Peter J Mahon

List of Publications by Year
in descending order

89 papers	2,953 citations	136950 32 h-index	182427 51 g-index
89 all docs	89 docs citations	89 times ranked	3691 citing authors

#	Article	IF	Citations
1	Graphene Nanocomposites Based Electrochemical Sensing Platform for Simultaneous Detection of Multiâ€drugs. Electroanalysis, 2022, 34, 435-444.	2.9	8
2	Sustainable cyanide-C60 fullerene cathode to suppress the lithium polysulfides in a lithium-sulfur battery. Sustainable Materials and Technologies, 2022, 32, e00403.	3.3	3
3	Investigations of adsorption behavior and anti-inflammatory activity of glycine functionalized Al12N12 and Al12ON11 fullerene-like cages. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 246, 119023.	3.9	23
4	A comprehensive spectroscopic, solvatochromic and photochemical analysis of 5-hydroxyquinoline and 8-hydroxyquinoline mono-azo dyes. Journal of Molecular Structure, 2021, 1223, 129323.	3.6	11
5	A Review on Battery Market Trends, Second-Life Reuse, and Recycling. Sustainable Chemistry, 2021, 2, 167-205.	4.7	197
6	Comparing the Physicochemical, Electrochemical, and Structural Properties of Boronium versus Pyrrolidinium Cation-Based Ionic Liquids and Their Performance as Li-Ion Battery Electrolytes. Journal of Physical Chemistry C, 2021, 125, 8055-8067.	3.1	6
7	Graphene aerogel modified carbon fiber reinforced composite structural supercapacitors. Composites Communications, 2021, 24, 100663.	6.3	38
8	High capacity polycarbazole-sulfur cathode for use in lithium-sulfur batteries. Electrochimica Acta, 2021, 391, 138898.	5.2	9
9	Conjugated Microporous Polycarbazole-Sulfur Cathode Used in a Lithium-Sulfur Battery. Journal of the Electrochemical Society, 2021, 168, 110542.	2.9	2
10	In Situ Synchrotron XRD and sXAS Studies on Li-S Batteries with Ionic-Liquid and Organic Electrolytes. Journal of the Electrochemical Society, 2020, 167, 100526.	2.9	5
11	Influence of the adsorption of toxic agents on the optical and electronic properties of B₁₂N₁₂ fullerene in the presence and absence of an external electric field. New Journal of Chemistry, 2020, 44, 14513-14528.	2.8	14
12	Polydopamine Nanosphere with In-Situ Loaded Gentamicin and Its Antimicrobial Activity. Molecules, 2020, 25, 2090.	3.8	68
13	Cauliflowerâ€like Platinum Particles Decorated Reduced Graphene Oxide for Sensitive Determination of Acetaminophen. Electroanalysis, 2019, 31, 1758-1768.	2.9	9
14	Authentication of geographical growth origin of black pepper (piper nigrum l.) based on volatile organic compounds profile: A case study for Malaysia and India black peppers. , 2019, , .		1
15	Adsorption behavior of metformin drug on boron nitride fullerenes: Thermodynamics and DFT studies. Journal of Molecular Liquids, 2019, 275, 955-967.	4.9	65
16	Semioperations and Convolutions in Voltammetry. ChemElectroChem, 2018, 5, 839-848.	3.4	2
17	Theoretical studies of hydrazine detection by pure and Al defected MgO nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 97, 239-249.	2.7	22
18	Serine adsorption through different functionalities on the B12N12 and Pt-B12N12 nanocages. Materials Science and Engineering C, 2018, 92, 216-227.	7.3	45

