Gordon G Wallace

List of Publications by Year
in descending order

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1,227	77,412	640 123	1341 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.	15.6	8,393
2	Carbon Nanotube Actuators. Science, 1999, 284, 1340-1344.	6.0	2,343
3	Mechanically Strong, Electrically Conductive, and Biocompatible Graphene Paper. Advanced Materials, 2008, 20, 3557-3561.	11.1	1,843
4	Use of Ionic Liquids for pi -Conjugated Polymer Electrochemical Devices. Science, 2002, 297, 983-987.	6.0	1,155
5	Artificial Muscles from Fishing Line and Sewing Thread. Science, 2014, 343, 868-872.	6.0	1,006
6	Conducting polymers for neural interfaces: Challenges in developing an effective long-term implant. Biomaterials, 2008, 29, 3393-3399.	5.7	677
7	Electrostatic catalysis of a Dielsâ€“Alder reaction. Nature, 2016, 531, 88-91.	13.7	596
8	Electrochemical Properties of Graphene Paper Electrodes Used in Lithium Batteries. Chemistry of Materials, 2009, 21, 2604-2606.	3.2	546
9	Electroactive conducting polymers for corrosion control. Journal of Solid State Electrochemistry, 2002, 6, 73-84.	1.2	529
10	Torsional Carbon Nanotube Artificial Muscles. Science, 2011, 334, 494-497.	6.0	495
11	Bio-ink properties and printability for extrusion printing living cells. Biomaterials Science, 2013, 1, 763.	2.6	484
12	Ultrafast charge and discharge biscrolled yarn supercapacitors for textiles and microdevices. Nature Communications, 2013, 4, 1970.	5.8	475
13	Electroactive conducting polymers for corrosion control. Journal of Solid State Electrochemistry, 2002, 6, 85-100.	1.2	446
14	Harvesting Waste Thermal Energy Using a Carbon-Nanotube-Based Thermo-Electrochemical Cell. Nano Letters, 2010, 10, 838-846.	4.5	431
15	Dispersing Carbon Nanotubes with Graphene Oxide in Water and Synergistic Effects between Graphene Derivatives. Chemistry - A European Journal, 2010, 16, 10653-10658.	1.7	373
16	3D printing of layered brain-like structures using peptide modified gellan gum substrates. Biomaterials, 2015, 67, 264-273.	5.7	357
17	Synergistic toughening of composite fibres by self-alignment of reduced graphene oxide and carbon nanotubes. Nature Communications, 2012, 3, 650.	5.8	354
18	Scalable Oneâ€Step Wetâ€Spinning of Graphene Fibers and Yarns from Liquid Crystalline Dispersions of Graphene Oxide: Towards Multifunctional Textiles. Advanced Functional Materials, 2013, 23, 5345-5354.	7.8	354

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19	High-Performance Multifunctional Graphene Yarns: Toward Wearable All-Carbon Energy Storage Textiles. ACS Nano, 2014, 8, 2456-2466.	7.3	331
20	Performance evaluation of CNT/polypyrrole/MnO2 composite electrodes for electrochemical capacitors. Electrochimica Acta, 2007, 52, 7377-7385.	2.6	310
21	Bioactive Coatings for Orthopaedic Implantsâ€"Recent Trends in Development of Implant Coatings. International Journal of Molecular Sciences, 2014, 15, 11878-11921.	1.8	306
22	Functional 3D Neural Miniâ€Tissues from Printed Gelâ€Based Bioink and Human Neural Stem Cells. Advanced Healthcare Materials, 2016, 5, 1429-1438.	3.9	303
23	Biosensors Based on Aligned Carbon Nanotubes Coated with Inherently Conducting Polymers. Electroanalysis, 2003, 15, 1089-1094.	1.5	278
24	Polypyrrole-coated electrodes for the delivery of charge and neurotrophins to cochlear neurons. Biomaterials, 2009, 30, 2614-2624.	5.7	277
25	Graphene oxide dispersions: tuning rheology to enable fabrication. Materials Horizons, 2014, 1, 326-331.	6.4	276
26	Use of Ionic Liquids as Electrolytes in Electromechanical Actuator Systems Based on Inherently Conducting Polymers. Chemistry of Materials, 2003, 15, 2392-2398.	3.2	274
