Andrew M Mcdonagh

List of Publications by Year
in descending order

129 papers	6,642 citations	66234 42 h-index	64668 79 g-index
130 all docs	130 docs citations	130 times ranked	9408 citing authors

#	Article	IF	Citations
1	A long-life lithium-oxygen battery via a molecular quenching/mediating mechanism. Science Advances, 2022, 8, eabm1899.	4.7	26
2	Thermosalience Revealed on the Atomic Scale: Rapid Synchrotron Techniques Uncover Molecular Motion Preceding Crystal Jumping. Crystal Growth and Design, 2022, 22, 1951-1959.	1.4	1
3	Highly stable gold nanolayer membrane for efficient solar water evaporation under a harsh environment. Chemosphere, 2022, 299, 134394.	4.2	7
4	Nitronyl Nitroxide-Based Redox Mediators for Li-O2 Batteries. Journal of Physical Chemistry C, 2021, 125, 2824-2830.	1.5	10
5	TEMPO-Ionic Liquids as Redox Mediators and Solvents for Liâ€“O₂ Batteries. Journal of Physical Chemistry C, 2020, 124, 5087-5092.	1.5	23
6	Organic impurity profiling of 3,4-methylenedioxymethamphetamine (MDMA) synthesised from catechol and eugenol via 4-allylcatechol. Forensic Science International, 2020, 309, 110176.	1.3	6
7	On the thermal decomposition of zinc hydroxide nitrate, Zn5(OH)8(NO3)2â‹…2H2O. Journal of Solid State Chemistry, 2020, 286, 121311.	1.4	8
8	Photocatalysis of 17Î±-ethynylestradiol and estriol in water using engineered immersible optical fibres and light emitting diodes. Journal of Water Process Engineering, 2020, 33, 101075.	2.6	7
9	A versatile functionalized ionic liquid to boost the solution-mediated performances of lithium-oxygen batteries. Nature Communications, 2019, 10, 602.	5.8	138
10	Conversion of single crystals of a nickel(II) dithiocarbamate complex to nickel sulfide crystals. Inorganica Chimica Acta, 2019, 487, 228-233.	1.2	10
11	An Unusual Mercury(II) Diisopropyldithiocarbamate Coordination Polymer. Crystal Growth and Design, 2019, 19, 1125-1133.	1.4	12
12	Nature of magnetism in thiol-capped gold nanoparticles investigated with Muon spin rotation. Applied Physics Letters, 2018, 112, .	1.5	15
13	From Lead(II) Dithiocarbamate Precursors to a Fast Response PbS Positive Temperature Coefficient Thermistor. Inorganic Chemistry, 2018, 57, 2132-2140.	1.9	23
14	Photocatalysis of estrone in water and wastewater: Comparison between Au-TiO2 nanocomposite and TiO2, and degradation by-products. Science of the Total Environment, 2018, 610-611, 521-530.	3.9	60
15	Photomechanical photochromism in a cetyltrimethylammonium isopolytungstate. RSC Advances, 2018, 8, 18776-18783.	1.7	9
16	On the Development of Optical Properties during Thermal Coarsening of Gold Nanoparticle Composites. Journal of Physical Chemistry C, 2018, 122, 12098-12105.	1.5	5
17	In situstudy of the precursor conversion reactions during solventless synthesis of Co9S8, Ni3S2, Co and Ni nanowires. Nanoscale, 2018, 10, 15669-15676.	2.8	5
18	Xâ€rayâ€induced reduction of a surfactant/polyoxotungstate hybrid compound. Surface and Interface Analysis, 2018, 50, 1384-1388.	0.8	6

#	Article	IF	Citations
19	Chitosan-based Nano-biocomposites and their Applications in Medicine and Pharmaceutics. Current Organic Chemistry, 2018, 22, 628-640.	0.9	17
20	Synthesis and organic impurity profiling of 4-methoxymethamphetamine hydrochloride and its precursors. Forensic Science International, 2017, 272, 184-189.	1.3	2
21	A multi-functional gel co-polymer bridging liquid electrolyte and solid cathode nanoparticles: An efficient route to Liâ€“O 2 batteries with improved performance. Energy Storage Materials, 2017, 7, 1-7.	9.5	30
