

Peter J Mahon

List of Publications by Year in descending order

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papers

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136950

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docs citations

89
times ranked

3691
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Battery Market Trends, Second-Life Reuse, and Recycling. <i>Sustainable Chemistry</i> , 2021, 2, 167-205.	4.7	197
2	Suppressed Polysulfide Crossover in Li ⁺ /S Batteries through a High-Flux Graphene Oxide Membrane Supported on a Sulfur Cathode. <i>ACS Nano</i> , 2016, 10, 7768-7779.	14.6	144
3	Modelling of solid state voltammetry of immobilized microcrystals assuming an initiation of the electrochemical reaction at a three-phase junction. <i>Journal of Solid State Electrochemistry</i> , 2000, 4, 314-324.	2.5	140
4	Raman analysis of iron gall inks on parchment. <i>Vibrational Spectroscopy</i> , 2006, 41, 170-175.	2.2	109
5	Voltammetric Determination of the Iodide/Iodine Formal Potential and Triiodide Stability Constant in Conventional and Ionic Liquid Media. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22392-22403.	3.1	102
6	Synthesis, Electrochemistry, and Bioactivity of the Cyanobacterial Calothrixins and Related Quinones. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 4958-4963.	6.4	99
7	An inexpensive and renewable pencil electrode for use in field-based stripping voltammetry. <i>Analytica Chimica Acta</i> , 1997, 345, 67-74.	5.4	93
8	Effect of LiNO ₃ additive and pyrrolidinium ionic liquid on the solid electrolyte interphase in the lithium-sulfur battery. <i>Journal of Power Sources</i> , 2015, 295, 212-220.	7.8	92
9	Measurement and modelling of the high-power performance of carbon-based supercapacitors. <i>Journal of Power Sources</i> , 2000, 91, 68-76.	7.8	87
10	Polydopamine Nanosphere with In-Situ Loaded Gentamicin and Its Antimicrobial Activity. <i>Molecules</i> , 2020, 25, 2090.	3.8	68
11	Adsorption behavior of metformin drug on boron nitride fullerenes: Thermodynamics and DFT studies. <i>Journal of Molecular Liquids</i> , 2019, 275, 955-967.	4.9	65
12	Silver nanoparticle-carbon nanotube hybrid films: Preparation and electrochemical sensing. <i>Electrochimica Acta</i> , 2012, 74, 111-116.	5.2	63
13	Molecular Organization of the Nanoscale Surface Structures of the Dragonfly <i>Hemianax papuensis</i> Wing Epicuticle. <i>PLoS ONE</i> , 2013, 8, e67893.	2.5	61
14	Natural Insect and Plant Micro-/Nanostructured Surfaces: An Excellent Selection of Valuable Templates with Superhydrophobic and Self-Cleaning Properties. <i>Molecules</i> , 2014, 19, 13614-13630.	3.8	59
15	Structural, Spectroscopic, and Electrochemical Studies of Binuclear Manganese(II) Complexes of Bis(pentadentate) Ligands Derived from Bis(1,4,7-triazacyclononane) Macrocycles. <i>Inorganic Chemistry</i> , 2000, 39, 881-892.	4.0	56
16	Voltammetric modelling via extended semiintegrals. <i>Journal of Electroanalytical Chemistry</i> , 1998, 445, 179-195.	3.8	54
17	Convulsive modelling of electrochemical processes based on the relationship between the current and the surface concentration. <i>Journal of Electroanalytical Chemistry</i> , 1999, 464, 1-13.	3.8	48
18	Serine adsorption through different functionalities on the B12N12 and Pt-B12N12 nanocages. <i>Materials Science and Engineering C</i> , 2018, 92, 216-227.	7.3	45

