 | 22        |
| 709 | Optical and Electrochemical Methods for Determining the Effective Area and Charge Density of<br>Conducting Polymer Modified Electrodes for Neural Stimulation. Analytical Chemistry, 2015, 87,<br>738-746. | 6.5  | 22        |
| 710 | Fabrication and In Vitro Characterization of Electrochemically Compacted Collagen/Sulfated<br>Xylorhamnoglycuronan Matrix for Wound Healing Applications. Polymers, 2018, 10, 415.                         | 4.5  | 22        |
| 711 | Binderâ€Free Electrodes Derived from Interlayerâ€Expanded MoS <sub>2</sub> Nanosheets on Carbon<br>Cloth with a 3D Porous Structure for Lithium Storage. ChemElectroChem, 2019, 6, 2338-2343.              | 3.4  | 22        |
| 712 | Novel porous thermosensitive gel electrolytes for wearable thermo-electrochemical cells. Chemical Engineering Journal, 2022, 449, 137775.  | 12.7 | 22        |
| 713 | Designing chemically modified electrodes for electroanalysis. TrAC - Trends in Analytical Chemistry, 1988, 7, 143-147.   | 11.4 | 21        |
| 714 | Use of Overoxidised Polypyrrole as a Chromium(VI) Sensor. Analytical Letters, 1992, 25, 429-441.   | 1.8  | 21        |
| 715 | Electropolymerisation of pyrrole under hydrodynamic conditions—effect of solution additives.<br>Electrochimica Acta, 1994, 39, 1409-1413.  | 5.2  | 21        |
| 716 | HISTIDINE-RICH GLYCOPROTEIN FROM THE HEMOLYMPH OF THE MARINE MUSSEL MYTILUS EDULIS L. BINDS CLASS A, CLASS B, AND BORDERLINE METALS. Environmental Toxicology and Chemistry, 2007, 26, 872.                | 4.3  | 21        |
| 717 | Fast bender actuators for fish-like aquatic robots. , 2008, , .  |      | 21        |
| 718 | Towards fully optimized conducting polymer bending sensors: the effect of geometry. Smart<br>Materials and Structures, 2009, 18, 085007.   | 3.5  | 21        |
| 719 | High strain electromechanical actuators based on electrodeposited polypyrrole doped with di-(2-ethylhexyl)sulfosuccinate. Sensors and Actuators B: Chemical, 2011, 155, 278-284.                           | 7.8  | 21        |
| 720 | Actuating individual electrospun hydrogel nanofibres. Soft Matter, 2012, 8, 8082.  | 2.7  | 21        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 721 | Surface Properties and Interaction Forces of Biopolymer-Doped Conductive Polypyrrole Surfaces by<br>Atomic Force Microscopy. Langmuir, 2013, 29, 6099-6108.   | 3.5 | 21        |
| 722 | Engineering Human Neural Tissue by 3D Bioprinting. Methods in Molecular Biology, 2018, 1758, 129-138.   | 0.9 | 21        |
| 723 | Development of a polymer dispersed-mercury modified electrode. Analytica Chimica Acta, 1990, 238, 345-350.  | 5.4 | 20        |
| 724 | Determination of gold using anion-exchange-based chemically modified electrodes. Electroanalysis, 1991, 3, 191-195.   | 2.9 | 20        |
| 725 | Novel conducting polymer-polyelectrolyte composites. Synthetic Metals, 1997, 84, 323-326.   | 3.9 | 20        |
| 726 | Electron transfer mediated deposition of conducting polymers on active metals. Synthetic Metals, 2003, 135-136, 33-34.  | 3.9 | 20        |
| 727 | Actuators for the cochlear implant. Synthetic Metals, 2003, 135-136, 39-40.   | 3.9 | 20        |
| 728 | Electroless recovery of gold chloride using inherently conducting polymers. Polymer International, 2004, 53, 681-687.   | 3.1 | 20        |
| 729 | Investigation of Ig.G Adsorption and the Effect on Electrochemical Responses at Titanium Dioxide Electrode. Langmuir, 2005, 21, 316-322.  | 3.5 | 20        |
| 730 | Lithium–Polymer battery based on polybithiophene as cathode material. Journal of Power Sources, 2006, 159, 708-711.   | 7.8 | 20        |
| 731 | Preparation of platinum inverse opals using self-assembled templates and their application in methanol oxidation. Materials Letters, 2007, 61, 2887-2890.   | 2.6 | 20        |
| 732 | Towards the development of a fully integrated polymeric microfluidic platform for environmental analysis. Talanta, 2008, 77, 463-467.   | 5.5 | 20        |
| 733 | Homogeneous Catalysts with a Mechanical ("Machineâ€likeâ€) Action. Chemistry - A European Journal,<br>2009, 15, 4746-4759.  | 3.3 | 20        |
| 734 | Luminescent Metal Complexes within Polyelectrolyte Layers: Tuning Electron and Energy Transfer.<br>Langmuir, 2009, 25, 14053-14060.   | 3.5 | 20        |
| 735 | Insights into the cut edge corrosion of 55% Al–Zn metal coating on steel from simultaneous<br>electrochemical polarization and localised pH sensing experiments. Corrosion Science, 2012, 55,<br>180-186.   | 6.6 | 20        |
| 736 | Comparative displacement study of bilayer actuators comprising of conducting polymers, fabricated<br>from polypyrrole, poly(3,4-ethylenedioxythiophene) or poly(3,4-propylenedioxythiophene). Sensors and<br>Actuators A: Physical, 2013, 193, 48-53. | 4.1 | 20        |
| 737 | Cation Exchange at Semiconducting Oxide Surfaces: Origin of Light-Induced Performance Increases in Porphyrin Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 11885-11898.   | 3.1 | 20        |
| 738 | Quantifying Molecular-Level Cell Adhesion on Electroactive Conducting Polymers using Electrochemical-Single Cell Force Spectroscopy. Scientific Reports, 2015, 5, 13334.  | 3.3 | 20        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 739 | Implantable electrodes. Current Opinion in Electrochemistry, 2017, 3, 68-74.  | 4.8  | 20        |
| 740 | PEDOT doped with algal, mammalian and synthetic dopants: polymer properties, protein and cell<br>interactions, and influence of electrical stimulation on neuronal cell differentiation. Biomaterials<br>Science, 2018, 6, 1250-1261. | 5.4  | 20        |
| 741 | Gortex-Based Gas Diffusion Electrodes with Unprecedented Resistance to Flooding and Leaking. ACS<br>Applied Materials & Interfaces, 2018, 10, 28176-28186.  | 8.0  | 20        |
| 742 | Bio-Inspired Stretchable and Contractible Tough Fiber by the Hybridization of GO/MWNT/Polyurethane.<br>ACS Applied Materials & Interfaces, 2019, 11, 31162-31168.   | 8.0  | 20        |
| 743 | A 3Dâ€Printed Electrochemical Water Splitting Cell. Advanced Materials Technologies, 2019, 4, 1900433.  | 5.8  | 20        |
| 744 | Composite Tissue Adhesive Containing Catechol-Modified Hyaluronic Acid and Poly- <scp>l</scp> -lysine. ACS Applied Bio Materials, 2020, 3, 628-638.   | 4.6  | 20        |
| 745 | 3D Coaxial Printing Tough and Elastic Hydrogels for Tissue Engineering Using a Catechol<br>Functionalized Ink System. Advanced Healthcare Materials, 2020, 9, e2001342.   | 7.6  | 20        |
| 746 | The biogeochemical fate and toxicity of mercury in Controlled Experimental Ecosystems. Estuarine,<br>Coastal and Shelf Science, 1982, 15, 151-182.  | 2.1  | 19        |
| 747 | Dissolved oxygen: the electroanalytical chemists dilemma. TrAC - Trends in Analytical Chemistry, 1985, 4, 145-148.  | 11.4 | 19        |
| 748 | Electrochemical preparation of polypyrrole colloids using a flow cell. Colloids and Surfaces A:<br>Physicochemical and Engineering Aspects, 1997, 126, 129-135.   | 4.7  | 19        |
| 749 | Protein Detection Using Conducting Polymer Microarrays. Electroanalysis, 1998, 10, 1101-1107.   | 2.9  | 19        |
| 750 | Electrochemical synthesis of pyrrole through a polystyrene opal matrix. Synthetic Metals, 2001, 121, 1501-1502.   | 3.9  | 19        |
| 751 | Ionic liquids and polypyrrole helix tubes: bringing the electronic Braille screen closer to reality. ,<br>2003, , .   |      | 19        |
| 752 | In situ formed processable polypyrrole nanoparticle/amphiphilic elastomer composites and their properties. Polymer International, 2004, 53, 400-405.  | 3.1  | 19        |
| 753 | An integrated electrochemical sensor–actuator system. Sensors and Actuators A: Physical, 2004, 114,<br>65-72.   | 4.1  | 19        |
| 754 | Photoelectrochemical Solar Cells based on Polyterthiophenes Containing Porphyrins using Ionic<br>Liquid Electrolyte. Electrochemical and Solid-State Letters, 2005, 8, A528.  | 2.2  | 19        |
| 755 | Bio-sensing textiles - Wearable Chemical Biosensors for Health Monitoring. , 2007, , 35-39.   |      | 19        |
| 756 | Wearable technology for bio-chemical analysis of body fluids during exercise. , 2008, 2008, 5741-4.   |      | 19        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 757 | Advanced microwave-assisted production of hybrid electrodes for energy applications. Energy and Environmental Science, 2010, 3, 1979.  | 30.8 | 19        |
| 758 | Capacitive behavior of latex/single-wall carbon nanotube stretchable electrodes. Electrochimica<br>Acta, 2014, 137, 372-380.   | 5.2  | 19        |
| 759 | Next generation bioelectronics: Advances in fabrication coupled with clever chemistries enable the effective integration of biomaterials and organic conductors. APL Materials, 2015, 3, 014913.                               | 5.1  | 19        |
| 760 | Using medicolegal data to support safe medical care: A contributing factor coding framework.<br>Journal of Healthcare Risk Management: the Journal of the American Society for Healthcare Risk<br>Management, 2019, 38, 11-18. | 0.7  | 19        |
| 761 | Highly ordered mesoporous carbon/iron porphyrin nanoreactor for the electrochemical reduction of CO <sub>2</sub> . Journal of Materials Chemistry A, 2020, 8, 14966-14974.   | 10.3 | 19        |
| 762 | 3D bioprinting dermal-like structures using species-specific ulvan. Biomaterials Science, 2021, 9, 2424-2438.  | 5.4  | 19        |
| 763 | Sabin-Feldman Dye Test for Toxoplasmosis. American Journal of Tropical Medicine and Hygiene, 1969, 18,<br>395-398.   | 1.4  | 19        |
| 764 | Toxoplasmosis and Cats in New Guinea *. American Journal of Tropical Medicine and Hygiene, 1974, 23, 8-14.   | 1.4  | 19        |
| 765 | STUDIES ON EOSINOPHILIC MENINGITIS. American Journal of Epidemiology, 1965, 81, 52-62.   | 3.4  | 18        |
| 766 | Effect of thermal treatment on the electrochemical properties of conducting polypyrrole polymers.<br>Polymer, 1994, 35, 2372-2377.   | 3.8  | 18        |
| 767 | Preparation and preliminary characterization of a poly(4-vinylpyridine) complex of a water-soluble polyaniline. Synthetic Metals, 1997, 90, 13-18.   | 3.9  | 18        |
| 768 | Gold recovery using inherently conducting polymer coated textiles. Fibers and Polymers, 2004, 5, 1-5.  | 2.1  | 18        |
| 769 | Faradaic charge corrected colouration efficiency measurements for electrochromic devices.<br>Electrochimica Acta, 2008, 53, 2250-2257.   | 5.2  | 18        |
| 770 | Fabrication and Characterization of Cytocompatible Polypyrrole Films Inkjet Printed from<br>Nanoformulations Cytocompatible, Inkjetâ€Printed Polypyrrole Films. Small, 2011, 7, 3434-3438.                                     | 10.0 | 18        |
| 771 | Electrically Induced Disassembly of Electroactive Multilayer Films Fabricated from Water Soluble<br>Polythiophenes. Advanced Functional Materials, 2012, 22, 5020-5027.  | 14.9 | 18        |
| 772 | Extrusion Printed Graphene/Polycaprolactone/Composites for Tissue Engineering. Materials Science<br>Forum, 0, 773-774, 496-502.  | 0.3  | 18        |
| 773 | Tensile testing of individual glassy, rubbery and hydrogel electrospun polymer nanofibres to high strain using the atomic force microscope. Polymer Testing, 2013, 32, 655-664.  | 4.8  | 18        |
| 774 | 3D braided yarns to create electrochemical cells. Electrochemistry Communications, 2015, 61, 27-31.  | 4.7  | 18        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 775 | Tunable solution-processable anodic exfoliated graphene. Applied Materials Today, 2019, 15, 290-296.  | 4.3 | 18        |
| 776 | 3D hybrid printing platform for auricular cartilage reconstruction. Biomedical Physics and Engineering Express, 2020, 6, 035003.  | 1.2 | 18        |
| 777 | Fabrication of Aligned Biomimetic Gellan Gum-Chitosan Microstructures through 3D Printed<br>Microfluidic Channels and Multiple In Situ Cross-Linking Mechanisms. ACS Biomaterials Science and<br>Engineering, 2020, 6, 3638-3648. | 5.2 | 18        |
| 778 | A robust 3D printed multilayer conductive graphene/polycaprolactone composite electrode. Materials<br>Chemistry Frontiers, 2020, 4, 1664-1670.  | 5.9 | 18        |
| 779 | Incorporation of proteins into conducting electroactive polymers. Reactive & Functional Polymers, 1992, 18, 77-85.  | 0.8 | 17        |
| 780 | Characterising the chemical interactions that occur on polyaniline with inverse thin layer chromatography. Polymer International, 1994, 35, 197-205.  | 3.1 | 17        |
| 781 | Photovoltaic properties of poly(terthiophene) doped with light-harvesting dyes and photocurrent generation mechanism. Synthetic Metals, 2007, 157, 441-447.   | 3.9 | 17        |
| 782 | Chemical and Photoluminescence Properties of Purified Poly(2-methoxyaniline-5-sulfonic acid) and Oligomer. Journal of Physical Chemistry B, 2007, 111, 12738-12747.   | 2.6 | 17        |
| 783 | Self-maintained colorimetric acid/base sensor using polypyrrole actuator. Sensors and Actuators B:<br>Chemical, 2008, 129, 518-524.   | 7.8 | 17        |
| 784 | Switchable redox activity by proton fuelled DNA nano-machines. Chemical Communications, 2009, ,<br>1240.  | 4.1 | 17        |
| 785 | Surfactant-controlled shape change of organic droplets using polypyrrole. Thin Solid Films, 2011, 519, 6486-6491.   | 1.8 | 17        |
| 786 | Hydrophobic conducting polymer films from post deposition thiol exposure. Synthetic Metals, 2012, 162, 1464-1470.   | 3.9 | 17        |
| 787 | A Nonconjugated Bridge in Dimer-Sensitized Solar Cells Retards Charge Recombination without<br>Decreasing Charge Injection Efficiency. ACS Applied Materials & Interfaces, 2013, 5, 10824-10829.                                  | 8.0 | 17        |
| 788 | Electrochemically Induced Synthesis of Poly(2,6-carbazole). Macromolecular Rapid Communications, 2015, 36, 1749-1755.   | 3.9 | 17        |
| 789 | The effect of treatment time on the ionic liquid surface film formation: Promising surface coating for Mg alloy AZ31. Surface and Coatings Technology, 2016, 296, 192-202.  | 4.8 | 17        |
| 790 | Using Chronopotentiometry to Better Characterize the Charge Injection Mechanisms of Platinum<br>Electrodes Used in Bionic Devices. Frontiers in Neuroscience, 2019, 13, 380.  | 2.8 | 17        |
| 791 | The Prevalence of Toxoplasmosis on Pacific Islands, and the Influence of Ethnic Group. American<br>Journal of Tropical Medicine and Hygiene, 1976, 25, 48-53.   | 1.4 | 17        |
| 792 | Controlled Release of the Dithiocarbamate Ligand From A Polypyrrole Polymer. A Basis For On-Line<br>Electrochemicalycontrolled Derivatisation. Analytical Letters, 1989, 22, 669-681.   | 1.8 | 16        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 793 | Stabilization of a ruthenium polymer-modified electrode for use in flowing solution analysis.<br>Electroanalysis, 1989, 1, 357-361.  | 2.9 | 16        |
| 794 | Electrochemical production of protein-containing polypyrrole colloids. Reactive and Functional Polymers, 1999, 39, 269-275.  | 4.1 | 16        |
| 795 | Incorporation of novel polyelectrolyte dopants into conducting polymers. Reactive and Functional Polymers, 2000, 44, 245-258.  | 4.1 | 16        |
| 796 | Photoelectrochemical Cells Based on Inherently Conducting Polymers. MRS Bulletin, 2005, 30, 46-49.   | 3.5 | 16        |
| 797 | Novel fullerene-functionalised poly(terthiophenes). Journal of Electroanalytical Chemistry, 2007, 599, 79-84.  | 3.8 | 16        |
| 798 | Electrochemical properties of SWNT/ferritin composite for bioapplications. Sensors and Actuators B:<br>Chemical, 2008, 133, 393-397.   | 7.8 | 16        |
| 799 | Direct Ascorbic Acid Detection with Ferritin Immobilized on Single-Walled Carbon Nanotubes.<br>Electrochemical and Solid-State Letters, 2008, 11, K4.  | 2.2 | 16        |
| 800 | Conjugated Polymer Actuators: Fundamentals. , 0, , 193-227.  |     | 16        |
| 801 | Mechanical Reinforcement of Continuous Flow Spun Polyelectrolyte Complex Fibers.<br>Macromolecular Bioscience, 2009, 9, 354-360.   | 4.1 | 16        |
| 802 | Charge Transport in Dye-Sensitized Solar Cells Based on Flame-made \$hbox{TiO}_{m 2}\$<br>Nanoparticles. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1641-1648.  | 2.9 | 16        |
| 803 | Inkjet printing of self-assembling polyelectrolyte hydrogels. Soft Matter, 2011, 7, 3818.  | 2.7 | 16        |
| 804 | Facile synthesis of reduced graphene oxide/MWNTs nanocomposite supercapacitor materials tested as<br>electrophoretically deposited films on glassy carbon electrodes. Journal of Applied Electrochemistry,<br>2013, 43, 865-877. | 2.9 | 16        |
| 805 | Probing Donor–Acceptor Interactions in <i>meso</i> -Substituted Zn(II) Porphyrins Using Resonance<br>Raman Spectroscopy and Computational Chemistry. Journal of Physical Chemistry C, 2015, 119,<br>22379-22391.                 | 3.1 | 16        |
| 806 | Conductive and protein resistant polypyrrole films for dexamethasone delivery. Journal of Materials<br>Chemistry B, 2016, 4, 2570-2577.  | 5.8 | 16        |
| 807 | System and process development for coaxial extrusion in fused deposition modelling. Rapid<br>Prototyping Journal, 2017, 23, 543-550.   | 3.2 | 16        |
| 808 | Evaluation of the Biocompatibility of Polypyrrole Implanted Subdurally in GAERS. Macromolecular<br>Bioscience, 2017, 17, 1600334.  | 4.1 | 16        |
| 809 | Advanced fabrication approaches to controlled delivery systems for epilepsy treatment. Expert Opinion on Drug Delivery, 2018, 15, 915-925.   | 5.0 | 16        |
| 810 | Quantitative ultrasound imaging of cell-laden hydrogels and printed constructs. Acta Biomaterialia, 2019, 91, 173-185.   | 8.3 | 16        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 811 | Bipolar electroactive conducting polymers for wireless cell stimulation. Applied Materials Today, 2020, 21, 100804.   | 4.3  | 16        |
| 812 | Abuseâ€Tolerant Electrolytes for Lithiumâ€Ion Batteries. Advanced Science, 2021, 8, e2003694.   | 11.2 | 16        |
| 813 | Polarographic method for the determination of propanedial (malonaldehyde). Analytical Chemistry, 1980, 52, 2211-2213.   | 6.5  | 15        |
| 814 | Research and development topics in Analytical Chemistry. Analytical Proceedings, 1986, 23, 5.   | 0.4  | 15        |
| 815 | Separation and detection of metal ions using in-situ ligand exchange chromatography. Analytical<br>Chemistry, 1988, 60, 830-832.  | 6.5  | 15        |
| 816 | Use of inverse thin layer chromatography with amino acids to characterize molecular interactions on conducting polymers. Polymer International, 1992, 29, 299-305.  | 3.1  | 15        |
| 817 | Development of a polymer-based electrode for selective detection of dichloramine. Analytica Chimica Acta, 1992, 263, 71-75.   | 5.4  | 15        |
| 818 | Chracterization of polyaniline using chromatographic studies. Chromatographia, 1996, 42, 191-198.   | 1.3  | 15        |
| 819 | Chiral Induction in the Acid Doping of Poly(o-methoxyaniline). Australian Journal of Chemistry, 2000, 53, 89.   | 0.9  | 15        |
| 820 | Electrohydrodynamic synthesis, characterisation and metal uptake studies on polypyrrole colloids<br>stabilised by polyvinylphosphate dopant. Colloids and Surfaces A: Physicochemical and Engineering<br>Aspects, 2000, 175, 291-301. | 4.7  | 15        |
| 821 | Electrochemical properties of aligned nanotube arrays: basis of new electromechanical actuators. ,<br>2000, , .   |      | 15        |
| 822 | Stabilization of Single-Wall Carbon Nanotubes in Fully Sulfonated Polyaniline. Journal of<br>Nanoscience and Nanotechnology, 2004, 4, 976-981.  | 0.9  | 15        |
| 823 | Electrochemical synthesis and characterisation of polyaniline/poly(2-methoxyaniline-5-sulfonic acid)<br>composites. Electrochimica Acta, 2008, 53, 4146-4155.   | 5.2  | 15        |
| 824 | Reversible Shape Memory of Nanoscale Deformations in Inherently Conducting Polymers without Reprogramming. Journal of Physical Chemistry B, 2011, 115, 3371-3378.   | 2.6  | 15        |
| 825 | Supercapacitive properties of polyaniline/hydrous RuO2 composite electrode. Polymer Bulletin, 2012, 68, 553-560.  | 3.3  | 15        |
| 826 | Pathological Gait Detection of Parkinson's Disease Using Sparse Representation. , 2013, , .   |      | 15        |
| 827 | Polypyrrole stretchable actuators. Journal of Polymer Science, Part B: Polymer Physics, 2013, 51, 57-63.  | 2.1  | 15        |
| 828 | A merocyanine-based conductive polymer. Journal of Materials Chemistry C, 2013, 1, 3913.  | 5.5  | 15        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 829 | Electrical stimulation enhances the acetylcholine receptors available for neuromuscular junction formation. Acta Biomaterialia, 2016, 45, 328-339.   | 8.3  | 15        |
| 830 | Electro-mechano responsive properties of gelatin methacrylate (GelMA) hydrogel on conducting polymer electrodes quantified using atomic force microscopy. Soft Matter, 2017, 13, 4761-4772.            | 2.7  | 15        |
| 831 | CO <sub>2</sub> electrolysis in seawater: calcification effect and a hybrid self-powered concept.<br>Journal of Materials Chemistry A, 2018, 6, 23301-23307.   | 10.3 | 15        |
| 832 | Facile electrochemical synthesis of ultrathin iron oxyhydroxide nanosheets for the oxygen evolution reaction. Chemical Communications, 2019, 55, 8808-8811.  | 4.1  | 15        |
| 833 | Electrofluidic control of bioactive molecule delivery into soft tissue models based on gelatin methacryloyl hydrogels using threads and surgical sutures. Scientific Reports, 2020, 10, 7120.          | 3.3  | 15        |
| 834 | Nanoscale piezoelectric effect of biodegradable PLA-based composite fibers by piezoresponse force microscopy. Nanotechnology, 2020, 31, 375708.  | 2.6  | 15        |
| 835 | Hierarchical architectures of mesoporous Pd on highly ordered TiO <sub>2</sub> nanotube arrays<br>for electrochemical CO <sub>2</sub> reduction. Journal of Materials Chemistry A, 2020, 8, 8041-8048. | 10.3 | 15        |
| 836 | Cathodic exfoliation of graphite into graphene nanoplatelets in aqueous solution of alkali metal salts. Journal of Materials Science, 2021, 56, 3612-3622.   | 3.7  | 15        |
| 837 | Engineering <i>in vitro</i> human neural tissue analogs by 3D bioprinting and electrostimulation. APL<br>Bioengineering, 2021, 5, 020901.  | 6.2  | 15        |
| 838 | Bioprinting of Chondrocyte Stem Cell Co-Cultures for Auricular Cartilage Regeneration. ACS Omega, 2022, 7, 5908-5920.  | 3.5  | 15        |
| 839 | Effect of ternary complex formation on chromatographic selectivity using in situ complexation chromatography. Analytical Chemistry, 1985, 57, 1354-1358.   | 6.5  | 14        |
| 840 | The Use of Chronoamperometry and Chemometrics for Optimization of Conducting Polymer Sensor Arrays. Electroanalysis, 1999, 11, 1327-1332.  | 2.9  | 14        |
| 841 | Recovery of gold cyanide using inherently conducting polymers. Polymer International, 2003, 52, 51-55.   | 3.1  | 14        |
| 842 | Freshwater Fish Mercury Concentrations in a Regionally High Mercury Deposition Area. Water, Air, and Soil Pollution, 2008, 191, 15-31.   | 2.4  | 14        |
| 843 | Solvent dependence of electrochromic behaviour of polypyrrole: Rediscovering the effect of molecular oxygen. Synthetic Metals, 2009, 159, 1950-1955.   | 3.9  | 14        |
| 844 | Three-dimensional modeling of Cu and Pb distributions in Boston Harbor, Massachusetts and Cape Cod<br>Bays. Estuarine, Coastal and Shelf Science, 2010, 88, 450-463.                                   | 2.1  | 14        |
| 845 | Physicochemical study of spiropyran–terthiophene derivatives: photochemistry and thermodynamics.<br>Physical Chemistry Chemical Physics, 2012, 14, 9112.   | 2.8  | 14        |
| 846 | Carbon Nanotubes Induced Gelation of Unmodified Hyaluronic Acid. Langmuir, 2013, 29, 10247-10253.  | 3.5  | 14        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 847 | PEGylation of platinum bio-electrodes. Electrochemistry Communications, 2013, 27, 54-58.  | 4.7  | 14        |
| 848 | In vitro growth and differentiation of primary myoblasts on thiophene based conducting polymers.<br>Biomaterials Science, 2013, 1, 983.   | 5.4  | 14        |
| 849 | An Advanced Mathematical Model and its Experimental Verification for Trilayer Conjugated Polymer Actuators. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1279-1288.  | 5.8  | 14        |
| 850 | Performance enhancement of single-walled nanotube–microwave exfoliated graphene oxide<br>composite electrodes using a stacked electrode configuration. Journal of Materials Chemistry A, 2014,<br>2, 14835-14843.                       | 10.3 | 14        |
| 851 | Three-dimensional bioprinting speeds up smart regenerative medicine. National Science Review, 2016, 3, 331-344.   | 9.5  | 14        |
| 852 | Brazing techniques for the fabrication of biocompatible carbon-based electronic devices. Carbon, 2016, 107, 180-189.  | 10.3 | 14        |
| 853 | Electrotactic ionic liquid droplets. Sensors and Actuators B: Chemical, 2017, 239, 1069-1075.   | 7.8  | 14        |
| 854 | An electrochemical cell with Gortex-based electrodes capable of extracting pure hydrogen from<br>highly dilute hydrogen–methane mixtures. Energy and Environmental Science, 2018, 11, 172-184.  | 30.8 | 14        |
| 855 | Switchable Interfaces: Redox Monolayers on Si(100) by Electrochemical Trapping of Alcohol<br>Nucleophiles. Surfaces, 2018, 1, 3-11.   | 2.3  | 14        |
| 856 | Dynamics of Inter-Molecular Interactions Between Single Aβ42 Oligomeric and Aggregate Species by<br>High-Speed Atomic Force Microscopy. Journal of Molecular Biology, 2019, 431, 2687-2699.   | 4.2  | 14        |
| 857 | Scalable Solution Processing MoS <sub>2</sub> Powders with Liquid Crystalline Graphene Oxide for<br>Flexible Freestanding Films with High Areal Lithium Storage Capacity. ACS Applied Materials &<br>Interfaces, 2019, 11, 46746-46755. | 8.0  | 14        |
| 858 | Impact of Protein Fouling on the Charge Injection Capacity, Impedance, and Effective Electrode Area of Platinum Electrodes for Bionic Devices. ChemElectroChem, 2021, 8, 1078-1090.   | 3.4  | 14        |
| 859 | Platinized graphene fiber electrodes uncover direct spleen-vagus communication. Communications Biology, 2021, 4, 1097.  | 4.4  | 14        |
| 860 | Film substructure and mechanical properties of electrochemically prepared polypyrrole. Polymer, 1995, 36, 4761-4765.  | 3.8  | 14        |
| 861 | Properties of thermally treated polypyrroles. Polymer, 1992, 33, 2348-2352.   | 3.8  | 13        |
| 862 | Removal of oxygen in flowing solutions using a photochemical process. Electroanalysis, 1992, 4, 323-326.  | 2.9  | 13        |
| 863 | Detection of cytochrome c using a conducting polymer mediator containing electrode.<br>Electroanalysis, 1996, 8, 248-252.   | 2.9  | 13        |
| 864 | Effect of an intermediate on the amperometric response of a polypyrrole-based formate biosensing membrane. Electrochemistry Communications, 2000, 2, 27-31.   | 4.7  | 13        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 865 | Polyanilines with a twist. Synthetic Metals, 2001, 119, 101-102.  | 3.9  | 13        |
| 866 | Factors Influencing the Performance of Inherently Conducting Polymers as Corrosion Inhibitors: The Dopant. ACS Symposium Series, 2003, , 103-123.   | 0.5  | 13        |
| 867 | Functionalised poly(terthiophenes). Synthetic Metals, 2003, 135-136, 97-98.   | 3.9  | 13        |
| 868 | Induction of chirality into a fully sulfonated poly(methoxyaniline) via acid–base interactions with chiral amines. Polymer, 2006, 47, 8088-8094.  | 3.8  | 13        |
| 869 | Induction of titanium reduction using pyrrole and polypyrrole in the ionic liquid<br>ethyl-methyl-imidazolium bis(trifluoromethanesulphonyl)amide. Electrochemistry Communications,<br>2008, 10, 217-221. | 4.7  | 13        |
| 870 | Singleâ€Walled Carbon Nanotube/Trititanate Nanotube Composite Fibers. Advanced Engineering<br>Materials, 2009, 11, B55.   | 3.5  | 13        |
| 871 | Redox Behavior of Poly(2-methoxyaniline-5-sulfonic acid) and Its Remarkable Thermochromism,<br>Solvatochromism, and Ionochromism. Macromolecules, 2010, 43, 9982-9989.                                    | 4.8  | 13        |
| 872 | Photolithographic patterning of conducting polyaniline films via flash welding. Synthetic Metals, 2010, 160, 1405-1409.   | 3.9  | 13        |
| 873 | Functionalised inherently conducting polymers as low biofouling materials. Biofouling, 2015, 31, 493-502.   | 2.2  | 13        |
| 874 | Development and validation of a seizure initiated drug delivery system for the treatment of epilepsy.<br>Sensors and Actuators B: Chemical, 2016, 236, 732-740.   | 7.8  | 13        |
| 875 | Alkaline Fuel Cells with Novel Gortexâ€Based Electrodes are Powered Remarkably Efficiently by Methane<br>Containing 5% Hydrogen. Advanced Energy Materials, 2018, 8, 1702285.                             | 19.5 | 13        |
| 876 | Wetâ€spinning and carbonization of graphene/PANâ€based fibers: Toward improving the properties of carbon fibers. Journal of Applied Polymer Science, 2019, 136, 47932.                                    | 2.6  | 13        |
| 877 | Wet-Spun Trojan Horse Cell Constructs for Engineering Muscle. Frontiers in Chemistry, 2020, 8, 18.  | 3.6  | 13        |
| 878 | Catechol functionalized ink system and thrombin-free fibrin gel for fabricating cellular constructs with mechanical support and inner micro channels. Biofabrication, 2022, 14, 015004.                   | 7.1  | 13        |
| 879 | Influence of oxygen insertion on the electrochemistry of chromium(III) dithiocarbamate complexes.<br>Inorganic Chemistry, 1984, 23, 1858-1865.  | 4.0  | 12        |
| 880 | Determination of copper(II) and iron(III) in some anaerobic adhesive formulations using high-performance liquid chromatography. Analyst, The, 1987, 112, 1555.  | 3.5  | 12        |
| 881 | Metal Ion Uptake and Voltammetry on a Dithiocarbamate Containing Polymer Modified Electrode.<br>Analytical Letters, 1988, 21, 1969-1986.  | 1.8  | 12        |
| 882 | Photoelectrochemical detection and speciation of thallium (I) and thallium (III). Electroanalysis, 1992, 4, 139-142.  | 2.9  | 12        |