22	Cyclen-based chelators for the inhibition of AÎ² aggregation: Synthesis, anti-oxidant and aggregation evaluation. Inorganica Chimica Acta, 2017, 467, 343-350.	1.2	8
23	Thermal stability of mesoscopic compounds of cetyltrimethylammonium and Keggin metatungstates. Dalton Transactions, 2017, 46, 11053-11062.	1.6	6
24	Highâ€Capacity Aqueous Potassiumâ€Ion Batteries for Largeâ€Scale Energy Storage. Advanced Materials, 2017, 29, 1604007.	11.1	494
25	Organic impurity profiling of methylone and intermediate compounds synthesized from catechol. Drug Testing and Analysis, 2017, 9, 436-445.	1.6	4
26	Influence of Bound versus Non-Bound Stabilizing Molecules on the Thermal Stability of Gold Nanoparticles. Journal of Physical Chemistry C, 2017, 121, 13944-13951.	1.5	5
27	TEMPO-Substituted Ionic Liquids As Redox Mediators for High Performance Lithium-Oxygen Batteries. ECS Meeting Abstracts, 2017, , .	0.0	0
28	Adsorption and Photocatalytic Degradation of Methylene Blue Using Potassium Polytitanate and Solar Simulator. Journal of Nanoscience and Nanotechnology, 2016, 16, 4342-4349.	0.9	3
29	Intramolecular Hâ‹¯S interactions in metal di-(isopropyl)dithiocarbamate complexes. CrystEngComm, 2016, 18, 7070-7077.	1.3	11
30	Transformation of zinc hydroxide chloride monohydrate to crystalline zinc oxide. Dalton Transactions, 2016, 45, 7385-7390.	1.6	57
31	Remarkable thermal stability of gold nanoparticles functionalised with ruthenium phthalocyanine complexes. Nanotechnology, 2016, 27, 215702.	1.3	13
32	Adsorption Behavior of Pb(II) Onto Potassium Polytitanate Nanofibres. Journal of Nanoscience and Nanotechnology, 2016, 16, 1916-1919.	0.9	1
33	Bis(Î²2S,SÊ¹-di(isopropyl)dithiocarbamato)nickel(II): Anagostic Câ€“Hâ‹…â‹…â‹…Ni interactions and physical properties. Journal of Molecular Structure, 2016, 1113, 127-132.	1.8	14
34	Photodegradation of estrogenic endocrine disrupting steroidal hormones in aqueous systems: Progress and future challenges. Science of the Total Environment, 2016, 550, 209-224.	3.9	99
35	Versatile method for template-free synthesis of single crystalline metal and metal alloy nanowires. Nanoscale, 2016, 8, 2804-2810.	2.8	15
36	A Straightforward Route to Tetrachloroauric Acid from Gold Metal and Molecular Chlorine for Nanoparticle Synthesis. Metals, 2015, 5, 1454-1461.	1.0	32

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37	Organic impurity profiling of 3,4-methylenedioxymethamphetamine (MDMA) synthesised from catechol. Forensic Science International, 2015, 248, 140-147.	1.3	14
38	Magnetised titanium dioxide (TiO₂) for water purification: preparation, characterisation and application. Desalination and Water Treatment, 2015, 54, 979-1002.	1.0	18
39	Fouling and Inactivation of Titanium Dioxide-Based Photocatalytic Systems. Critical Reviews in Environmental Science and Technology, 2015, 45, 1880-1915.	6.6	42
40	Synthesis and Characterisation of Silica-Modified Titania for Photocatalytic Decolouration of Crystal Violet. Journal of Nanoscience and Nanotechnology, 2015, 15, 5326-5329.	0.9	3
41	Photodesorption of specific organic compounds from titanium dioxide particles in aqueous media. Desalination and Water Treatment, 2014, 52, 867-872.	1.0	5
42	Charging of gold/metal oxide/gold nanocapacitors in a scanning electron microscope. Nanotechnology, 2014, 25, 155703.	1.3	1
43	Co-doped mesoporous titania photocatalysts prepared from a peroxo-titanium complex solution. Materials Research Bulletin, 2014, 49, 7-13.	2.7	4
