Shang-Da Jiang

List of Publications by Year
in descending order

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71 papers	5,613 citations	126907 33 h-index	85541 71 g-index
78 all docs	78 docs citations	78 times ranked	4062 citing authors

#	Article	IF	Citations
1	An Organometallic Single-Ion Magnet. Journal of the American Chemical Society, 2011, 133, 4730-4733.	13.7	725
2	A Mononuclear Dysprosium Complex Featuring Singleâ€Moleculeâ€Magnet Behavior. Angewandte Chemie - International Edition, 2010, 49, 7448-7451.	13.8	597
3	Understanding the Magnetic Anisotropy toward Single-Ion Magnets. Accounts of Chemical Research, 2016, 49, 2381-2389.	15.6	354
4	Two-Coordinate Co(II) Imido Complexes as Outstanding Single-Molecule Magnets. Journal of the American Chemical Society, 2017, 139, 373-380.	13.7	343
5	Zero-field slow magnetic relaxation from single Co(ii) ion: a transition metal single-molecule magnet with high anisotropy barrier. Chemical Science, 2013, 4, 1802.	7.4	289
6	Room temperature quantum coherence in a potential molecular qubit. Nature Communications, 2014, 5, 5304.	12.8	265
7	Capping Ligand Perturbed Slow Magnetic Relaxation in Dysprosium Singleâ€Ion Magnets. Chemistry - A European Journal, 2011, 17, 12476-12481.	3.3	235
8	High symmetry or low symmetry, that is the question â€“ high performance Dy(<scp>iii</scp>) single-ion magnets by electrostatic potential design. Chemical Science, 2016, 7, 684-691.	7.4	229
9	Series of Lanthanide Organometallic Single-Ion Magnets. Inorganic Chemistry, 2012, 51, 3079-3087.	4.0	228
10	Well-Dispersed Ruthenium in Mesoporous Crystal TiO₂ as an Advanced Electrocatalyst for Hydrogen Evolution Reaction. Journal of the American Chemical Society, 2018, 140, 5719-5727.	13.7	224
11	Direct measurement of dysprosium(III)Ë™Ë™Ë™dysprosium(III) interactions in a single-molecule magnet. Nature Communications, 2014, 5, 5243.	12.8	223
12	Spectroscopic determination of crystal field splittings in lanthanide double deckers. Chemical Science, 2014, 5, 3287.	7.4	111
13	A Mononuclear Dysprosium Complex Featuring Singleâ€Moleculeâ€Magnet Behavior. Angewandte Chemie, 2010, 122, 7610-7613.	2.0	104
14	Thermostability and photoluminescence of Dy(<scp>iii</scp>) single-molecule magnets under a magnetic field. Chemical Science, 2016, 7, 5020-5031.	7.4	100
15	Endohedral Metallofullerene as Molecular High Spin Qubit: Diverse Rabi Cycles in Gd₂@C₇₉N. Journal of the American Chemical Society, 2018, 140, 1123-1130.	13.7	100
16	Magnetic molecular materials with paramagnetic lanthanide ions. Science in China Series B: Chemistry, 2009, 52, 1739-1758.	0.8	87
17	Angularâ€Resolved Magnetometry Beyond Triclinic Crystals: Outâ€ofâ€Equilibrium Studies of Cp*ErCOT Singleâ€Molecule Magnet. Chemistry - A European Journal, 2013, 19, 13726-13731.	3.3	67
18	A general electrochemical strategy for the Sandmeyer reaction. Chemical Science, 2018, 9, 8731-8737.	7.4	67

