

Elena Garlatti

List of Publications by Year in descending order

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30
papers

683
citations

567281

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g-index

31
all docs

31
docs citations

31
times ranked

755
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding magnetic relaxation in single-ion magnets with high blocking temperature. <i>Physical Review B</i> , 2020, 101, .	3.2	94
2	Coherent Manipulation of a Molecular Ln-Based Nuclear Qudit Coupled to an Electron Qubit. <i>Journal of the American Chemical Society</i> , 2018, 140, 9814-9818.	13.7	86
3	Portraying entanglement between molecular qubits with four-dimensional inelastic neutron scattering. <i>Nature Communications</i> , 2017, 8, 14543.	12.8	48
4	Unveiling phonons in a molecular qubit with four-dimensional inelastic neutron scattering and density functional theory. <i>Nature Communications</i> , 2020, 11, 1751.	12.8	43
5	A Cost-Effective Semi-Ab Initio Approach to Model Relaxation in Rare-Earth Single-Molecule Magnets. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8826-8832.	4.6	35
6	Magnetic Exchange Interactions in the Molecular Nanomagnet Mn_{12} . <i>Physical Review Letters</i> , 2017, 119, 217202.	7.8	34
7	Direct observation of finite size effects in chains of antiferromagnetically coupled spins. <i>Nature Communications</i> , 2015, 6, 7061.	12.8	30
8	Magnetic Anisotropy of Cr_7Ni Spin Clusters on Surfaces. <i>Advanced Functional Materials</i> , 2012, 22, 3706-3713.	14.9	28
9	Controlled coherent dynamics of $[\text{VO}(\text{TPP})]$, a prototype molecular nuclear qudit with an electronic ancilla. <i>Chemical Science</i> , 2021, 12, 12046-12055.	7.4	28
10	A Detailed Study of the Magnetism of Chiral $\{\text{Cr}_7\text{M}\}$ Rings: An Investigation into Parametrization and Transferability of Parameters. <i>Journal of the American Chemical Society</i> , 2014, 136, 9763-9772.	13.7	26
11	Assessing the Nature of Chiral-Induced Spin Selectivity by Magnetic Resonance. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6341-6347.	4.6	25
12	Theoretical design of molecular nanomagnets for magnetic refrigeration. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	24
13	Anisotropy of CoII transferred to the Cr_7Co polymetallic cluster <i>via</i> strong exchange interactions. <i>Chemical Science</i> , 2018, 9, 3555-3562.	7.4	20
14	Relaxation dynamics in the frustrated Cr_9 ring probed by NMR. <i>Physical Review B</i> , 2016, 93, .	3.2	19
15	Probing local magnetization in molecular heterometallic Cr_2 . <i>Physical Review B</i> , 2010, 82, .	3.2	15
16	Local spin density in the Cr_7Ni antiferromagnetic molecular ring and ^{53}Cr -NMR. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 406002.	1.8	15
17	Relaxation dynamics in a Fe_{10} nanomagnet. <i>Physical Review B</i> , 2013, 87, .	3.2	15
18	Radiofrequency to Microwave Coherent Manipulation of an Organometallic Electronic Spin Qubit Coupled to a Nuclear Qudit. <i>Inorganic Chemistry</i> , 2021, 60, 11273-11286.	4.0	15

#	ARTICLE	IF	CITATIONS
19	Magnetic properties and relaxation dynamics of a frustrated Ni ₇ molecular nanomagnet. Journal of Physics Condensed Matter, 2012, 24, 104006.	1.8	14
20	Linking [MIII3] triangles with "double-headed" phenolic oximes. Dalton Transactions, 2012, 41, 8777.	3.3	12
21	Linking [FeIII3] triangles with "double-headed" phenolic oximes. Chemical Communications, 2011, 47, 6018.	4.1	11
22	Unravelling the Spin Dynamics of Molecular Nanomagnets with Four-Dimensional Inelastic Neutron Scattering. European Journal of Inorganic Chemistry, 2019, 2019, 1106-1118.	2.0	11
23	Heterodimers of heterometallic rings. Dalton Transactions, 2016, 45, 16610-16615.	3.3	8
24	Breaking the ring: ⁵³ Cr-NMR on the Cr ₈ Cd molecular nanomagnet. Journal of Physics Condensed Matter, 2020, 32, 244003.	1.8	8
25	Magnetic properties and hyperfine interactions in Cr ₈ , Cr ₇ Cd, and Cr ₇ Ni molecular rings from ¹⁹ F-NMR. Journal of Chemical Physics, 2014, 140, 144306.	3.0	4
26	Slow Magnetic Relaxation of a 12-Metallacrown-4 Complex with a Manganese(III)-Copper(II) Heterometallic Ring Motif. Inorganic Chemistry, 2020, 59, 11894-11900.	4.0	4
27	Response to "Comment on 'Theoretical design of molecular nanomagnets for magnetic refrigeration'" [Appl. Phys. Lett. 105, 046101 (2014)]. Applied Physics Letters, 2014, 105, 046102.	3.3	3
28	Low-field spin dynamics of Cr ₇ and Cr ₇ Physical Review B, 2017, 96, .	3.2	3
29	Origin of the Unusual Ground-State Spin <i>S</i> = 9 in a Cr ₁₀ Single-Molecule Magnet. Journal of the American Chemical Society, 2022, 144, 12520-12535.	13.7	3
30	Low temperature spin dynamics in Cr ₇ Ni-Cu-Cr ₇ Ni coupled molecular rings. Journal of Applied Physics, 2014, 115, .	2.5	2