

Michael Watkinson

List of Publications by Year in descending order

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76
papers

3,551
citations

186265

28
h-index

138484

58
g-index

80
all docs

80
docs citations

80
times ranked

4733
citing authors

#	ARTICLE	IF	CITATIONS
1	Beta Cell Hubs Dictate Pancreatic Islet Responses to Glucose. <i>Cell Metabolism</i> , 2016, 24, 389-401.	16.2	370
2	Chemical sensors that incorporate click-derived triazoles. <i>Chemical Society Reviews</i> , 2011, 40, 2848.	38.1	366
3	Recent advances in catalytic asymmetric epoxidation using the environmentally benign oxidant hydrogen peroxide and its derivatives. <i>Chemical Society Reviews</i> , 2011, 40, 1722-1760.	38.1	303
4	Catalytic Allylic Oxidation of Alkenes Using an Asymmetric Kharasch-Sosnovsky Reaction. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3567.	13.8	219
5	Terahertz spectroscopy: a powerful new tool for the chemical sciences?. <i>Chemical Society Reviews</i> , 2012, 41, 2072-2082.	38.1	192
6	A Synthetically Simple, Click-Generated Cyclam-Based Zinc(II) Sensor. <i>Inorganic Chemistry</i> , 2009, 48, 319-324.	4.0	158
7	Macrocyclic Size Matters: Small Functionalized Rotaxanes in Excellent Yield Using the CuAAC Active Template Approach. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4151-4155.	13.8	130
8	Cyclam-Based Clickable Homogeneous and Heterogeneous Fluorescent Sensors for Zn(II). <i>Inorganic Chemistry</i> , 2010, 49, 3789-3800.	4.0	106
9	The application of manganese complexes of ligands derived from 1,4,7-triazacyclononane in oxidative catalysis. <i>Dalton Transactions</i> , 2006, , 645-661.	3.3	87
10	Polymeric Scavenger Reagents in Organic Synthesis. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 1213-1224.	2.4	84
11	Modular click sensors for zinc and their application in vivo. <i>Chemical Communications</i> , 2011, 47, 6036.	4.1	82
12	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5310-5314.	13.8	79
13	Disposable MMP-9 sensor based on the degradation of peptide cross-linked hydrogel films using electrochemical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2015, 68, 660-667.	10.1	69
14	Recent advances in the catalytic oxidation of alkene and alkane substrates using immobilized manganese complexes with nitrogen containing ligands. <i>Coordination Chemistry Reviews</i> , 2019, 382, 181-216.	18.8	58
15	High-sensitivity light-addressable potentiometric sensors using silicon on sapphire functionalized with self-assembled organic monolayers. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 230-236.	7.8	53
16	Is there really a diagnostically useful relationship between the carbon-oxygen stretching frequencies in metal carboxylate complexes and their coordination mode?. <i>Dalton Transactions</i> , 2010, 39, 446-455.	3.3	52
17	Structurally diverse manganese(III) complexes of tetradentate N ₂ O ₂ Schiff-base ligands with ancillary carboxylate donors. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 1805-1814.	1.1	49
18	Biologically targeted probes for Zn ²⁺ : a diversity oriented modular click-S _N Ar-click approach. <i>Chemical Science</i> , 2014, 5, 3528-3535.	7.4	49

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19	A direct route to obtain manganese(III) complexes with a new class of asymmetrical Schiff base ligands. <i>New Journal of Chemistry</i> , 2000, 24, 235-241.	2.8	48
20	Endoplasmic reticulum targeting fluorescent probes to image mobile Zn ²⁺ . <i>Chemical Science</i> , 2019, 10, 10881-10887.	7.4	46
21	Further attempts to rationalise the co-ordination chemistry of manganese with Schiff base ligands and supplementary carboxylate donors. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 31-42.	1.1	45
22	Crystallization of amorphous lactose at high humidity studied by terahertz time domain spectroscopy. <i>Chemical Physics Letters</i> , 2013, 558, 104-108.	2.6	41
23	Sensor materials for the detection of proteases. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2113-2118.	10.1	38
24	Photoelectrochemical Imaging System for the Mapping of Cell Surface Charges. <i>Analytical Chemistry</i> , 2019, 91, 5896-5903.	6.5	38
25	The crystal structure of [Mn(salpn)(acetate)] ₂ (H ₂ O) ₃ ; the first example of a manganese(III) Schiff base polymeric complex containing a dimeric repeat unit [salpn = N,N'-bis(salicylidene)-1,3-diaminopropane]. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 1524-1526.	2.0	36
26	Responsive Metal Complexes: A Click-Based Allosteric Scorpionate-Complex Permits the Detection of a Biological Recognition Event by EPR/ENDOR Spectroscopy. <i>Chemistry - A European Journal</i> , 2009, 15, 3720-3728.	3.3	34
27	Synthesis of C ₂ -symmetric aza- and azaoxa-macrocyclic ligands derived from (1R,2R)-1,2-diaminocyclohexane and their applications in catalysis. <i>Dalton Transactions</i> , 2003, , 2043-2052.	3.3	29
28	Peptide Cross-Linked Poly (Ethylene Glycol) Hydrogel Films as Biosensor Coatings for the Detection of Collagenase. <i>Sensors</i> , 2019, 19, 1677.	3.8	29
29	Solvent-mediated selective single and double ring-opening of N-tosyl-activated aziridines using benzylamine. <i>Tetrahedron: Asymmetry</i> , 2002, 13, 269-272.	1.8	28
30	Click Triazoles as Chemosensors. <i>Topics in Heterocyclic Chemistry</i> , 2012, , 109-136.	0.2	28
31	Structurally diverse manganese(III) carboxylate complexes of N ₂ O ₂ donor set symmetrical Schiff base ligands. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 2193.	2.0	27
32	Click-Patterning of Self-Assembled Monolayers on Hydrogen-Terminated Silicon Surfaces and Their Characterization Using Light-Addressable Potentiometric Sensors. <i>Langmuir</i> , 2015, 31, 9646-9654.	3.5	27
33	Effective Methods for the Biotinylation of Azamacrocycles. <i>Journal of Organic Chemistry</i> , 2007, 72, 8280-8289.	3.2	25
34	The effect of gold nanoparticles on the impedance of microcapsules visualized by scanning photo-induced impedance microscopy. <i>Electrochimica Acta</i> , 2016, 208, 39-46.	5.2	25
35	Image detection of yeast <i>Saccharomyces cerevisiae</i> by light-addressable potentiometric sensors (LAPS). <i>Electrochemistry Communications</i> , 2016, 72, 41-45.	4.7	25
36	Aggregation-Induced Emission (AIE) Fluorophore Exhibits a Highly Ratiometric Fluorescent Response to Zn ²⁺ in vitro and in Human Liver Cancer Cells. <i>Chemistry - A European Journal</i> , 2017, 23, 13067-13075.	3.3	23