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19	A 1D dysprosium chain with slow magnetic relaxation constructed from a pyridine-N-oxide ligand. Chemical Communications, 2014, 50, 10434.	4.1	64
20	Prediction of the quantized axis of rare-earth ions: the electrostatic model with displaced point charges. Inorganic Chemistry Frontiers, 2015, 2, 613-619.	6.0	64
21	Does the thermal evolution of molecular structures critically affect the magnetic anisotropy?. Chemical Science, 2015, 6, 4587-4593.	7.4	61
22	A New Bis(phthalocyaninato) Terbium Single-Ion Magnet with an Overall Excellent Magnetic Performance. Inorganic Chemistry, 2017, 56, 13889-13896.	4.0	53
23	Observation of the asphericity of 4f-electron density and its relation to the magnetic anisotropy axis in single-molecule magnets. Nature Chemistry, 2020, 12, 213-219.	13.6	50
24	Dramatic impact of the lattice solvent on the dynamic magnetic relaxation of dinuclear dysprosium single-molecule magnets. Inorganic Chemistry Frontiers, 2018, 5, 1575-1586.	6.0	48
25	A Stable Tripletâ€Groundâ€State Conjugated Diradical Based on a Diindenopyrazine Skeleton. Angewandte Chemie - International Edition, 2021, 60, 4594-4598.	13.8	47
26	Can Nonâ€Kramers Tm^{III} Mononuclear Molecules be Singleâ€Molecule Magnets (SMMs)?. Chemistry - A European Journal, 2016, 22, 4704-4708.	3.3	46
27	Hydrothermal Synthesis, Structures and Magnetic Studies of Transition Metal Sulfates Containing Hydrazine. Inorganic Chemistry, 2011, 50, 144-154.	4.0	45
28	Half-Sandwich Complexes of Dy^{III}: A Janus-Motif with Facile Tunability of Magnetism. Inorganic Chemistry, 2015, 54, 5162-5168.	4.0	42
29	Direct Observation of Very Large Zero-Field Splitting in a Tetrahedral Ni^{II}Se₄ Coordination Complex. Journal of the American Chemical Society, 2015, 137, 12923-12928.	13.7	42
30	From Positive to Negative Zero-Field Splitting in a Series of Strongly Magnetically Anisotropic Mononuclear Metal Complexes. Inorganic Chemistry, 2017, 56, 14809-14822.	4.0	42
31	Enhanced magnetic anisotropy in a tellurium-coordinated cobalt single-ion magnet. Inorganic Chemistry Frontiers, 2017, 4, 701-705.	6.0	40
32	Qubit crossover in the endohedral fullerene Sc₃C₂@C₈₀. Chemical Science, 2018, 9, 457-462.	7.4	40
33	Tri-Manganese(III) Salen-Based Cryptands: A Metal Cooperative Antioxidant Strategy that Overcomes Ischemic Stroke Damage In Vivo. Journal of the American Chemical Society, 2020, 142, 10219-10227.	13.7	35
34	An introduction to molecular spintronics. Science China Chemistry, 2012, 55, 867-882.	8.2	34
35	Novel bis(phthalocyaninato) rare earth complexes with the bulky and strong electron-donating dibutylamino groups: synthesis, spectroscopy, and SMM properties. Inorganic Chemistry Frontiers, 2017, 4, 1465-1471.	6.0	32
36	Determination of magnetic anisotropy in a multinuclear Tb^{III}-based single-molecule magnet. Chemical Communications, 2015, 51, 10373-10376.	4.1	28

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37	Slow Magnetic Relaxation in Weak Easy-Plane Anisotropy: the Case of a Combined Magnetic and HFEPR Study. Inorganic Chemistry, 2017, 56, 697-700.	4.0	27
38	Advances in Lanthanide Single-Ion Magnets. Structure and Bonding, 2014, , 111-141.	1.0	26
39	Programmed Self-Assembly of Heterometallic [3 Ã— 3] Grid [MIICuII4CuI4] (M = Fe, Ni, Cu, and Zn). Inorganic Chemistry, 2013, 52, 6233-6235.	4.0	25
40	Modification of TiO2 Nanoparticles with Organodiboron Molecules Inducing Stable Surface Ti3+ Complex. IScience, 2019, 20, 195-204.	4.1	24
41	Magnetic anisotropy investigation on light lanthanide complexes. Dalton Transactions, 2018, 47, 1966-1971.	3.3	22
42	The solvent effect in an axially symmetric Fe^{III}₄ single-molecule magnet. Chemical Communications, 2014, 50, 15090-15093.	4.1	21
43	High-mobility semiconducting polymers with different spin ground states. Nature Communications, 2022, 13, 2258.	12.8	21
44	Magnetic and HFEPR Studies of Exchange Coupling in a Series of Î¼-Cl Dicobalt Complexes. Inorganic Chemistry, 2017, 56, 2417-2425.	4.0	20
45	Coherent manipulation and quantum phase interference in a fullerene-based electron triplet molecular qutrit. Npj Quantum Information, 2021, 7, .	6.7	20
46	Determination of zero-field splitting in Co2+ halide complexes with magnetic and far-IR measurements. Dalton Transactions, 2017, 46, 7408-7411.	3.3	19
47	Single-Crystal Study of a Low Spin Co(II) Molecular Qubit: Observation of Anisotropic Rabi Cycles. Inorganic Chemistry, 2019, 58, 2330-2335.	4.0	19
48	Electric field manipulation enhanced by strong spin-orbit coupling: promoting rare-earth ions as qubits. National Science Review, 2020, 7, 1557-1563.	9.5	19
49	Mapping the Magnetic Anisotropy at the Atomic Scale in Dysprosium Singleâ€Molecule Magnets. Chemistry - A European Journal, 2018, 24, 16576-16581.	3.3	18
50	Chemical Modification toward Long Spin Lifetimes in Organic Conjugated Radicals. ChemPhysChem, 2018, 19, 2972-2977.	2.1	15
51	Weak exchange coupling effects leading to fast magnetic relaxations in a trinuclear dysprosium single-molecule magnet. Inorganic Chemistry Frontiers, 2020, 7, 447-454.	6.0	15
52	Spin-Electric Coupling with Anisotropy-Induced Vanishment and Enhancement in Molecular Ferroelectrics. Journal of the American Chemical Society, 2022, 144, 8605-8612.	13.7	15
53	Custom Coordination Environments for Lanthanoids: Tripodal Ligands Achieve Near-Perfect Octahedral Coordination for Two Dysprosium-Based Molecular Nanomagnets. Inorganic Chemistry, 2017, 56, 4911-4917.	4.0	14
54	Implementation of Quantum Level Addressability and Geometric Phase Manipulation in Aligned Endohedral Fullerene Qudits. Angewandte Chemie - International Edition, 2022, 61, e202115263.	13.8	13