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19	Fabrication of β -Cyclodextrin-Functionalized Reduced Graphene Oxide and Its Application for Electrochemical Detection of Carbendazim. <i>Electrocatalysis</i> , 2016, 7, 411-419.	3.0	44
20	Toward rational design of organic dye sensitized solar cells (DSSCs): An application to the TA-St-CA dye. <i>Journal of Molecular Graphics and Modelling</i> , 2013, 40, 64-71.	2.4	42
21	Applications of Convolution Voltammetry in Electroanalytical Chemistry. <i>Analytical Chemistry</i> , 2014, 86, 2073-2081.	6.5	42
22	Bactericidal activity of self-assembled palmitic and stearic fatty acid crystals on highly ordered pyrolytic graphite. <i>Acta Biomaterialia</i> , 2017, 59, 148-157.	8.3	42
23	Systematic Electrochemical Synthesis of Reduced Forms of the $\text{[S}_2\text{Mo}_{18}\text{O}_{62}]^{4-}$ Anion. <i>Inorganic Chemistry</i> , 1997, 36, 4227-4233.	4.0	41
24	Carbon nanotube and graphene oxide directed electrochemical synthesis of silver dendrites. <i>RSC Advances</i> , 2014, 4, 39645-39650.	3.6	38
25	Controlled Release of Retinyl Acetate from β -Cyclodextrin Functionalized Poly(vinyl alcohol) Electrospun Nanofibers. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 3481-3488.	5.2	38
26	Ferric reducing antioxidant potential (FRAP) of antioxidants using reaction flow chromatography. <i>Analytica Chimica Acta</i> , 2017, 967, 93-101.	5.4	38
27	Graphene aerogel modified carbon fiber reinforced composite structural supercapacitors. <i>Composites Communications</i> , 2021, 24, 100663.	6.3	38
28	Global kinetic analysis of cyclic voltammograms at a spherical electrode. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 297, 1-17.	0.1	37
29	Amylase production by <i>Preussia minima</i> , a fungus of endophytic origin: optimization of fermentation conditions and analysis of fungal secretome by LC-MS. <i>BMC Microbiology</i> , 2014, 14, 55.	3.3	37
30	Effect of Anion on Behaviour of Li-S Battery Electrolyte Solutions Based on N-Methyl-N-Butyl-Pyrrolidinium Ionic Liquids. <i>Electrochimica Acta</i> , 2015, 180, 636-644.	5.2	35
31	The transient current at the disk electrode under diffusion control: a new determination by the Cope β Tallman method. <i>Electrochimica Acta</i> , 2004, 49, 5041-5048.	5.2	34
32	Electrode Reaction and Mass-Transport Mechanisms Associated with the Iodide/Triiodide Couple in the Ionic Liquid 1-Ethyl-3-methylimidazolium Bis(trifluoromethanesulfonyl)imide. <i>Journal of Physical Chemistry C</i> , 2014, 118, 22439-22449.	3.1	33
33	Unusual isomeric lability in both oxidation states of the redox systems fac-/mer-[M(CO) $_3$ (.eta. 3 -P 2 P')] $_2$ /M(CO) $_3$ (.eta. 3 -P 2 P') (M = Cr,Mo,W; P 2 P' =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td (b) (c) mer+ isomers are of comparable stability. <i>Organometallics</i> , 1991, 10, 3320-3326.	2.3	32
34	Electrochemistry of Iodide, Iodine, and Iodine Monochloride in Chloride Containing Nonhaloaluminate Ionic Liquids. <i>Analytical Chemistry</i> , 2016, 88, 1915-1921.	6.5	32
35	Endophytes from an Australian native plant are a promising source of industrially useful enzymes. <i>World Journal of Microbiology and Biotechnology</i> , 2013, 29, 335-345.	3.6	30
36	Systematic Studies of 17-Electron Rhenium(II) Carbonyl Phosphine Complexes. <i>Organometallics</i> , 1998, 17, 2977-2985.	2.3	29