44	On the formation of nanocrystalline active zinc oxide from zinc hydroxide carbonate. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	11
45	Synthesis and characterisation of potassium polytitanate for photocatalytic degradation of crystal violet. Journal of Environmental Sciences, 2014, 26, 2348-2354.	3.2	8
46	Percolation Diffusion into Self-Assembled Mesoporous Silica Microfibres. Nanomaterials, 2014, 4, 157-174.	1.9	26
47	Room temperature sol-gel fabrication and functionalization for sensor applications. Photonic Sensors, 2013, 3, 168-177.	2.5	6
48	Formation of Zinc Hydroxide Nitrate by H⁺â€Catalyzed Dissolutionâ€Precipitation. European Journal of Inorganic Chemistry, 2013, 2013, 1326-1335.	1.0	23
49	Zinc hydroxide sulphate and its transformation to crystalline zinc oxide. Dalton Transactions, 2013, 42, 14432.	1.6	72
50	On the Coalescence of Nanoparticulate Gold Sinter Ink. Journal of Physical Chemistry C, 2013, 117, 11377-11384.	1.5	20
51	On the Reactivity of Zinc Hydroxide Acetate Dihydrate in Ethanol. European Journal of Inorganic Chemistry, 2013, 2013, 5133-5137.	1.0	10
52	Zinc Hydroxyacetate and Its Transformation to Nanocrystalline Zinc Oxide. Inorganic Chemistry, 2013, 52, 95-102.	1.9	64
53	The nanostructure of silica microfibers fabricated by microfluidic self-assembly. Proceedings of SPIE, 2013, , .	0.8	0
54	An evaluation of the distribution of metal ions in otherwise uniform titania sol-gel layers designed for optical sensing using laser ablation inductive coupled plasma mass spectroscopy. , 2012, , .		0

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55	Synthesis and impurity profiling of MDMA prepared from commonly available starting materials. Forensic Science International, 2012, 223, 306-313.	1.3	15
56	Photodesorption of organic matter from titanium dioxide particles in aqueous media. Journal of Industrial and Engineering Chemistry, 2012, 18, 1774-1780.	2.9	13
57	Synthesis of unsymmetrical biaryl ureas from N-carbamoylimidazoles: kineticsÂand application. Tetrahedron, 2012, 68, 6065-6070.	1.0	23
58	Styryl dye coated metal oxide powders for the detection of latent fingermarks on non-porous surfaces. Forensic Science International, 2012, 219, 208-214.	1.3	22
59	Formation of Gold Nanorods by a Stochastic â€œPopcornâ€•Mechanism. ACS Nano, 2012, 6, 1116-1125.	7.3	117
60	Plasmon Resonances in V-Shaped Gold Nanostructures. Plasmonics, 2012, 7, 235-243.	1.8	15
61	Zinc oxide particles: Synthesis, properties and applications. Chemical Engineering Journal, 2012, 185-186, 1-22.	6.6	579
62	Fingermark detection on non-porous and semi-porous surfaces using YVO4:Er,Yb luminescent upconverting particles. Forensic Science International, 2012, 217, e23-e26.	1.3	60
63	Enhancement of latent fingermarks on non-porous surfaces using anti-l-amino acidantibodies conjugated to gold nanoparticles. Chemical Communications, 2011, 47, 5602-5604.	2.2	76
64	Factors affecting internal standard selection for quantitative elemental bio-imaging of soft tissues by LA-ICP-MS. Journal of Analytical Atomic Spectrometry, 2011, 26, 1494.	1.6	93
65	Aqueous pathways for the formation of zinc oxide nanoparticles. Dalton Transactions, 2011, 40, 4871.	1.6	79
66	Synthesis and Optical Properties of Hybrid and Alloy Plasmonic Nanoparticles. Chemical Reviews, 2011, 111, 3713-3735.	23.0	730
67	Thermal Stability of (K_xNa_yH_{1â€“xâ€“y})₂Ti₆O₁₃ Nanofibers. European Journal of Inorganic Chemistry, 2011, 2011, 5087-5095.		