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19	Reduced Graphene Oxide Nanocomposite Modified Electrodes for Sensitive Detection of Ciprofloxacin. Electroanalysis, 2018, 30, 2185-2194.	2.9	26
20	Antibacterial Nerol Cinnamates from the Australian Plant Eremophila longifolia. Journal of Natural Products, 2017, 80, 1178-1181.	3.0	11
21	Ferric reducing antioxidant potential (FRAP) of antioxidants using reaction flow chromatography. Analytica Chimica Acta, 2017, 967, 93-101.	5.4	38
22	Bactericidal activity of self-assembled palmitic and stearic fatty acid crystals on highly ordered pyrolytic graphite. Acta Biomaterialia, 2017, 59, 148-157.	8.3	42
23	Suppressed Polysulfide Crossover in Liâ€“S Batteries through a High-Flux Graphene Oxide Membrane Supported on a Sulfur Cathode. ACS Nano, 2016, 10, 7768-7779.	14.6	144
24	Optimising the concentration of LiNO3 additive in C4mpyr-TFSI electrolyte-based Li-S battery. Electrochimica Acta, 2016, 222, 257-263.	5.2	20
25	Fabrication of Î²-Cyclodextrin-Functionalized Reduced Graphene Oxide and Its Application for Electrocatalytic Detection of Carbendazim. Electrocatalysis, 2016, 7, 411-419.	3.0	44
26	Electrochemistry of Iodide, Iodine, and Iodine Monochloride in Chloride Containing Nonhaloaluminate Ionic Liquids. Analytical Chemistry, 2016, 88, 1915-1921.	6.5	32
27	Controlled Release of Retinyl Acetate from Î²-Cyclodextrin Functionalized Poly(vinyl alcohol) Electrospun Nanofibers. Journal of Agricultural and Food Chemistry, 2015, 63, 3481-3488.	5.2	38
28	Bacterial patterning at the three-phase line of contact with microtextured alkanes. Biofouling, 2015, 31, 297-307.	2.2	2
29	Determination of diffusion coefficients from semiintegrated d.c. and a.c. voltammetric data: Overcoming the edge effect at macrodisc electrodes. Journal of Electroanalytical Chemistry, 2015, 744, 110-116.	3.8	7
30	Effect of LiNO3 additive and pyrrolidinium ionic liquid on the solid electrolyte interphase in the lithiumâ€“sulfur battery. Journal of Power Sources, 2015, 295, 212-220.	7.8	92
31	Electroanalytical Applications of Semiintegral and Convolution Voltammetry in Room-Temperature Ionic Liquids. , 2015, , 143-167.		1
32	Voltammetric Determination of the Iodide/Iodine Formal Potential and Triiodide Stability Constant in Conventional and Ionic Liquid Media. Journal of Physical Chemistry C, 2015, 119, 22392-22403.	3.1	102
33	Effect of Anion on Behaviour of Li-S Battery Electrolyte Solutions Based on N-Methyl-N-Butyl-Pyrrolidinium Ionic Liquids. Electrochimica Acta, 2015, 180, 636-644.	5.2	35
34	Electrochemical Proton Reduction and Equilibrium Acidity (pK_a) in Aprotic Ionic Liquids: Protonated Amines and Sulfonamide Acids. Journal of Physical Chemistry C, 2015, 119, 21828-21839.	3.1	23
35	Electrochemical Proton Reduction and Equilibrium Acidity (pK_a) in Aprotic Ionic Liquids: Phenols, Carboxylic Acids, and Sulfonic Acids. Journal of Physical Chemistry C, 2015, 119, 21840-21851.	3.1	16
36	Mass Transport Studies and Hydrogen Evolution at a Platinum Electrode Using Bis(trifluoromethanesulfonyl)imide as the Proton Source in Ionic Liquids and Conventional Solvents. Journal of Physical Chemistry C, 2014, 118, 29663-29673.	3.1	24