27	Mechanism of electromechanical actuation in polypyrrole. Synthetic Metals, 1995, 73, 247-256.	2.1	272
28	Nanotechnology-based disinfectants and sensors for SARS-CoV-2. Nature Nanotechnology, 2020, 15, 618-621.	15.6	269
29	Knitted Strain Sensor Textiles of Highly Conductive All-Polymeric Fibers. ACS Applied Materials & Interfaces, 2015, 7, 21150-21158.	4.0	267
30	Carbon-Nanotube-Reinforced Polyaniline Fibers for High-Strength Artificial Muscles. Advanced Materials, 2006, 18, 637-640.	11.1	266
31	Polypyrrole-heparin composites as stimulus-responsive substrates for endothelial cell growth. , 1999, 44, 121-129.		256
32	A Single Component Conducting Polymer Hydrogel as a Scaffold for Tissue Engineering. Advanced Functional Materials, 2012, 22, 2692-2699.	7.8	254
33	High-Performance Flexible All-Solid-State Supercapacitor from Large Free-Standing Graphene-PEDOT/PSS Films. Scientific Reports, 2015, 5, 17045.	1.6	243
34	Organic material in the global troposphere. Reviews of Geophysics, 1983, 21, 921-952.	9.0	242
35	High Acetic Acid Production Rate Obtained by Microbial Electrosynthesis from Carbon Dioxide. Environmental Science & Technology, 2015, 49, 13566-13574.	4.6	241
36	Strainâ€Responsive Polyurethane/PEDOT:PSS Elastomeric Composite Fibers with High Electrical Conductivity. Advanced Functional Materials, 2014, 24, 2957-2966.	7.8	238

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37	The effect of polypyrrole with incorporated neurotrophin-3 on the promotion of neurite outgrowth from auditory neurons. Biomaterials, 2007, 28, 513-523.	5.7	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.	5.2	236
39	Aligned Coaxial Nanowires of Carbon Nanotubes Sheathed with Conducting Polymers. Angewandte Chemie - International Edition, 2000, 39, 3664-3667.	7.2	235
40	Electrochemical studies of single-wall carbon nanotubes in aqueous solutions. Journal of Electroanalytical Chemistry, 2000, 488, 92-98.	1.9	234
41	Tunable and Efficient Tin Modified Nitrogenâ€Doped Carbon Nanofibers for Electrochemical Reduction of Aqueous Carbon Dioxide. Advanced Energy Materials, 2018, 8, 1702524.	10.2	232
42	In situ handheld threeâ€dimensional bioprinting for cartilage regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 611-621.	1.3	232
43	Investigation of ionic liquids as electrolytes for carbon nanotube electrodes. Electrochemistry Communications, 2004, 6, 22-27.	2.3	228
44	Chiral conducting polymers. Chemical Society Reviews, 2010, 39, 2545.	18.7	224
45	Polymeric Material with Metal-Like Conductivity for Next Generation Organic Electronic Devices. Chemistry of Materials, 2012, 24, 3998-4003.	3.2	224
46	Covalently linked biocompatible graphene/polycaprolactone composites for tissue engineering. Carbon, 2013, 52, 296-304.	5.4	222
47	Organic Solvent-Based Graphene Oxide Liquid Crystals: A Facile Route toward the Next Generation of Self-Assembled Layer-by-Layer Multifunctional 3D Architectures. ACS Nano, 2013, 7, 3981-3990.	7.3	219
48	A comparison of reactive robot chemotaxis algorithms. Robotics and Autonomous Systems, 2003, 45, 83-97.	3.0	216
49	Porphyrins for dye-sensitised solar cells: new insights into efficiency-determining electron transfer steps. Chemical Communications, 2012, 48, 4145.	2.2	215
50	Flexible, Aligned Carbon Nanotube/Conducting Polymer Electrodes for a Lithium-Ion Battery. Chemistry of Materials, 2007, 19, 3595-3597.	3.2	212
51	Buckled, Stretchable Polypyrrole Electrodes for Battery Applications. Advanced Materials, 2011, 23, 3580-3584.	11.1	211
