Mauro Perfetti

List of Publications by Year
in descending order

41 papers	2,618 citations	279798 23 h-index	265206 42 g-index
48 all docs	48 docs citations	48 times ranked	2244 citing authors

#	Article	IF	Citations
1	Magnetic Anisotropy in a Dysprosium/DOTA Singleâ€Molecule Magnet: Beyond Simple Magnetoâ€Structural Correlations. Angewandte Chemie - International Edition, 2012, 51, 1606-1610.	13.8	523
2	Magnetic Anisotropy and Spinâ€Parity Effect Along the Series of Lanthanide Complexes with DOTA. Angewandte Chemie - International Edition, 2013, 52, 350-354.	13.8	275
3	A linear cobalt(II) complex with maximal orbital angular momentum from a non-Aufbau ground state. Science, 2018, 362, .	12.6	254
4	Giant field dependence of the low temperature relaxation of the magnetization in a dysprosium(iii)â€“DOTA complex. Chemical Communications, 2011, 47, 3751.	4.1	204
5	Beyond the anisotropy barrier: slow relaxation of the magnetization in both easy-axis and easy-plane Ln(trensal) complexes. Chemical Communications, 2014, 50, 1648-1651.	4.1	192
6	Quantum coherence in a processable vanadyl complex: new tools for the search of molecular spin qubits. Chemical Science, 2016, 7, 2074-2083.	7.4	144
7	Chemical tunnel-splitting-engineering in a dysprosium-based molecular nanomagnet. Nature Communications, 2018, 9, 1292.	12.8	81
8	Exchange coupling and single molecule magnetism in redox-active tetraoxolene-bridged dilanthanide complexes. Chemical Science, 2018, 9, 1221-1230.	7.4	70
9	Determination of Magnetic Anisotropy in the LnTRENSAL Complexes (Ln = Tb, Dy, Er) by Torque Magnetometry. Inorganic Chemistry, 2015, 54, 3090-3092.	4.0	62
10	Relaxation Dynamics and Magnetic Anisotropy in a Lowâ€Symmetry Dy^{III} Complex. Chemistry - A European Journal, 2016, 22, 5552-5562.	3.3	56
11	Magnetic Anisotropy Trends along a Full 4f-Series: The fⁿ⁺⁷ Effect. Journal of the American Chemical Society, 2021, 143, 8108-8115.	13.7	50
12	Determination of the electronic structure of a dinuclear dysprosium single molecule magnet without symmetry idealization. Chemical Science, 2019, 10, 2101-2110.	7.4	48
13	Magnetic Anisotropy in Pentacoordinate Ni^{II} and Co^{II} Complexes: Unraveling Electronic and Geometrical Contributions. Chemistry - A European Journal, 2017, 23, 3648-3657.	3.3	45
14	Angularâ€Resolved Magnetometry Beyond Triclinic Crystals Part II: Torque Magnetometry of Cp*ErCOT Singleâ€Molecule Magnets. Chemistry - A European Journal, 2014, 20, 14051-14056.	3.3	39
15	Cantilever torque magnetometry on coordination compounds: from theory to experiments. Coordination Chemistry Reviews, 2017, 348, 171-186.	18.8	35
16	Grafting Single Molecule Magnets on Gold Nanoparticles. Small, 2014, 10, 323-329.	10.0	31
17	Magnetic Anisotropy Switch: Easy Axis to Easy Plane Conversion and Vice Versa. Advanced Functional Materials, 2018, 28, 1801846.	14.9	31
18	Coupling molecular spin centers to microwave planar resonators: towards integration of molecular qubits in quantum circuits. Dalton Transactions, 2016, 45, 16596-16603.	3.3	29

