Michael Watkinson

List of Publications by Year
in descending order

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	Synthetic Strategies for FRET-Enabled Carbohydrate Active Enzyme Probes. Methods in Molecular Biology, 2022, 2370, 237-264.	0.9	3
2	An investigation into the coordination chemistry of tripodal â€œclickâ€•triazole ligands with Mn, Ni, Co and Zn ions. Journal of Molecular Structure, 2022, 1259, 132736.	3.6	0
3	Protect to detect: A Golgi apparatus targeted probe to image mobile zinc through the use of a lipophilic cell-labile protecting group strategy. Sensors and Actuators B: Chemical, 2021, 338, 129850.	7.8	8
4	Developments in the Chemical Synthesis of Heparin and Heparan Sulfate. Chemical Record, 2021, 21, 3238-3255.	5.8	16
5	Subcellular localised small molecule fluorescent probes to image mobile Zn²⁺. Chemical Science, 2020, 11, 11366-11379.	7.4	19
6	Illuminating glycoscience: synthetic strategies for FRET-enabled carbohydrate active enzyme probes. RSC Chemical Biology, 2020, 1, 352-368.	4.1	4
7	A Series of Manganese(III) Salen Complexes as a Result of Teamâ€Based Inquiry in a Transnational Education Programme. ChemPlusChem, 2020, 85, 1210-1219.	2.8	2
8	Peptide Cross-Linked Poly(2-oxazoline) as a Sensor Material for the Detection of Proteases with a Quartz Crystal Microbalance. Biomacromolecules, 2019, 20, 2506-2514.	5.4	17
9	Peptide Cross-Linked Poly (Ethylene Glycol) Hydrogel Films as Biosensor Coatings for the Detection of Collagenase. Sensors, 2019, 19, 1677.	3.8	29
10	Photoelectrochemical Imaging System for the Mapping of Cell Surface Charges. Analytical Chemistry, 2019, 91, 5896-5903.	6.5	38
11	An alternative modular â€˜click-SNAr-clickâ€™ approach to develop subcellular localised fluorescent probes to image mobile Zn2+. Organic and Biomolecular Chemistry, 2019, 17, 10013-10019.	2.8	9
12	Endoplasmic reticulum targeting fluorescent probes to image mobile Zn²⁺. Chemical Science, 2019, 10, 10881-10887.	7.4	46
13	Recent advances in the catalytic oxidation of alkene and alkane substrates using immobilized manganese complexes with nitrogen containing ligands. Coordination Chemistry Reviews, 2019, 382, 181-216.	18.8	58
14	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. Angewandte Chemie, 2018, 130, 5408-5412.	2.0	18
15	Remarkable increase in the rate of the catalytic epoxidation of electron deficient styrenes through the addition of Sc(OTf)₃ to the MnTMTACN catalyst. Chemical Communications, 2018, 54, 1461-1464.	4.1	23
16	Chelating Rotaxane Ligands as Fluorescent Sensors for Metal Ions. Angewandte Chemie - International Edition, 2018, 57, 5310-5314.	13.8	79
17	Collagenase Biosensor Based on the Degradation of Peptide Cross-Linked Poly(Ethylene Glycol) Hydrogel Films. Proceedings (mdpi), 2018, 2, .	0.2	2
18	Biotin-tagged fluorescent sensor to visualize â€˜mobileâ€™ Zn²⁺ in cancer cells. Chemical Communications, 2018, 54, 9619-9622.	4.1	16

