

# Nathan D Mcclenaghan

## List of Publications by Year in descending order

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110  
papers

5,136  
citations

94381

37  
h-index

91828

69  
g-index

127  
all docs

127  
docs citations

127  
times ranked

5737  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective and Cooperative Photocycloadditions within Multistranded Aromatic Sheets. <i>Journal of the American Chemical Society</i> , 2022, , .	6.6	2
2	Damming an electronic energy reservoir: ion-regulated electronic energy shuttling in a [2]rotaxane. <i>Chemical Science</i> , 2021, 12, 9196-9200.	3.7	3
3	Influence of Positional Isomerism on the Chiroptical Properties of Functional Aromatic Oligoamide Foldamers. <i>ChemPlusChem</i> , 2021, 86, 496-503.	1.3	4
4	Bioinspired Luminescent Europium-Based Probe Capable of Discrimination between Ag <sup>+</sup> and Cu <sup>+</sup> . <i>Inorganic Chemistry</i> , 2021, 60, 10791-10798.	1.9	3
5	Alkylation of the Î±-amino C-H bonds of anilines photocatalyzed by a DMEDA-Cu-benzophenone complex: reaction scope and mechanistic studies. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 5800-5805.	1.5	4
6	Light- and pH-regulated Water-soluble Pseudorotaxanes Comprising a Cucurbit[7]uril and a Flavylium-based Axle. <i>Chemistry - A European Journal</i> , 2021, 27, 16512-16522.	1.7	6
7	Ratiometric Luminescence Detection of Copper(I) by a Resonant System Comprising Two Antenna/Lanthanide Pairs. <i>Inorganic Chemistry</i> , 2021, 60, 17426-17434.	1.9	2
8	Regulation of Macrocyclic Shuttling Rates in [2]Rotaxanes by Amino Acid Speed Bumps in Organic Aqueous Solvent Mixtures. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 5820-5827.	1.2	12
9	Macrocyclic Hamilton receptor-shuttling dynamics in [2]rotaxanes. <i>Supramolecular Chemistry</i> , 2020, 32, 546-556.	1.5	5
10	Five-component, one-pot synthesis of an electroactive rotaxane comprising a bisferrocene macrocycle. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 1564-1571.	1.3	1
11	A fluorosulfonate-prolinate derivative as low molecular weight gelator for perfluorocarbons. <i>Chemical Communications</i> , 2020, 56, 8655-8658.	2.2	5
12	Hydrogen Bonding Donor-Acceptor Stenhouse Adducts. <i>ChemPhotoChem</i> , 2020, 4, 407-412.	1.5	23
13	Aromatic oligoamide foldamers as versatile scaffolds for induced circularly polarized luminescence at adjustable wavelengths. <i>Chemical Communications</i> , 2019, 55, 9825-9828.	2.2	19
14	Photochromic rotaxanes and pseudorotaxanes. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2102-2111.	1.6	13
15	Photoreversible stretching of a BAPTA chelator marshalling Ca <sup>2+</sup> -binding in aqueous media. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2801-2811.	1.3	3
16	Photo-triggered polymer nanomedicines: From molecular mechanisms to therapeutic applications. <i>Advanced Drug Delivery Reviews</i> , 2019, 138, 148-166.	6.6	69
17	Designed Long-Lived Emission from CdSe Quantum Dots through Reversible Electronic Energy Transfer with a Surface-Bound Chromophore. <i>Angewandte Chemie</i> , 2018, 130, 3158-3161.	1.6	17
18	Macrocyclic Hamilton-type receptors comprising a ferrocene pivot. <i>Supramolecular Chemistry</i> , 2018, 30, 869-875.	1.5	4