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37	Wing wettability of Odonata species as a function of quantity of epicuticular waxes. Vibrational Spectroscopy, 2014, 75, 173-177.	2.2	12
38	Amylase production by Preussia minima, a fungus of endophytic origin: optimization of fermentation conditions and analysis of fungal secretome by LC-MS. BMC Microbiology, 2014, 14, 55.	3.3	37
39	Natural Insect and Plant Micro-/Nanostructsured Surfaces: An Excellent Selection of Valuable Templates with Superhydrophobic and Self-Cleaning Properties. Molecules, 2014, 19, 13614-13630.	3.8	59
40	Optimization of protease production by endophytic fungus, Alternaria alternata, isolated from an Australian native plant. World Journal of Microbiology and Biotechnology, 2014, 30, 1755-1762.	3.6	23
41	Carbon nanotube and graphene oxide directed electrochemical synthesis of silver dendrites. RSC Advances, 2014, 4, 39645-39650.	3.6	38
42	Electrode Reaction and Mass-Transport Mechanisms Associated with the Iodide/Triiodide Couple in the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide. Journal of Physical Chemistry C, 2014, 118, 22439-22449.	3.1	33
43	Applications of Convolution Voltammetry in Electroanalytical Chemistry. Analytical Chemistry, 2014, 86, 2073-2081.	6.5	42
44	Comparative antimicrobial activity of South East Asian plants used in Bornean folkloric medicine. Journal of Herbal Medicine, 2014, 4, 96-105.	2.0	11
45	Advantages Available in the Application of the Semi-Integral Electroanalysis Technique for the Determination of Diffusion Coefficients in the Highly Viscous Ionic Liquid 1-Methyl-3-Octylimidazolium Hexafluorophosphate. Analytical Chemistry, 2013, 85, 2239-2245.	6.5	22
46	Endophytes from an Australian native plant are a promising source of industrially useful enzymes. World Journal of Microbiology and Biotechnology, 2013, 29, 335-345.	3.6	30
47	Concentration and electrode material dependence of the voltammetric response of iodide on platinum, glassy carbon and boron-doped diamond in the room temperature ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. Electrochimica Acta, 2013, 109, 554-561.	5.2	24
48	Toward rational design of organic dye sensitized solar cells (DSSCs): An application to the TA-St-CA dye. Journal of Molecular Graphics and Modelling, 2013, 40, 64-71.	2.4	42
49	Unexpected Complexity in the Electro-Oxidation of Iodide on Gold in the Ionic Liquid 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. Analytical Chemistry, 2013, 85, 11319-11325.	6.5	21
50	Molecular Organization of the Nanoscale Surface Structures of the Dragonfly Hemianax papuensis Wing Epicuticle. PLoS ONE, 2013, 8, e67893.	2.5	61
51	Global Analysis for the measurement of electrochemical parameters with cylindrical electrodes. Electrochimica Acta, 2012, 74, 16-22.	5.2	7
52	Silver nanoparticleâ€“carbon nanotube hybrid films: Preparation and electrochemical sensing. Electrochimica Acta, 2012, 74, 111-116.	5.2	63
53	Endophytes from Medicinal Plants as Novel Sources of Bioactive Compounds. , 2012, , 355-411.		3
54	Convolutive reshaping as a way to simulate voltammetry at disk electrodes. Electrochimica Acta, 2011, 56, 2190-2200.	5.2	8

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55	On approximations to a class of Jaeger integrals. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 3570-3589.	2.1	16
56	Application of Global Analysis for the measurement of electrochemical parameters with disk electrodes. Electrochimica Acta, 2010, 55, 673-680.	5.2	7
57	Convolutive reshaping with applications for voltammetry. Journal of Solid State Electrochemistry, 2009, 13, 573-582.	2.5	11
58	Simulations of Cyclic Voltammetric and Chronoamperometric Electrode Responses at a Disk Electrode Using Combinations of Spherical and Cylindrical Electrode Geometries. Langmuir, 2007, 23, 10380-10388.	3.5	4
59	The effect of laser excitation on the Raman microspectroscopy of nanoindentation-induced silicon phase transformation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 580, 430-433.	1.6	4
60	Raman analysis of iron gall inks on parchment. Vibrational Spectroscopy, 2006, 41, 170-175.	2.2	109
61	An examination of the conditions resulting in a temporal convolution related to electrochemical processes. Journal of Solid State Electrochemistry, 2006, 10, 785-791.	2.5	7
62	Diffusion-Controlled Chronoamperometry at a Disk Electrode. Analytical Chemistry, 2005, 77, 6100-6101.	6.5	22
63	The transient current at the disk electrode under diffusion control: a new determination by the Copeâ€“Tallman method. Electrochimica Acta, 2004, 49, 5041-5048.	5.2	34
64	Convolutive modelling of the disk electrode geometry under reversible conditions. Electrochimica Acta, 2004, 49, 5049-5054.	5.2	21
65	Synthesis, Electrochemistry, and Bioactivity of the Cyanobacterial Calothrixins and Related Quinones. Journal of Medicinal Chemistry, 2004, 47, 4958-4963.	6.4	99
66	A fresh approach to voltammetric modelling. Journal of Electroanalytical Chemistry, 2002, 537, 1-5.	3.8	21
67	Essay: Supercapacitors - Nanostructured Materials and Nanoscale Processes Contributing to the Next Mobile Generation. Australian Journal of Chemistry, 2001, 54, 473.	0.9	18
68	Incorporating electrode kinetics into the convolutive modeling of reactions at planar, cylindrical and spherical electrodes. Electrochimica Acta, 2001, 46, 953-965.	5.2	28
69	Measurement and modelling of the high-power performance of carbon-based supercapacitors. Journal of Power Sources, 2000, 91, 68-76.	7.8	87
70	Modelling of solid state voltammetry of immobilized microcrystals assuming an initiation of the electrochemical reaction at a three-phase junction. Journal of Solid State Electrochemistry, 2000, 4, 314-324.	2.5	140
71	Structural, Spectroscopic, and Electrochemical Studies of Binuclear Manganese(II) Complexes of Bis(pentadentate) Ligands Derived from Bis(1,4,7-triazacyclononane) Macrocycles. Inorganic Chemistry, 2000, 39, 881-892.	4.0	56
72	Convolutive modelling of electrochemical processes based on the relationship between the current and the surface concentration. Journal of Electroanalytical Chemistry, 1999, 464, 1-13.	3.8	48