52	Conducting polymers, dual neurotrophins and pulsed electrical stimulation â€" Dramatic effects on neurite outgrowth. Journal of Controlled Release, 2010, 141, 161-167.	4.8	209
53	Recent Progress in Flexible Electrochemical Capacitors: Electrode Materials, Device Configuration, and Functions. Advanced Energy Materials, 2015, 5, 1500959.	10.2	208
54	Skeletal muscle cell proliferation and differentiation on polypyrrole substrates doped with extracellular matrix components. Biomaterials, 2009, 30, 5292-5304.	5.7	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.	1.7	206
56	Fabrication of an ammonia gas sensor using inkjet-printed polyaniline nanoparticles. Talanta, 2008, 77, 710-717.	2.9	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.	11.1	197
59	Polypyrrole coated nylon lycra fabric as stretchable electrode for supercapacitor applications. Electrochimica Acta, 2012, 68, 18-24.	2.6	197
60	Optimising the incorporation and release of a neurotrophic factor using conducting polypyrrole. Journal of Controlled Release, 2006, 116, 285-294.	4.8	196
61	Smart Nanotextiles: A Review of Materials and Applications. MRS Bulletin, 2007, 32, 434-442.	1.7	195
62	Electrochemical synthesis of polypyrrole in ionic liquids. Polymer, 2004, 45, 1447-1453.	1.8	191
63	Intrinsically Stretchable Supercapacitors Composed of Polypyrrole Electrodes and Highly Stretchable Gel Electrolyte. ACS Applied Materials & Interfaces, 2013, 5, 9008-9014.	4.0	190
64	Bio-sensing textile based patch with integrated optical detection system for sweat monitoring. Sensors and Actuators B: Chemical, 2009, 139, 231-236.	4.0	189
65	Knitted Carbon-Nanotube-Sheath/Spandex-Core Elastomeric Yarns for Artificial Muscles and Strain Sensing. ACS Nano, 2016, 10, 9129-9135.	7.3	189
66	On Low-Concentration Inks Formulated by Nanocellulose Assisted with Gelatin Methacrylate (GelMA) for 3D Printing toward Wound Healing Application. ACS Applied Materials & Interfaces, 2019, 11, 8838-8848.	4.0	189
67	Two-dimensional transition metal dichalcogenides in supercapacitors and secondary batteries. Energy Storage Materials, 2019, 19, 408-423.	9.5	189
68	Pneumatic Carbon Nanotube Actuators. Advanced Materials, 2002, 14, 1728-1732.	11.1	187
69	Strain Response from Polypyrrole Actuators under Load. Advanced Functional Materials, 2002, 12, 437-440.	7.8	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.	3.7	186
71	Carbon nanotube and polyaniline composite actuators*. Smart Materials and Structures, 2003, 12, 626-632.	1.8	184
72	Bio-ink for on-demand printing of living cells. Biomaterials Science, 2013, 1, 224-230.	2.6	184

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73	Steric Modification of a Cobalt Phthalocyanine/Graphene Catalyst To Give Enhanced and Stable Electrochemical CO₂ Reduction to CO. ACS Energy Letters, 2019, 4, 666-672.	8.8	183
74	The use of electropolymerization to produce new sensing surfaces: A review emphasizing electrode position of heteroaromatic compounds. Electroanalysis, 1991, 3, 879-889.	1.5	181
75	Development of polypyrrole-based electromechanical actuators. Synthetic Metals, 2000, 113, 121-127.	2.1	181
76	Selfâ€Assembly of Flexible Freeâ€Standing 3D Porous MoS₂â€Reduced Graphene Oxide Structure for Highâ€Performance Lithiumâ€Ion Batteries. Advanced Functional Materials, 2017, 27, 1700234.	7.8	181
77	Three dimensional (3D) printed electrodes for interdigitated supercapacitors. Electrochemistry Communications, 2014, 41, 20-23.	2.3	179
78	Recent progress in 2D materials for flexible supercapacitors. Journal of Energy Chemistry, 2018, 27, 57-72.	7.1	179
79	Fast trilayer polypyrrole bending actuators for high speed applications. Synthetic Metals, 2006, 156, 1017-1022.	2.1	178
