T David Harris

List of Publications by Year
in descending order

68 papers	4,674 citations	126907 33 h-index	98798 67 g-index
71 all docs	71 docs citations	71 times ranked	4759 citing authors

#	Article	IF	Citations
1	A hard permanent magnet through molecular design. Communications Chemistry, 2021, 4, .	4.5	5
2	Strong Magnetocrystalline Anisotropy Arising from Metalâ€“Ligand Covalency in a Metalâ€“Organic Candidate for 2D Magnetic Order. Chemistry of Materials, 2021, 33, 8712-8721.	6.7	8
3	Semiquinone radical-bridged M₂ (M = Fe, Co, Ni) complexes with strong magnetic exchange giving rise to slow magnetic relaxation. Chemical Science, 2020, 11, 8196-8203.	7.4	17
4	Enhancing catalytic alkane hydroxylation by tuning the outer coordination sphere in a heme-containing metalâ€“organic framework. Chemical Science, 2020, 11, 5447-5452.	7.4	4
5	Insensitivity of Magnetic Coupling to Ligand Substitution in a Series of Tetraoxolene Radical-Bridged Fe2 Complexes. Inorganic Chemistry, 2020, 59, 4634-4649.	4.0	14
6	Metalâ€“Organic Framework Magnets. Chemical Reviews, 2020, 120, 8716-8789.	47.7	369
7	Metalâ€“Diamidobenzoquinone Frameworks via Post-Synthetic Linker Exchange. Journal of the American Chemical Society, 2020, 142, 4705-4713.	13.7	17
8	A Dimeric Hydride-Bridged Complex with Geometrically Distinct Iron Centers Giving Rise to an S = 3 Ground State. Journal of the American Chemical Society, 2019, 141, 11970-11975.	13.7	13
9	A Series of Early Lanthanide Chloranilate Frameworks with a Square Grid Topology. Australian Journal of Chemistry, 2019, 72, 778.	0.9	3
10	Strong Ï€-Backbonding Enables Record Magnetic Exchange Coupling Through Cyanide. Journal of the American Chemical Society, 2019, 141, 17092-17097.	13.7	21
11	Dramatic enhancement in pH sensitivity and signal intensity through ligand modification of a dicobalt PARACEST probe. Chemical Communications, 2019, 55, 794-797.	4.1	11
12	Thiosemiquinoid Radical-Bridged Cr^{III}₂ Complexes with Strong Magnetic Exchange Coupling. Inorganic Chemistry, 2019, 58, 7044-7053.	4.0	23
13	Reversible redox switching of magnetic order and electrical conductivity in a 2D manganese benzoquinoid framework. Chemical Science, 2019, 10, 4652-4661.	7.4	61
14	Selective Binding and Quantitation of Calcium with a Cobalt-Based Magnetic Resonance Probe. Journal of the American Chemical Society, 2019, 141, 7163-7172.	13.7	13
15	Effect of Magnetic Coupling on Water Proton Relaxivity in a Series of Transition Metal Gd^{III} Complexes. Inorganic Chemistry, 2018, 57, 5810-5819.	4.0	11
16	A structurally-characterized peroxomanganese(<scp>iv</scp>) porphyrin from reversible O₂ binding within a metalâ€“organic framework. Chemical Science, 2018, 9, 1596-1603.	7.4	32
17	Harnessing Structural Dynamics in a 2D Manganeseâ€“Benzoquinoid Framework To Dramatically Accelerate Metal Transport in Diffusion-Limited Metal Exchange Reactions. Journal of the American Chemical Society, 2018, 140, 11444-11453.	13.7	31
18	A Ferric Semiquinoid Single-Chain Magnet via Thermally-Switchable Metalâ€“Ligand Electron Transfer. Journal of the American Chemical Society, 2018, 140, 6550-6553.	13.7	78