68	Fingermark detection on non-porous and semi-porous surfaces using NaYF4:Er,Yb up-converter particles. Forensic Science International, 2011, 207, 145-149.	1.3	78
69	Methods for the enhancement of fingermarks in blood. Forensic Science International, 2011, 210, 1-11.	1.3	56
70	Organometallic Complexes for Non-linear Optics. 49.* Third-Order Non-linear Optical Spectral Dependence Studies of Arylalkynylruthenium Dendrimers. Australian Journal of Chemistry, 2011, 64, 1269.	0.5	16
71	Spectrally selective coatings of gold nanorods on architectural glass. Journal of Nanoparticle Research, 2010, 12, 2821-2830.	0.8	34
72	Thin films of a dimeric ruthenium phthalocyanine complex on gold. Inorganic Chemistry Communication, 2010, 13, 208-210.	1.8	1

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73	Quantification method for elemental bio-imaging by LA-ICP-MS using metal spiked PMMA films. Journal of Analytical Atomic Spectrometry, 2010, 25, 722.	1.6	75
74	Exploiting Zinc Oxide Re-emission to Fabricate Periodic Arrays. ACS Applied Materials & Interfaces, 2010, 2, 1774-1779.	4.0	10
75	Thin films of ruthenium phthalocyanine complexes. Nano Research, 2009, 2, 678-687.	5.8	8
76	Plasmon resonance and electric field amplification of crossed gold nanorods. Photonics and Nanostructures - Fundamentals and Applications, 2009, 7, 143-152.	1.0	12
77	Near infrared imaging for the improved detection of fingermarks on difficult surfaces. Australian Journal of Forensic Sciences, 2009, 41, 43-62.	0.7	39
78	Ruthenium Phthalocyanine-Bipyridyl Dyads as Sensitizers for Dye-Sensitized Solar Cells: Dye Coverage versus Molecular Efficiency. Inorganic Chemistry, 2009, 48, 3215-3227.	1.9	54
79	Rapid and Controllable Sintering of Gold Nanoparticle Inks at Room Temperature Using a Chemical Agent. Journal of Physical Chemistry C, 2009, 113, 1325-1328.	1.5	68
80	An evaluation of nanostructured zinc oxide as a fluorescent powder for fingerprint detection. Journal of Materials Science, 2008, 43, 732-737.	1.7	72
81	Metal-containing nanoparticles and nano-structured particles in fingermark detection. Forensic Science International, 2008, 179, 87-97.	1.3	161
82	Synthesis, electrochemistry and spectroscopic properties of ruthenium phthalocyanine and naphthalocyanine complexes with triphenylarsine ligands. Inorganica Chimica Acta, 2008, 361, 49-55.	1.2	15
83	Convenient Synthesis and Purification of [Bu4N]2[Ru(4-carboxy-4-carboxylate-2,2â€²-bipyridine)2(NCS)2]: a Landmark DSC Dye. Australian Journal of Chemistry, 2008, 61, 405.	0.5	12
84	Synthesis and Characterization of Anthracene-2,6-dithioacetate: a Rigid, Conjugated Molecule for the Formation of Monolayers on Gold. Australian Journal of Chemistry, 2008, 61, 758.	0.5	1
85	Rectification in donorâ€“acceptor molecular junctions. Journal of Physics Condensed Matter, 2008, 20, 374106.	0.7	25
86	Self-Organization of a Discotic Coordination Complex Bearing Orthogonal Discotic Ligands. ACS Nano, 2007, 1, 348-354.	7.3	7
87	Adsorption of Amine Compounds on the Au(111) Surface:â€‰ A Density Functional Study. Journal of Physical Chemistry C, 2007, 111, 13886-13891.	1.5	131
88	Ethynylbenzene Monolayers on Gold:Â A Metal-Molecule Binding Motif Derived from a Hydrocarbon. Journal of the American Chemical Society, 2007, 129, 3533-3538.	6.6	34
89	Exploring the Performance of Molecular Rectifiers:Â Limitations and Factors Affecting Molecular Rectification. Nano Letters, 2007, 7, 3018-3022.	4.5	30
