

Roger J Mortimer

List of Publications by Year in descending order

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91
papers

6,321
citations

109321

35
h-index

76900

74
g-index

117
all docs

117
docs citations

117
times ranked

5806
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochromic organic and polymeric materials for display applications. <i>Displays</i> , 2006, 27, 2-18.	3.7	936
2	Electrochromic materials. <i>Chemical Society Reviews</i> , 1997, 26, 147.	38.1	853
3	Electrochromic Materials. <i>Annual Review of Materials Research</i> , 2011, 41, 241-268.	9.3	519
4	Organic electrochromic materials. <i>Electrochimica Acta</i> , 1999, 44, 2971-2981.	5.2	501
5	Synthesis and Characterization of Novel Acyclic, Macrocyclic, and Calix[4]arene Ruthenium(II) Bipyridyl Receptor Molecules That Recognize and Sense Anions. <i>Inorganic Chemistry</i> , 1996, 35, 5868-5879.	4.0	175
6	Studies into the Storage of Hydrogen in Carbon Nanofibers: Proposal of a Possible Reaction Mechanism. <i>Nano Letters</i> , 2002, 2, 201-205.	9.1	150
7	Electrochemical polychromicity in iron hexacyanoferrate films, and a new film form of ferric ferricyanide. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1983, 151, 133-147.	0.1	128
8	Iron hexacyanoferrate films : spectroelectrochemical distinction and electrodeposition sequence of 'soluble' (K ⁺ -containing) and 'insoluble' (K ⁺ -free) Prussian Blue, and composition changes in polyelectrochromic switching. <i>Journal of the Chemical Society Dalton Transactions</i> , 1984, , 2059.	1.1	127
9	New Electrochromic Materials. <i>Science Progress</i> , 2002, 85, 243-262.	1.9	125
10	Photosensitized Generation of Singlet Oxygen from Vinyl Linked Benzo-Crown-Ether-Bipyridyl Ruthenium(II) Complexes. <i>Journal of Physical Chemistry A</i> , 2000, 104, 192-202.	2.5	117
11	In situ colorimetric and composite coloration efficiency measurements for electrochromic Prussian blue. <i>Journal of Materials Chemistry</i> , 2005, 15, 2226.	6.7	111
12	Electrochromic and Colorimetric Properties of Nickel(II) Oxide Thin Films Prepared by Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5675-5682.	8.0	109
13	Quantification of colour stimuli through the calculation of CIE chromaticity coordinates and luminance data for application to in situ colorimetry studies of electrochromic materials. <i>Displays</i> , 2011, 32, 35-44.	3.7	106
14	Directed assembly of multilayers—the case of Prussian Blue. <i>Chemical Communications</i> , 2001, , 1994-1995.	4.1	74
15	In situ spectroelectrochemistry and colour measurement of a complementary electrochromic device based on surface-confined Prussian blue and aqueous solution-phase methyl viologen. <i>Solar Energy Materials and Solar Cells</i> , 2012, 99, 213-220.	6.2	69
16	Novel Color-Reinforcing Electrochromic Device Based on Surface-Confined Ruthenium Purple and Solution-Phase Methyl Viologen. <i>Chemistry of Materials</i> , 2011, 23, 4077-4082.	6.7	68
17	Voltammetry at carbon nanofiber electrodes. <i>Electrochemistry Communications</i> , 2001, 3, 177-180.	4.7	66
18	Five Color Electrochromicity Using Prussian Blue and Nafion/Methyl Viologen Layered Films. <i>Journal of the Electrochemical Society</i> , 1991, 138, 633-634.	2.9	59

