Peter C Innis

List of Publications by Year
in descending order

90 papers	3,756 citations	126907 33 h-index	133252 59 g-index
91 all docs	91 docs citations	91 times ranked	5486 citing authors

#	Article	IF	Citations
1	Thread-based isotachophoresis coupled with desorption electrospray ionization mass spectrometry for clean-up, preconcentration, and determination of alkaloids in biological fluids. Analytica Chimica Acta, 2022, 1193, 338810.	5.4	10
2	Nanomaterial-assisted thread-based isotachophoresis with on-thread solute trapping. Analyst, The, 2022, 147, 1944-1951.	3.5	5
3	Melt polymer drawn single and multi-capillary fibre-based electroosmotic pumps. Microfluidics and Nanofluidics, 2022, 26, .	2.2	1
4	Tunable flow rate in textile-based materials utilising composite fibres. Journal of the Textile Institute, 2021, 112, 568-577.	1.9	0
5	Thermally drawn biodegradable fibers with tailored topography for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 733-743.	3.4	11
6	Substrate-Dependent Electron-Transfer Rate of Mixed-Ligand Electrolytes: Tuning Electron-Transfer Rate without Changing Driving Force. Journal of the American Chemical Society, 2021, 143, 488-495.	13.7	9
7	The impact of insufficient time resolution on dye regeneration lifetime determined using transient absorption spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 13001-13010.	2.8	3
8	Fused filament fabrication 3D printed polylactic acid electroosmotic pumps. Lab on A Chip, 2021, 21, 3338-3351.	6.0	7
9	3D printing of highly flexible, cytocompatible nanocomposites for thermal management. Journal of Materials Science, 2021, 56, 6385-6400.	3.7	14
10	Applications of nanomaterials in ambient ionization mass spectrometry. TrAC - Trends in Analytical Chemistry, 2021, 136, 116202.	11.4	14
11	Wireless bipolar electrode-based textile electrofluidics: towards novel micro-total-analysis systems. Lab on A Chip, 2021, 21, 3979-3990.	6.0	10
12	Novel Approach toward Electrofluidic Substrates Utilizing Textile-Based Braided Structure. ACS Applied Materials & Interfaces, 2020, 12, 45618-45628.	8.0	10
13	Thread-based isoelectric focusing coupled with desorption electrospray ionization mass spectrometry. Analyst, The, 2020, 145, 6928-6936.	3.5	12
14	3D textile structures with integrated electroactive electrodes for wearable electrochemical sensors. Journal of the Textile Institute, 2020, 111, 1587-1595.	1.9	9
15	Significant Effect of Electronic Coupling on Electron Transfer between Surface-Bound Porphyrins and Co^{2+/3+} Complex Electrolytes. Journal of Physical Chemistry C, 2020, 124, 9178-9190.	3.1	10
16	Facile Development of a Fiber-Based Electrode for Highly Selective and Sensitive Detection of Dopamine. ACS Sensors, 2019, 4, 2599-2604.	7.8	38
17	Novel approach to the synthesis of polyaniline possessing electroactivity at neutral pH. Synthetic Metals, 2019, 250, 121-130.	3.9	13
18	Three-Dimensional Printing of Abrasive, Hard, and Thermally Conductive Synthetic Microdiamondâ€“Polymer Composite Using Low-Cost Fused Deposition Modeling Printer. ACS Applied Materials & Interfaces, 2019, 11, 4353-4363.	8.0	73

