

Graham N Newton

List of Publications by Year in descending order

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96
papers

2,894
citations

159585

30
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182427

51
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106
all docs

106
docs citations

106
times ranked

2890
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-way switching in a cyanide-bridged [CoFe] chain. <i>Nature Chemistry</i> , 2012, 4, 921-926.	13.6	288
2	Programmable spin-state switching in a mixed-valence spin-crossover iron grid. <i>Nature Communications</i> , 2014, 5, 3865.	12.8	178
3	Supramolecular Metal Oxides: Programmed Hierarchical Assembly of a Protein-Sized 21 kDa $[(\text{C}_{16}\text{H}_{36}\text{N})_{19}\{\text{H}_2\text{NC}(\text{CH}_2)_2\text{O}\}_3\text{P}_2\text{S}_2]$ Polyoxometalate Assembly. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 4388-4391.	13.8	168
4	Cyanide-Bridged Molecular Squares – The Building Units of Prussian Blue. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3031-3042.	2.0	116
5	Supramolecular assemblies of organo-functionalised hybrid polyoxometalates: from functional building blocks to hierarchical nanomaterials. <i>Chemical Society Reviews</i> , 2022, 51, 293-328.	38.1	103
6	Structural and Compositional Control in $\{M_{12}\}$ Cobalt and Nickel Coordination Clusters Detected Magnetochemically and with Cryospray Mass Spectrometry. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1340-1344.	13.8	84
7	Host-Guest Hybrid Redox Materials Self-Assembled from Polyoxometalates and Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2019, 31, e1904182.	21.0	77
8	Trading Templates: Supramolecular Transformations between $\{Co_{11}3\}$ and $\{Co_{11}2\}$ Nanoclusters. <i>Journal of the American Chemical Society</i> , 2008, 130, 790-791.	13.7	75
9	3D-Printable Photochromic Molecular Materials for Reversible Information Storage. <i>Advanced Materials</i> , 2018, 30, e1800159.	21.0	75
10	2021 roadmap on lithium sulfur batteries. <i>JPhys Energy</i> , 2021, 3, 031501.	5.3	74
11	Undecanuclear mixed-valence $3d-4f$ bimetallic clusters. <i>Chemical Communications</i> , 2009, , 3568.	4.1	69
12	Shining a light on the photo-sensitisation of organic-inorganic hybrid polyoxometalates. <i>Dalton Transactions</i> , 2018, 47, 5120-5136.	3.3	66
13	Mapping the Sequential Self-Assembly of Heterometallic Clusters: From a Helix to a Grid. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 4844-4848.	13.8	63
14	Controlled Reactivity Tuning of Metal-Functionalized Vanadium Oxide Clusters. <i>Chemistry - A European Journal</i> , 2015, 21, 7686-7689.	3.3	53
15	Molecular redox species for next-generation batteries. <i>Chemical Society Reviews</i> , 2021, 50, 5863-5883.	38.1	53
16	A Multi-Redox Responsive Cyanometalate-Based Metallogel. <i>Chemistry - A European Journal</i> , 2017, 23, 1502-1506.	3.3	52
17	Redox-Controlled Magnetic $\{Mn_{13}\}$ Keggin Systems. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5716-5720.	13.8	51
18	Following the self assembly of supramolecular MOFs using X-ray crystallography and cryospray mass spectrometry. <i>Chemical Science</i> , 2010, 1, 62.	7.4	48