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19	Influence of the Film Thickness and Morphology on the Colorimetric Properties of Spray-Coated Electrochromic Disubstituted 3,4-Propylenedioxythiophene Polymers. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2269-2276.	8.0	55
20	New alkynyl- and vinyl-linked benzo- and aza-crown etherbipyridyl ruthenium(II) complexes which spectrochemically recognize Group IA and IIA metal cations. <i>Journal of the Chemical Society Dalton Transactions</i> , 1993, , 2629.	1.1	52
21	Electrooxidation and Determination of Dopamine Using a Nafion®-Cobalt Hexacyanoferrate Film Modified Electrode. <i>Sensors</i> , 2008, 8, 1950-1959.	3.8	51
22	Syntheses, coordination, spectroscopy and electropolymerisation studies of new alkynyl and vinyl linked benzo- and aza-crown ether bipyridyl ruthenium(II) complexes. Spectrochemical recognition of group IA/IIA metal cations. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, .	2.0	50
23	Apparent diffusion coefficients and electron propagation mechanisms in viologen polyelectrolyte coatings containing multiply-charged anions. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1982, 138, 325-341.	0.1	49
24	Novel mono- and di-ferrocenyl bipyridyl ligands: syntheses, electrochemistry, and electropolymerisation studies of their ruthenium(II) complexes. <i>Journal of the Chemical Society Dalton Transactions</i> , 1990, , 3283.	1.1	49
25	Novel polytopic macrocyclic receptor molecules containing multiple bipyridyl and dibenzo-18-crown-6 units. <i>Tetrahedron Letters</i> , 1990, 31, 5069-5072.	1.4	46
26	Spectroelectrochemistry of electrochromic poly(o-toluidine) and poly(m-toluidine) films. <i>Journal of Materials Chemistry</i> , 1995, 5, 969-973.	6.7	45
27	Electrochemical and spectroscopic studies of pyridin intervention in the electrooxidation of pyrrole. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1988, 255, 119-141.	0.1	44
28	Electrochemical reactivity of TiO ₂ nanoparticles adsorbed onto boron-doped diamond surfaces. <i>Electrochemistry Communications</i> , 2004, 6, 1153-1158.	4.7	42
29	Dual-Polymer Electrochromic Film Characterization Using Bipotentiostatic Control. <i>Chemistry of Materials</i> , 2008, 20, 2328-2334.	6.7	41
30	Cyclopropamitosenes, Novel Bioreductive Anticancer Agents. Synthesis, Electrochemistry, and Biological Activity of 7-Substituted Cyclopropamitosenes and Related Indolequinones. <i>Journal of Medicinal Chemistry</i> , 1994, 37, 3834-3843.	6.4	40
31	Dynamic in Situ Electrochemical Neutron Reflectivity Measurements. <i>Journal of the American Chemical Society</i> , 2004, 126, 15362-15363.	13.7	40
32	An insitu colorimetric measurement study of electrochromism in the di-n-heptyl viologen system. <i>Displays</i> , 2008, 29, 424-431.	3.7	40
33	Photosensitized generation of singlet oxygen from ruthenium(II)-substituted benzoaza-crown-bipyridine complexes. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3137-3144.	2.8	38
34	Electrochemical responses of bilayer electrodes with Prussian blue as the "inner" layer and electroactive cation-incorporated Nafion® as the "outer" layer. <i>Journal of Electroanalytical Chemistry</i> , 1995, 397, 79-86.	3.8	37
35	Voltammetric determination of persulfate anions using an electrode modified with a Prussian blue film. <i>Microchemical Journal</i> , 2000, 64, 155-159.	4.5	37
36	Cyclic voltammetric studies of Prussian blue and viologens within a paper matrix for electrochromic printing applications. <i>Journal of Electroanalytical Chemistry</i> , 1999, 460, 263-266.	3.8	35