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19	Life-Saving Threads: Advances in Textile-Based Analytical Devices. ACS Combinatorial Science, 2019, 21, 229-240.	3.8	38
20	Processable Thermally Conductive Polyurethane Composite Fibers. Macromolecular Materials and Engineering, 2019, 304, 1800542.	3.6	24
21	Exploiting Intermolecular Interactions between Alkyl-Functionalized Redox-Active Molecule Pairs to Enhance Interfacial Electron Transfer. Journal of the American Chemical Society, 2018, 140, 13935-13944.	13.7	18
22	Enhanced physicochemical properties of polydimethylsiloxane based microfluidic devices and thin films by incorporating synthetic micro-diamond. Scientific Reports, 2017, 7, 15109.	3.3	39
23	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
24	A facile approach to spinning multifunctional conductive elastomer fibres with nanocarbon fillers. Smart Materials and Structures, 2016, 25, 035015.	3.5	45
25	Characterisation of graphene fibres and graphene coated fibres using capacitively coupled contactless conductivity detector. Analyst, The, 2016, 141, 2774-2782.	3.5	12
26	Graphene Oxide: Achieving Outstanding Mechanical Performance in Reinforced Elastomeric Composite Fibers Using Large Sheets of Graphene Oxide (Adv. Funct. Mater. 1/2015). Advanced Functional Materials, 2015, 25, 168-168.	14.9	0
27	Influence of biopolymer loading on the physiochemical and electrochemical properties of inherently conducting polymer biomaterials. Synthetic Metals, 2015, 200, 40-47.	3.9	11
28	Knitted Strain Sensor Textiles of Highly Conductive All-Polymeric Fibers. ACS Applied Materials & Interfaces, 2015, 7, 21150-21158.	8.0	267
29	Achieving Outstanding Mechanical Performance in Reinforced Elastomeric Composite Fibers Using Large Sheets of Graphene Oxide. Advanced Functional Materials, 2015, 25, 94-104.	14.9	93
30	Sensors: Strain-Responsive Polyurethane/PEDOT:PSS Elastomeric Composite Fibers with High Electrical Conductivity (Adv. Funct. Mater. 20/2014). Advanced Functional Materials, 2014, 24, 3104-3104.	14.9	2
31	Strainâ€Responsive Polyurethane/PEDOT:PSS Elastomeric Composite Fibers with High Electrical Conductivity. Advanced Functional Materials, 2014, 24, 2957-2966.	14.9	238
32	Wholly printed polypyrrole nanoparticle-based biosensors on flexible substrate. Journal of Materials Chemistry B, 2014, 2, 793-799.	5.8	70
33	Graphene oxide dispersions: tuning rheology to enable fabrication. Materials Horizons, 2014, 1, 326-331.	12.2	276
34	Design of selfâ€assembled TiO₂ architectures: Towards hybrid nanotubular interfaces. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 938-945.	1.8	4
35	High-Performance Multifunctional Graphene Yarns: Toward Wearable All-Carbon Energy Storage Textiles. ACS Nano, 2014, 8, 2456-2466.	14.6	331
36	Microstructures of conducting polymers: Patterning and actuation study. Sensors and Actuators A: Physical, 2013, 197, 106-110.	4.1	3

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37	Colour tunable electrochromic devices based on PProDOT-(Hx)2 and PProDOT-(EtHx)2 polymers. Journal of Materials Chemistry C, 2013, 1, 7430.	5.5	7
38	Comparative displacement study of bilayer actuators comprising of conducting polymers, fabricated from polypyrrole, poly(3,4-ethylenedioxythiophene) or poly(3,4-propylenedioxythiophene). Sensors and Actuators A: Physical, 2013, 193, 48-53.	4.1	20
39	Electrically conductive coatings of nickel and polypyrrole/poly(2-methoxyaniline-5-sulfonic acid) on nylon LycraÂ® textiles. Progress in Organic Coatings, 2013, 76, 1296-1301.	3.9	24
40	Fibronectin and Bovine Serum Albumin Adsorption and Conformational Dynamics on Inherently Conducting Polymers: A QCM-D Study. Langmuir, 2012, 28, 8433-8445.	3.5	134
41	Electronic interactions within composites of polyanilines formed under acidic and alkaline conditions. Conductivity, ESR, Raman, UV-vis and fluorescence studies. Physical Chemistry Chemical Physics, 2011, 13, 3303.	2.8	52
42	Biocompatibility of Immobilized Aligned Carbon Nanotubes. Small, 2011, 7, 1035-1042.	10.0	38
43	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.	14.9	158
44	Gel electrolytes with ionic liquid plasticiser for electrochromic devices. Electrochimica Acta, 2011, 56, 4408-4413.	5.2	33
45	Ion effects in REDOX cycling of conducting polymer based electrochromic materials. Electrochemistry Communications, 2010, 12, 1505-1508.	4.7	22
46	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
47	The citrate-mediated shape evolution of transforming photomorphic silver nanoparticles. Chemical Communications, 2010, 46, 7807.	4.1	34
48	Polyterthiophene as an electrostimulated controlled drug release material of therapeutic levels of dexamethasone. Synthetic Metals, 2010, 160, 1107-1114.	3.9	26
49	Photolithographic patterning of conducting polyaniline films via flash welding. Synthetic Metals, 2010, 160, 1405-1409.	3.9	13
50	EPR characterisation of platinum nanoparticle functionalised carbon nanotube hybrid materials. Physical Chemistry Chemical Physics, 2010, 12, 4135.	2.8	49
51	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
52	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
53	A new twist: controlled shape-shifting of silver nanoparticles from prisms to discs. Journal of Materials Chemistry, 2009, 19, 8294.	6.7	37
54	Electrochemical synthesis and characterisation of polyaniline/poly(2-methoxyaniline-5-sulfonic acid) composites. Electrochimica Acta, 2008, 53, 4146-4155.	5.2	15