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19	Electronic Effects of Ligand Substitution in a Family of Co^{II}₂ PARACEST pH Probes. Inorganic Chemistry, 2018, 57, 11252-11263.	4.0	11
20	Spin-crossover and high-spin iron(<scp>ii</scp>) complexes as chemical shift¹⁹F magnetic resonance thermometers. Chemical Science, 2017, 8, 2448-2456.	7.4	61
21	2D Conductive Iron-Quinoid Magnets Ordering up to T_c = 105 K via Heterogenous Redox Chemistry. Journal of the American Chemical Society, 2017, 139, 4175-4184.	13.7	196
22	Ratiometric quantitation of redox status with a molecular Fe2 magnetic resonance probe. Chemical Science, 2017, 8, 4424-4430.	7.4	27
23	A Porous Array of Clock Qubits. Journal of the American Chemical Society, 2017, 139, 7089-7094.	13.7	86
24	CO Binding at a Four-Coordinate Cobaltous Porphyrin Site in a Metalâ€“Organic Framework: Structural, EPR, and Gas Adsorption Analysis. Inorganic Chemistry, 2017, 56, 4654-4661.	4.0	27
25	Spectroscopic and Computational Studies of Spin States of Iron(IV) Nitrido and Imido Complexes. Inorganic Chemistry, 2017, 56, 4751-4768.	4.0	41
26	Ratiometric pH Imaging with a Co^{II}₂ MRI Probe via CEST Effects of Opposing pH Dependences. Journal of the American Chemical Society, 2017, 139, 15836-15847.	13.7	48
27	Catalysis in MOFs: general discussion. Faraday Discussions, 2017, 201, 369-394.	3.2	14
28	pH-Dependent spin state population and ¹⁹F NMR chemical shift via remote ligand protonation in an iron(<scp>ii</scp>) complex. Chemical Communications, 2017, 53, 12962-12965.	4.1	32
29	A structurally-characterized zinc 2,5-diiminobenzoquinoid chain compound. Inorganica Chimica Acta, 2017, 460, 108-113.	2.4	2
30	Solid-State Redox Switching of Magnetic Exchange and Electronic Conductivity in a Benzoquinoid-Bridged Mn^{II} Chain Compound. Journal of the American Chemical Society, 2016, 138, 6583-6590.	13.7	47
31	A Cu^{II}₂ Paramagnetic Chemical Exchange Saturation Transfer Contrast Agent Enabled by Magnetic Exchange Coupling. Journal of the American Chemical Society, 2016, 138, 7804-7807.	13.7	29
32	Dioxygen binding at a four-coordinate cobaltous porphyrin site in a metalâ€“organic framework: structural, EPR, and O₂adsorption analysis. Inorganic Chemistry Frontiers, 2016, 3, 536-540.	6.0	43
33	Metalâ€“Organic Frameworks as Potential Catalysts for Industrial 1-Butene Production. ACS Central Science, 2016, 2, 125-127.	11.3	6
34	An S = 12 semiquinoid radical-bridged Mn₆wheel complex assembled from an asymmetric redox-active bridging ligand. Chemical Communications, 2016, 52, 1006-1008.	4.1	10
35	Electron Hopping through Double-Exchange Coupling in a Mixed-Valence Diiminobenzoquinone-Bridged Fe₂ Complex. Journal of the American Chemical Society, 2015, 137, 12617-12626.	13.7	52
36	A series of tetraazalene radical-bridged M₂(M = Cr^{III}, Mn^{II},) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Science, 2015, 6, 6639-6648.	7.4	66

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37	A 2D Semiquinone Radical-Containing Microporous Magnet with Solvent-Induced Switching from T_c = 26 to 80 K. Journal of the American Chemical Society, 2015, 137, 15699-15702.	13.7	164
38	Electronic Effects of Ligand Substitution on Spin Crossover in a Series of Diiminoquinonoid-Bridged Fe^{II}₂ Complexes. Inorganic Chemistry, 2015, 54, 359-369.	4.0	66
39	Radical ligand-containing single-molecule magnets. Coordination Chemistry Reviews, 2015, 289-290, 149-176.	18.8	489
40	A Five-Coordinate Heme Dioxygen Adduct Isolated within a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2014, 136, 16489-16492.	13.7	85
41	Spin crossover iron(<scp>ii</scp>) complexes as PARACEST MRI thermometers. Chemical Science, 2014, 5, 2461-2465.	7.4	89
42	An Azophenine Radical-Bridged Fe₂ Single-Molecule Magnet with Record Magnetic Exchange Coupling. Journal of the American Chemical Society, 2013, 135, 16845-16848.	13.7	128
43	Low-Spin Hexacoordinate Mn(III): Synthesis and Spectroscopic Investigation of Homoleptic Tris(pyrazolyl)borate and Tris(carbene)borate Complexes. Inorganic Chemistry, 2013, 52, 144-159.	4.0	55
44	A canted antiferromagnetic ordered phase of cyanido-bridged MnIII2ReIV single-chain magnets. Chemical Communications, 2012, 48, 9717.	4.1	57
45	Modulation of magnetic behavior vialigand-field effects in the trigonal clusters (^{Ph}L)Fe₃L[*]₃(L[*]= thf, py,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	7.4	20
46	Trigonal Mn₃ and Co₃ Clusters Supported by Weak-Field Ligands: A Structural, Spectroscopic, Magnetic, and Computational Investigation into the Correlation of Molecular and Electronic Structure. Inorganic Chemistry, 2012, 51, 10290-10299.	4.0	24
47	Slow Magnetic Relaxation Induced by a Large Transverse Zero-Field Splitting in a Mn^{II}Re^{IV}(CN)₂ Single-Chain Magnet. Journal of the American Chemical Society, 2012, 134, 7521-7529.	13.7	118
48	Cyanido-bridged one-dimensional systems assembled from [ReIVCl4(CN)2]2â^' and [MII(cyclam)]2+ (M = Ni,) Tj ETQq0 0 0 rgBT /Overlo	8.2	16
49	Record Ferromagnetic Exchange through Cyanide and Elucidation of the Magnetic Phase Diagram for a CuIIReIV(CN)2Chain Compound. Journal of the American Chemical Society, 2011, 133, 123-130.	13.7	89
50	Expanded redox accessibility via ligand substitution in an octahedral Fe6Br6 cluster. Chemical Communications, 2011, 47, 6344.	4.1	17
51	Multi-Site Reactivity: Reduction of Six Equivalents of Nitrite To Give an Fe₆(NO)₆ Cluster with a Dramatically Expanded Octahedral Core. Journal of the American Chemical Society, 2011, 133, 13852-13855.	13.7	29
52	[(^HL)₂Fe₆(NCMe)_m]ⁿ⁺ (m = 0, 2, 4, 6; n = â^'1, 0, 1, 2, 3, 4, 6): An Electron-Transfer Series Featuring Octahedral Fe₆ Clusters Supported by a Hexaamide Ligand Platform. Journal of the American Chemical Society, 2011, 133, 8293-8306.	13.7	55
53	Influence of structure on exchange strength and relaxation barrier in a series of FeIIReIV(CN)2 single-chain magnets. Chemical Science, 2011, 2, 1688.	7.4	81
54	Spin Crossover in a Four-Coordinate Iron(II) Complex. Journal of the American Chemical Society, 2011, 133, 3824-3827.	13.7	111