80	Carbon Nanotube â€“ Reduced Graphene Oxide Composites for Thermal Energy Harvesting Applications. Advanced Materials, 2013, 25, 6602-6606.	11.1	178
81	Znâ”Zn Porphyrin Dimer-Sensitized Solar Cells: Toward 3-D Light Harvesting. Journal of the American Chemical Society, 2009, 131, 15621-15623.	6.6	177
82	Processable conducting graphene/chitosan hydrogels for tissue engineering. Journal of Materials Chemistry B, 2015, 3, 481-490.	2.9	177
83	Enantioselective electropolymerization of aniline in the presence of (+)- or (â”)-camphorsulfonate ion: a facile route to conducting polymers with preferred one-screw-sense helicity. Polymer, 1994, 35, 3113-3115.	1.8	172
84	Vapor Phase Polymerization of Pyrrole and Thiophene Using Iron(III) Sulfonates as Oxidizing Agents. Macromolecules, 2004, 37, 5930-5935.	2.2	172
85	Engineered 2D Transition Metal Dichalcogenidesâ€”A Vision of Viable Hydrogen Evolution Reaction Catalysis. Advanced Energy Materials, 2020, 10, 1903870.	10.2	169
86	Direct Growth of Flexible Carbon Nanotube Electrodes. Advanced Materials, 2008, 20, 566-570.	11.1	168
87	Monolithic Actuators from Flashâ€Welded Polyaniline Nanofibers. Advanced Materials, 2008, 20, 155-158.	11.1	167
88	Sustained solar hydrogen generation using a dye-sensitised NiO photocathode/BiVO4 tandem photo-electrochemical device. Energy and Environmental Science, 2012, 5, 9472.	15.6	167
89	High Power Density Electrochemical Thermocells for Inexpensively Harvesting Lowâ€Grade Thermal Energy. Advanced Materials, 2017, 29, 1605652.	11.1	166
90	Conducting electroactive polymer-based biosensors. TrAC - Trends in Analytical Chemistry, 1999, 18, 245-251.	5.8	165

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91	Superelastic Hybrid CNT/Graphene Fibers for Wearable Energy Storage. Advanced Energy Materials, 2018, 8, 1702047.	10.2	165
92	EVIDENCE FOR PERSISTENCE OF INFECTIOUS AGENTS IN ISOLATED HUMAN POPULATIONS1. American Journal of Epidemiology, 1974, 100, 230-250.	1.6	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.	3.9	164
94	Handheld Co-Axial Bioprinting: Application to in situ surgical cartilage repair. Scientific Reports, 2017, 7, 5837.	1.6	160
95	Oneâ€Step Wetâ€Spinning Process of Poly(3,4â€ethylenedioxythiophene):Poly(styrenesulfonate) Fibers and the Origin of Higher Electrical Conductivity. Advanced Functional Materials, 2011, 21, 3363-3370.	7.8	158
96	Dye-Sensitized Solar Cell with Integrated Tripletâ€“Triplet Annihilation Upconversion System. Journal of Physical Chemistry Letters, 2013, 4, 2073-2078.	2.1	158
97	The 2021 battery technology roadmap. Journal Physics D: Applied Physics, 2021, 54, 183001.	1.3	158
98	Conducting polymers and the bioanalytical sciences: new tools for biomolecular communications. A review. Analyst, The, 1996, 121, 699.	1.7	157
99	Properties of Carbon Nanotube Fibers Spun from DNA-Stabilized Dispersions. Advanced Functional Materials, 2004, 14, 133-138.	7.8	155
100	Electrochemically Synthesized Polypyrrole/Graphene Composite Film for Lithium Batteries. Advanced Energy Materials, 2012, 2, 266-272.	10.2	155
101	Conducting polymer coated lycra. Synthetic Metals, 2005, 155, 698-701.	2.1	154
102	Extrusion printing of ionicâ€“covalent entanglement hydrogels with high toughness. Journal of Materials Chemistry B, 2013, 1, 4939.	2.9	154
103	Solid state actuators based on polypyrrole and polymer-in-ionic liquid electrolytes. Electrochimica Acta, 2003, 48, 2355-2359.	2.6	150
104	Electrochemical Characterization of Single-Walled Carbon Nanotube Electrodes. Journal of the Electrochemical Society, 2000, 147, 4580.	1.3	149