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55	Orientation mapping of Rabi frequencies in a rare-earth molecular qudit. Inorganic Chemistry Frontiers, 2020, 7, 3875-3881.	6.0	11
56	Evolvement of molecular nanomagnets in China. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120316.	3.4	9
57	Field-induced slow relaxation of magnetization in the S = 3/2 octahedral complexes trans-[Co{(OPPh₂)(EPPh₂)N}₂(dmf)₂], E = S, Se: effects of Coâ€“Se vs. Coâ€“S coordination. Inorganic Chemistry Frontiers, 2019, 6, 1405-1414.	6.0	9
58	Amination of the Gd@C82 endohedral fullerene: tunable substitution effect on quantum coherence behaviors. Chemical Science, 2020, 11, 10737-10743.	7.4	9
59	Accurate and unequivocal determination of the crystal-field parameters of lanthanide ions via a multitechnique approach. Physical Review B, 2019, 99, .	3.2	8
60	A Stable Tripletâ€Groundâ€State Conjugated Diradical Based on a Diindenopyrazine Skeleton. Angewandte Chemie, 2021, 133, 4644-4648.	2.0	8
61	Manipulation of Molecular Qubits by Isotope Effect on Spin Dynamics. CCS Chemistry, 2021, 3, 2548-2556.	7.8	8
62	Consecutive reduction, radical-cyclization, and oxidative-dehydrogenation reaction of ortho-substituted diboryl compounds. Chemical Communications, 2017, 53, 9737-9740.	4.1	7
63	Paramagnetic properties adjustment for Gd@C(9)-C82 by regioselective multi-amination. Carbon, 2020, 158, 320-326.	10.3	4
64	The materials of ammonium metal formate framework: structures, phase transitions and functionalities. Scientia Sinica Chimica, 2021, 51, 410-439.	0.4	4
65	Implementation of Quantum Level Addressability and Geometric Phase Manipulation in Aligned Endohedral Fullerene Qu d its. Angewandte Chemie, 2022, 134, .	2.0	4
66	Determination of the magnetic principal axes of a dysprosium complex with slow relaxation on a single crystal. Journal of Magnetism and Magnetic Materials, 2019, 490, 165475.	2.3	2
67	Conformation-Dependent Spin Relaxation Behaviors of 6-Oxoverdazyl Radical Single Crystals. Crystal Growth and Design, 2020, 20, 2141-2146.	3.0	2
68	Mapping the Magnetic Anisotropy at the Atomic Scale in Dysprosium Single-Molecule Magnets. Chemistry - A European Journal, 2018, 24, 16456-16456.	3.3	1
69	Single-Ion Anisotropy: An Insight to Complicated Magnetic Molecules. Topics in Organometallic Chemistry, 2018, , 227-252.	0.7	1
70	Homoleptic tris(6,6â€²-dimethyl-2,2â€²-bipyridine) rare earth metal complexes. Inorganic Chemistry Frontiers, 2021, 8, 2591-2602.	6.0	1
71	Charge density and magnetic anisotropy of Dy-based single-molecule magnet. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, C1365-C1365.	0.1	0