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37	Cyclic voltammetry of benzo-15-crown-5 ether-vinyl-bipyridyl ligands, their ruthenium(II) complexes and bismethoxyphenyl-vinyl-bipyridyl ruthenium(II) complexes. Electrochemical polymerization studies and supporting electrolyte effects. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 333-338.	1.7	34
38	Potentiometric determination of potassium cations using a nickel(II) hexacyanoferrate-modified electrode. <i>Talanta</i> , 1999, 49, 271-275.	5.5	33
39	Electrochemical properties of core-shell TiO ₂ nanoparticle films immobilized at ITO electrode surfaces. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5437-5443.	2.8	33
40	New polyaza tris-ferrocene and tris-2,2'-bipyridyl macrobicyclic cryptand molecules. Isolation of homo- and hetero-polymetallic zinc(II) and copper(I) cryptates containing externally coordinated ruthenium(III) cations. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 602-604.	2.0	31
41	Electrochemical polymerisation studies of aza-15-crown-5 vinyl-2,2'-bipyridine ruthenium(II) complexes. <i>Journal of Electroanalytical Chemistry</i> , 1996, 408, 61-66.	3.8	29
42	Enhancing the electrochromic response of polyaniline films by the preparation of hybrid materials based on polyaniline, chitosan and organically modified clay. <i>RSC Advances</i> , 2014, 4, 14948-14955.	3.6	29
43	Electrochromic 1,1'-dialkyl-4,4'-bipyridilium-incorporated Nafion Electrodes. <i>Journal of the Electrochemical Society</i> , 1997, 144, 1549-1553.	2.9	28
44	Fingerprint and inkjet-trace imaging using disulfur dinitride. <i>Chemical Communications</i> , 2008, , 6111.	4.1	28
45	Synthesis and electrochemical properties of the naturally occurring free radical scavenger carazostatin. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1991, , 2941.	0.9	25
46	Surface modification with macrocycle-containing redox-active polymers: towards the design of novel spectroelectrochemical group IA/IIA metal cation sensors. <i>Analyst</i> , The, 1992, 117, 1247.	3.5	23
47	Polyelectrochromic Prussian blue: a chronoamperometric study of the electrodeposition. <i>Solar Energy Materials and Solar Cells</i> , 1992, 25, 211-223.	6.2	21
48	An in situ colorimetric measurement study of electrochromism in the thin-film nickel hydroxide/oxyhydroxide system. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 3359-3367.	2.5	21
49	Electrochemical and spectral recognition of chloride ions by novel acyclic ruthenium(II) bipyridyl receptor complexes. <i>Analytical Proceedings</i> , 1995, 32, 419.	0.4	17
50	Layer-by-layer deposition of open-pore mesoporous TiO ₂ -Nafion [®] film electrodes. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1109-1117.	2.5	16
51	Copolymerisation as a way to enhance the electrochromic properties of an alkylthiophene oligomer and a pyrrole derivative: copolymer of 3,3'-dihexyl-2,2':5,5'-bipyridine with (R)-(-)-3-(1-pyrrolyl)propyl-N-(3,5-dinitrobenzoyl)-L-phenylglycinate. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 122-132.	6.2	16
52	AC impedance characteristics of solid-state planar electrochemical carbon monoxide sensors with Nafion [®] as solid polymer electrolyte. <i>Electrochimica Acta</i> , 2002, 47, 3383-3387.	5.2	15
53	Liquid Liquid Ion-Transfer Processes at the Dioctylphosphoric Acid (N,N-didodecyl-N,N'-diethylphenylenediamine) Water (Electrolyte) Interface at Graphite and Mesoporous TiO ₂ Substrates. <i>Analytical Chemistry</i> , 2004, 76, 5364-5369.	6.5	15
54	Electrochromic devices based on surface-confined Prussian blue or Ruthenium purple and aqueous solution-phase di-n-heptyl viologen. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 275-279.	6.2	15