105	High-power biofuel cell textiles from woven biscrolled carbon nanotube yarns. Nature Communications, 2014, 5, 3928.	5.8	147
106	Biopolymers for Antitumor Implantable Drug Delivery Systems: Recent Advances and Future Outlook. Advanced Materials, 2018, 30, e1706665.	11.1	147
107	Electrical Stimulation Using Conductive Polymer Polypyrrole Promotes Differentiation of Human Neural Stem Cells: A Biocompatible Platform for Translational Neural Tissue Engineering. Tissue Engineering - Part C: Methods, 2015, 21, 385-393.	1.1	146
108	High performance conducting polymer actuators utilising a tubular geometry and helical wire interconnects. Synthetic Metals, 2003, 138, 391-398.	2.1	144

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109	Development of Graphene Oxide/Polyaniline Inks for High Performance Flexible Microsupercapacitors via Extrusion Printing. Advanced Functional Materials, 2018, 28, 1706592.	7.8	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.	1.5	136
111	A Conductingâ€Polymer Platform with Biodegradable Fibers for Stimulation and Guidance of Axonal Growth. Advanced Materials, 2009, 21, 4393-4397.	11.1	136
112	Carbon nanotube/graphene nanocomposite as efficient counter electrodes in dye-sensitized solar cells. Nanotechnology, 2012, 23, 085201.	1.3	135
113	Fibronectin and Bovine Serum Albumin Adsorption and Conformational Dynamics on Inherently Conducting Polymers: A QCM-D Study. Langmuir, 2012, 28, 8433-8445.	1.6	134
114	Electrically Conductive, Tough Hydrogels with pH Sensitivity. Chemistry of Materials, 2012, 24, 3425-3433.	3.2	134
115	A Biodegradable Thin-Film Magnesium Primary Battery Using Silk Fibroinâ€“Ionic Liquid Polymer Electrolyte. ACS Energy Letters, 2017, 2, 831-836.	8.8	134
116	The nanostructure of three-dimensional scaffolds enhances the current density of microbial bioelectrochemical systems. Energy and Environmental Science, 2013, 6, 1291.	15.6	132
117	Physical surface and electromechanical properties of doped polypyrrole biomaterials. Biomaterials, 2010, 31, 1974-1983.	5.7	130
118	Tissue engineering with gellan gum. Biomaterials Science, 2016, 4, 1276-1290.	2.6	130
119	Preparation and characterization of processable electroactive polyanilineâ€“polyvinyl alcohol composite. Polymer, 2003, 44, 3523-3528.	1.8	129
120	Tin nanoparticles decorated copper oxide nanowires for selective electrochemical reduction of aqueous CO₂to CO. Journal of Materials Chemistry A, 2016, 4, 10710-10718.	5.2	129
121	Electrochemical and Electrostatic Cleavage of Alkoxyamines. Journal of the American Chemical Society, 2018, 140, 766-774.	6.6	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.	2.9	129
123	Glucose sensors based on glucose-oxidase-containing polypyrrole/aligned carbon nanotube coaxial nanowire electrodes. Synthetic Metals, 2003, 137, 1393-1394.	2.1	128
124	Chemical generation of optically active polyaniline via the doping of emeraldine base with (+)- or (?)-camphorsulfonic acid. Polymer, 1995, 36, 3597-3599.	1.8	126
125	Comparison of polyaniline primers prepared with different dopants for corrosion protection of steel. Progress in Organic Coatings, 2003, 48, 43-49.	1.9	126
126	Graphite Oxide to Graphene. Biomaterials to Bionics. Advanced Materials, 2015, 27, 7563-7582.	11.1	126

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127	Direct Electrodeposition of Polypyrrole on Aluminum and Aluminum Alloy by Electron Transfer Mediation. Journal of the Electrochemical Society, 2002, 149, C173.	1.3	125
128	Superflexibility of graphene oxide. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11088-11093.	3.3	125