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37	Remarkable increase in the rate of the catalytic epoxidation of electron deficient styrenes through the addition of Sc(OTf) ₃ to the MnTMTACN catalyst. <i>Chemical Communications</i> , 2018, 54, 1461-1464.	4.1	23
38	The synthesis of C ₂ -symmetric 1,4,7-triazacyclononane ligands derived from chiral aziridines. <i>New Journal of Chemistry</i> , 2002, 26, 1054-1059.	2.8	21
39	Gene-specific chromatin damage in human spermatozoa can be blocked by antioxidants that target mitochondria. <i>Reproductive BioMedicine Online</i> , 2003, 7, 407-418.	2.4	20
40	The synthesis of unsymmetrically N-substituted chiral 1,4,7-triazacyclononanes. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 2664-2670.	2.8	19
41	Subcellular localised small molecule fluorescent probes to image mobile Zn ²⁺ . <i>Chemical Science</i> , 2020, 11, 11366-11379.	7.4	19
42	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. <i>Angewandte Chemie</i> , 2018, 130, 5408-5412.	2.0	18
43	Peptide Cross-Linked Poly(2-oxazoline) as a Sensor Material for the Detection of Proteases with a Quartz Crystal Microbalance. <i>Biomacromolecules</i> , 2019, 20, 2506-2514.	5.4	17
44	A facile, strain-induced 1,2-aryl migration in 5,6-diarylacenaphthenes. <i>Tetrahedron Letters</i> , 2000, 41, 6915-6918.	1.4	16
45	Copper Contamination of Self-Assembled Organic Monolayer Modified Silicon Surfaces Following a "Click" Reaction Characterized with LAPS and SPIM. <i>Langmuir</i> , 2017, 33, 3170-3177.	3.5	16
46	Biotin-tagged fluorescent sensor to visualize "mobile" Zn ²⁺ in cancer cells. <i>Chemical Communications</i> , 2018, 54, 9619-9622.	4.1	16
47	Developments in the Chemical Synthesis of Heparin and Heparan Sulfate. <i>Chemical Record</i> , 2021, 21, 3238-3255.	5.8	16
48	MM2 force field parameterisation, modelling and structure prediction of salen-type monomeric and hydrogen-bonded dimeric manganese complexes. <i>Tetrahedron</i> , 1996, 52, 10193-10204.	1.9	15
49	An Efficient Route to Symmetrically and Unsymmetrically Substituted Azamacrocyclic Ligands. <i>European Journal of Organic Chemistry</i> , 2001, 2001, 4233.	2.4	14
50	An alternative model for the asymmetric addition of cyanide to aldehydes catalysed by titanium "salen" complexes based on a structurally related iron "salen" complex. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 1625-1628.	1.8	14
51	Initial rate kinetic studies show an unexpected influence of para-substituents on the catalytic behaviour of manganese complexes of TMTACN in the epoxidation of styrenes with H ₂ O ₂ . <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1942.	2.8	13
52	The reaction of the P ₂ N ₂ Schiff base ligand en=P ₂ with M ₁₂ salts and the reaction of the tetraiodine adduct of en=P ₂ with unactivated coarse grain metal powders: a comparative study (en=P ₂ =N,N'-bis[(o-diphenylphosphino)benzylidene]ethylene-diamine; M=Mn, Co and Ni). <i>Inorganica Chimica Acta</i> , 1995, 232, 145-150.	2.4	12
53	Investigations into the efficacy of methylphosphonic acid functionalised 1,4,7-triazacyclononane ligands in bleaching catalysis. <i>Green Chemistry</i> , 2007, 9, 996.	9.0	12
54	A preliminary investigation into a rationally designed catalytic system for the epoxidation of alkenes based on a bipyridyl core. <i>Journal of Molecular Catalysis A</i> , 2008, 296, 1-8.	4.8	12