| #   | Article   | IF   | CITATIONS |
|-----|---|------|-----------|
| 883 | Conducting polymer sensors for the amperometric detection of proteins in a flow system - the use of sulfonated dye counterions to induce selectivity. Electroanalysis, 1997, 9, 454-460.                                | 2.9  | 12        |
| 884 | Current Chemistry: Separation and Recovery of Gold and Other Metals Using Conducting Polymers.<br>Australian Journal of Chemistry, 2001, 54, 615.   | 0.9  | 12        |
| 885 | Conducting polymer, carbon nanotube, and hybrid actuator materials. , 2001, 4329, 199.  |      | 12        |
| 886 | Photovoltaic devices based on poly(bis-terthiophenes) and substituted poly(bisterthiophene).<br>Synthetic Metals, 2003, 137, 1373-1374.   | 3.9  | 12        |
| 887 | A galvanic cell driven controlled release system based on conducting polymers. Sensors and Actuators B: Chemical, 2008, 129, 605-611.   | 7.8  | 12        |
| 888 | Comparison of the electrochemical behaviour of buckypaper and polymer-intercalated buckypaper electrodes. Journal of Electroanalytical Chemistry, 2011, 652, 52-59.   | 3.8  | 12        |
| 889 | Microwave Decoration of Pt Nanoparticles on Entangled 3D Carbon Nanotube Architectures as PEM<br>Fuel Cell Cathode. ChemSusChem, 2012, 5, 1233-1240.  | 6.8  | 12        |
| 890 | Quantifying fibronectin adhesion with nanoscale spatial resolution on glycosaminoglycan doped<br>polypyrrole using Atomic Force Microscopy. Biochimica Et Biophysica Acta - General Subjects, 2013,<br>1830, 4305-4313. | 2.4  | 12        |
| 891 | Levetiracetam-loaded biodegradable polymer implants in the tetanus toxin model of temporal lobe epilepsy in rats. Journal of Clinical Neuroscience, 2013, 20, 148-152.  | 1.5  | 12        |
| 892 | The potential of induced pluripotent stem cells in models of neurological disorders: implications on future therapy. Expert Review of Neurotherapeutics, 2015, 15, 295-304.   | 2.8  | 12        |
| 893 | Characterisation of graphene fibres and graphene coated fibres using capacitively coupled contactless conductivity detector. Analyst, The, 2016, 141, 2774-2782.  | 3.5  | 12        |
| 894 | Effective Area and Charge Density of Chondroitin Sulphate Doped PEDOT Modified Electrodes.<br>Electrochimica Acta, 2016, 197, 99-106.   | 5.2  | 12        |
| 895 | Development of drug-loaded polymer microcapsules for treatment of epilepsy. Biomaterials Science, 2017, 5, 2159-2168.   | 5.4  | 12        |
| 896 | The Bionic Bra: Using electromaterials to sense and modify breast support to enhance active living.<br>Journal of Rehabilitation and Assistive Technologies Engineering, 2018, 5, 205566831877590.                      | 0.9  | 12        |
| 897 | A versatile transition metal ion-binding motif derived from covalent organic framework for efficient CO2 electroreduction. Applied Catalysis B: Environmental, 2021, 291, 119915.                                       | 20.2 | 12        |
| 898 | Bioprinting Stem Cells in Hydrogel for In Situ Surgical Application: A Case for Articular Cartilage.<br>Methods in Molecular Biology, 2020, 2140, 145-157.  | 0.9  | 12        |
| 899 | Suitability of Marine- and Porcine-Derived Collagen Type I Hydrogels for Bioprinting and Tissue Engineering Scaffolds. Marine Drugs, 2022, 20, 366.   | 4.6  | 12        |
| 900 | Incorporation of various counter-ions during electropolymerization of 3-methylpyrrole-4-carboxylic acid. Journal of Electroanalytical Chemistry, 1992, 340, 41-52.  | 3.8  | 11        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 901 | The formation of surface-active organic complexes of copper in coastal marine waters. Marine Chemistry, 1995, 51, 145-157.  | 2.3 | 11        |
| 902 | The effect of different electrical stimuli on the oxidation/reduction behaviour of polypyrrole-pts A<br>Study Using the Electrochemical Quartz Crystal Microbalance. Synthetic Metals, 1997, 84, 823-824.                                     | 3.9 | 11        |
| 903 | Enzymatic sensor based on conducting polymer coatings on metallised membranes. Analytical Communications, 1998, 35, 245-248.  | 2.2 | 11        |
| 904 | Photoluminescence and photo-redox reactions of poly(2-methoxyaniline-5-sulfonic acid). Current<br>Applied Physics, 2004, 4, 394-397.  | 2.4 | 11        |
| 905 | Electrochemical Hydrogen Storage in Single-Walled Carbon Nanotube Paper. Journal of Nanoscience<br>and Nanotechnology, 2006, 6, 713-718.  | 0.9 | 11        |
| 906 | Influence of added hydrogen bonding agents on the chiroptical properties of chiral polyaniline.<br>Synthetic Metals, 2009, 159, 715-717.  | 3.9 | 11        |
| 907 | Electrochemical investigation of carbon nanotube nanoweb architecture in biological media.<br>Electrochemistry Communications, 2010, 12, 1471-1474.   | 4.7 | 11        |
| 908 | Influence of biopolymer loading on the physiochemical and electrochemical properties of inherently conducting polymer biomaterials. Synthetic Metals, 2015, 200, 40-47.   | 3.9 | 11        |
| 909 | Fabrication of novel core-shell PLGA and alginate fiber for dual-drug delivery system. Polymers for<br>Advanced Technologies, 2016, 27, 1014-1019.  | 3.2 | 11        |
| 910 | Effect of post-spinning on the electrical and electrochemical properties of wet spun graphene fibre.<br>RSC Advances, 2016, 6, 46427-46432.   | 3.6 | 11        |
| 911 | Synthesis and Characterization of Covalently Linked Graphene/Chitosan Composites. Jom, 2016, 68, 384-390.   | 1.9 | 11        |
| 912 | Effective Area and Charge Density of Iridium Oxide Neural Electrodes. Electrochimica Acta, 2017, 230,<br>285-292.   | 5.2 | 11        |
| 913 | Dual Delivery of Gemcitabine and Paclitaxel by Wetâ€&pun Coaxial Fibers Induces Pancreatic Ductal<br>Adenocarcinoma Cell Death, Reduces Tumor Volume, and Sensitizes Cells to Radiation. Advanced<br>Healthcare Materials, 2020, 9, e2001115. | 7.6 | 11        |
| 914 | Bidirectional Core Sandwich Structure of Reduced Graphene Oxide and Spinnable Multiwalled Carbon<br>Nanotubes for Electromagnetic Interference Shielding Effectiveness. ACS Applied Materials &<br>Interfaces, 2020, 12, 46883-46891.         | 8.0 | 11        |
| 915 | Wireless electrochemiluminescence at functionalised gold microparticles using 3D titanium electrode arrays. Chemical Communications, 2021, 57, 4642-4645.   | 4.1 | 11        |
| 916 | Synthesis and Characterization of Chiral Conducting Polymers Based on Polypyrrole. Australian<br>Journal of Chemistry, 1997, 50, 939.   | 0.9 | 11        |
| 917 | Precision Medicine in Ossiculoplasty. Otology and Neurotology, 2021, 42, e177-e185.   | 1.3 | 11        |
| 918 | Comparison of the In Vitro and In Vivo Electrochemical Performance of Bionic Electrodes.<br>Micromachines, 2022, 13, 103.   | 2.9 | 11        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 919 | Filter washing, a simple means of reducing blank values and variability in trace metal environmental<br>samples. Journal of Environmental Science and Health Part A, Environmental Science and Engineering,<br>1977, 12, 493-506. | 0.1 | 10        |
| 920 | Investigations into the Use of Poly (3-Methylpyrrole-4-Carboxylic Acid) Coated Silica as a<br>Chromatographic Stationary Phase. Journal of Liquid Chromatography and Related Technologies, 1993,<br>16, 1023-1044.                | 1.0 | 10        |
| 921 | Factors affecting the electrochemical formation of polypyrrole-nitrate colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 137, 295-300.  | 4.7 | 10        |
| 922 | Facile Synthesis of a Chiral Ionic Liquid Derived from 1-Phenylethylamine. Australian Journal of Chemistry, 2007, 60, 64.   | 0.9 | 10        |
| 923 | Carbon-Nanotube Biofiber Microelectrodes. Journal of the Electrochemical Society, 2009, 156, P117.  | 2.9 | 10        |
| 924 | Solid State Photochemistry of Novel Composites Containing Luminescent Metal Centers and Poly(2-methoxyaniline-5-sulfonic acid). Journal of Physical Chemistry B, 2009, 113, 7443-7448.  | 2.6 | 10        |
| 925 | 6 GHz microstrip patch antennas with PEDOT and polypyrrole conducting polymers. , 2010, , .   |     | 10        |
| 926 | Inkjetâ€Printed Alginate Microspheres as Additional Drug Carriers for Injectable Hydrogels. Advances in<br>Polymer Technology, 2016, 35, 439-446.   | 1.7 | 10        |
| 927 | Stem Cell Bioprinting: Functional 3D Neural Miniâ€Tissues from Printed Gelâ€Based Bioink and Human<br>Neural Stem Cells (Adv. Healthcare Mater. 12/2016). Advanced Healthcare Materials, 2016, 5, 1428-1428.                      | 7.6 | 10        |
| 928 | Effective area and charge density of dextran sulphate doped PEDOT modified electrodes. Synthetic Metals, 2016, 220, 394-401.  | 3.9 | 10        |
| 929 | A novel and facile approach to fabricate a conductive and biomimetic fibrous platform with sub-micron and micron features. Journal of Materials Chemistry B, 2016, 4, 1056-1063.  | 5.8 | 10        |
| 930 | Functional Electro-materials Based on Ferricyanide Redox-active Ionic Liquids. Electrochimica Acta, 2017, 245, 934-940.   | 5.2 | 10        |
| 931 | Towards thermally stable high performance lithium-ion batteries: the combination of a phosphonium cation ionic liquid and a 3D porous molybdenum disulfide/graphene electrode. Chemical Communications, 2018, 54, 5338-5341.      | 4.1 | 10        |
| 932 | Solid‣tate Poly(ionic liquid) Gels for Simultaneous CO <sub>2</sub> Adsorption and Electrochemical Reduction. Energy Technology, 2018, 6, 702-709.  | 3.8 | 10        |
| 933 | A bioprinting printing approach to regenerate cartilage for microtia treatment. Bioprinting, 2018, 12, e00031.  | 5.8 | 10        |
| 934 | Data on the bipolar electroactive conducting polymers for wireless cell stimulation. Data in Brief, 2020, 33, 106406.   | 1.0 | 10        |
| 935 | A Selfâ€Assembled CO <sub>2</sub> Reduction Electrocatalyst: Posyâ€Bouquetâ€Shaped Goldâ€Polyaniline<br>Coreâ€Shell Nanocomposite. ChemSusChem, 2020, 13, 5023-5030.  | 6.8 | 10        |
| 936 | Additive manufacturing enables personalised porous high-density polyethylene surgical implant<br>manufacturing with improved tissue and vascular ingrowth. Applied Materials Today, 2021, 22, 100965.                             | 4.3 | 10        |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 937 | Unzipping chemical bonds of non-layered bulk structures to form ultrathin nanocrystals. Matter, 2021, 4, 955-968.  | 10.0 | 10        |
| 938 | Polyisocyanate bridged environmental graphene/epoxy nanocomposite coatings with excellent anticorrosion performance. Progress in Organic Coatings, 2021, 153, 106167.  | 3.9  | 10        |
| 939 | 3D Bioprinting and Differentiation of Primary Skeletal Muscle Progenitor Cells. Methods in<br>Molecular Biology, 2020, 2140, 229-242.  | 0.9  | 10        |
| 940 | Experimental Infection of Pacific Island Mollusks with Angiostrongylus Cantonensis. American<br>Journal of Tropical Medicine and Hygiene, 1969, 18, 13-19.   | 1.4  | 10        |
| 941 | Current status of membraneless water electrolysis cells. Current Opinion in Electrochemistry, 2022, 32, 100881.  | 4.8  | 10        |
| 942 | Electrical stimulation to human dermal papilla cells for hair regenerative medicine. Journal of<br>Bioscience and Bioengineering, 2022, 133, 281-290.  | 2.2  | 10        |
| 943 | Inherently Conducting Polymers —A Versatile and Adaptive Chemical Sensing System. Journal of<br>Intelligent Material Systems and Structures, 1993, 4, 123-128.   | 2.5  | 9         |
| 944 | Redox Chromatography Using Polypyrrole as a Stationary Phase. Journal of Liquid Chromatography<br>and Related Technologies, 1996, 19, 2457-2476.   | 1.0  | 9         |
| 945 | Communicative Polymers: The Basis for Development of Intelligent Material. Journal of Chemical Education, 1997, 74, 703.   | 2.3  | 9         |
| 946 | Optically active polypyrroles containing chiral dopant anions. Australian Journal of Chemistry, 2000, 53, 83.  | 0.9  | 9         |
| 947 | Scanning Vibrating Electrode Studies of Electroactive Conducting Polymers on Active Metals. ACS<br>Symposium Series, 2003, , 228-253.  | 0.5  | 9         |
| 948 | Electropolymerised acrylic coatings for polymer-metal adhesion enhancement. Journal of Adhesion<br>Science and Technology, 2003, 17, 1403-1423.  | 2.6  | 9         |
| 949 | Asymmetric proliferation with optically active polyanilines. Chemical Communications, 2005, , 4539.  | 4.1  | 9         |
| 950 | Poly(2-methoxyaniline-5-sulfonic Acid) - Surfactant Complexes and Their Redox and Solvatochromic<br>Behaviour. Australian Journal of Chemistry, 2007, 60, 159.   | 0.9  | 9         |
| 951 | Preparation of Low Loading Pt/C Catalyst by Carbon Xerogel Method for Ethanol Electrooxidation.<br>Catalysis Letters, 2008, 122, 111-114.  | 2.6  | 9         |
| 952 | Functionalising carbon nanotubes. International Journal of Nanotechnology, 2008, 5, 331.   | 0.2  | 9         |
| 953 | Attractive and Repulsive Interactions Originating from Lateral Nanometer Variations in Surface<br>Charge/Energy of Hyaluronic Acid and Chondroitin Sulfate Doped Polypyrrole Observed Using Atomic<br>Force Microscopy. Journal of Physical Chemistry B, 2012, 116, 13498-13505. | 2.6  | 9         |
| 954 | Synthesis and optimization of PEDOT:PSS based ink for printing nanoarrays using Dip-Pen<br>Nanolithography. Synthetic Metals, 2013, 181, 64-71.  | 3.9  | 9         |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 955 | Optical switching of protein interactions on photosensitive–electroactive polymers measured by atomic force microscopy. Journal of Materials Chemistry B, 2013, 1, 2162.   | 5.8  | 9         |
| 956 | Preparation and characterisation of graphene composite hydrogels. Synthetic Metals, 2013, 168, 36-42.  | 3.9  | 9         |
| 957 | Novel reversible and switchable electrolytes based on magneto-rheology. Scientific Reports, 2015, 5, 15663.  | 3.3  | 9         |
| 958 | Flexible Tuning of Unsaturated β ubstituents on Zn Porphyrins: A Synthetic, Spectroscopic and<br>Computational Study. Chemistry - A European Journal, 2015, 21, 15622-15632.   | 3.3  | 9         |
| 959 | Coiled polymeric growth factor gradients for multi-luminal neural chemotaxis. Brain Research, 2015, 1619, 72-83.   | 2.2  | 9         |
| 960 | 3D Printed Edible Hydrogel Electrodes. MRS Advances, 2016, 1, 527-532.   | 0.9  | 9         |
| 961 | In vivo biocompatibility of porous and non-porous polypyrrole based trilayered actuators. Journal of<br>Materials Science: Materials in Medicine, 2017, 28, 172.   | 3.6  | 9         |
| 962 | 3D Printed Electrodes for Improved Gas Reactant Transport for Electrochemical Reactions. 3D Printing and Additive Manufacturing, 2018, 5, 215-219.   | 2.9  | 9         |
| 963 | Patterning and process parameter effects in 3D suspension near-field electrospinning of nanoarrays.<br>Nanotechnology, 2019, 30, 495301.   | 2.6  | 9         |
| 964 | 3D textile structures with integrated electroactive electrodes for wearable electrochemical sensors.<br>Journal of the Textile Institute, 2020, 111, 1587-1595.  | 1.9  | 9         |
| 965 | Inherently Conducting Polymer Nanostructures. Journal of Nanoscience and Nanotechnology, 2002, 2, 441-451.   | 0.9  | 9         |
| 966 | Porosity of Bleb Capsule declines rapidly with Fluid Challenge. Journal of Current Glaucoma Practice, 2016, 10, 91-96.   | 0.5  | 9         |
| 967 | Matured Myofibers in Bioprinted Constructs with In Vivo Vascularization and Innervation. Gels, 2021, 7, 171.   | 4.5  | 9         |
| 968 | A Non-Noble Metal Catalyst-Based Electrolyzer for Efficient CO <sub>2</sub> -to-Formate Conversion.<br>ACS Sustainable Chemistry and Engineering, 2021, 9, 16394-16402.  | 6.7  | 9         |
| 969 | Mouse pox threat. Science, 1981, 211, 438-438.   | 12.6 | 8         |
| 970 | Invetigations into the use of an auxiliary metal ion for indirect amperometri detection.<br>Chromatographia, 1988, 25, 162-166.  | 1.3  | 8         |
| 971 | Instrumentation for 7-day continuous cycle monitoring of metals with automated on-line sample preparation, high-performance liquid chromatography, and electrochemical detection. Analytical Chemistry, 1988, 60, 1357-1360. | 6.5  | 8         |
| 972 | Research and development topics in Analytical Chemistry. Analytical Proceedings, 1989, 26, 2.  | 0.4  | 8         |