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19	Asymmetric Hybrid Polyoxometalates: A Platform for Multifunctional Redox-Active Nanomaterials. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18281-18285.	13.8	46
20	A Brønsted-Ligand-Based Iron Complex as a Molecular Switch with Five Accessible States. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5658-5662.	13.8	46
21	Heat Capacity Reveals the Physics of a Frustrated Spin Tube. <i>Physical Review Letters</i> , 2010, 105, 037206.	7.8	45
22	Cobalt Antiferromagnetic Ring and Grid Single-Molecule Magnet. <i>Chemistry - an Asian Journal</i> , 2009, 4, 1660-1663.	3.3	43
23	Tuning the electronic structure of organic-inorganic hybrid polyoxometalates: The crucial role of the covalent linkage. <i>Polyhedron</i> , 2018, 154, 1-20.	2.2	43
24	Redox-active organic-inorganic hybrid polyoxometalate micelles. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11577-11581.	10.3	41
25	Ferromagnetically coupled chiral cyanide-bridged {Ni ₆ Fe ₄ } cages. <i>Dalton Transactions</i> , 2010, 39, 4730.	3.3	39
26	Synthesis and characterisation of a lanthanide-capped dodecavanadate cage. <i>Chemical Communications</i> , 2013, 49, 3395.	4.1	39
27	A Simple Approach to the Visible-Light Photoactivation of Molecular Metal Oxides. <i>Inorganic Chemistry</i> , 2017, 56, 12169-12177.	4.0	38
28	Orbital Engineering: Photoactivation of an Organofunctionalized Polyoxotungstate. <i>Chemistry - A European Journal</i> , 2017, 23, 47-50.	3.3	35
29	Stabilization of Polyoxometalate Charge Carriers via Redox-Driven Nanoconfinement in Single-Walled Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115619.	13.8	35
30	Cyanide-Bridged Decanuclear Cobalt-Iron Cage. <i>Inorganic Chemistry</i> , 2014, 53, 5899-5901.	4.0	34
31	Exploring a Series of Isostructural Dodecanuclear Mixed Ni:Co Clusters: Toward the Control of Elemental Composition Using pH and Stoichiometry. <i>Inorganic Chemistry</i> , 2009, 48, 1097-1104.	4.0	32
32	Contrasting Magnetism of [Mn ^{III} ₄] and [Mn ^{II} ₂ Mn ^{III} ₂] Squares. <i>Inorganic Chemistry</i> , 2010, 49, 368-370.	4.0	30
33	Multiredox Active [3 Å– 3] Copper Grids. <i>Inorganic Chemistry</i> , 2013, 52, 9714-9716.	4.0	30
34	Chiral Single-Chain Magnet: Helically Stacked [Mn ^{III} ₂ Cu ^{II}] Triangles. <i>Inorganic Chemistry</i> , 2014, 53, 4272-4274.	4.0	29
35	Pre-programmed self-assembly of polynuclear clusters. <i>Dalton Transactions</i> , 2018, 47, 7384-7394.	3.3	29
36	Triple-stranded ferric helices: a π - π interaction-driven structural hierarchy of Fe ₅ , Fe ₇ , and Fe ₁₇ clusters. <i>Dalton Transactions</i> , 2013, 42, 16185.	3.3	26

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37	Encapsulation controlled single molecule magnetism in tetrathiafulvalene-capped cyanide-bridged cubes. Dalton Transactions, 2012, 41, 13601.	3.3	25
38	Redox-Active Hybrid Polyoxometalate-Stabilised Gold Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 14331-14335.	13.8	25
39	X-ray Magnetic Circular Dichroism Investigation of the Electron Transfer Phenomena Responsible for Magnetic Switching in a Cyanide-Bridged [CoFe] Chain. Inorganic Chemistry, 2013, 52, 13956-13962.	4.0	23
40	Lability-Controlled Syntheses of Heterometallic Clusters. Angewandte Chemie - International Edition, 2014, 53, 2941-2944.	13.8	23
41	Chemistry and supramolecular chemistry of chromium horseshoes. Chemical Communications, 2008, , 1560.	4.1	22
42	Electrochemistry of redox-active molecules confined within narrow carbon nanotubes. Chemical Society Reviews, 2021, 50, 10895-10916.	38.1	20
43	Solvent-induced on/off switching of intramolecular electron transfer in a cyanide-bridged trigonal bipyramidal complex. Dalton Transactions, 2016, 45, 17104-17107.	3.3	18
44	Single-molecule imaging and kinetic analysis of intermolecular polyoxometalate reactions. Chemical Science, 2021, 12, 7377-7387.	7.4	18
45	Organic-Inorganic Hybrid Polyoxotungstates As Configurable Charge Carriers for High Energy Redox Flow Batteries. ACS Applied Energy Materials, 2021, 4, 8765-8773.	5.1	17
46	Carboxylic Acid Functionalized Spin-Crossover Iron(II) Grids for Tunable Switching and Hybrid Electrode Fabrication. Inorganic Chemistry, 2018, 57, 14013-14017.	4.0	16
47	Effects of chain length on the size, stability, and electronic structure of redox-active organic-inorganic hybrid polyoxometalate micelles. Molecular Systems Design and Engineering, 2019, 4, 995-999.	3.4	16
48	Sustainability of Battery Technologies: Today and Tomorrow. ACS Sustainable Chemistry and Engineering, 2021, 9, 6507-6509.	6.7	16
49	A Cyanide-Bridged Magnetically Switchable Cage with Encapsulated Water Molecules. Inorganic Chemistry, 2016, 55, 12114-12117.	4.0	14
50	A Brønsted-Ligand-Based Iron Complex as a Molecular Switch with Five Accessible States. Angewandte Chemie, 2019, 131, 5714-5718.	2.0	14
51	Post-functionalization of a photoactive hybrid polyoxotungstate. Dalton Transactions, 2018, 47, 10590-10594.	3.3	13
52	Decoupling manufacturing from application in additive manufactured antimicrobial materials. Biomaterials Science, 2021, 9, 5397-5406.	5.4	13
53	Physical and Electrochemical Modulation of Polyoxometalate Ionic Liquids via Organic Functionalization. European Journal of Inorganic Chemistry, 2019, 2019, 456-460.	2.0	12
54	Asymmetric Hybrid Polyoxometalates: A Platform for Multifunctional Redox-Active Nanomaterials. Angewandte Chemie, 2019, 131, 18449-18453.	2.0	12