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19	Aggregationâ€Induced Emission (AIE) Fluorophore Exhibits a Highly Ratiometric Fluorescent Response to Zn²⁺ in vitro and in Human Liver Cancer Cells. Chemistry - A European Journal, 2017, 23, 13067-13075.	3.3	23
20	Copper Contamination of Self-Assembled Organic Monolayer Modified Silicon Surfaces Following a â€œClickâ€•Reaction Characterized with LAPS and SPIM. Langmuir, 2017, 33, 3170-3177.	3.5	16
21	The effect of gold nanoparticles on the impedance of microcapsules visualized by scanning photo-induced impedance microscopy. Electrochimica Acta, 2016, 208, 39-46.	5.2	25
22	Image detection of yeast Saccharomyces cerevisiae by light-addressable potentiometric sensors (LAPS). Electrochemistry Communications, 2016, 72, 41-45.	4.7	25
23	An investigation into the synthesis of azido-functionalised coumarins for application in 1,3-dipolar â€œclickâ€•cycloaddition reactions. Dyes and Pigments, 2016, 135, 36-40.	3.7	3
24	Beta Cell Hubs Dictate Pancreatic Islet Responses toÂGlucose. Cell Metabolism, 2016, 24, 389-401.	16.2	370
25	Incorporation of Cobaltâ€Cyclen Complexes into Templated Nanogels Results in Enhanced Activity. Chemistry - A European Journal, 2016, 22, 3764-3774.	3.3	7
26	Disposable MMP-9 sensor based on the degradation of peptide cross-linked hydrogel films using electrochemical impedance spectroscopy. Biosensors and Bioelectronics, 2015, 68, 660-667.	10.1	69
27	â€œClickâ€•Patterning of Self-Assembled Monolayers on Hydrogen-Terminated Silicon Surfaces and Their Characterization Using Light-Addressable Potentiometric Sensors. Langmuir, 2015, 31, 9646-9654.	3.5	27
28	High-sensitivity light-addressable potentiometric sensors using silicon on sapphire functionalized with self-assembled organic monolayers. Sensors and Actuators B: Chemical, 2015, 209, 230-236.	7.8	53
29	Biologically targeted probes for Zn²⁺: a diversity oriented modular â€œclick-S_NAr-clickâ€•approach. Chemical Science, 2014, 5, 3528-3535.	7.4	49
30	Catalytic and mechanistic studies into the epoxidation of styrenes using manganese complexes of structurally similar polyamine ligands. Organic and Biomolecular Chemistry, 2014, 12, 1124-1134.	2.8	10
31	A synthesis of a 1,1â€²-desymmetrised ferrocene backbone and its facile one-pot double-â€œclickâ€• functionalisation. RSC Advances, 2013, 3, 17081.	3.6	7
32	Crystallization of amorphous lactose at high humidity studied by terahertz time domain spectroscopy. Chemical Physics Letters, 2013, 558, 104-108.	2.6	41
33	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 H2O2. Organic and Biomolecular Chemistry, 2013, 11, 1942.	2.8	13
34	Click Triazoles as Chemosensors. Topics in Heterocyclic Chemistry, 2012, , 109-136.	0.2	28
35	Terahertz spectroscopy: a powerful new tool for the chemical sciences?. Chemical Society Reviews, 2012, 41, 2072-2082.	38.1	192
36	Generic protease detection technology for monitoring periodontal disease. Faraday Discussions, 2011, 149, 37-47.	3.2	10

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37	Modular â€˜clickâ€™ sensors for zinc and their application in vivo. Chemical Communications, 2011, 47, 6036.	4.1	82
38	Recent advances in catalytic asymmetric epoxidation using the environmentally benign oxidant hydrogen peroxide and its derivatives. Chemical Society Reviews, 2011, 40, 1722-1760.	38.1	303
39	Chemical sensors that incorporate click-derived triazoles. Chemical Society Reviews, 2011, 40, 2848.	38.1	366
40	Macrocycle Size Matters: â€œSmallâ€•Functionalized Rotaxanes in Excellent Yield Using the CuAAC Active Template Approach. Angewandte Chemie - International Edition, 2011, 50, 4151-4155.	13.8	130
41	Is there really a diagnostically useful relationship between the carbonâ€“oxygen stretching frequencies in metal carboxylate complexes and their coordination mode?. Dalton Transactions, 2010, 39, 446-455.	3.3	52
42	Desymmetrisation of (4R,5S)-4,5-diphenylimidazolidine-2-thione using pentafluorophenyl active esters. Tetrahedron Letters, 2010, 51, 1423-1425.	1.4	3
43	Cyclam-Based â€œClickatesâ€• Homogeneous and Heterogeneous Fluorescent Sensors for Zn(II). Inorganic Chemistry, 2010, 49, 3789-3800.	4.0	106
44	Responsive Metal Complexes: A Clickâ€Based â€œAllosteric Scorpionateâ€•Complex Permits the Detection of a Biological Recognition Event by EPR/ENDOR Spectroscopy. Chemistry - A European Journal, 2009, 15, 3720-3728.	3.3	34
45	Sensor materials for the detection of proteases. Biosensors and Bioelectronics, 2009, 24, 2113-2118.	10.1	38
46	A Synthetically Simple, Click-Generated Cyclam-Based Zinc(II) Sensor. Inorganic Chemistry, 2009, 48, 319-324.	4.0	158
47	Synthesis and DNA binding ability of cyclamâ€“amino acid conjugates. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3007-3010.	2.2	7
48	A preliminary investigation into a rationally designed catalytic system for the epoxidation of alkenes based on a bipyridyl core. Journal of Molecular Catalysis A, 2008, 296, 1-8.	4.8	12
49	Effective Methods for the Biotinylation of Azamacrocycles. Journal of Organic Chemistry, 2007, 72, 8280-8289.	3.2	25
50	Investigations into the efficacy of methyhlphosphonic acid functionalised 1,4,7-triazacyclononane ligands in bleaching catalysis. Green Chemistry, 2007, 9, 996.	9.0	12
51	The application of manganese complexes of ligands derived from 1,4,7-triazacyclononane in oxidative catalysis. Dalton Transactions, 2006, , 645-661.	3.3	87
52	An alternative model for the asymmetric addition of cyanide to aldehydes catalysed by titaniumâ€“salen complexes based on a structurally related ironâ€“salen complex. Tetrahedron: Asymmetry, 2006, 17, 1625-1628.	1.8	14
53	Improved synthesis of the valuable peptidomimetic intermediate 3-azido-4-hydroxy cyclopentanoic acid. Tetrahedron: Asymmetry, 2006, 17, 2235-2239.	1.8	4
54	Concentration-Dependent Chemo- and Regioselective Metalation of 6,6â€²-Dibromo-2,2â€²-bipyridine. Synlett, 2006, 2006, 1759-1761.	1.8	1