| #   | Article  | IF   | CITATIONS |
|-----|--|------|-----------|
| 973 | Determination of anionic surfactants by bis(ethylenediamine)copper(II) extraction and anodic stripping voltammetry. Analytica Chimica Acta, 1991, 244, 197-200.  | 5.4  | 8         |
| 974 | Factors influencing the rate of the electrochemical oxidation of heterocyclic monomers. Polymer International, 1992, 27, 255-260.  | 3.1  | 8         |
| 975 | Electrochemical Preparation of Conducting Polymer Colloids. Synthetic Metals, 1997, 84, 361-362.   | 3.9  | 8         |
| 976 | Development of Conducting Polymer Coated Screen-Printed Sensors for Measurement of Volatile<br>Compounds. Electroanalysis, 2002, 14, 575.  | 2.9  | 8         |
| 977 | Electrohydrodynamic synthesis of polypyrrole coated polyurethane colloidal dispersions using the electrocatalyst Tiron. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 207, 1-12. | 4.7  | 8         |
| 978 | Preparation and characterization of a polyaniline/poly(butyl acrylate-vinyl acetate) composite as a novel conducting polymer composite. Journal of Applied Polymer Science, 2003, 90, 2525-2531.           | 2.6  | 8         |
| 979 | The Effect of Added Water on the Conformation of Optically Active Polyaniline in Organic Solvents.<br>Synthetic Metals, 2003, 135-136, 241-242.  | 3.9  | 8         |
| 980 | Electrodeposition and Characterisation of Polypyrroles Containing Sulfonated Carbon Nanotubes.<br>Journal of Nanoscience and Nanotechnology, 2007, 7, 3487-3494.   | 0.9  | 8         |
| 981 | Electrochemical co-deposition of Tin+ phases with gold in ionic liquids. Physical Chemistry Chemical Physics, 2008, 10, 5863.  | 2.8  | 8         |
| 982 | Wearable technology for the real-time analysis of sweat during exercise. , 2008, , .   |      | 8         |
| 983 | Ionic liquid as electrolyte in a self-powered controlled release system. Sensors and Actuators B:<br>Chemical, 2009, 141, 452-457.   | 7.8  | 8         |
| 984 | Nanoscale platinum printing on insulating substrates. Nanotechnology, 2013, 24, 505301.  | 2.6  | 8         |
| 985 | Use of conducting polymers to facilitate neurite branching in schizophrenia-related neuronal development. Biomaterials Science, 2016, 4, 1244-1251.  | 5.4  | 8         |
| 986 | Choosing the right nanoparticle size – designing novel ZnO electrode architectures for efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2017, 5, 7516-7522.                         | 10.3 | 8         |
| 987 | Tuning the structure of three dimensional nanostructured molybdenum disulfide/nitrogen-doped carbon composite for high lithium storage. Electrochimica Acta, 2018, 291, 197-205.                           | 5.2  | 8         |
| 988 | Charge Injection from Chronoamperometry of Platinum Electrodes for Bionic Devices. Journal of the Electrochemical Society, 2018, 165, G3033-G3041.   | 2.9  | 8         |
| 989 | A contactless approach for monitoring the mechanical properties of swollen hydrogels. Soft Matter, 2018, 14, 7228-7236.  | 2.7  | 8         |
| 990 | Electrochemical methods for analysing and controlling charge transfer at the electrode–tissue interface. Current Opinion in Electrochemistry, 2019, 16, 143-148.   | 4.8  | 8         |