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55	Monitoring the Formation of Coordination Complexes Using Electrospray Mass Spectrometry. Chemistry - an Asian Journal, 2009, 4, 681-687.	3.3	11
56	Pentanuclear and Octanuclear Manganese Helices. European Journal of Inorganic Chemistry, 2015, 2015, 2193-2198.	2.0	11
57	Transition metal decorated soft nanomaterials through modular self-assembly of an asymmetric hybrid polyoxometalate. Chemical Communications, 2020, 56, 8237-8240.	4.1	11
58	Two-electron redox-active tricyano iron(II) complex with 2,4,6-tris(2-pyrimidyl)-1,3,5-triazine as a building block for coordination polymers. Dalton Transactions, 2018, 47, 13402-13407.	3.3	10
59	Stepwise replacement of nickel with cobalt ions in a [Ni ₆] cluster. Dalton Transactions, 2013, 42, 6701.	3.3	9
60	Dimerized Spin-Crossover Iron(II) Complexes as Supramolecular Anion Capsules. European Journal of Inorganic Chemistry, 2013, 2013, 781-787.	2.0	9
61	Syntheses, structures and magnetic properties of two-dimensional chiral coordination polymers based on a tetradentate chiral ligand. New Journal of Chemistry, 2014, 38, 1946-1949.	2.8	9
62	Cobalt complexes with redox-active anthraquinone-type ligands. Dalton Transactions, 2018, 47, 7804-7811.	3.3	9
63	Substituent dependence on the spin crossover behaviour of mononuclear Fe(II) complexes with asymmetric tridentate ligands. Dalton Transactions, 2019, 48, 3231-3236.	3.3	9
64	Synthesis, Crystal Structures and Magnetic Properties of Composites Incorporating an Fe(II) Spin Crossover Complex and Polyoxometalates. Inorganics, 2017, 5, 48.	2.7	8
65	Synthetic, structural and magnetic characterisation of a one-dimensional nickel chain constructed using cis,trans-1,3,5-triaminocyclohexane as a building block. Journal of Molecular Structure, 2006, 796, 23-27.	3.6	6
66	[M ₆ Ma ₄] Cage Compounds with Chiral Bidentate Ligands. Macromolecular Symposia, 2012, 317-318, 286-292.	0.7	6
67	Planar trinuclear complexes with linear arrays of metal ions. Inorganic Chemistry Frontiers, 2015, 2, 125-128.	6.0	6
68	Studies on the Magnetic Ground State of a Spin Möbius Strip. Chemistry - A European Journal, 2016, 22, 14205-14212.	3.3	6
69	Spin crossover behavior of a tetranuclear iron(II) grid complex with a hydroxyl-group functionalized multidentate ligand. Journal of Magnetism and Magnetic Materials, 2019, 485, 16-20.	2.3	6
70	Functionalization of Carbon Surfaces Tunes the Redox Stability of Polyoxometalate@Carbon Electrodes. ACS Applied Energy Materials, 2020, 3, 12308-12315.	5.1	6
71	Redox-Active Hybrid Polyoxometalate-Stabilised Gold Nanoparticles. Angewandte Chemie, 2020, 132, 14437-14441.	2.0	6
72	cis-Tach based pentadecadentate ligands as building blocks in the synthesis of FeIII and PdII coordination clusters. Dalton Transactions, 2009, , 1549.	3.3	5