129	Energy efficient electrochemical reduction of CO₂ to CO using a three-dimensional porphyrin/graphene hydrogel. Energy and Environmental Science, 2019, 12, 747-755.	15.6	125
130	Effect of the dopant anion in polypyrrole on nerve growth and release of a neurotrophic protein. Biomaterials, 2011, 32, 3822-3831.	5.7	124
131	Tailoring the mechanical properties of gelatin methacryloyl hydrogels through manipulation of the photocrosslinking conditions. Soft Matter, 2018, 14, 2142-2151.	1.2	123
132	Highâ€Performance Grapheneâ€Fiberâ€Based Neural Recording Microelectrodes. Advanced Materials, 2019, 31, e1805867.	11.1	122
133	Conducting polymers ? bridging the bionic interface. Soft Matter, 2007, 3, 665.	1.2	120
134	Nano-Carbon Electrodes for Thermal Energy Harvesting. Journal of Nanoscience and Nanotechnology, 2015, 15, 1-14.	0.9	118
135	Modified gellan gum hydrogels for tissue engineering applications. Soft Matter, 2013, 9, 3705.	1.2	117
136	Soft, Flexible Freestanding Neural Stimulation and Recording Electrodes Fabricated from Reduced Graphene Oxide. Advanced Functional Materials, 2015, 25, 3551-3559.	7.8	117
137	â€˜SWEATCHâ€™: A Wearable Platform for Harvesting and Analysing Sweat Sodium Content. Electroanalysis, 2016, 28, 1283-1289.	1.5	117
138	Mechanical properties of chitosan/CNT microfibers obtained with improved dispersion. Sensors and Actuators B: Chemical, 2006, 115, 678-684.	4.0	116
139	Inkjet Printable Polyaniline Nanoformulations. Langmuir, 2007, 23, 8569-8574.	1.6	116
140	Biofunctionalized anti-corrosive silane coatings for magnesium alloys. Acta Biomaterialia, 2013, 9, 8671-8677.	4.1	116
141	3-dimensional (3D) fabricated polymer based drug delivery systems. Journal of Controlled Release, 2014, 193, 27-34.	4.8	116
142	Eosinophilic Meningoencephalitis Caused by a Metastrongylid Lung-Worm of Rats. JAMA - Journal of the American Medical Association, 1962, 179, 620.	3.8	115
143	Mechanical properties of carbon nanotube paper in ionic liquid and aqueous electrolytes. Carbon, 2005, 43, 1891-1896.	5.4	113
144	Highly Conductive Carbon Nanotubeâ€Graphene Hybrid Yarn. Advanced Functional Materials, 2014, 24, 5859-5865.	7.8	113

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145	Formation and processability of liquid crystalline dispersions of graphene oxide. Materials Horizons, 2014, 1, 87-91.	6.4	113
146	The use of microelectrodes to probe the electropolymerization mechanism of heterocyclic conducting polymers. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 306, 157-167.	0.3	111
147	Molecular recognition using conducting polymers: basis of an electrochemical sensing technologyâ€"Plenary lecture. Analyst, The, 1993, 118, 329-334.	1.7	111
148	Conducting polymer composites for unconventional solid-state supercapacitors. Journal of Materials Chemistry A, 2020, 8, 4677-4699.	5.2	111
149	A high-performance capillary-fed electrolysis cell promises more cost-competitive renewable hydrogen. Nature Communications, 2022, 13, 1304.	5.8	111
150	The intelligent knee sleeve: A wearable biofeedback device. Sensors and Actuators B: Chemical, 2008, 131, 541-547.	4.0	109
151	Mechanically strong high performance layered polypyrrole nano fibre/graphene film for flexible solid state supercapacitor. Carbon, 2014, 79, 554-562.	5.4	109
152	Liquid Crystal Behavior of Single-Walled Carbon Nanotubes Dispersed in Biological Hyaluronic Acid Solutions. Journal of the American Chemical Society, 2007, 129, 9452-9457.	6.6	108
153	Polyaniline and polyanilineâ€"carbon nanotube composite fibres as battery materials in ionic liquid electrolyte. Journal of Power Sources, 2007, 163, 1105-1109.	4.0	108