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19	Thermal Properties of Solids at Room and Cryogenic Temperatures. The International Cryogenics Monograph Series, 2014, , .	0.1	25
20	Spin Helicity in Chiral Lanthanide Chains. Inorganic Chemistry, 2016, 55, 10068-10074.	4.0	25
21	Mapping of single-site magnetic anisotropy tensors in weakly coupled spin clusters by torque magnetometry. Physical Chemistry Chemical Physics, 2014, 16, 17220.	2.8	24
22	Spectroscopic Determination of the Electronic Structure of a Uranium Singleâ€Ion Magnet. Chemistry - A European Journal, 2019, 25, 1758-1766.	3.3	23
23	Molecular Order in Buried Layers of TbPc₂ Singleâ€Molecule Magnets Detected by Torque Magnetometry. Advanced Materials, 2016, 28, 6946-6951.	21.0	22
24	Exploring the potential of highly charged Ru(II)- and heteronuclear Ru(II)/Cu(II)-polypyridyl complexes as antimicrobial agents. Journal of Inorganic Biochemistry, 2021, 220, 111467.	3.5	20
25	A terminal neptunium(V)â€“mono(oxo) complex. Nature Chemistry, 2022, 14, 342-349.	13.6	19
26	Diamondoid Structure in a Metalâ€“Organic Framework of Fe₄ Singleâ€Molecule Magnets. Chemistry - A European Journal, 2016, 22, 13705-13714.	3.3	18
27	A dysprosium single molecule magnet outperforming current pseudocontact shift agents. Chemical Science, 2022, 13, 5860-5871.	7.4	15
28	Single Crystal Investigations Unravel the Magnetic Anisotropy of the â€œSquare-In Squareâ€•Cr4Dy4 SMM Coordination Cluster. Frontiers in Chemistry, 2019, 7, 6.	3.6	13
29	Importance of Axial Symmetry in Elucidating Lanthanideâ€“Transition Metal Interactions. Inorganic Chemistry, 2020, 59, 235-243.	4.0	13
30	The Multiple Faces, and Phases, of Magnetic Anisotropy. Inorganic Chemistry, 2019, 58, 11875-11882.	4.0	12
31	Lanthanide Complexes with a Tripodal Nitroxyl Radical Showing Strong Magnetic Coupling. Inorganic Chemistry, 2020, 59, 16591-16598.	4.0	11
32	Trisâ€{hydridotris(1â€pyrazolyl)borato}actinide Complexes: Synthesis, Spectroscopy, Crystal Structure, Bonding Properties and Magnetic Behaviour. Chemistry - A European Journal, 2020, 26, 11293-11306.	3.3	11
33	Chiral, Heterometallic Lanthanideâ€“Transition Metal Complexes by Design. Inorganics, 2018, 6, 72.	2.7	6
34	Descriptors of magnetic anisotropy revisited. Chemical Communications, 2018, 54, 12163-12166.	4.1	6
35	Local structure and magnetism of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:mi mathvariant="normal">F</mml:mi><mml:msub><mml:mi mathvariant="normal">u</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow></	3.2	6
36	Formation of TbPc₂ Single-Molecule Magnetsâ€™ Covalent 1D Structures via Acyclic Diene Metathesis. ACS Omega, 2017, 2, 517-521.	3.5	4

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37	Heterotrimetallic {LnOVPt} complexes with antiferromagnetic Lnâ€“V coupling and magnetic memory. Chemical Communications, 2020, 56, 11062-11065.	4.1	4
38	Single Molecule Magnet Features in the Butterfly [Co^{III}₂Ln^{III}₂] Pivalate Family with Alcoholâ€Amine Ligands. European Journal of Inorganic Chemistry, 2021, 2021, 3191-3210.	2.0	4
39	Longitudinal and transverse NMR relaxivities of Ln(III)-DOTA complexes: A comprehensive investigation. Journal of Chemical Physics, 2021, 155, 214201.	3.0	4
40	Heat Capacity. The International Cryogenics Monograph Series, 2014, , 3-37.	0.1	0
41	Commentary on "An intermediate state between the kagome-ice and the fully polarized state in Dy$_2$Ti$_2$O$_7$". Papers in Physics, 2015, 7, .	0.2	0