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73	A Mixed-Addenda Mo/W Organofunctionalised Hybrid Polyoxometalate. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	2.0	5
74	A rectangular Ni-Fe cluster with unusual cyanide bridges. <i>Dalton Transactions</i> , 2012, 41, 11270.	3.3	4
75	Syntheses, structures and magnetism of mixed-valence Mn ¹⁹ and Mn ²¹ complexes supported by alkylamine-based alkoxo-bridging ligands. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 538-543.	6.0	4
76	Heteroleptic iron(II) complexes with naphthoquinone-type ligands. <i>Dalton Transactions</i> , 2020, 49, 1485-1491.	3.3	4
77	A ring of grids: a giant spin-crossover cluster. <i>Chemical Communications</i> , 2021, 57, 10162-10165.	4.1	4
78	Linking Magnetic Clusters: Ferrimagnetic Interactions in a Nonanuclear Nickel(II) Cluster. <i>Chemistry Letters</i> , 2012, 41, 691-692.	1.3	3
79	Self-assembly of a cobalt octacyanotungstate network into a giant chiral helix. <i>Polyhedron</i> , 2014, 68, 157-163.	2.2	3
80	Electrochemical Carbon Dioxide Reduction Catalyzed by a Dinuclear Ruthenium Complex with a Flexible Bridging Ligand. <i>Chemistry Letters</i> , 2014, 43, 1222-1223.	1.3	3
81	Oxalate-bridged heterometallic chains with monocationic dabco derivatives. <i>Dalton Transactions</i> , 2016, 45, 16182-16189.	3.3	3
82	A Cooperative Photoactive Class-I Hybrid Polyoxometalate With Benzothiadiazole-Imidazolium Cations. <i>Frontiers in Chemistry</i> , 2020, 8, 612535.	3.6	3
83	A series of tetranuclear [2 Å– 2] grid complexes derived from an asymmetric ligand: Structural differences based on metal ion affinities. <i>Pure and Applied Chemistry</i> , 2011, 83, 1721-1729.	1.9	2
84	An antiferromagnetic {Mn ₈ } ring supported by planar multidentate ligands. <i>Science China Chemistry</i> , 2012, 55, 973-977.	8.2	2
85	An Antiferromagnetically Coupled Heterometal Cu ₆ Fe Wheel. <i>Chemistry Letters</i> , 2017, 46, 1197-1199.	1.3	2
86	Photochromic Materials: 3D-Printable Photochromic Molecular Materials for Reversible Information Storage (<i>Adv. Mater.</i> 26/2018). <i>Advanced Materials</i> , 2018, 30, 1870193.	21.0	2
87	Electrochemical reactivity of atomic and molecular species under solid-state confinement. <i>Current Opinion in Electrochemistry</i> , 2022, 34, 101014.	4.8	2
88	Supramolecular Architectures of Copper(II) Perchlorate Complexes of cis,trans-1,3,5-Triaminocyclohexane Assembled Exploiting the Delicate Balance Between Weak and Strong Interactions. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2010, 65, 304-310.	0.7	1
89	Stabilization of Polyoxometalate Charge Carriers via Redox-Driven Nanoconfinement in Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	1
90	Redox-active hierarchical assemblies of hybrid polyoxometalate nanostructures at carbon surfaces. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1777-1784.	6.0	1

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91	Cover Picture: Redox-Controlled Magnetic {Mn ₁₃ } Keggin Systems (Angew. Chem. Int. Ed. 25/2011). Angewandte Chemie - International Edition, 2011, 50, 5587-5587.	13.8	0
92	Innenrücktitelbild: Lability-Controlled Syntheses of Heterometallic Clusters (Angew. Chem. 11/2014). Angewandte Chemie, 2014, 126, 3093-3093.	2.0	0
93	Structure and Magnetic Properties of a Sulfate-bridged Tetracosanuclear Manganese Cluster. Chemistry Letters, 2015, 44, 746-748.	1.3	0
94	Polyoxometalate Chemistry in Carbon Nanotubes. ECS Meeting Abstracts, 2018, , .	0.0	0
95	Oxygen Reduction Pathways in the Li-O ₂ Battery: Understanding Solvent-Water Interactions. ECS Meeting Abstracts, 2020, MA2020-02, 492-492.	0.0	0
96	Charge Carriers for Next-Generation Redox Flow Batteries. , 0, , .		0