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37	Incorporating electrode kinetics into the convolutive modeling of reactions at planar, cylindrical and spherical electrodes. <i>Electrochimica Acta</i> , 2001, 46, 953-965.	5.2	28
38	EPR Studies Associated with the Electrochemical Reduction of C60 and Supramolecular Complexes of C60 in Toluene/ Acetonitrile Solvent Mixtures. <i>Journal of Physical Chemistry A</i> , 1998, 102, 2641-2649.	2.5	27
39	Reduced Graphene Oxide Nanocomposite Modified Electrodes for Sensitive Detection of Ciprofloxacin. <i>Electroanalysis</i> , 2018, 30, 2185-2194.	2.9	26
40	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. <i>Electrochimica Acta</i> , 2013, 109, 554-561.	5.2	24
41	Mass Transport Studies and Hydrogen Evolution at a Platinum Electrode Using Bis(trifluoromethanesulfonyl)imide as the Proton Source in Ionic Liquids and Conventional Solvents. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29663-29673.	3.1	24
42	Optimization of protease production by endophytic fungus, <i>Alternaria alternata</i> , isolated from an Australian native plant. <i>World Journal of Microbiology and Biotechnology</i> , 2014, 30, 1755-1762.	3.6	23
43	Electrochemical Proton Reduction and Equilibrium Acidity (pK_a) in Aprotic Ionic Liquids: Protonated Amines and Sulfonamide Acids. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21828-21839.	3.1	23
44	Investigations of adsorption behavior and anti-inflammatory activity of glycine functionalized Al12N12 and Al12ON11 fullerene-like cages. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 119023.	3.9	23
45	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. <i>Journal of Electroanalytical Chemistry</i> , 1994, 366, 15-27.	3.8	22
46	Diffusion-Controlled Chronoamperometry at a Disk Electrode. <i>Analytical Chemistry</i> , 2005, 77, 6100-6101.	6.5	22
47	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. <i>Analytical Chemistry</i> , 2013, 85, 2239-2245.	6.5	22
48	Theoretical studies of hydrazine detection by pure and Al defected MgO nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 97, 239-249.	2.7	22
49	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. <i>Analytical Chemistry</i> , 1992, 64, 1014-1021.	6.5	21
50	A fresh approach to voltammetric modelling. <i>Journal of Electroanalytical Chemistry</i> , 2002, 537, 1-5.	3.8	21
51	Convolutive modelling of the disk electrode geometry under reversible conditions. <i>Electrochimica Acta</i> , 2004, 49, 5049-5054.	5.2	21
52	Unexpected Complexity in the Electro-Oxidation of Iodide on Gold in the Ionic Liquid 1-Ethyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide. <i>Analytical Chemistry</i> , 2013, 85, 11319-11325.	6.5	21
53	The electrochemical oxidation of cobalt tris(dithiocarbamates) and tris(diselenocarbamates) in acetonitrile; a combined spectroscopic and voltammetric study. <i>Journal of Electroanalytical Chemistry</i> , 1998, 447, 155-171.	3.8	20
54	Optimising the concentration of LiNO3 additive in C4mpyr-TFSI electrolyte-based Li-S battery. <i>Electrochimica Acta</i> , 2016, 222, 257-263.	5.2	20

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55	Essay: Supercapacitors - Nanostructured Materials and Nanoscale Processes Contributing to the Next Mobile Generation. Australian Journal of Chemistry, 2001, 54, 473.	0.9	18
56	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
57	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
58	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
59	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
60	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
61	Influence of the adsorption of toxic agents on the optical and electronic properties of B ₁₂ N ₁₂ fullerene in the presence and absence of an external electric field. New Journal of Chemistry, 2020, 44, 14513-14528.	2.8	14
62	Linear and non-linear analysis using the Oldham-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
63	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
64	Wing wettability of Odonata species as a function of quantity of epicuticular waxes. Vibrational Spectroscopy, 2014, 75, 173-177.	2.2	12
65	Convolute reshaping with applications for voltammetry. Journal of Solid State Electrochemistry, 2009, 13, 573-582.	2.5	11
66	Comparative antimicrobial activity of South East Asian plants used in Bornean folkloric medicine. Journal of Herbal Medicine, 2014, 4, 96-105.	2.0	11
67	Antibacterial Nerol Cinnamates from the Australian Plant <i>Eremophila longifolia</i> . Journal of Natural Products, 2017, 80, 1178-1181.	3.0	11
68	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
69	Cauliflower-like Platinum Particles Decorated Reduced Graphene Oxide for Sensitive Determination of Acetaminophen. Electroanalysis, 2019, 31, 1758-1768.	2.9	9
70	High capacity polycarbazole-sulfur cathode for use in lithium-sulfur batteries. Electrochimica Acta, 2021, 391, 138898.	5.2	9
71	Elucidation of the Wide Range of Reaction Pathways That Accompany the Electrochemical Oxidation of cis,mer-[Mn(CO) ₂ (i-1-dpm)(i-2-dpm)X] (dpm = Ph ₂ PCH ₂ PPh ₂ ; X = Cl, Br). Inorganic Chemistry, 1999, 38, 2005-2011.	4.0	8
72	Convolute reshaping as a way to simulate voltammetry at disk electrodes. Electrochimica Acta, 2011, 56, 2190-2200.	5.2	8