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19	Designed Long-lived Emission from CdSe Quantum Dots through Reversible Electronic Energy Transfer with a Surface-Bound Chromophore. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3104-3107.	7.2	29
20	A fluorescent AND logic gate based on a ferrocene-naphthalimide-piperazine format responsive to acidity and oxidizability. <i>Dyes and Pigments</i> , 2018, 157, 278-283.	2.0	28
21	Molecular engineering of logic gate types by module rearrangement in "Pourbaix Sensors": the effect of excited-state electric fields. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 6195-6201.	1.5	23
22	Influence of amino acid sequence in a peptidic Cu <sup>+</sup> -responsive luminescent probe inspired by the copper chaperone CusF. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 5626-5634.	1.5	4
23	Light-driven water oxidation using hybrid photosensitizer-decorated Co <sub>3</sub> O <sub>4</sub> nanoparticles. <i>Materials Today Energy</i> , 2018, 9, 506-515.	2.5	11
24	InnenrÄ¼cktitelbild: Polymersome Popping by Light-Induced Osmotic Shock under Temporal, Spatial, and Spectral Control ( <i>Angew. Chem.</i> 6/2017). <i>Angewandte Chemie</i> , 2017, 129, 1699-1699.	1.6	0
25	Synthetic water soluble di-/tritopic molecular receptors exhibiting Ca <sup>2+</sup> /Mg <sup>2+</sup> exchange. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 4367-4374.	1.5	1
26	Electrospray deposition of quantum dot-doped Ge <sub>23</sub> Sb <sub>7</sub> S <sub>70</sub> chalcogenide glass films. <i>Thin Solid Films</i> , 2017, 626, 194-199.	0.8	13
27	Remote Photoregulated Ring Gliding in a [2]Rotaxane via a Molecular Effector. <i>Organic Letters</i> , 2017, 19, 154-157.	2.4	26
28	Polymersome Popping by Light-Induced Osmotic Shock under Temporal, Spatial, and Spectral Control. <i>Angewandte Chemie</i> , 2017, 129, 1588-1592.	1.6	18
29	Polymersome Popping by Light-Induced Osmotic Shock under Temporal, Spatial, and Spectral Control. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1566-1570.	7.2	71
30	2D and 3D surface photopatterning via laser-promoted homopolymerization of a perfluorophenyl azide-substituted BODIPY. <i>Nanoscale</i> , 2017, 9, 16908-16914.	2.8	5
31	Photosensitizer localization in amphiphilic block copolymers controls photodynamic therapy efficacy. <i>Nanoscale</i> , 2017, 9, 11180-11186.	2.8	30
32	Electronic Energy Transfer Modulation in a Dynamic Foldaxane: Proof-of-Principle of a Lifetime-Based Conformation Probe. <i>Angewandte Chemie</i> , 2016, 128, 1350-1355.	1.6	16
33	Electronic Energy Transfer Modulation in a Dynamic Foldaxane: Proof-of-Principle of a Lifetime-Based Conformation Probe. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1328-1333.	7.2	39
34	High performance optical oxygen sensors based on iridium complexes exhibiting interchromophore energy shuttling. <i>Analyst</i> , The, 2016, 141, 3090-3097.	1.7	26
35	Water-soluble naphthalimide-based "Pourbaix sensors": pH and redox-activated fluorescent AND logic gates based on photoinduced electron transfer. <i>New Journal of Chemistry</i> , 2016, 40, 9917-9922.	1.4	33
36	Benzophenone <i>vs</i> <i>i</i> . Copper/Benzophenone in Light-Promoted Atom Transfer Radical Additions (ATRA): Highly Effective Iodoperfluoroalkylation of Alkenes/Alkynes and Mechanistic Studies. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2949-2961.	2.1	48