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73	Elucidation of the Wide Range of Reaction Pathways That Accompany the Electrochemical Oxidation ofcis,mer-[Mn(CO)2(Î·1-dpm)(Î·2-dpm)X] (dpm = Ph2PCH2PPh2; X = Cl, Br). Inorganic Chemistry, 1999, 38, 2005-2011.	4.0	8
74	Voltammetric modelling via extended semiintegrals. Journal of Electroanalytical Chemistry, 1998, 445, 179-195.	3.8	54
75	The electrochemical oxidation of cobalt tris(dithiocarbamates) and tris(diselenocarbamates) in acetonitrile; a combined spectroscopic and voltammetric study. Journal of Electroanalytical Chemistry, 1998, 447, 155-171.	3.8	20
76	Structural, spectroscopic and electrochemical studies of binuclear nickel(II) complexes of bis(pentadentate) ligands derived from bis(1,4,7-triazacyclononane) macrocycles. Journal of the Chemical Society Dalton Transactions, 1998, , 3919-3926.	1.1	15
77	Voltammetric Oxidation of Solution and Solid Phases of Salts of [V(CO)6]-in Aqueous (Electrolyte) Media. Journal of Physical Chemistry B, 1998, 102, 1229-1234.	2.6	12
78	Systematic Studies of 17-Electron Rhenium(II) Carbonyl Phosphine Complexes. Organometallics, 1998, 17, 2977-2985.	2.3	29
79	Systematic Electrochemical Synthesis of Reduced Forms of the Î±-[S2Mo18O62]4- Anion. Inorganic Chemistry, 1998, 37, 604-604.	4.0	4
80	EPR Studies Associated with the Electrochemical Reduction of C60 and Supramolecular Complexes of C60 in Tolueneâ˜Acetonitrile Solvent Mixtures. Journal of Physical Chemistry A, 1998, 102, 2641-2649.	2.5	27
81	Systematic Electrochemical Synthesis of Reduced Forms of the Î±-[S2Mo18O62]4-Anion1. Inorganic Chemistry, 1997, 36, 4227-4233.	4.0	41
82	Tetrabutylammonium cation expulsion versus perchlorate electrolyte anion uptake in the electrochemical oxidation of microcrystals of [(C 4 H 9) 4 N][Cr(CO) 5 I] mechanically attached to a gold electrode: a voltammetric and quartz crystal microbalance study. Journal of Solid State Electrochemistry, 1997, 1, 53-61.	2.5	16
83	Linear and non-linear analysis using the Oldhamâ€“Zoski steady-state equation for determining heterogeneous electrode kinetics at microdisk electrodes and digital simulation of the microdisk geometry with the fast quasi-explicit finite difference method. Journal of Electroanalytical Chemistry, 1997, 439, 37-53.	3.8	13
84	An inexpensive and renewable pencil electrode for use in field-based stripping voltammetry. Analytica Chimica Acta, 1997, 345, 67-74.	5.4	93
85	Investigation of the influence of residual uncompensated resistance and incomplete charging current correction on the calculation of electrode kinetics when global and convolution analysis methods are used. Journal of Electroanalytical Chemistry, 1994, 366, 15-27.	3.8	22
86	A statistical study of the potential dependence of a transfer coefficient supports the Marcus theory. Journal of Electroanalytical Chemistry, 1994, 370, 1-15.	3.8	16
87	Instrumental, theoretical, and experimental aspects of determining thermodynamic and kinetic parameters from steady-state and non-steady-state cyclic voltammetry at microelectrodes in high-resistance solvents: application to the fac/mer-[Cr(CO)3(.eta.3-Ph2PCH2CH2P(Ph)CH2CH2PPh2)]+/0 square reaction scheme in dichloromethane. Analytical Chemistry, 1992, 64, 1014-1021.	6.5	21
88	Unusual isomeric lability in both oxidation states of the redox systems fac-/mer[M(CO)3(.eta.3-P2P')]+/M(CO)3(.eta.3-P2P') (M = Cr,Mo,W; P2P' =) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (bis(2-(dipher mer+ isomers are of comparable stability. Organometallics, 1991, 10, 3320-3326.	2.3	32
89	Global kinetic analysis of cyclic voltammograms at a spherical electrode. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1991, 297, 1-17.	0.1	37