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55	Slow magnetic relaxation and electron delocalization in anS=9/2iron(II/III) complex with two crystallographically inequivalent iron sites. Journal of Chemical Physics, 2011, 134, 174507.	3.0	28
56	A cyano-bridged FeIIReIV(CN)2 cluster incorporating two high-magnetic anisotropy building units. Inorganica Chimica Acta, 2011, 369, 91-96.	2.4	14
57	[ReCl₄(CN)₂]^{2â¯}: A High Magnetic Anisotropy Building Unit Giving Rise to the Single-Chain Magnets (DMF)₄MReCl₄(CN)₂ (M = Mn, Fe,) Tj ETQq1 1 0.784314 rgBT	2.1	148
58	Slow Magnetic Relaxation and Charge-Transfer in Cyano-Bridged Coordination Clusters Incorporating [Re(CN)₇]^{3â¯/4â¯}. Inorganic Chemistry, 2010, 49, 8886-8896.	4.0	72
59	Reversible luminescent reaction of amines with copper(i) cyanide. Chemical Communications, 2010, 46, 4565.	4.1	59
60	Slow Magnetic Relaxation in a Family of Trigonal Pyramidal Iron(II) Pyrrolide Complexes. Journal of the American Chemical Society, 2010, 132, 18115-18126.	13.7	317
61	Slow Magnetic Relaxation in a High-Spin Iron(II) Complex. Journal of the American Chemical Society, 2010, 132, 1224-1225.	13.7	457
62	Magnetic Exchange Coupling in Actinide-Containing Molecules. Inorganic Chemistry, 2009, 48, 3382-3395.	4.0	120
63	A four-shell, 136-metal 3d-4f heterometallic cluster approximating a rectangular parallelepiped. Chemical Communications, 2009, , 4354.	4.1	96
64	Synthesis and characterization of the cubic coordination cluster (H3IBT=4,5-bis(tetrazol-5-yl)imidazole). Journal of Molecular Structure, 2008, 890, 139-143.	3.6	23
65	Linkage isomerism in a face-centered cubic Cu6Cr8(CN)24 cluster with an S = 15 ground state. Chemical Communications, 2007, , 1360.	4.1	38
66	Synthesis and X-ray Crystal Structure of [(C₅Ph₅)CrCl(Î¼-Cl)₂Tl]₂:â€‰ An Example of the Rare Mâ¯Xâ¯Tl^I Linkage (X = Halide). Organometallics, 2007, 26, 4843-4845.	2.3	10
67	Highâ€Spin Ni₃Fe₂(CN)₆ and Cu₃Cr₂(CN)₆ Clusters Based on a Trigonal Bipyramidal Geometry. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 2380-2385.	1.2	22
68	1,1â€²-Diethyl-2,2â€²,3,3â€²,4,4â€²,5,5â€²-octamethylferrocenium tetracyanoethylenide, [Fe(C5EtMe4)2]+[TCNE]â¯, a charge-transfer salt magnetic solid with a novel structural motif. Inorganica Chimica Acta, 2006, 359, 4651-4654.	2.4	1