

# 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	Implementation of Quantum Level Addressability and Geometric Phase Manipulation in Aligned Endohedral Fullerene Qu<i>d</i>s. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115263.	13.8	13
2	Implementation of Quantum Level Addressability and Geometric Phase Manipulation in Aligned Endohedral Fullerene Qu d its. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	4
3	High-mobility semiconducting polymers with different spin ground states. <i>Nature Communications</i> , 2022, 13, 2258.	12.8	21
4	Spin-Electric Coupling with Anisotropy-Induced Vanishment and Enhancement in Molecular Ferroelectrics. <i>Journal of the American Chemical Society</i> , 2022, 144, 8605-8612.	13.7	15
5	A Stable Tripletâ€Groundâ€State Conjugated Diradical Based on a Diindenopyrazine Skeleton. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4594-4598.	13.8	47
6	A Stable Tripletâ€Groundâ€State Conjugated Diradical Based on a Diindenopyrazine Skeleton. <i>Angewandte Chemie</i> , 2021, 133, 4644-4648.	2.0	8
7	Homoleptic tris(6,6â€²-dimethyl-2,2â€²-bipyridine) rare earth metal complexes. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2591-2602.	6.0	1
8	The materials of ammonium metal formate framework: structures, phase transitions and functionalities. <i>Scientia Sinica Chimica</i> , 2021, 51, 410-439.	0.4	4
9	Coherent manipulation and quantum phase interference in a fullerene-based electron triplet molecular qutrit. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	20
10	Manipulation of Molecular Qubits by Isotope Effect on Spin Dynamics. <i>CCS Chemistry</i> , 2021, 3, 2548-2556.	7.8	8
11	Paramagnetic properties adjustment for Gd@C(9)-C82 by regioselective multi-amination. <i>Carbon</i> , 2020, 158, 320-326.	10.3	4
12	Weak exchange coupling effects leading to fast magnetic relaxations in a trinuclear dysprosium single-molecule magnet. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 447-454.	6.0	15
13	Observation of the asphericity of 4f-electron density and its relation to the magnetic anisotropy axis in single-molecule magnets. <i>Nature Chemistry</i> , 2020, 12, 213-219.	13.6	50
14	Orientation mapping of Rabi frequencies in a rare-earth molecular qu<i>d</i>. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3875-3881.	6.0	11
15	Tri-Manganese(III) Salen-Based Cryptands: A Metal Cooperative Antioxidant Strategy that Overcomes Ischemic Stroke Damage <i>In Vivo</i>. <i>Journal of the American Chemical Society</i> , 2020, 142, 10219-10227.	13.7	35
16	Amination of the Gd@C82 endohedral fullerene: tunable substitution effect on quantum coherence behaviors. <i>Chemical Science</i> , 2020, 11, 10737-10743.	7.4	9
17	Conformation-Dependent Spin Relaxation Behaviors of 6-Oxoverdazyl Radical Single Crystals. <i>Crystal Growth and Design</i> , 2020, 20, 2141-2146.	3.0	2
18	Electric field manipulation enhanced by strong spin-orbit coupling: promoting rare-earth ions as qubits. <i>National Science Review</i> , 2020, 7, 1557-1563.	9.5	19

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19	Modification of TiO <sub>2</sub> Nanoparticles with Organodiboron Molecules Inducing Stable Surface Ti <sup>3+</sup> Complex. <i>IScience</i> , 2019, 20, 195-204.	4.1	24
20	Determination of the magnetic principal axes of a dysprosium complex with slow relaxation on a single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 490, 165475.	2.3	2