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55	Synthesis of unsymmetrical 4,4'-disubstituted 2,2'-bipyridines containing benzo crown ether and ferrocene moieties. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1990, , 3203-3205.	0.9	14
56	Synthesis, characterisation and in situ colorimetry of electrochromic Ruthenium purple thin films. <i>Dyes and Pigments</i> , 2011, 89, 169-176.	3.7	14
57	The reaction between copper(II) ions and L-ascorbic acid in chloride media. <i>Inorganica Chimica Acta</i> , 1988, 146, 59-63.	2.4	13
58	Mesoporous TiO ₂ carboxymethyl-β-cyclodextrate multi-layer host films: effects on adsorption and electrochemistry of 1,1'-ferrocenedimethanol. <i>Analyst</i> , The, 2005, 130, 358-363.	3.5	13
59	Characterisation and humidity-sensing properties of aluminium (oxy)-hydroxide films prepared by cathodically induced precipitation. <i>Sensors and Actuators B: Chemical</i> , 2007, 128, 124-132.	7.8	13
60	Investigation of a Planar Electrochemical Carbon Monoxide Sensor Using AC Impedance Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2000, 147, 780.	2.9	12
61	Electrochemical studies of N-phenylaza-15-crown-5. <i>Journal of Electroanalytical Chemistry</i> , 1996, 418, 1-7.	3.8	11
62	Rapid polymerisation of S ₂ N ₂ within Na-ZSM-5 channels. <i>Chemical Communications</i> , 2007, , 4812.	4.1	11
63	Synthesis, coordination studies and redox properties of a novel ditertiary phosphine bearing two ferrocenyl groups. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 2317-2326.	1.8	10
64	Bipyridilium Systems. , 0, , 124-142.		9
65	Dynamic processes in polymer modified electrodes. , 1994, , 261-311.		9
66	Spectroelectrochemical responses of thin-film conducting copolymers prepared electrochemically from mixtures of 3,4-ethylenedioxythiophene and 2,2'-bithiophene. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6098.	2.8	8
67	Underpotential surface reduction of mesoporous CeO ₂ nanoparticle films. <i>Journal of Solid State Electrochemistry</i> , 2008, 12, 1541-1548.	2.5	7
68	Electrodeposition and Characterization of Nanocrystalline Ni-NbO _x Composite Coatings from Glycol-based Electrolytes for High Temperature Electronics Packaging. <i>Journal of the Electrochemical Society</i> , 2014, 161, D395-D404.	2.9	7
69	Selective fluorimetric recognition of dihydrogen phosphate over chloride anions by a novel ruthenium(II) bipyridyl receptor complex. <i>Analytical Communications</i> , 1996, 33, 365.	2.2	6
70	Evaluation of a cathodically precipitated aluminium hydroxide film at a hydrogen-sorbing palladium electrode as a humidity sensor. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 2423-2428.	1.7	6
71	A new tris(ferrocenylamine) ditertiary phosphine: Synthesis and co-ordination studies. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 1838-1842.	1.8	6
72	Diffusion Barrier Characteristics of Ni-NbO _x Composite Electrodeposits for Liquid In-Sn Solder Interconnects. <i>Journal of the Electrochemical Society</i> , 2015, 162, D147-D153.	2.9	4

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73	Heterogeneous catalysis in solution. Part 21. The effect of various carbons on the solvolysis of 2-chloro-2-methyl-1-phenylpropane in 50% v/v ethanol + water. Journal of the Chemical Society Perkin Transactions II, 1980, , 1228-1233.	0.9	3
74	Heterogeneous catalysis in solution. Part 20. Catalysis by silver bromide and other solids of the solvolysis of t-butyl bromide in 80 vol% ethanol + water. Journal of the Chemical Society Faraday Transactions I, 1981, 77, 111.	1.0	3
75	Simplest Prussian-blue deposition from ferric ferricyanide solution by a reducing Ag spot put onto an ITO substrate. Journal of Solid State Electrochemistry, 2012, 16, 3723-3724.	2.5	3
76	Metal Oxides. , 0, , 59-92.		3
77	Kinetics of alkene formation in the homogeneous and in the heterogeneously catalysed methanolyses of 2-bromo-2-methyl propane (t-butyl bromide). Journal of the Chemical Society Perkin Transactions II, 1982, , 1031.	0.9	2
78	Electrochromism: Terminology, Scope, Colouration. , 0, , 2-21.		2
79	Prussian Blue: Its Systems and Analogues. , 0, , 101-119.		2
80	Electrochromic Systems: Electrochemistry Kinetics and Mechanism. , 0, , 22-41.		1
81	Appendix: Definitions of Electrochromic Materials and Device Performance Parameters. , 2015, , 623-626.		1
82	Photoelectrochromism and Electrochromic Printing. , 0, , 192-201.		1
83	Metal and mixed-metal (oxy)-hydroxide ceramic precursor materials prepared by cathodically-induced precipitation using a hydrogen-sorbing palladium electrode. Materials Letters, 2007, 61, 5121-5124.	2.6	0
84	Solution-Phase Electrochromic Devices and Systems. , 2015, , 399-418.		0
85	Other Organic Electrochromes. , 0, , 172-182.		0
86	Polyelectrochromism. , 0, , 184-191.		0
87	Construction of Electrochromic Devices. , 0, , 42-53.		0
88	Phthalocyanine Compounds. , 0, , 93-100.		0
89	Other Inorganic Systems. , 0, , 120-123.		0
90	Electroactive Conducting Polymers. , 0, , 143-171.		0

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91	Electrochromic Systems. , 0, , 57-58.		0