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55	The mechanism of conductivity enhancement in poly(3,4-ethylenedioxythiophene)â€"poly(styrenesulfonic) acid using linear-diol additives: Its effect on electrochromic performance. Thin Solid Films, 2008, 516, 7828-7835.	1.8	29
56	Monolithic Actuators from Flashâ€Welded Polyaniline Nanofibers. Advanced Materials, 2008, 20, 155-158.	21.0	167
57	Faradaic charge corrected colouration efficiency measurements for electrochromic devices. Electrochimica Acta, 2008, 53, 2250-2257.	5.2	18
58	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
59	Field-Cycling NMR Relaxometry Study of Dynamic Processes in Conducting Polyaniline. Journal of Physical Chemistry C, 2008, 112, 17688-17693.	3.1	1
60	Reversible Photoinduced Electron Transfer in a Ruthenium Poly(2-methoxyaniline-5-sulfonic acid) Composite Film. Journal of Physical Chemistry B, 2008, 112, 12907-12912.	2.6	26
61	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
62	Colouration efficiency measurements in electrochromic polymers: The importance of charge density. Electrochemistry Communications, 2007, 9, 2032-2036.	4.7	34
63	Putting function into fashion: Organic conducting polymer fibres and textiles. Fibers and Polymers, 2007, 8, 135-142.	2.1	60
64	Nanocomposites of Polyaniline/Poly(2-methoxyaniline-5-sulfonic acid). Macromolecular Rapid Communications, 2006, 27, 1995-2000.	3.9	38
65	Asymmetric proliferation with optically active polyanilines. Chemical Communications, 2005, , 4539.	4.1	9
66	Optically Active Polymer Carbon Nanotube Composite. Journal of Physical Chemistry B, 2005, 109, 22725-22729.	2.6	47
67	Purification and characterisation of poly(2-methoxyaniline-5-sulfonicacid acid). Synthetic Metals, 2005, 153, 181-184.	3.9	33
68	TITAN: a conducting polymer based microfluidic pump. Smart Materials and Structures, 2005, 14, 1511-1516.	3.5	67
69	Stabilization of Single-Wall Carbon Nanotubes in Fully Sulfonated Polyaniline. Journal of Nanoscience and Nanotechnology, 2004, 4, 976-981.	0.9	15
70	Enhanced electrochemical stability of polyaniline in ionic liquids. Current Applied Physics, 2004, 4, 389-393.	2.4	60
71	Polymerisation and characterisation of conducting polyaniline nanoparticle dispersions. Current Applied Physics, 2004, 4, 402-406.	2.4	100
72	Conducting Polymer Electrochemistry in Ionic Liquids.. Synthetic Metals, 2003, 135-136, 31-32.	3.9	44

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73	Inherently Conducting Polymer Nanostructures. Journal of Nanoscience and Nanotechnology, 2002, 2, 441-451.	0.9	68
74	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
75	Inherently Conducting Polymer Nanostructures. Journal of Nanoscience and Nanotechnology, 2002, 2, 441-451.	0.9	9
76	Electrohydrodynamic polymerisation of water-soluble poly((4-(3-pyrrolyl))butane sulfonate). Polymer, 2000, 41, 4065-4076.	3.8	5
77	Electrohydrodynamic synthesis, characterisation and metal uptake studies on polypyrrole colloids stabilised by polyvinylphosphate dopant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 175, 291-301.	4.7	15
78	Asymmetry and rectification in the tunnel current of a nanometer-sized metal-conjugated polymerâ€"metal junction. Journal of Chemical Physics, 2000, 112, 6774-6778.	3.0	7
79	Electrohydrodynamic polymerization of 2-methoxyaniline-5-sulfonic acid. Synthetic Metals, 2000, 114, 267-272.	3.9	37
80	Electrosynthesis and characterisation of poly(2-methoxyaniline-5-sulfonic acid)-effect of pH control. Synthetic Metals, 2000, 114, 287-293.	3.9	33
81	Factors affecting the electrochemical formation of polypyrrole-nitrate colloids. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 137, 295-300.	4.7	10
82	Electrochemical Formation of Chiral Polyaniline Colloids Codoped with (+)- or (âˆ')-10-Camphorsulfonic Acid and Polystyrene Sulfonate. Macromolecules, 1998, 31, 6521-6528.	4.8	66
83	Preparation of chiral conducting polymer colloids. Synthetic Metals, 1997, 84, 181-182.	3.9	31
84	Controlled Continuous Production of Conducting Polypyrrole Tapes I: Process Control Development. Polymers for Advanced Technologies, 1996, 7, 442-450.	3.2	2
85	Conducting Polymers: Properties and Applications. Journal of Intelligent Material Systems and Structures, 1994, 5, 595-604.	2.5	18
86	Determination of the thermal conductivity of polypyrrole over the temperature range 280â€"335 K. Journal of Materials Science, 1993, 28, 5092-5098.	3.7	40
87	X-ray attenuation properties of electrically insulating barytes/epoxy composites. Journal of Materials Science Letters, 1993, 12, 132-134.	0.5	21
88	Technical Review : Conducting Polymer Electronics. Journal of Intelligent Material Systems and Structures, 1992, 3, 380-395.	2.5	56
89	The influence of electrolyte pH on the surface morphology of polypyrrole. Synthetic Metals, 1992, 53, 59-69.	3.9	43
90	Development and characterisation of polypyrrole/metal junctions for electronic applications. Polymer International, 1991, 26, 245-249.	3.1	13