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73	Graphene Nanocomposites Based Electrochemical Sensing Platform for Simultaneous Detection of Multi-drugs. <i>Electroanalysis</i> , 2022, 34, 435-444.	2.9	8
74	An examination of the conditions resulting in a temporal convolution related to electrochemical processes. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 785-791.	2.5	7
75	Application of Global Analysis for the measurement of electrochemical parameters with disk electrodes. <i>Electrochimica Acta</i> , 2010, 55, 673-680.	5.2	7
76	Global Analysis for the measurement of electrochemical parameters with cylindrical electrodes. <i>Electrochimica Acta</i> , 2012, 74, 16-22.	5.2	7
77	Determination of diffusion coefficients from semiintegrated d.c. and a.c. voltammetric data: Overcoming the edge effect at macrodisc electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 744, 110-116.	3.8	7
78	Comparing the Physicochemical, Electrochemical, and Structural Properties of Boronium versus Pyrrolidinium Cation-Based Ionic Liquids and Their Performance as Li-Ion Battery Electrolytes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8055-8067.	3.1	6
79	In Situ Synchrotron XRD and sXAS Studies on Li-S Batteries with Ionic-Liquid and Organic Electrolytes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 100526.	2.9	5
80	Systematic Electrochemical Synthesis of Reduced Forms of the $\text{[S}_2\text{Mo}_2\text{O}_6\text{]}^{4-}$ Anion. <i>Inorganic Chemistry</i> , 1998, 37, 604-604.	4.0	4
81	Simulations of Cyclic Voltammetric and Chronoamperometric Electrode Responses at a Disk Electrode Using Combinations of Spherical and Cylindrical Electrode Geometries. <i>Langmuir</i> , 2007, 23, 10380-10388.	3.5	4
82	The effect of laser excitation on the Raman microspectroscopy of nanoindentation-induced silicon phase transformation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 580, 430-433.	1.6	4
83	Endophytes from Medicinal Plants as Novel Sources of Bioactive Compounds. , 2012, , 355-411.		3
84	Sustainable cyanide-C60 fullerene cathode to suppress the lithium polysulfides in a lithium-sulfur battery. <i>Sustainable Materials and Technologies</i> , 2022, 32, e00403.	3.3	3
85	Bacterial patterning at the three-phase line of contact with microtextured alkanes. <i>Biofouling</i> , 2015, 31, 297-307.	2.2	2
86	Semioperations and Convolutions in Voltammetry. <i>ChemElectroChem</i> , 2018, 5, 839-848.	3.4	2
87	Conjugated Microporous Polycarbazole-Sulfur Cathode Used in a Lithium-Sulfur Battery. <i>Journal of the Electrochemical Society</i> , 2021, 168, 110542.	2.9	2
88	Electroanalytical Applications of Semiintegral and Convolution Voltammetry in Room-Temperature Ionic Liquids. , 2015, , 143-167.		1
89	Authentication of geographical growth origin of black pepper (<i>piper nigrum</i> L.) based on volatile organic compounds profile: A case study for Malaysia and India black peppers. , 2019, , .		1