| #    | Article  | IF   | CITATIONS |
|------|--|------|-----------|
| 991  | Insights into the Electron Transfer Kinetics, Capacitance and Resistance Effects of Implantable<br>Electrodes Using Fourier Transform AC Voltammetry on Platinum. Journal of the Electrochemical<br>Society, 2019, 166, G131-G140. | 2.9  | 8         |
| 992  | A microvalve cell printing technique using riboflavin photosensitizer for selective cell patterning onto a retinal chip. Bioprinting, 2020, 20, e00097.  | 5.8  | 8         |
| 993  | 3D Printed Sugar‧ensing Hydrogels. Macromolecular Rapid Communications, 2020, 41, e1900610.  | 3.9  | 8         |
| 994  | Conducting Polymer Fibers. , 2015, , 31-62.  |      | 8         |
| 995  | Development of a Platelet Lysate–Based Printable, Transparent Biomaterial With Regenerative<br>Potential for Epithelial Corneal Injuries. Translational Vision Science and Technology, 2020, 9, 40.                                | 2.2  | 8         |
| 996  | All-polymer wearable thermoelectrochemical cells harvesting body heat. IScience, 2021, 24, 103466.   | 4.1  | 8         |
| 997  | MALONALDEHYDE IN CERVICA MUCUS ASSOCIATED WITH COPPER IUD. Lancet, The, 1980, 315, 1087-1088.  | 13.7 | 7         |
| 998  | Dispersed mercury microelectrodes using non-conducting polymer coatings. Analytica Chimica Acta, 1990, 235, 451-455.   | 5.4  | 7         |
| 999  | A new polymeric mercury thin-film electrode. Electroanalysis, 1992, 4, 97-105.   | 2.9  | 7         |
| 1000 | Electropolymerization of 4-(3-pyrrolyl)-4-oxobutyric acid by in situ potentiodynamic pre-reduction/oxidation. Polymer, 1993, 34, 2684-2686.  | 3.8  | 7         |
| 1001 | Investigation of conducting polymer materials for sensor array. Synthetic Metals, 2003, 137, 1445-1446.  | 3.9  | 7         |
| 1002 | Actuation behaviour of polyaniline films and tubes prepared by the phase inversion technique. Smart<br>Materials and Structures, 2007, 16, 1549-1554.  | 3.5  | 7         |
| 1003 | Immobilisation of Fully Sulfonated Polyaniline on Nanostructured Calcium Silicate. Journal of Nanoscience and Nanotechnology, 2007, 7, 4303-4310.  | 0.9  | 7         |
| 1004 | Electrochemical pneumatic actuators utilising carbon nanotube electrodes. Sensors and Actuators B:<br>Chemical, 2009, 138, 48-54.  | 7.8  | 7         |
| 1005 | Actuated Pins for Braille Displays. , 0, , 265-277.  |      | 7         |
| 1006 | Nafion-Doped Polypyrrole as a Supercapacitor Electrode in Ionic Liquid. Molecular Crystals and Liquid Crystals, 2010, 520, 262/[538]-266/[542].  | 0.9  | 7         |
| 1007 | Colour tunable electrochromic devices based on PProDOT-(Hx)2 and PProDOT-(EtHx)2 polymers.<br>Journal of Materials Chemistry C, 2013, 1, 7430.   | 5.5  | 7         |
| 1008 | A simple and versatile method for microencapsulation of anti-epileptic drugs for focal therapy of epilepsy. Journal of Materials Chemistry B, 2015, 3, 7255-7261.  | 5.8  | 7         |