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37	Photoinduced Electron Transfer and Hole Migration in Nanosized Helical Aromatic Oligoamide Foldamers. <i>Journal of the American Chemical Society</i> , 2016, 138, 13568-13578.	6.6	71
38	Photoswitchable azobenzene-appended iridium( <sup>III</sup> ) complexes. <i>Dalton Transactions</i> , 2016, 45, 13726-13741.	1.6	18
39	Harnessing Reversible Electronic Energy Transfer: From Molecular Dyads to Molecular Machines. <i>ChemPhysChem</i> , 2016, 17, 1794-1804.	1.0	15
40	A prototype reversible polymersome-stabilized H <sub>2</sub> S photoejector operating under pseudophysiological conditions. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 6394-6397.	1.5	3
41	Saccharide-induced modulation of photoluminescence lifetime in microgels. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16812-16821.	1.3	7
42	A blue 4-aminofluorophenyl cation showing an extended pH range stability. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8920-8925.	1.3	7
43	[2]Rotaxanes comprising a macrocyclic Hamilton receptor obtained using active template synthesis: synthesis and guest complexation. <i>Supramolecular Chemistry</i> , 2016, 28, 733-741.	1.5	13
44	Lanthanide Luminescence Modulation by Cation-π Interaction in a Bioinspired Scaffold: Selective Detection of Copper(I). <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11453-11456.	7.2	28
45	Reactivity of a Zn(Cys) <sub>2</sub> (His) <sub>2</sub> Zinc Finger with Singlet Oxygen: Oxidation Directed toward Cysteines but not Histidines. <i>Chemistry - A European Journal</i> , 2015, 21, 14002-14010.	1.7	11
46	Effective ascorbate-free and photolabile click reactions in water using a photoreducible copper(II)-ethylenediamine precatalyst. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 1950-1959.	1.3	11
47	XXVth IUPAC Symposium on Photochemistry (XXV IUPAC Photochemistry). <i>Pure and Applied Chemistry</i> , 2015, 87, 509-509.	0.9	0
48	Supramolecular Architectures Incorporating Hydrogen Bonding Barbiturate Receptors. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 192-202.	1.3	10
49	Photodrivn [2]rotaxane-catenane interconversion. <i>Chemical Communications</i> , 2015, 51, 2810-2813.	2.2	23
50	Copper(I)-photocatalyzed trifluoromethylation of alkenes. <i>Chemical Communications</i> , 2015, 51, 9571-9574.	2.2	56
51	Switchable platinum-based tweezers with Pt-Pt bonding and selective luminescence quenching. <i>Dalton Transactions</i> , 2015, 44, 8543-8551.	1.6	31
52	Reversible Photocapture of a [2]Rotaxane Harnessing a Barbiturate Template. <i>Journal of Organic Chemistry</i> , 2015, 80, 988-996.	1.7	19
53	Artificial Ion- and Photosensitive Membranes Based on an Amphiphilic Azacrown-Substituted Hemicyanine. <i>ChemPhysChem</i> , 2014, 15, 2823-2833.	1.0	6
54	Direct Observation of Reversible Electronic Energy Transfer Involving an Iridium Center. <i>Inorganic Chemistry</i> , 2014, 53, 2677-2682.	1.9	52

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55	Efficient Oxidation and Destabilization of Zn(Cys) <sub>4</sub> Zinc Fingers by Singlet Oxygen. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9365-9368.	7.2	14
56	Sunlight-Driven Copper-Catalyst Activation Applied to Photolabile Click Chemistry. <i>Chemistry - A European Journal</i> , 2014, 20, 13181-13187.	1.7	27
57	Terpy(Pt-salphen) <sub>2</sub> Switchable Luminescent Molecular Tweezers. <i>Chemistry - A European Journal</i> , 2014, 20, 15799-15807.	1.7	30
58	Formation of a Hydrogen-Bonded Barbiturate [2]-Rotaxane. <i>Organic Letters</i> , 2014, 16, 1358-1361.	2.4	24
59	Ruthenium(II) complexes based on tridentate polypyridine ligands that feature long-lived room-temperature luminescence. <i>Chemical Communications</i> , 2013, 49, 9110.	2.2	47
60	Impact of Water on the Cis-Trans Photoisomerization of Hydroxychalcones. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4167-4173.	1.1	29
61	A Photoreducible Copper(II)-Terpyridine Complex of Practical Value: Generation of a Highly Reactive Click Catalyst. <i>Chemistry - A European Journal</i> , 2013, 19, 16231-16239.	1.7	23
62	Hydrosoluble dendritic poly(ethylene oxide)s with zinc tetraphenylporphyrin branching points as photosensitizers. <i>Polymer Chemistry</i> , 2013, 4, 1903.	1.9	24
63	Incorporation of luminescent CdSe/ZnS core-shell quantum dots and PbS quantum dots into solution-derived chalcogenide glass films. <i>Optical Materials Express</i> , 2013, 3, 729.	1.6	35
64	Photolabile: synthesis, metal ion complexation and photochromism. <i>Supramolecular Chemistry</i> , 2012, 24, 462-472.	1.5	4
65	Concatenation of reversible electronic energy transfer and photoinduced electron transfer to control a molecular piston. <i>Chemical Communications</i> , 2012, 48, 3981.	2.2	22
66	Facile Access to Highly Fluorescent Nanofibers and Microcrystals via Reprecipitation of 2-Phenyl-benzoxazole Derivatives. <i>Langmuir</i> , 2012, 28, 855-863.	1.6	34
67	Dynamics of ion-regulated photoinduced electron transfer in BODIPY-BAPTA conjugates. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1666-1674.	1.6	30
68	Photocatalyzed Sulfide Oxygenation with Water as the Unique Oxygen Atom Source. <i>Inorganic Chemistry</i> , 2012, 51, 2222-2230.	1.9	60
69	Copper Catalyst Activation Driven by Photoinduced Electron Transfer: A Prototype Photolabile Click Catalyst. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7137-7141.	7.2	46
70	A ratiometric luminescent oxygen sensor based on a chemically functionalized quantum dot. <i>Chemical Communications</i> , 2011, 47, 325-327.	2.2	74
71	Reversible hydrocarbon/perfluorocarbon phase-switching of [Ru(bipy) <sub>3</sub> ] <sup>2+</sup> driven by supramolecular heteromeric fluorinated carboxylate-carboxylic acid H-bond interactions. <i>Chemical Communications</i> , 2011, 47, 8250.	2.2	16
72	Ion Translocation in Artificial Molecule-based Systems Induced by Light, Electrons, or Chemicals. <i>Australian Journal of Chemistry</i> , 2011, 64, 1301.	0.5	10