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55	Generic protease detection technology for monitoring periodontal disease. <i>Faraday Discussions</i> , 2011, 149, 37-47.	3.2	10
56	Catalytic and mechanistic studies into the epoxidation of styrenes using manganese complexes of structurally similar polyamine ligands. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1124-1134.	2.8	10
57	The use of electrochemical methods in the preparation of new manganese(II) complexes of bidentate schiff base ligands and 1,10-phenanthroline: The X-ray crystal structure of 1,10-phenanthroline bis- π -N-[2-(4-methyl)phenyl]-salicylideneiminato- manganese(II). <i>Polyhedron</i> , 1996, 15, 1375-1382.	2.2	9
58	An efficient one-pot route to symmetrically and unsymmetrically substituted 1,4,7-triazacyclononanes also results in the isolation of a stable macrocyclic aminal. <i>Tetrahedron Letters</i> , 1999, 40, 9363-9365.	1.4	9
59	Enantioselective Protonation of a Lithium Enolate Derived from 2-Methyl-1-tetralone Using Chiral Sulfonamides. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 906-909.	3.2	9
60	An alternative modular "click-SNA-click" approach to develop subcellular localised fluorescent probes to image mobile Zn ²⁺ . <i>Organic and Biomolecular Chemistry</i> , 2019, 17, 10013-10019.	2.8	9
61	Structure, modelling and dynamic behaviour of aza- and azaoxamacrocyclic ligands derived from (R,R)-1,2-diaminocyclohexane Electronic supplementary information (ESI) available: different views of compounds 6, 6a and 6b. See http://www.rsc.org/suppdata/ob/b3/b306963j . <i>Organic and Biomolecular Chemistry</i> , 2003, 1, 4058.	2.8	8
62	Protect to detect: A Golgi apparatus targeted probe to image mobile zinc through the use of a lipophilic cell-labile protecting group strategy. <i>Sensors and Actuators B: Chemical</i> , 2021, 338, 129850.	7.8	8
63	Synthesis and DNA binding ability of cyclam amino acid conjugates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3007-3010.	2.2	7
64	A synthesis of a 1,1'-desymmetrised ferrocene backbone and its facile one-pot double-click functionalisation. <i>RSC Advances</i> , 2013, 3, 17081.	3.6	7
65	Incorporation of Cobalt Cyclen Complexes into Templated Nanogels Results in Enhanced Activity. <i>Chemistry - A European Journal</i> , 2016, 22, 3764-3774.	3.3	7
66	Conformational Chiral Recognition in a Simple Urea. <i>Supramolecular Chemistry</i> , 2002, 14, 353-357.	1.2	4
67	Improved synthesis of the valuable peptidomimetic intermediate 3-azido-4-hydroxy cyclopentanoic acid. <i>Tetrahedron: Asymmetry</i> , 2006, 17, 2235-2239.	1.8	4
68	Illuminating glycoscience: synthetic strategies for FRET-enabled carbohydrate active enzyme probes. <i>RSC Chemical Biology</i> , 2020, 1, 352-368.	4.1	4
69	A Remarkably Efficient and Direct Route for the Synthesis of Binucleating 1,4,7-Triazacyclononane Ligands. <i>Synthesis</i> , 2001, 2001, 2381.	2.3	3
70	Desymmetrisation of (4R,5S)-4,5-diphenylimidazolidine-2-thione using pentafluorophenyl active esters. <i>Tetrahedron Letters</i> , 2010, 51, 1423-1425.	1.4	3
71	An investigation into the synthesis of azido-functionalised coumarins for application in 1,3-dipolar click-cycloaddition reactions. <i>Dyes and Pigments</i> , 2016, 135, 36-40.	3.7	3
72	Synthetic Strategies for FRET-Enabled Carbohydrate Active Enzyme Probes. <i>Methods in Molecular Biology</i> , 2022, 2370, 237-264.	0.9	3

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73	Collagenase Biosensor Based on the Degradation of Peptide Cross-Linked Poly(Ethylene Glycol) Hydrogel Films. Proceedings (mdpi), 2018, 2, .	0.2	2
74	A Series of Manganese(III) Salen Complexes as a Result of Team-Based Inquiry in a Transnational Education Programme. ChemPlusChem, 2020, 85, 1210-1219.	2.8	2
75	Concentration-Dependent Chemo- and Regioselective Metalation of 6,6-Dibromo-2,2-bipyridine. Synlett, 2006, 2006, 1759-1761.	1.8	1
76	An investigation into the coordination chemistry of tripodal <i>o</i> -click-triazole ligands with Mn, Ni, Co and Zn ions. Journal of Molecular Structure, 2022, 1259, 132736.	3.6	0