| #    | Article   | IF    | CITATIONS |
|------|---|-------|-----------|
| 1009 | Correlation of Impedance and Effective Electrode Area of Dextran Sulfate Doped PEDOT Modified Electrodes. Journal of the Electrochemical Society, 2016, 163, H534-H540.                                 | 2.9   | 7         |
| 1010 | A novel modified terpyridine derivative as a model molecule to study kinetic-based optical spectroscopic ion determination methods. Synthetic Metals, 2016, 219, 101-108.                               | 3.9   | 7         |
| 1011 | A direct 3D suspension near-field electrospinning technique for the fabrication of polymer nanoarrays. Nanotechnology, 2019, 30, 195301.  | 2.6   | 7         |
| 1012 | Implementing Obstetrics Quality Improvement, Driven by Medico-legal Risk, is Associated With<br>Improved Workplace Culture. Journal of Obstetrics and Gynaecology Canada, 2020, 42, 38-47.e5.           | 0.7   | 7         |
| 1013 | Energy materials for transient power sources. MRS Bulletin, 2020, 45, 121-128.  | 3.5   | 7         |
| 1014 | Ethical and regulatory considerations for surgeons as consumers and creators of threeâ€dimensional printed medical devices. ANZ Journal of Surgery, 2020, 90, 1477-1481.                                | 0.7   | 7         |
| 1015 | Fused filament fabrication 3D printed polylactic acid electroosmotic pumps. Lab on A Chip, 2021, 21, 3338-3351.   | 6.0   | 7         |
| 1016 | Electrochemiluminescence at 3D Printed Titanium Electrodes. Frontiers in Chemistry, 2021, 9, 662810.  | 3.6   | 7         |
| 1017 | Photoelectrochemical Cell Study on Closely Arranged Vertical Nanorod Bundles of CdSe and Zn<br>doped CdSe Films. Bulletin of the Korean Chemical Society, 2010, 31, 2185-2189.                          | 1.9   | 7         |
| 1018 | Effect of Graphene Addition on Polycaprolactone Scaffolds Fabricated Using Melt-Electrowriting.<br>Polymers, 2022, 14, 319.   | 4.5   | 7         |
| 1019 | 3D-Printed Coaxial Hydrogel Patches with Mussel-Inspired Elements for Prolonged Release of Gemcitabine. Polymers, 2021, 13, 4367.   | 4.5   | 7         |
| 1020 | Development of a customised 3D printer as a potential tool for direct printing of patient-specific facial prosthesis. International Journal of Advanced Manufacturing Technology, 2022, 120, 7143-7155. | 3.0   | 7         |
| 1021 | Laser Sintering Approaches for Bone Tissue Engineering. Polymers, 2022, 14, 2336.   | 4.5   | 7         |
| 1022 | RE: "ASSOCIATION OF CATS AND TOXOPLASMOSIS― American Journal of Epidemiology, 1981, 113, 198-199  | ).3.4 | 6         |
| 1023 | Separation of metal ions using in-situ complexation chromatography with ethyl xanthate and 1,10 phenanthroline as ligands. Chromatographia, 1986, 22, 275-277.  | 1.3   | 6         |
| 1024 | Evaluation of flow-through photochemical reactors for liquid chromatography with electrochemical detection. Electroanalysis, 1989, 1, 347-351.  | 2.9   | 6         |
| 1025 | Resistometry: A new characterization technique for conducting polymers. Solid State Ionics, 1994, 70-71, 692-696.   | 2.7   | 6         |
| 1026 | The Use of Cyclic Voltammetry and Principal Component Analysis for the Rapid Evaluation of Selectivity of Conductive Polymer Sensors. Electroanalysis, 2000, 12, 89-95.                                 | 2.9   | 6         |