21	Field-induced slow relaxation of magnetization in the $S = 3/2$ octahedral complexes $[\text{Co}(\text{OPPh})_2(\text{EPh})_2(\text{dmf})_2] \cdot \text{E}$ , E = S, Se: effects of Co-Se vs. Co-S coordination. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1405-1414.	6.0	9
22	Accurate and unequivocal determination of the crystal-field parameters of lanthanide ions via a multitechnique approach. <i>Physical Review B</i> , 2019, 99, .	3.2	8
23	Single-Crystal Study of a Low Spin Co(II) Molecular Qubit: Observation of Anisotropic Rabi Cycles. <i>Inorganic Chemistry</i> , 2019, 58, 2330-2335.	4.0	19
24	Well-Dispersed Ruthenium in Mesoporous Crystal TiO <sub>2</sub> as an Advanced Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 5719-5727.	13.7	224
25	Magnetic anisotropy investigation on light lanthanide complexes. <i>Dalton Transactions</i> , 2018, 47, 1966-1971.	3.3	22
26	Endohedral Metallofullerene as Molecular High Spin Qubit: Diverse Rabi Cycles in Gd <sub>2</sub> @C <sub>79</sub> N. <i>Journal of the American Chemical Society</i> , 2018, 140, 1123-1130.	13.7	100
27	Dramatic impact of the lattice solvent on the dynamic magnetic relaxation of dinuclear dysprosium single-molecule magnets. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1575-1586.	6.0	48
28	Qubit crossover in the endohedral fullerene Sc <sub>3</sub> C <sub>2</sub> @C <sub>80</sub> . <i>Chemical Science</i> , 2018, 9, 457-462.	7.4	40
29	Mapping the Magnetic Anisotropy at the Atomic Scale in Dysprosium Single-Molecule Magnets. <i>Chemistry - A European Journal</i> , 2018, 24, 16456-16456.	3.3	1
30	A general electrochemical strategy for the Sandmeyer reaction. <i>Chemical Science</i> , 2018, 9, 8731-8737.	7.4	67
31	Single-Ion Anisotropy: An Insight to Complicated Magnetic Molecules. <i>Topics in Organometallic Chemistry</i> , 2018, , 227-252.	0.7	1
32	Chemical Modification toward Long Spin Lifetimes in Organic Conjugated Radicals. <i>ChemPhysChem</i> , 2018, 19, 2972-2977.	2.1	15
33	Mapping the Magnetic Anisotropy at the Atomic Scale in Dysprosium Single-Molecule Magnets. <i>Chemistry - A European Journal</i> , 2018, 24, 16576-16581.	3.3	18
34	Magnetic and HFEPR Studies of Exchange Coupling in a Series of $\mu_4$ -Cl Dicobalt Complexes. <i>Inorganic Chemistry</i> , 2017, 56, 2417-2425.	4.0	20
35	Enhanced magnetic anisotropy in a tellurium-coordinated cobalt single-ion magnet. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 701-705.	6.0	40
36	Custom Coordination Environments for Lanthanoids: Tripodal Ligands Achieve Near-Perfect Octahedral Coordination for Two Dysprosium-Based Molecular Nanomagnets. <i>Inorganic Chemistry</i> , 2017, 56, 4911-4917.	4.0	14

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37	Determination of zero-field splitting in Co <sup>2+</sup> halide complexes with magnetic and far-IR measurements. Dalton Transactions, 2017, 46, 7408-7411.	3.3	19
38	Slow Magnetic Relaxation in Weak Easy-Plane Anisotropy: the Case of a Combined Magnetic and HFEP R Study. Inorganic Chemistry, 2017, 56, 697-700.	4.0	27
39	Two-Coordinate Co(II) Imido Complexes as Outstanding Single-Molecule Magnets. Journal of the American Chemical Society, 2017, 139, 373-380.	13.7	343
40	Consecutive reduction, radical-cyclization, and oxidative-dehydrogenation reaction of ortho-substituted diboryl compounds. Chemical Communications, 2017, 53, 9737-9740.	4.1	7
41	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
42	A New Bis(phthalocyaninato) Terbium Single-Ion Magnet with an Overall Excellent Magnetic Performance. Inorganic Chemistry, 2017, 56, 13889-13896.	4.0	53