90	Laser-induced assembly of gold nanoparticles into colloidal crystals. Nanotechnology, 2007, 18, 365301.	1.3	12

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91	The instructive redox behaviour of 4-ferrocenylcatechol on nanocrystalline titanium dioxide electrodes. Applied Organometallic Chemistry, 2007, 21, 73-75.	1.7	3
92	Ruthenium phthalocyanine and naphthalocyanine complexes: Synthesis, properties and applications. Coordination Chemistry Reviews, 2007, 251, 1128-1157.	9.5	90
93	Fluorescent TiO2 powders prepared using a new perylene diimide dye: Applications in latent fingermark detection. Forensic Science International, 2007, 173, 154-160.	1.3	85
94	Optical and Redox Properties of Ruthenium Phthalocyanine Complexes Tuned with Axial Ligand Substituents. Inorganic Chemistry, 2007, 46, 2805-2813.	1.9	46
95	Preparation of nanoscale gold structures by nanolithography. Gold Bulletin, 2007, 40, 310-320.	3.2	23
96	cis-[PtBr2{PPh2(4-catechol)}2]: synthesis, crystal structure, and computational modelling of its binding to nanocrystalline TiO2. Dalton Transactions, 2006, , 680.	1.6	7
97	Controlled Assembly of 1,4-Phenylenedimethanethiol Molecular Nanostructures. Chemistry of Materials, 2006, 18, 2376-2380.	3.2	14
98	Electrochemical, Spectroelectrochemical, and Molecular Quadratic and Cubic Nonlinear Optical Properties of Alkynylruthenium Dendrimers1. Journal of the American Chemical Society, 2006, 128, 10819-10832.	6.6	115
99	Structural Changes in Self-Assembled Monolayers Initiated by Ultraviolet Light. Journal of Physical Chemistry B, 2006, 110, 15951-15954.	1.2	12
100	Covalently Linked Ferrocenyl Quinones:â€‰ Proton-Dependent Redox Behavior and Charge Redistribution. Organometallics, 2006, 25, 2216-2224.	1.1	38
101	Self-Organized Materials: From Organic molecules to Genetically Engineered Gold-Binding Proteins. , 2006, , .		0
102	Titanium Dioxide Nanoparticles Functionalized with Pd and W Complexes of a Catecholphosphane Ligand. European Journal of Inorganic Chemistry, 2005, 2005, 496-503.	1.0	23
103	Theoretical Study of Ethynylbenzene Adsorption on Au(111) and Implications for a New Class of Self-Assembled Monolayer. Journal of Physical Chemistry B, 2005, 109, 20387-20392.	1.2	62
104	In situ reversible electrochemical switching of the molecular first hyperpolarizability. Chemical Physics Letters, 2003, 368, 408-411.	1.2	110
105	Organometallic complexes for nonlinear optics.. Inorganica Chimica Acta, 2003, 352, 9-18.	1.2	81
106	A study of reverse bias in a dye sensitised photoelectrochemical device. Solar Energy Materials and Solar Cells, 2003, 76, 175-181.	3.0	18
107	Convergent Synthesis of Alkynylbis(bidentate phosphine)ruthenium Dendrimers. Organometallics, 2003, 22, 1402-1413.	1.1	73
108	Crystal packing principles for ferrocenyl groups linked by polyyne chains: dimorphism of Fc-C4-Fc. CrystEngComm, 2003, 5, 305.	1.3	5

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109	Organometallic complexes for nonlinear optics. Journal of Organometallic Chemistry, 2002, 642, 259-267.	0.8	97
110	DonorÃ¢â‚¬â€œacceptor complexes incorporating ferrocenes: spectroelectrochemical characterisation, quadratic hyperpolarisabilities and the effects of oxidising and reducing agents. Dalton Transactions RSC, 2001, , 3025-3038.	2.3	51
111	Ruthenium Vinylidene and Acetylide Complexes. An Advanced Undergraduate Multi-technique Inorganic/Organometallic Chemistry Experiment. Journal of Chemical Education, 2001, 78, 232.	1.1	5