| #    | Article   | IF   | CITATIONS |
|------|---|------|-----------|
| 1027 | Metal separation using polypyrroles containing chelating agents. Synthetic Metals, 2001, 119, 373-374.  | 3.9  | 6         |
| 1028 | Directed electrochemical deposition of conducting polymer filament on screen-printed array.<br>Synthetic Metals, 2003, 135-136, 29-30.  | 3.9  | 6         |
| 1029 | Gold recovery using fabrics coated with conducting polymers. Synthetic Metals, 2003, 135-136, 35-36.  | 3.9  | 6         |
| 1030 | Enhancement of polymer electronics via surface states on highly doped polymeric anodes. Journal<br>Physics D: Applied Physics, 2004, 37, 165-170.   | 2.8  | 6         |
| 1031 | Fabric-based fluid handling platform with integrated analytical capability. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6451.        | 0.5  | 6         |
| 1032 | Fabrication of chemical sensors using inkjet printing and application to gas detection. , 2008, , .   |      | 6         |
| 1033 | Elastic conducting carbon nanotube-laden SIBS fibers. , 2010, , .   |      | 6         |
| 1034 | Measurement of Free Cu Ion Activity in Seawater Using a Passive-Equilibrium Sonic-Assisted Free Ion<br>Recorder (SAFIR). Environmental Science & Technology, 2011, 45, 5660-5667.             | 10.0 | 6         |
| 1035 | Charge storage in carbon nanotube–TiO2 hybrid nanoparticles. Synthetic Metals, 2012, 162, 650-654.  | 3.9  | 6         |
| 1036 | The effect of dopant pKa and the solubility of corresponding acid on the electropolymerisation of pyrrole. Electrochimica Acta, 2013, 92, 276-284.  | 5.2  | 6         |
| 1037 | Ionic Liquid Solvated Polymer Networks for Stretchable Electronics. Polymer-Plastics Technology and Engineering, 2015, 54, 310-314.   | 1.9  | 6         |
| 1038 | A simple one step process for enhancement of titanium foil dye sensitised solar cell anodes. Journal of Materials Chemistry A, 2015, 3, 3266-3270.  | 10.3 | 6         |
| 1039 | 20 Year Review of Three-dimensional Tools in Otology: Challenges of Translation and Innovation.<br>Otology and Neurotology, 2020, 41, 589-595.  | 1.3  | 6         |
| 1040 | A 3D printed graphene electrode device for enhanced and scalable stem cell culture, osteoinduction and tissue building. Materials and Design, 2021, 201, 109473.                              | 7.0  | 6         |
| 1041 | Hollowâ€Fiber Melt Electrowriting Using a 3Dâ€Printed Coaxial Nozzle. Advanced Engineering Materials,<br>2022, 24, 2100750.   | 3.5  | 6         |
| 1042 | Invitro and Invivo Study of PCL-Hydrogel Scaffold to Advance Bioprinting Translation in Microtia<br>Reconstruction. Journal of Craniofacial Surgery, 2020, Publish Ahead of Print, 1931-1936. | 0.7  | 6         |
| 1043 | Wearable Photoâ€Thermoâ€Electrochemical Cells (PTECs) Harvesting Solar Energy. Macromolecular Rapid<br>Communications, 2022, 43, e2200001.  | 3.9  | 6         |
| 1044 | Variation in Hydrogel Formation and Network Structure for Telo-, Atelo- and Methacrylated<br>Collagens. Polymers, 2022, 14, 1775.   | 4.5  | 6         |

| #                                    | ARTICLE  | IF   | CITATIONS                  |
|--------------------------------------|--|--|----------------------------|
| 1045                                 | Chemical polymerization of 3-methylpyrrole-4-carboxylic acid. Polymer, 1993, 34, 2007-2010.  | 3.8  | 5                          |
| 1046                                 | Separation of Small Molecules in the Presence of Proteins Using Conducting Polymer Stationary Phases. Journal of Liquid Chromatography and Related Technologies, 1993, 16, 95-108.   | 1.0  | 5                          |
| 1047                                 | Flux of surface-active organic complexes of copper to the air-sea interface in coastal marine waters.<br>Journal of Geophysical Research, 1996, 101, 12017-12026.  | 3.3  | 5                          |
| 1048                                 | Dynamic Polymeric Membrane Structures for Separation of Proteins. Journal of Intelligent Material Systems and Structures, 1997, 8, 1052-1058.  | 2.5  | 5                          |
| 1049                                 | Synthesis and Polymerization of Chiral Acrylamidosulfonic Acids. Macromolecules, 1998, 31, 8737-8743.  | 4.8  | 5                          |
| 1050                                 | Electrohydrodynamic polymerisation of water-soluble poly((4-(3-pyrrolyl))butane sulfonate).<br>Polymer, 2000, 41, 4065-4076.   | 3.8  | 5                          |
| 1051                                 | Evaluation of solid polymer electrolytes for use in conducting polymer/nanotube actuators. , 2000, , .   |  | 5                          |
| 1052                                 | Transport of gold across composite poly(bithiophene) membranes. Synthetic Metals, 2001, 119, 357-358.  | 3.9  | 5                          |
| 1053                                 | <title>Electrochemically driven actuators from conducting polymers, hydrogels, and carbon nanotubes</title> . , 2001, , .  |  | 5                          |
| 1054                                 | Electroactive polymer actuator devices (EAPAD). , 2003, , .  |  | 5                          |
| 1055                                 |  |  |                            |
|                                      | Summer formation of a high-nutrient low-oxygen pool in Cape Cod Bay, USA. Journal of Geophysical Research, 2007, 112, .  | 3.3  | 5                          |
| 1056                                 | Summer formation of a high-nutrient low-oxygen pool in Cape Cod Bay, USA. Journal of Geophysical Research, 2007, 112, .<br>Platinum recovery using inherently conducting polymers and common fabrics. Fibers and Polymers, 2007, 8, 463-469.   | 3.3<br>2.1   | 5                          |
| 1056<br>1057                         | Summer formation of a high-nutrient low-oxygen pool in Cape Cod Bay, USA. Journal of Geophysical<br>Research, 2007, 112, .Platinum recovery using inherently conducting polymers and common fabrics. Fibers and Polymers,<br>2007, 8, 463-469.The optimum functionalization of carbon nanotube/ferritin composites. Smart Materials and<br>Structures, 2008, 17, 045029.   | 3.3<br>2.1<br>3.5  | 5<br>5<br>5                |
| 1056<br>1057<br>1058                 | Summer formation of a high-nutrient low-oxygen pool in Cape Cod Bay, USA. Journal of Geophysical<br>Research, 2007, 112, .Platinum recovery using inherently conducting polymers and common fabrics. Fibers and Polymers,<br>2007, 8, 463-469.The optimum functionalization of carbon nanotube/ferritin composites. Smart Materials and<br>Structures, 2008, 17, 045029.Sensor response of polypyrrole trilayer benders as a function of geometry. Proceedings of SPIE, 2008,<br>, .   | 3.3<br>2.1<br>3.5<br>0.8   | 5<br>5<br>5<br>5           |
| 1056<br>1057<br>1058<br>1059         | Summer formation of a high-nutrient low-oxygen pool in Cape Cod Bay, USA. Journal of Geophysical<br>Research, 2007, 112, .Platinum recovery using inherently conducting polymers and common fabrics. Fibers and Polymers,<br>2007, 8, 463-469.The optimum functionalization of carbon nanotube/ferritin composites. Smart Materials and<br>Structures, 2008, 17, 045029.Sensor response of polypyrrole trilayer benders as a function of geometry. Proceedings of SPIE, 2008,<br>,Direct Growth of Carbon Nanotubes onto Titanium Dioxide Nanoparticles. Journal of Nanoscience<br>and Nanotechnology, 2009, 9, 955-959.   | 3.3<br>2.1<br>3.5<br>0.8<br>0.9  | 5<br>5<br>5<br>5<br>5      |
| 1056<br>1057<br>1058<br>1059<br>1060 | Summer formation of a high-nutrient low-oxygen pool in Cape Cod Bay, USA. Journal of Geophysical Research, 2007, 112, .         Platinum recovery using inherently conducting polymers and common fabrics. Fibers and Polymers, 2007, 8, 463-469.         The optimum functionalization of carbon nanotube/ferritin composites. Smart Materials and Structures, 2008, 17, 045029.         Sensor response of polypyrrole trilayer benders as a function of geometry. Proceedings of SPIE, 2008, , .         Direct Growth of Carbon Nanotubes onto Titanium Dioxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 955-959. <i>lin vivo</i> biocompatibility and <i>in vitro</i> biocompatibility and <i>in vitro</i> characterization of polyâ€lactideâ€ <i>co</i> â€glycolide structures containing levetiracetam, for the treatment of epilepsy. Journal of Biomedical Materials Research - Part A, 2012, 100A, 424-431.  | <ul> <li>3.3</li> <li>2.1</li> <li>3.5</li> <li>0.8</li> <li>0.9</li> <li>4.0</li> </ul>               | 5<br>5<br>5<br>5<br>5<br>5 |
| 1056<br>1057<br>1058<br>1059<br>1060 | Summer formation of a high-nutrient low-oxygen pool in Cape Cod Bay, USA. Journal of Geophysical Research, 2007, 112, .         Platinum recovery using inherently conducting polymers and common fabrics. Fibers and Polymers, 2007, 8, 463-469.         The optimum functionalization of carbon nanotube/ferritin composites. Smart Materials and Structures, 2008, 17, 045029.         Sensor response of polypyrrole trilayer benders as a function of geometry. Proceedings of SPIE, 2008, ,         Direct Growth of Carbon Nanotubes onto Titanium Dioxide Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 955-959. <i>\i&gt;In vivo</i> i> biocompatibility and <i>in vitro</i> characterization of polyâ€lactideâ€ <i>co</i> â€glycolide structures containing levetiracetam, for the treatment of epilepsy. Journal of Biomedical Materials Research - Part A, 2012, 100A, 424+431.         Graphene Oxide: Scalable One-Step Wet-Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles (Adv. Funct. Mater. 43/2013). Advanced Functional Materials, 2013, 23, 5344-5344. | <ul> <li>3.3</li> <li>2.1</li> <li>3.5</li> <li>0.8</li> <li>0.9</li> <li>4.0</li> <li>14.9</li> </ul> | 5<br>5<br>5<br>5<br>5<br>5 |

| #    | Article   | IF  | CITATIONS |
|------|---|-----|-----------|
| 1063 | Development of a Coaxial Melt Extrusion Printing process for specialised composite bioscaffold fabrication. , 2013, , .   |     | 5         |
| 1064 | Automated quantification of neurite outgrowth orientation distributions on patterned surfaces.<br>Journal of Neural Engineering, 2014, 11, 046006.  | 3.5 | 5         |
| 1065 | Decoloration rates of a photomerocyanine dye as a visual probe into hydrogen bonding interactions.<br>Chemical Communications, 2015, 51, 4815-4818.   | 4.1 | 5         |
| 1066 | Determination of Bleb Capsule Porosity With an Experimental Glaucoma Drainage Device and<br>Measurement System. JAMA Ophthalmology, 2015, 133, 549.   | 2.5 | 5         |
| 1067 | Correlation of impedance and effective electrode area of chondroitin sulphate doped PEDOT modified electrodes. Synthetic Metals, 2016, 222, 338-343.  | 3.9 | 5         |
| 1068 | Three-dimensional neuronal cell culture: in pursuit of novel treatments for neurodegenerative disease. MRS Communications, 2017, 7, 320-331.  | 1.8 | 5         |
| 1069 | Magnetorheological technology for fabricating tunable solid electrolyte with enhanced conductivity and mechanical property. Smart Materials and Structures, 2018, 27, 035022.                                 | 3.5 | 5         |
| 1070 | Variation and Likeness in Ambient Artistic Portraiture. Perception, 2018, 47, 585-607.  | 1.2 | 5         |
| 1071 | Quantitative characterisation of conductive fibers by capacitive coupling. Analyst, The, 2018, 143, 215-223.  | 3.5 | 5         |
| 1072 | Mechanism and kinetics of electrocarboxylation of aromatic ketones in ionic liquid. Journal of<br>Electroanalytical Chemistry, 2018, 819, 469-473.  | 3.8 | 5         |
| 1073 | Effect of electrochemical oxidation and reduction on cell de-adhesion at the conducting polymer–live cell interface as revealed by single cell force spectroscopy. Biointerphases, 2018, 13, 041004.          | 1.6 | 5         |
| 1074 | Reference Phantom Method for Ultrasonic Imaging of Thin Dynamic Constructs. Ultrasound in<br>Medicine and Biology, 2021, 47, 2388-2403.   | 1.5 | 5         |
| 1075 | Simultaneous Anodic and Cathodic Exfoliation of Graphite Electrodes in an Aqueous Solution of<br>Inorganic Salt. ChemElectroChem, 2021, 8, 3168-3173.   | 3.4 | 5         |
| 1076 | Current and future perspectives on biomaterials for segmental mandibular defect repair.<br>International Journal of Polymeric Materials and Polymeric Biomaterials, 2023, 72, 725-737.                        | 3.4 | 5         |
| 1077 | Standardised quantitative ultrasound imaging approach for the contact-less three-dimensional<br>analysis of neocartilage formation in hydrogel-based bioscaffolds. Acta Biomaterialia, 2022, 147,<br>129-146. | 8.3 | 5         |
| 1078 | Data on enhanced wireless cell stimulation using soft and improved bipolar electroactive conducting polymer templates. Data in Brief, 2022, 43, 108393.   | 1.0 | 5         |
| 1079 | Transmission of toxoplasmosis by tachyzoites: Possibility and probability of a hypothesis. Medical Hypotheses, 1979, 5, 529-532.  | 1.5 | 4         |
| 1080 | Application of pulsed photoelectrochemical detection. Journal of Electroanalytical Chemistry, 1992, 328, 195-208.   | 3.8 | 4         |

