Matteo Atzori

List of Publications by Year in descending order

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44 papers	2,310 citations	270111 25 h-index	312153 41 g-index
44 all docs	44 docs citations	44 times ranked	2041 citing authors

#	Article	IF	Citations
1	Magnetic 3dâ€“4f Chiral Clusters Showing Multimetal Site Magneto-Chiral Dichroism. Journal of the American Chemical Society, 2022, 144, 8837-8847.	6.6	28
2	Role of structural dimensionality in the magneto-chiral dichroism of chiral molecular ferrimagnets. Journal of Materials Chemistry C, 2022, 10, 13939-13945.	2.7	3
3	Probing Vibrational Symmetry Effects and Nuclear Spin Economy Principles in Molecular Spin Qubits. Inorganic Chemistry, 2021, 60, 140-151.	1.9	35
4	Controlled coherent dynamics of [VO(TPP)], a prototype molecular nuclear qudit with an electronic ancilla. Chemical Science, 2021, 12, 12046-12055.	3.7	28
5	Helicene-Based Ligands Enable Strong Magneto-Chiral Dichroism in a Chiral Ytterbium Complex. Journal of the American Chemical Society, 2021, 143, 2671-2675.	6.6	38
6	Validation of microscopic magnetochiral dichroism theory. Science Advances, 2021, 7, .	4.7	13
7	Macroscopic magneto-chiroptical metasurfaces. Applied Physics Letters, 2021, 118, .	1.5	17
8	Radiofrequency to Microwave Coherent Manipulation of an Organometallic Electronic Spin Qubit Coupled to a Nuclear Qudit. Inorganic Chemistry, 2021, 60, 11273-11286.	1.9	15
9	Magnetoâ€chiral anisotropy: From fundamentals to perspectives. Chirality, 2021, 33, 844-857.	1.3	31
10	Temperature Dependence of Spinâ€“Phonon Coupling in [VO(acac)₂]: A Computational and Spectroscopic Study. Journal of Physical Chemistry C, 2021, 125, 22100-22110.	1.5	15
11	Magnetic Anisotropy Drives Magnetochiral Dichroism in a Chiral Molecular Helix Probed with Visible Light. Journal of the American Chemical Society, 2020, 142, 13908-13916.	6.6	27
12	Storage and retrieval of microwave pulses with molecular spin ensembles. Npj Quantum Information, 2020, 6, .	2.8	26
13	Frontispiece: Magnetoâ€Chiral Dichroism: A Playground for Molecular Chemists. Chemistry - A European Journal, 2020, 26, .	1.7	0
14	Space Charge-Limited Current Transport Mechanism in Crossbar Junction Embedding Molecular Spin Crossovers. ACS Applied Materials & Interfaces, 2020, 12, 31696-31705.	4.0	15
15	Magnetoâ€Chiral Dichroism: A Playground for Molecular Chemists. Chemistry - A European Journal, 2020, 26, 9784-9791.	1.7	38
16	Unveiling phonons in a molecular qubit with four-dimensional inelastic neutron scattering and density functional theory. Nature Communications, 2020, 11, 1751.	5.8	43
17	First-Principles Investigation of Spinâ€“Phonon Coupling in Vanadium-Based Molecular Spin Quantum Bits. Inorganic Chemistry, 2019, 58, 10260-10268.	1.9	59
18	Spin Dynamics and Phonons, Insights into Potential Molecular Qubits. Proceedings (mdpi), 2019, 26, 46.	0.2	0