154	Multifunctional conducting fibres with electrically controlled release of ciprofloxacin. Journal of Controlled Release, 2013, 169, 313-320.	4.8	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.	2.4	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.	3.2	106
157	The influence of carbon nanotubes on mechanical and electrical properties of polyaniline fibers. Synthetic Metals, 2005, 152, 77-80.	2.1	106
158	Carbon nanotube network modified carbon fibre paper for Li-ion batteries. Energy and Environmental Science, 2009, 2, 393.	15.6	106
159	Investigation of protein adsorption and electrochemical behavior at a gold electrode. Journal of Colloid and Interface Science, 2003, 261, 312-319.	5.0	105
160	Conducting polymers with immobilised fibrillar collagen for enhanced neural interfacing. Biomaterials, 2011, 32, 7309-7317.	5.7	105
161	Promoting neurite outgrowth from spiral ganglion neuron explants using polypyrrole/BDNFâ€coated electrodes. Journal of Biomedical Materials Research - Part A, 2009, 91A, 241-250.	2.1	103
162	Microwave-assisted synthesis of Pt/CNT nanocomposite electrocatalysts for PEM fuel cells. Nanoscale, 2010, 2, 282-286.	2.8	103

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163	Reduced graphene oxide and polypyrrole/reduced graphene oxide composite coated stretchable fabric electrodes for supercapacitor application. Electrochimica Acta, 2015, 172, 12-19.	2.6	103
164	A novel capacitor material based on Nafion-doped polypyrrole. Journal of Power Sources, 2008, 177, 665-668.	4.0	101
165	A highly nitrogen-doped porous graphene â€“ an anode material for lithium ion batteries. Journal of Materials Chemistry A, 2015, 3, 18229-18237.	5.2	101
166	Polypyrrole-based amperometric flow injection biosensor for urea. Analytica Chimica Acta, 1996, 323, 107-113.	2.6	100
167	Characterisation of olive oil by an electronic nose based on conducting polymer sensors. Sensors and Actuators B: Chemical, 2000, 63, 1-9.	4.0	100
168	Polymerisation and characterisation of conducting polyaniline nanoparticle dispersions. Current Applied Physics, 2004, 4, 402-406.	1.1	100
169	Engineering Surface Amine Modifiers of Ultrasmall Gold Nanoparticles Supported on Reduced Graphene Oxide for Improved Electrochemical CO₂ Reduction. Advanced Energy Materials, 2018, 8, 1801400.	10.2	100
170	Electrofunctional polymers: their role in the development of new analytical systems. Analyst, The, 1999, 124, 213-219.	1.7	99
171	Electrode-Cellular Interface. Science, 2009, 324, 185-186.	6.0	99
172	Chondrogenesis of Infrapatellar Fat Pad Derived Adipose Stem Cells in 3D Printed Chitosan Scaffold. PLoS ONE, 2014, 9, e99410.	1.1	99
173	Biocompatible Ionic Liquidâ€“Biopolymer Electrolyte-Enabled Thin and Compact Magnesiumâ€“Air Batteries. ACS Applied Materials & Interfaces, 2014, 6, 21110-21117.	4.0	99
174	Toward Biodegradable Mgâ€“Air Bioelectric Batteries Composed of Silk Fibroinâ€“Polypyrrole Film. Advanced Functional Materials, 2016, 26, 1454-1462.	7.8	99
175	Micro-humidity sensors based on a processable polyaniline blend. Sensors and Actuators B: Chemical, 2005, 107, 657-665.	4.0	98
176	Printing conducting polymers. Analyst, The, 2010, 135, 2779.	1.7	98
177	The origin of open circuit voltage of porphyrin-sensitised TiO2 solar cells. Chemical Communications, 2008, , 4741.	2.2	97
178	Advanced Wearable Thermocells for Body Heat Harvesting. Advanced Energy Materials, 2020, 10, 2002539.	10.2	97
179	A Multiswitchable Poly(terthiophene) Bearing a Spiropyran Functionality: Understanding Photo- and Electrochemical Control. Journal of the American Chemical Society, 2011, 133, 5453-5462.	6.6	96
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