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73	BF <sub>2</sub> -Azadipyromethenes: Probing the Excited-State Dynamics of a NIR Fluorophore and Photodynamic Therapy Agent. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14034-14039.	1.1	88
74	Facile functionalization of a fully fluorescent perfluorophenyl BODIPY: photostable thiol and amine conjugates. <i>Chemical Communications</i> , 2011, 47, 10425.	2.2	40
75	Optically Active Tripodal Dendritic Polyoxometalates: Synthesis, Characterization and Their Use in Asymmetric Sulfide Oxidation with Hydrogen Peroxide. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 727-738.	1.0	35
76	Photomodulation of the Magnetisation of Co Nanocrystals Decorated with Rhodamine B. <i>ChemPhysChem</i> , 2011, 12, 2915-2919.	1.0	2
77	Harnessing supramolecular interactions in organic solid-state devices: Current status and future potential. <i>Coordination Chemistry Reviews</i> , 2010, 254, 2429-2445.	9.5	111
78	Reversible electronic energy transfer: a means to govern excited-state properties of supramolecular systems. <i>Chemical Society Reviews</i> , 2010, 39, 506-515.	18.7	59
79	Enhanced photolabelling of luminescent Eu(III) centres with a chelating antenna in a micellar nanodomain. <i>Chemical Communications</i> , 2010, 46, 2486.	2.2	25
80	Shining light on supramolecular assemblies. <i>Pure and Applied Chemistry</i> , 2009, 81, 1677-1685.	0.9	3
81	Enantiopure Dendritic Polyoxometalates: Chirality Transfer from Dendritic Wedges to a POM Cluster for Asymmetric Sulfide Oxidation. <i>Chemistry - A European Journal</i> , 2009, 15, 8703-8708.	1.7	58
82	Improving the photophysical properties of copper(I) bis(phenanthroline) complexes. <i>Coordination Chemistry Reviews</i> , 2008, 252, 2572-2584.	9.5	307
83	Equilibration between Three Different Excited States in a Bichromophoric Copper(I) Polypyridine Complex. <i>Journal of the American Chemical Society</i> , 2007, 129, 8688-8689.	6.6	62
84	Extending the Light-Harvesting Properties of Transition-Metal Dendrimers. <i>ChemPhysChem</i> , 2007, 8, 2643-2651.	1.0	40
85	Excited-state equilibration in a meso-/microporous material-hosted bichromophoric [Ruthenium (2,2'-bipyridine) <sub>3</sub> ] <sup>2+</sup> : Reversible energy transfer and photosensitized electron pumping. <i>Inorganica Chimica Acta</i> , 2007, 360, 987-994.	1.2	18
86	Hierarchical self-assembly of all-organic photovoltaic devices. <i>Tetrahedron</i> , 2006, 62, 2050-2059.	1.0	74
87	Chemical approaches to nanometre-scale logic gates. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S1847-S1872.	0.7	52
88	Excited-state equilibration: a process leading to long-lived metal-to-ligand charge transfer luminescence in supramolecular systems. <i>Coordination Chemistry Reviews</i> , 2005, 249, 1336-1350.	9.5	229
89	The Anthracen-9-ylmethoxy Unit: An Underperforming Motif Within the Fluorescent PET (Photoinduced Electron Transfer) Sensing Framework. <i>Journal of Fluorescence</i> , 2005, 15, 769-775.	1.3	37
90	Preparation and Photophysical Properties of Mixed-Ligand Cyclometallated Complexes of Ir(III) with a Dendritic Bipyridine Ligand. <i>Russian Journal of General Chemistry</i> , 2005, 75, 665-671.	0.3	5