| #    | Article  | IF   | CITATIONS |
|------|--|------|-----------|
| 1081 | Interfacial analysis $\hat{a} \in$ " techniques for the study and characterisation of advanced materials. TrAC -<br>Trends in Analytical Chemistry, 1993, 12, 94-100.  | 11.4 | 4         |
| 1082 | Scratching the Surface of Intelligent Materials: Characterisation Methods for Conducting Polymer<br>Films. Journal of Intelligent Material Systems and Structures, 1994, 5, 605-611.   | 2.5  | 4         |
| 1083 | Novel Secondary Dopants for Camphorsulfonic Acid Doped Polyaniline Emeraldine Salts. Australian<br>Journal of Chemistry, 2002, 55, 253.  | 0.9  | 4         |
| 1084 | Bionic Ears: Their Development and Future Advances Using Neurotrophins and Inherently Conducting Polymers. Applied Bionics and Biomechanics, 2004, 1, 67-89.   | 1.1  | 4         |
| 1085 | Use of inherently conducting polymers and pulsed amperometry in flow injection analysis to detect oligonucleotides. Analyst, The, 2004, 129, 585.  | 3.5  | 4         |
| 1086 | Aligned/micropatterned carbon nanotube arrays: surface functionalization and electrochemical sensing. , 2005, , .  |      | 4         |
| 1087 | Hydrogen generation using PPy-FMS modified PVDF membrane and other substrates. Synthetic Metals, 2005, 154, 69-72.   | 3.9  | 4         |
| 1088 | Electrochemical actuation properties of a novel solution-processable polythiophene. Electrochimica Acta, 2007, 53, 1830-1836.  | 5.2  | 4         |
| 1089 | Electrochemical polarisation and galvanic couple behaviour of the primary phase of 55% Al–Zn<br>coating investigated using band microelectrodes (BME) and band microelectrode arrays. Journal of<br>Solid State Electrochemistry, 2009, 13, 619-631. | 2.5  | 4         |
| 1090 | A novel codoping approach for enhancing the performance of polypyrrole cathode in a bioelectric battery. Carbon, 2014, 80, 691-697.  | 10.3 | 4         |
| 1091 | Electroâ€oxidation and reduction of H <sub>2</sub> on platinum studied by scanning electrochemical microscopy for the purpose of local detection of H <sub>2</sub> evolution. Surface and Interface Analysis, 2015, 47, 1187-1191.                   | 1.8  | 4         |
| 1092 | Dynamic Electrochemical Properties of Extremely Stretchable Electrochemical Capacitor Using<br>Reduced Graphene Oxide/Single-Wall Carbon Nanotubes Composite. Journal of the Electrochemical<br>Society, 2015, 162, A2351-A2355.                     | 2.9  | 4         |
| 1093 | Application of Conducting Polymers in Solar Water-Splitting Catalysis. , 2016, , 223-251.  |      | 4         |
| 1094 | Application of terpyridyl ligands to tune the optical and electrochemical properties of a conducting polymer. RSC Advances, 2018, 8, 29505-29512.  | 3.6  | 4         |
| 1095 | Engineering of perfusable double-layered vascular structures using contraction of<br>spheroid-embedded hydrogel and electrochemical cell detachment. Journal of Bioscience and<br>Bioengineering, 2019, 127, 114-120.                                | 2.2  | 4         |
| 1096 | Effect of monophasic pulsed stimulation on live single cell de-adhesion on conducting polymers with adsorbed fibronectin as revealed by single cell force spectroscopy. Biointerphases, 2019, 14, 021003.  | 1.6  | 4         |
| 1097 | Polyterthiophenes Cross‣inked with Terpyridyl Metal Complexes for Molecular Architecture of Optically and Electrochemically Tunable Materials. ChemElectroChem, 2020, 7, 4453-4459.  | 3.4  | 4         |
| 1098 | Fibrinogen, collagen, and transferrin adsorption to poly(3,4-ethylenedioxythiophene)-xylorhamno-uronic glycan composite conducting polymer biomaterials for wound healing applications. Biointerphases, 2021, 16, 021003.                            | 1.6  | 4         |

| #    | Article   | IF  | CITATIONS |
|------|---|-----|-----------|
| 1099 | Chemically modified electrodes. , 1988, , 132-154.  |     | 4         |
| 1100 | Enhanced wireless cell stimulation using soft and improved bipolar electroactive conducting polymer templates. Applied Materials Today, 2022, 27, 101481.                           | 4.3 | 4         |
| 1101 | Fatal Staphylococcal Septicaemia Following Removal of Tonsils and Adenoids. BMJ: British Medical<br>Journal, 1952, 1, 1231-1231.  | 2.3 | 3         |
| 1102 | A software-controlled system for automatic background correction in inductively coupled plasma-optical emission spectrometry. Analytical Proceedings, 1986, 23, 18.                 | 0.4 | 3         |
| 1103 | Development of a Self Compressed Column System. Journal of Liquid Chromatography and Related Technologies, 1991, 14, 1615-1629.   | 1.0 | 3         |
| 1104 | Photoelectrochemical detection of alcohols. Electroanalysis, 1992, 4, 439-445.  | 2.9 | 3         |
| 1105 | Studies on Poly (3-Octadecyl Pyrrole) Modified Silica as a Reversed Phase HPLC Packing Material.<br>Journal of Liquid Chromatography and Related Technologies, 1994, 17, 1301-1316. | 1.0 | 3         |
| 1106 | Design and evaluation of photoelectrochemical flow cells. Electroanalysis, 1994, 6, 209-215.  | 2.9 | 3         |
| 1107 | Responsive systems based on conducting polymers. , 1997, , .  |     | 3         |
| 1108 | <title>Development of an electronic nose</title> . , 1997, 3242, 164.   |     | 3         |
| 1109 | Effective diffusion of electroactive species on hydrogel modified ultramicroelectrodes. Polymer Gels and Networks, 1998, 6, 383-391.  | 0.6 | 3         |
| 1110 | Electrochemical behaviour of polypyrrole/sulfated poly(β-hydroxyether) composites. Synthetic Metals, 2002, 129, 67-71.  | 3.9 | 3         |
| 1111 | Bionic ears: their development and future advances using neurotrophins and inherently conducting polymers. Applied Bionics and Biomechanics, 2004, 1, 67-89.                        | 1.1 | 3         |
| 1112 | In pursuit of high-force/high-stroke conducting polymer actuators (Invited Paper). , 2005, 5759, 314.   |     | 3         |
| 1113 | An Efficient Bifunctional Electrocatalyst of Methanol Oxidation. Organometallics, 2007, 26, 4860-4862.  | 2.3 | 3         |
| 1114 | Incorporation of dye into conducting polyaniline nanoparticles. Reactive and Functional Polymers, 2007, 67, 173-183.  | 4.1 | 3         |
| 1115 | Electrochemical pH Oscillations of Ethyl Viologen/Ionic Liquid. Langmuir, 2008, 24, 3562-3565.  | 3.5 | 3         |
| 1116 | Molecules with Multiple Personalities: How Switchable Materials Could Revolutionize Chemical Sensing. ECS Transactions, 2009, 19, 199-210.  | 0.5 | 3         |

| #    | Article  | IF   | CITATIONS |
|------|--|------|-----------|
| 1117 | Nerve Repair: A Conductingâ€Polymer Platform with Biodegradable Fibers for Stimulation and Guidance of Axonal Growth (Adv. Mater. 43/2009). Advanced Materials, 2009, 21, .  | 21.0 | 3         |
| 1118 | Development of electrorheological chip and conducting polymer-based sensor. Frontiers of Mechanical Engineering in China, 2009, 4, 393-396.  | 0.4  | 3         |
| 1119 | Synthesis of polypyrrole–Nafion composite films by gas phase electroformation. Synthetic Metals, 2011, 161, 1682-1685.   | 3.9  | 3         |
| 1120 | Microstructures of conducting polymers: Patterning and actuation study. Sensors and Actuators A: Physical, 2013, 197, 106-110.   | 4.1  | 3         |
| 1121 | Integrating a Triplet-triplet Annihilation Up-conversion System to Enhance Dye-sensitized Solar Cell<br>Response to Sub-bandgap Light. Journal of Visualized Experiments, 2014, , 52028.                             | 0.3  | 3         |
| 1122 | Injectable phenytoin loaded polymeric microspheres for the control of temporal lobe epilepsy in rats.<br>Restorative Neurology and Neuroscience, 2015, 33, 823-834.  | 0.7  | 3         |
| 1123 | Antiepileptic Effects of Lacosamide Loaded Polymers Implanted Subdurally in GAERS. International Journal of Polymer Science, 2016, 2016, 1-10.   | 2.7  | 3         |
| 1124 | Cell compatible encapsulation of filaments into 3D hydrogels. Biofabrication, 2016, 8, 025013.   | 7.1  | 3         |
| 1125 | Biodegradable Conducting Polymer Coating to Mitigate Early Stage Degradation of Magnesium in<br>Simulated Biological Fluid: An Electrochemical Mechanistic Study. ChemElectroChem, 2019, 6,<br>4893-4901.            | 3.4  | 3         |
| 1126 | Discussion paper on proposed new regulatory changes on 3D technology: a surgical perspective. ANZ<br>Journal of Surgery, 2019, 89, 117-121.  | 0.7  | 3         |
| 1127 | A simple technique for development of fibres with programmable microsphere concentration gradients for local protein delivery. Journal of Materials Chemistry B, 2019, 7, 556-565.                                   | 5.8  | 3         |
| 1128 | Effects of Interfacial Layers on the Open Circuit Voltage of Polymer/Fullerene Bulk Heterojunction<br>Devices Studied by Charge Extraction Techniques. ACS Applied Materials & Interfaces, 2019, 11,<br>21030-21041. | 8.0  | 3         |
| 1129 | Turning Cotton to Self-Supported Electrocatalytic Carbon Electrode for Highly Efficient Oxygen<br>Reduction. Electrocatalysis, 2020, 11, 317-328.  | 3.0  | 3         |
| 1130 | Redox Polymers for Tissue Engineering. Frontiers in Medical Technology, 2021, 3, 669763.   | 2.5  | 3         |
| 1131 | The length dependent selectivity on aligned Cu nanowires for C1 products from CO2<br>Electroreduction. Electrochimica Acta, 2021, 394, 139099.   | 5.2  | 3         |
| 1132 | Gas Phase Electroformation of Polypyrrole. Journal of Applied Sciences, 2008, 8, 2967-2974.  | 0.3  | 3         |
| 1133 | A Battery Method to Enhance the Degradation of Iron Stent and Regulating the Effect on Living Cells.<br>Small Methods, 2022, 6, .  | 8.6  | 3         |
| 1134 | Modified electrodes. Analytical Proceedings, 1985, 22, 199.  | 0.4  | 2         |

| #    | Article   | IF   | CITATIONS |
|------|---|------|-----------|
| 1135 | Differential pulse voltammetric study of a typical anaerobic adhesive formulation coated on a glassy carbon electrode. Analytica Chimica Acta, 1989, 217, 335-341.                                    | 5.4  | 2         |
| 1136 | Application of Modified Electrodes for Analysis in Flowing Solutions. , 1990, , 283-287.  |      | 2         |
| 1137 | Development of an improved on-line chromatographic monitor with new methods for environmental and process control. Analytica Chimica Acta, 1995, 310, 79-92.  | 5.4  | 2         |
| 1138 | Controlled Continuous Production of Conducting Polypyrrole Tapes I: Process Control<br>Development. Polymers for Advanced Technologies, 1996, 7, 442-450.   | 3.2  | 2         |
| 1139 | Factors affecting the yield of polypyrrole colloids produced under electrohydrodynamic conditions.<br>Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 167, 201-208.           | 4.7  | 2         |
| 1140 | Wireless-based Monitoring of Body Movements Using Wearable Sensors. Materials Research Society<br>Symposia Proceedings, 2006, 920, 1.   | 0.1  | 2         |
| 1141 | Characterisation of titanium dioxide-single walled carbon nanotubes composite fibres prepared by the wet spinning technique. , 2008, , .  |      | 2         |
| 1142 | Controllable Chemical Modification of Polyaniline Nanofibres. Materials Research Society Symposia<br>Proceedings, 2009, 1240, 1.  | 0.1  | 2         |
| 1143 | Electrochemical AFM. Imaging & Microscopy, 2009, 11, 40-43.   | 0.1  | 2         |
| 1144 | In Situ Growth of SnO <sub>2</sub> on Graphene Nanosheets as Advanced Anode Materials for<br>Rechargeable Lithium Batteries. ECS Transactions, 2010, 28, 151-156.                                     | 0.5  | 2         |
| 1145 | Printed hydrogel materials. , 2010, , .   |      | 2         |
| 1146 | Sensors: Strain-Responsive Polyurethane/PEDOT:PSS Elastomeric Composite Fibers with High<br>Electrical Conductivity (Adv. Funct. Mater. 20/2014). Advanced Functional Materials, 2014, 24, 3104-3104. | 14.9 | 2         |
| 1147 | A Method for Systematic Electrochemical and Electrophysiological Evaluation of Neural Recording Electrodes. Journal of Visualized Experiments, 2014, , .  | 0.3  | 2         |
| 1148 | From nanoparticles to fibres: effect of dispersion composition on fibre properties. Journal of Nanoparticle Research, 2015, 17, 1.  | 1.9  | 2         |
| 1149 | A Comparison of Chemical and Electrochemical Synthesis of PEDOT:Dextran Sulphate for<br>Bio-Application. Materials Research Society Symposia Proceedings, 2015, 1717, 19.                             | 0.1  | 2         |
| 1150 | Brain on a bench top. Materials Today, 2016, 19, 124-125.   | 14.2 | 2         |
| 1151 | Real-time Analysis of Electrolytes in Sweat Through a Wearable Sensing Platform. Proceedings (mdpi), 2019, 15, 14.  | 0.2  | 2         |
| 1152 | Modeling the upper airway: A precursor to personalized surgical interventions for the treatment of sleep apnea. Journal of Biomedical Materials Research - Part A, 2020, 108, 1419-1425.              | 4.0  | 2         |