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19	Solution-processable Yb/Er 2D-layered metallorganic frameworks with high NIR-emission quantum yields. Journal of Materials Chemistry C, 2019, 7, 11207-11214.	2.7	17
20	The Second Quantum Revolution: Role and Challenges of Molecular Chemistry. Journal of the American Chemical Society, 2019, 141, 11339-11352.	6.6	271
21	A Chiral Prussian Blue Analogue Pushes Magneto-Chiral Dichroism Limits. Journal of the American Chemical Society, 2019, 141, 20022-20025.	6.6	44
22	Structural Effects on the Spin Dynamics of Potential Molecular Qubits. Inorganic Chemistry, 2018, 57, 731-740.	1.9	86
23	Promotion of antiferromagnetic exchange interaction in multinuclear copper(<scp>ii</scp>) complexes via fused oxamato/oxamidato ligands. Dalton Transactions, 2018, 47, 16164-16181.	1.6	7
24	A Rare Example of Four-Coordinate Nonoxido Vanadium(IV) Alkoxide in the Solid State: Structure, Spectroscopy, and Magnetization Dynamics. Inorganic Chemistry, 2018, 57, 11393-11403.	1.9	15
25	Thermal and light-induced spin transition in a nanometric film of a new high-vacuum processable spin crossover complex. Journal of Materials Chemistry C, 2018, 6, 8885-8889.	2.7	31
26	Scaling Up Electronic Spin Qubits into a Three-Dimensional Metalâ€“Organic Framework. Journal of the American Chemical Society, 2018, 140, 12090-12101.	6.6	122
27	A two-qubit molecular architecture for electron-mediated nuclear quantum simulation. Chemical Science, 2018, 9, 6183-6192.	3.7	80
28	Spin Dynamics and Low Energy Vibrations: Insights from Vanadyl-Based Potential Molecular Qubits. Journal of the American Chemical Society, 2017, 139, 4338-4341.	6.6	114
29	Coherent coupling between Vanadyl Phthalocyanine spin ensemble and microwave photons: towards integration of molecular spin qubits into quantum circuits. Scientific Reports, 2017, 7, 13096.	1.6	42
30	Quantum Coherence Times Enhancement in Vanadium(IV)-based Potential Molecular Qubits: the Key Role of the Vanadyl Moiety. Journal of the American Chemical Society, 2016, 138, 11234-11244.	6.6	180
31	Giant spinâ€“phonon bottleneck effects in evaporable vanadyl-based molecules with long spin coherence. Dalton Transactions, 2016, 45, 16635-16643.	1.6	75
32	Room-Temperature Quantum Coherence and Rabi Oscillations in Vanadyl Phthalocyanine: Toward Multifunctional Molecular Spin Qubits. Journal of the American Chemical Society, 2016, 138, 2154-2157.	6.6	286
33	Quantum coherence in a processable vanadyl complex: new tools for the search of molecular spin qubits. Chemical Science, 2016, 7, 2074-2083.	3.7	144
34	Light Conversion Control in NIR-Emissive Optical Materials Based on Heterolanthanide Er_xYb_{3â€“x} Quinolinolato Molecular Components. Chemistry of Materials, 2015, 27, 4082-4092.	3.2	19
35	Complete Series of Chiral Paramagnetic Molecular Conductors Based on Tetramethyl-bis(ethylenedithio)-tetrathiafulvalene (TM-BEDT-TTF) and Chloranilate-Bridged Heterobimetallic Honeycomb Layers. Inorganic Chemistry, 2015, 54, 3643-3653.	1.9	52
36	Switching-on luminescence in anilate-based molecular materials. Dalton Transactions, 2015, 44, 15786-15802.	1.6	28

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37	Tailoring magnetic properties of molecular materials through non-covalent interactions. Inorganic Chemistry Frontiers, 2015, 2, 108-115.	3.0	18
38	Thiophene-benzoquinones: synthesis, crystal structures and preliminary coordination chemistry of derived anilate ligands. Organic and Biomolecular Chemistry, 2014, 12, 8752-8763.	1.5	13
39	Hydrogen-Bonded Supramolecular Architectures Based on Tris(Hydranilato)Metallate(III) (M = Fe, Cr) Metallotectons. Crystal Growth and Design, 2014, 14, 5938-5948.	1.4	21
40	Structural Diversity and Physical Properties of Paramagnetic Molecular Conductors Based on Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) and the Tris(chloranilato)ferrate(III) Complex. Inorganic Chemistry, 2014, 53, 7028-7039.	1.9	40
41	Halogen-bonding in a new family of tris(haloanilato)metallate(<scp>iii</scp>) magnetic molecular building blocks. Dalton Transactions, 2014, 43, 7006-7019.	1.6	47
42	A Family of Layered Chiral Porous Magnets Exhibiting Tunable Ordering Temperatures. Inorganic Chemistry, 2013, 52, 10031-10040.	1.9	101
43	Synthesis and Physical Properties of K₄[Fe(C₅O₅)₂(H₂O)₂](HC₅O₅)(C₅O₅)<sub>2â€“</sup> = Croconate): A Rare Example of Ferromagnetic Coupling via H-bonds. Inorganic Chemistry, 2012, 51, 5360-5367.	1.9	16
44	Functional Molecular Materials. , 0, , .		10