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55	Enantioselective Protonation of a Lithium Enolate Derived from 2-Methyl-1-tetralone Using Chiral Sulfonamides. Bulletin of the Chemical Society of Japan, 2005, 78, 906-909.	3.2	9
56	The synthesis of unsymmetrically N-substituted chiral 1,4,7-triazacyclononanes. Organic and Biomolecular Chemistry, 2004, 2, 2664-2670.	2.8	19
57	Gene-specific chromatin damage in human spermatozoa can be blocked by antioxidants that target mitochondria. Reproductive BioMedicine Online, 2003, 7, 407-418.	2.4	20
58	Structure, modelling and dynamic behaviour of aza- and azaoxamacrocyclic ligands derived from (R,R)-1,2-diaminocyclohexaneElectronic supplementary information (ESI) available: different views of compounds 6, 6a and 6b. See http://www.rsc.org/suppdata/ob/b3/b306963j/. Organic and Biomolecular Chemistry, 2003, 1, 4058.	2.8	8
59	Synthesis of C2-symmetric aza- and azaoxa-macrocyclic ligands derived from (1R,2R)-1,2-diaminocyclohexane and their applications in catalysis. Dalton Transactions, 2003, , 2043-2052.	3.3	29
60	Conformational Chiral Recognition in a Simple Urea. Supramolecular Chemistry, 2002, 14, 353-357.	1.2	4
61	The synthesis of C2-symmetric 1,4,7-triazacyclononane ligands derived from chiral aziridines. New Journal of Chemistry, 2002, 26, 1054-1059.	2.8	21
62	Solvent-mediated selective single and double ring-opening of N-tosyl-activated aziridines using benzylamine. Tetrahedron: Asymmetry, 2002, 13, 269-272.	1.8	28
63	Polymeric Scavenger Reagents in Organic Synthesis. European Journal of Organic Chemistry, 2001, 2001, 1213-1224.	2.4	84
64	An Efficient Route to Symmetrically and Unsymmetrically Substituted Azamacrocyclic Ligands. European Journal of Organic Chemistry, 2001, 2001, 4233.	2.4	14
65	Catalytic Allylic Oxidation of Alkenes Using an Asymmetric Kharaschâ€“Sosnovsky Reaction. Angewandte Chemie - International Edition, 2001, 40, 3567.	13.8	219
66	A Remarkably Efficient and Direct Route for the Synthesis of Binucleating 1,4,7-Triazacyclononane Ligands. Synthesis, 2001, 2001, 2381.	2.3	3
67	A facile, strain-induced 1,2-aryl migration in 5,6-diarylacenaphthenes. Tetrahedron Letters, 2000, 41, 6915-6918.	1.4	16
68	A direct route to obtain manganese(III) complexes with a new class of asymmetrical Schiff base ligands. New Journal of Chemistry, 2000, 24, 235-241.	2.8	48
69	An efficient one-pot route to symmetrically and unsymmetrically substituted 1,4,7-triazacyclononanes also results in the isolation of a stable macrocyclic aminal. Tetrahedron Letters, 1999, 40, 9363-9365.	1.4	9
70	Further attempts to rationalise the co-ordination chemistry of manganese with Schiff base ligands and supplementary carboxylate donors. Journal of the Chemical Society Dalton Transactions, 1999, , 31-42.	1.1	45
71	Structurally diverse manganese(III) complexes of tetradentate N2O2 Schiff-base ligands with ancillary carboxylate donors. Journal of the Chemical Society Dalton Transactions, 1997, , 1805-1814.	1.1	49
72	MM2 force field parameterisation, modelling and structure prediction of salen-type monomeric and hydrogen-bonded dimeric manganese complexes. Tetrahedron, 1996, 52, 10193-10204.	1.9	15

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73	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 bisâˆ—N-[2-(4-methyl)phenyl]-salicylideneiminatoâˆ— manganese(II). Polyhedron, 1996, 15, 1375-1382.	2.2	9
74	The reaction of the P2N2 Schiff base ligand en=P2 with MI2 salts and the reaction of the tetraiodine adduct of en=P2 with unactivated coarse grain metal powders: a comparative study (en=P2=N,Nâ€²-bis[(o-diphenylphosphino)benzylidene]ethylene-diamine; M=Mn, Co and Ni). Inorganica Chimica Acta, 1995, 232, 145-150.	2.4	12
75	Structrually diverse managanese(III) carboxylate complexes of N2O2 donor set symmetrical Schiff base ligands. Journal of the Chemical Society Chemical Communications, 1994, , 2193.	2.0	27
76	The crystal structure of [Mn(salpn)(acetate)]2(H2O)3; the first example of a manganese(III) Schiff base polymeric complex containing a dimeric repeat unit [salpn =N,Nâ€²-bis(salicylidene)-1,3-diaminopropane]. Journal of the Chemical Society Chemical Communications, 1992, , 1524-1526.	2.0	36