| #    | Article  | IF  | CITATIONS |
|------|--|-----|-----------|
| 1153 | Development of an In Situ Printing System With Human Platelet Lysate-Based Bio-Adhesive to Treat<br>Corneal Perforations. Translational Vision Science and Technology, 2022, 11, 26.       | 2.2 | 2         |
| 1154 | An Electrochemical Reactor for on-Line Oxidation of Chromium (III) to Chromium (VI). Analytical Letters, 1990, 23, 1477-1486.  | 1.8 | 1         |
| 1155 | Corrigendum to "Pulsed amperometric detection of proteins using antibody containing conducting<br>polymers―[Anal. Chim. Acta, 279 (1993) 209–212]. Analytica Chimica Acta, 1995, 302, 131. | 5.4 | 1         |
| 1156 | A simple electropolymerization method for the production of microarray electrodes. Electroanalysis, 1995, 7, 346-349.  | 2.9 | 1         |
| 1157 | Assembly of conducting polymer networks inside hydrogel structures. , 1996, , .  |     | 1         |
| 1158 | Studies of electropolymerisation of sodium 2-(3-thienyl)ethyl sulfonate. Reactive and Functional Polymers, 1997, 34, 27-36.  | 4.1 | 1         |
| 1159 | <title>Applied potential limits for polypyrrole in a two-electrode device</title> . , 1999, 3669, 272.   |     | 1         |
| 1160 | Pneumatic Actuator Response from Carbon Nanotube Sheets. Materials Research Society Symposia<br>Proceedings, 2001, 706, 1.   | 0.1 | 1         |
| 1161 | Using a principle of heterogeneous catalysis to achieve enzyme-like molecular catalysis. Journal of<br>Inorganic Biochemistry, 2003, 96, 153.  | 3.5 | 1         |
| 1162 | Synthesis, modeling, and characterization of conducting polymers. , 2004, 5648, 145.   |     | 1         |
| 1163 | Characterization of conducting-polymer-based bimorph vibration sensors. , 2004, , .  |     | 1         |
| 1164 | Wearable biofeedback systems. , 2006, , 450-470.   |     | 1         |
| 1165 | Electrochemical properties of carbon nanotubes. , 2006, , 297-321.   |     | 1         |
| 1166 | Polypyrrole Based Switchable Filter System. Annual International Conference of the IEEE Engineering<br>in Medicine and Biology Society, 2007, 2007, 4090-1.                                | 0.5 | 1         |
| 1167 | Field-Cycling NMR Relaxometry Study of Dynamic Processes in Conducting Polyaniline. Journal of Physical Chemistry C, 2008, 112, 17688-17693.   | 3.1 | 1         |
| 1168 | Controlled deposition of polymer carbon Nanotube composites through inkjet printing.<br>Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .        | 0.0 | 1         |
| 1169 | Organic bionics. , 2010, , .   |     | 1         |
| 1170 | Printing nanomaterials using non-contact printing. , 2010, , .   |     | 1         |

1170 Printing nanomaterials using non-contact printing. , 2010, , .

| #    | Article  | IF  | CITATIONS |
|------|--|-----|-----------|
| 1171 | Nanostructured electrically conducting biofibres produced using a reactive wet-spinning process. , 2010, , .   |     | 1         |
| 1172 | Cellsnake: A new active contour technique for cell/fibre segmentation. , 2011, , .   |     | 1         |
| 1173 | Stimuli-responsive hydrogel actuators (presentation video). , 2014, , .  |     | 1         |
| 1174 | Reduced Graphene Oxide Carbon Yarn Electrodes for Drug Sensing. Frontiers in Sensors, 2021, 2, .   | 3.3 | 1         |
| 1175 | Interaction of graphene, MnO , and Ca2+ for enhanced biomimetic, â€`bubble-free' oxygen evolution<br>reaction at mild pH. International Journal of Hydrogen Energy, 2021, 46, 28397-28405. | 7.1 | 1         |
| 1176 | Polypyrrole–heparin composites as stimulus-responsive substrates for endothelial cell growth. ,<br>1999, 44, 121.  |     | 1         |
| 1177 | Communicating with Responsive Intelligent Membranes. , 1995, , 709-718.  |     | 1         |
| 1178 | Conducting Polymer Fibers. , 2014, , 1-27.   |     | 1         |
| 1179 | Biomedical Applications of Organic Conducting Polymers. , 2019, , 783-812.   |     | 1         |
| 1180 | Quinone Redox-active Ionic Liquids. Journal of the Mexican Chemical Society, 2017, 59, .   | 0.6 | 1         |
| 1181 | Wearable textile biofeedback systems: are they too intelligent for the wearer?. Studies in Health<br>Technology and Informatics, 2004, 108, 271-7.   | 0.3 | 1         |
| 1182 | Students' Acceptance of Psychiatry. BMJ: British Medical Journal, 1960, 1, 1659-1659.  | 2.3 | 0         |
| 1183 | Clinic Doctors. BMJ: British Medical Journal, 1961, 1, 906-906.  | 2.3 | 0         |
| 1184 | Determination of complexation capacity using coulometric stripping analysis. Chemical Speciation and Bioavailability, 1992, 4, 143-147.  | 2.0 | 0         |
| 1185 | Coaxing Predictable Behaviour from Unstable (Intelligent) Polymer Systems: Processing Dynamic Systems. Journal of Intelligent Material Systems and Structures, 1995, 6, 301-306.           | 2.5 | 0         |
| 1186 | Dynamic polymeric membrane structures. , 1997, , .   |     | 0         |
| 1187 | <title>Development of a novel type of electromembrane sensing system</title> . Proceedings of SPIE, 1997, 3242, 266.   | 0.8 | 0         |
| 1188 | <title>Electroassembly of smart polymer structures (role of polyelectrolytes)</title> . , 1997, 3040, 160.   |     | 0         |

| #    | Article  | IF  | CITATIONS |
|------|--|-----|-----------|
| 1189 | <title>Responsive systems based on conducting polymers</title> . , 1997, , .   |     | 0         |
| 1190 | <title>Development of polypyrrole-based electromechanical actuators</title> ., 1999, , .   |     | 0         |
| 1191 | Conducting polymer-carbon nanotubes composites. , 0, , .   |     | 0         |
| 1192 | <title>Factors influencing performance of electrochemical actuators based on inherently conducting polymers (ICPs)</title> . , 2002, , .         |     | 0         |
| 1193 | Carbon nanotube and polyaniline composite actuators. , 2002, 4935, 26.   |     | 0         |
| 1194 | Carbon Nanotube Composites as Efficient Charge Transport Media in Organic Optoelectronic Devices.<br>, 2003, 4876, 338.                          |     | 0         |
| 1195 | Gas concentration control by directly linking sensor to actuator. , 2003, 5051, 509.   |     | 0         |
| 1196 | Polyaniline-nanotube multifunctional fiber: capabilities toward the manufacturing of smart fabric. ,<br>2004, , .                                |     | 0         |
| 1197 | Highly processable method for the construction of miniature conducting polymer moisture sensors. , 2005, 5649, 607.                              |     | 0         |
| 1198 | Poly(3-methylthiophene)-based electrochemical actuators. , 2005, , .   |     | 0         |
| 1199 | The use of embedded sensors for the monitoring of adhesive joints in marine environments. , 2005, , .  |     | 0         |
| 1200 | Actuation behaviour of polyaniline films and tubes prepared by phase inversion technique. , 2005, , .  |     | 0         |
| 1201 | Decoration of carbon nanotubes with biological entities for electronic device applications. , 2006, , .  |     | 0         |
| 1202 | An investigation into behaviour of electroactive polymers as mechanical sensors. , 2007, , .   |     | 0         |
| 1203 | Time-Dependent ("Mechanicalâ€), Nonbiological Catalysis. 3. A Readily Prepared, Convergent,<br>Oxygen-Reduction Electrocatalyst. , 0, , 319-335. |     | 0         |
| 1204 | Superior electrochemical platforms based on polymer carbon nanotube composite electrodes. , 2010, ,  |     | 0         |
| 1205 | Self-Assembled Gels from Biological and Synthetic Polyelectrolytes Materials Research Society Symposia Proceedings, 2012, 1418, 51.              | 0.1 | 0         |
| 1206 | Mechanism of stroke enhancement by coiling in carbon nanotube hybrid yarn artificial muscles (presentation video). , 2014, , .                   |     | 0         |

| #    | Article  | IF          | CITATIONS     |
|------|--|-------------|---------------|
| 1207 | Can the Wet – State Conductivity of Hydrogels be Improved by Incorporation of Spherical Conducting Nanoparticles?. Materials Research Society Symposia Proceedings, 2014, 1717, 1.                 | 0.1         | 0             |
| 1208 | Carbon-based torsional and tensile artificial muscles driven by thermal expansion (presentation) Tj ETQq0 0 0 rgE  | BT /Overloc | :k 10 Tf 50 7 |
| 1209 | Solar Rechargeable Redox Battery Based on Polysulfide Electrochemistry. ECS Transactions, 2016, 72, 23-31.   | 0.5         | 0             |
| 1210 | Learning structured dictionary based on inter-class similarity and representative margins. , 2016, , .   |             | 0             |
| 1211 | Wearable Sensor for Real-Time Monitoring of Electrolytes in Sweat. Proceedings (mdpi), 2017, 1, 724.   | 0.2         | 0             |
| 1212 | Characterization of 3D-Printed Human Regulatory T-Cells. Transplantation, 2018, 102, S109.   | 1.0         | 0             |
| 1213 | Tunable flow rate in textile-based materials utilising composite fibres. Journal of the Textile Institute, 2021, 112, 568-577.   | 1.9         | 0             |
| 1214 | Smart polymer implants as an emerging technology for treating airway collapse in obstructive sleep apnea: a pilot (proof of concept) study. Journal of Clinical Sleep Medicine, 2021, 17, 315-324. | 2.6         | 0             |
| 1215 | Towards Novel Entangled Carbon Nanotube Composite Electrodes. , 2008, , .  |             | 0             |
| 1216 | Conductive Polymers. , 2008, , 695-704.  |             | 0             |
| 1217 | Smart Polymers for Biotechnology and Elastomers. , 2008, , .   |             | 0             |
| 1218 | Performance on Demand — A New Era in Polymer Science (A Case Study Using Conducting Polymers). ,<br>1994, , 283-293.   |             | 0             |
| 1219 | Cellular communication with conducting electroactive polymers. , 1996, , 309-310.  |             | 0             |
| 1220 | Communicating with the Building Blocks of Life Using Advanced Macromolecular Transducers. , 1996, ,<br>13-17.  |             | 0             |
| 1221 | Smart Membranes. , 0, , 7366-7374.   |             | 0             |
| 1222 | Conducting Polymers. , 0, , 1962-1971.   |             | 0             |
| 1223 | Unzipping Chemical Bonds of Non-Layered Bulk Structures to Form Ultrathin Nanocrystals. SSRN<br>Electronic Journal, 0, , .   | 0.4         | 0             |

1224 Earth-abundant electrocatalysts for sustainable energy conversion. , 2022, , 131-168.

| #    | Article   | IF   | CITATIONS |
|------|---|------|-----------|
| 1225 | The Australian National Fabrication Facility: Micro/nanotechnologies from Concept to Translation to End Users. Advanced Functional Materials, 2022, 32, . | 14.9 | 0         |
| 1226 | Nanostructured Electrodes : New Bionic Interfaces. , 2007, , 8-8.   |      | 0         |
| 1227 | Sensing and Stimulating Electrodes for Electroceuticals. Frontiers in Sensors, 2022, 3, .   | 3.3  | 0         |