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91	Enhanced Photovoltaic Response in Hydrogen-Bonded All-Organic Devices. <i>Organic Letters</i> , 2005, 7, 3409-3412.	2.4	124
92	Supramolecular Control of Oligothiophenevinylene-Fullerene Interactions: Evidence for a Ground-State EDA Complex. <i>Organic Letters</i> , 2005, 7, 807-810.	2.4	48
93	Photocapture of dynamic hydrogen-bonded assemblies. <i>International Journal of Photoenergy</i> , 2004, 6, 185-192.	1.4	6
94	Molecular-Scale Logic Gates. <i>ChemInform</i> , 2004, 35, no.	0.1	0
95	Molecular-Scale Logic Gates. <i>Chemistry - A European Journal</i> , 2004, 10, 574-586.	1.7	591
96	Switching between molecular switch types by module rearrangement: Ca <sup>2+</sup> -enabled, H <sup>+</sup> -driven OFF-ON, H <sup>+</sup> -driven YES and PASS 0 as well as H <sup>+</sup> , Ca <sup>2+</sup> -driven AND logic operations. <i>Chemical Communications</i> , 2004, , 2048-2049.	2.2	78
97	Solvent Switching of Intramolecular Energy Transfer in Bichromophoric Systems: Photophysics of (2,2'-Bipyridine)tetracyanoruthenate(II)/Pyrenyl Complexes. <i>Inorganic Chemistry</i> , 2003, 42, 5489-5497.	1.9	78
98	Absorption Spectra and Photophysical Properties of a Series of Polypyridine Ligands Containing Appended Pyrenyl and Anthryl Chromophores and of Their Ruthenium(II) and Osmium(II) Complexes. <i>Journal of Physical Chemistry A</i> , 2003, 107, 447-455.	1.1	74
99	Facile Synthesis of a Fullerene-Barbituric Acid Derivative and Supramolecular Catalysis of Its Photoinduced Dimerization. <i>Journal of the American Chemical Society</i> , 2003, 125, 13004-13005.	6.6	74
100	Ruthenium(II) Dendrimers Containing Carbazole-Based Chromophores as Branches. <i>Journal of the American Chemical Society</i> , 2003, 125, 5356-5365.	6.6	195
101	The Pyridyl-Tag Strategy Applied to the Hydrocarbon/Perfluorocarbon Phase-Switching of a Porphyrin and a Fullerene. <i>Journal of the American Chemical Society</i> , 2002, 124, 12942-12943.	6.6	26
102	Towards ruthenium(ii) polypyridine complexes with prolonged and predetermined excited state lifetimes Electronic supplementary information (ESI) available: synthesis of the new ligands bpy-pyr and pyr-bpy-pyr and of their ruthenium compounds. See <a href="http://www.rsc.org/suppdata/cc/b1/b110291e/">http://www.rsc.org/suppdata/cc/b1/b110291e/</a> . <i>Chemical Communications</i> , 2002, , 602-603.	2.2	75
103	Simultaneously Multiply-Configurable or Superposed Molecular Logic Systems Composed of ICT (Internal Charge Transfer) Chromophores and Fluorophores Integrated with One- or Two-Ion Receptors. <i>Chemistry - A European Journal</i> , 2002, 8, 4935-4945.	1.7	216
104	Recent advances in luminescent polymetallic dendrimers containing the 2,3-bis(2-pyridyl)pyrazine bridging ligand. <i>Coordination Chemistry Reviews</i> , 2002, 229, 67-74.	9.5	79
105	Logische Schaltungen mit leuchtenden Molekülen. <i>Nachrichten Aus Der Chemie</i> , 2001, 49, 602-606.	0.0	20
106	Title is missing!. <i>Chemical Society Reviews</i> , 2001, 30, 367-375.	18.7	165
107	Title is missing!. <i>Chemical Communications</i> , 2001, , 2634-2635.	2.2	32
108	A density functional theory study of the surface relaxation and reactivity of Cu <sub>2</sub> O(100). <i>Surface Science</i> , 2000, 464, 223-232.	0.8	33

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109	Proof-of-Principle of Molecular-Scale Arithmetic. <i>Journal of the American Chemical Society</i> , 2000, 122, 3965-3966.	6.6	323
110	Metal complexes as components of luminescent signalling systems. <i>Coordination Chemistry Reviews</i> , 1999, 185-186, 297-306.	9.5	68