112	Redox and UV/VIS/NIR spectroscopic properties of tris(pyrazolyl)boratoâ€“oxoâ€“molybdenum(V) complexes with naphtholate and related co-ligands. New Journal of Chemistry, 2001, 25, 1236-1243.	1.4	11
113	Third-order optical nonlinearities of organometallics: influence of dendritic geometry on the nonlinear properties and electrochromic switching of nonlinear absorption. , 2001, , .		0
114	Organometallic complexes for nonlinear optics. Journal of Organometallic Chemistry, 2000, 605, 193-201.	0.8	37
115	Trends in back-bonding in the series trans-[M(C˜†CR)Cl(PH3)4] (M=Fe, Ru, Os; R=H, Ph, C6H4NO2-4). Journal of Organometallic Chemistry, 2000, 607, 208-212.	0.8	27
116	Organometallic complexes for nonlinear optics. Journal of Organometallic Chemistry, 2000, 610, 71-79.	0.8	35
117	Organometallic complexes for nonlinear optics. Journal of Organometallic Chemistry, 2000, 605, 184-192.	0.8	37
118	A Variable Optical Attenuator Operating in the Near-Infrared Region Based on an Electrochromic Molybdenum Complex. Chemistry of Materials, 2000, 12, 2523-2524.	3.2	91
119	Organometallic Complexes for Nonlinear Optics. 17.1 Synthesis, Third-Order Optical Nonlinearities, and Two-Photon Absorption Cross Section of an Alkynylruthenium Dendrimer. Organometallics, 1999, 18, 5195-5197.	1.1	167
120	Organometallic Complexes in Nonlinear Optics II: Third-Order Nonlinearities and Optical Limiting Studies. Advances in Organometallic Chemistry, 1999, 43, 349-405.	0.5	167
121	Organometallic Complexes for Nonlinear Optics. 16.1Second and Third Order Optical Nonlinearities of Octopolar Alkynylruthenium Complexes. Journal of the American Chemical Society, 1999, 121, 1405-1406.	6.6	176
122	Preparation of cis- and trans-[OsCl2(Me2SO)4], and X-Ray Crystal Structures of the All-S-Bound Isomers. Australian Journal of Chemistry, 1998, 51, 807.	0.5	15
123	Organometallic complexes for nonlinear optics. 15. Molecular quadratic hyperpolarizabilities of trans-bis{bis(diphenylphosphino)methane}ruthenium Ïƒ-aryl- and Ïƒ-pyridyl-acetylides: X-ray crystal structure of trans-[Ru(2-C˜†CC5H3N-5-NO2)Cl(dppm)2]. Journal of Organometallic Chemistry, 1998, 563, 137-146.	0.8	69
124	Organometallic Complexes in Nonlinear Optics I: Second-Order Nonlinearities. Advances in Organometallic Chemistry, 1998, 42, 291-362.	0.5	373
125	Selective preparation of cis-or trans-dichlorobis{(R,R)-1,2-phenylenebis(methylphenylphosphine-P)}osmium(II) from dimethylsulfoxide complex precursors. Tetrahedron: Asymmetry, 1997, 8, 3579-3583.	1.8	11
126	Organometallic complexes for nonlinear optics VI: syntheses of rigid-rod ruthenium Ïƒ-acetylide complexes bearing strong acceptor ligands; X-ray crystal structures of trans-[Ru(C î—¼) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (CC Chemistry, 1996, 523, 33-40.	0.8	62

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127	trans-Dichlorobis[(R,R)-1,2-phenylenebis(methylphenylphosphine-P)]ruthenium(II). Acta Crystallographica Section C: Crystal Structure Communications, 1996, 52, 1639-1641.	0.4	4
128	Organometallic complexes for non-linear optics V. Journal of Organometallic Chemistry, 1996, 519, 229-235.	0.8	55
129	Organometallic complexes for non-linear optics VII. Cubic optical non-linearities of octahedral trans-bis{bis(diphenylphosphino)methane}ruthenium acetylide complexes; X-ray crystal structure of trans-[Ru(Cî—¼CPH)(4-Cî—¼CC6H4NO2)(dppm)2]. Journal of Organometallic Chemistry, 1996, 526, 99-103.	0.8	62