43	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
44	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
45	Thermostability and photoluminescence of Dy( <sup>III</sup> ) single-molecule magnets under a magnetic field. Chemical Science, 2016, 7, 5020-5031.	7.4	100
46	Understanding the Magnetic Anisotropy toward Single-Ion Magnets. Accounts of Chemical Research, 2016, 49, 2381-2389.	15.6	354
47	Can Non-Kramers Tm( <sup>III</sup> ) Mononuclear Molecules be Single-Molecule Magnets (SMMs)? Chemistry - A European Journal, 2016, 22, 4704-4708.	3.3	46
48	High symmetry or low symmetry, that is the question – high performance Dy( <sup>III</sup> ) single-ion magnets by electrostatic potential design. Chemical Science, 2016, 7, 684-691.	7.4	229
49	Half-Sandwich Complexes of Dy( <sup>III</sup> ): A Janus-Motif with Facile Tunability of Magnetism. Inorganic Chemistry, 2015, 54, 5162-5168.	4.0	42
50	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
51	Does the thermal evolution of molecular structures critically affect the magnetic anisotropy?. Chemical Science, 2015, 6, 4587-4593.	7.4	61
52	Determination of magnetic anisotropy in a multinuclear Tb( <sup>III</sup> )-based single-molecule magnet. Chemical Communications, 2015, 51, 10373-10376.	4.1	28
53	Direct Observation of Very Large Zero-Field Splitting in a Tetrahedral Ni( <sup>II</sup> )Se <sub>4</sub> Coordination Complex. Journal of the American Chemical Society, 2015, 137, 12923-12928.	13.7	42
54	Spectroscopic determination of crystal field splittings in lanthanide double deckers. Chemical Science, 2014, 5, 3287.	7.4	111

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55	Direct measurement of dysprosium(III) $\text{D}^{\text{TM}}\text{E}^{\text{TM}}\text{E}^{\text{TM}}\text{D}^{\text{TM}}$ dysprosium(III) interactions in a single-molecule magnet. <i>Nature Communications</i> , 2014, 5, 5243.	12.8	223
56	Room temperature quantum coherence in a potential molecular qubit. <i>Nature Communications</i> , 2014, 5, 5304.	12.8	265
57	The solvent effect in an axially symmetric $\text{Fe}^{\text{III}}_{\text{4}}$ single-molecule magnet. <i>Chemical Communications</i> , 2014, 50, 15090-15093.	4.1	21
58	A 1D dysprosium chain with slow magnetic relaxation constructed from a pyridine-N-oxide ligand. <i>Chemical Communications</i> , 2014, 50, 10434.	4.1	64
59	Advances in Lanthanide Single-Ion Magnets. <i>Structure and Bonding</i> , 2014, , 111-141.	1.0	26
60	Evolution of molecular nanomagnets in China. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120316.	3.4	9
61	Angular-Resolved Magnetometry Beyond Triclinic Crystals: Out-of-Equilibrium Studies of $\text{Cp}^*\text{ErCOT}$ Single-Molecule Magnet. <i>Chemistry - A European Journal</i> , 2013, 19, 13726-13731.	3.3	67
62	Zero-field slow magnetic relaxation from single Co(ii) ion: a transition metal single-molecule magnet with high anisotropy barrier. <i>Chemical Science</i> , 2013, 4, 1802.	7.4	289
63	Programmed Self-Assembly of Heterometallic $[3 \times 3]$ Grid $[\text{M}(\text{Cull}_4\text{Cu}_4)]$ (M = Fe, Ni, Cu, and Zn). <i>Inorganic Chemistry</i> , 2013, 52, 6233-6235.	4.0	25
64	Series of Lanthanide Organometallic Single-Ion Magnets. <i>Inorganic Chemistry</i> , 2012, 51, 3079-3087.	4.0	228
65	An introduction to molecular spintronics. <i>Science China Chemistry</i> , 2012, 55, 867-882.	8.2	34
66	An Organometallic Single-Ion Magnet. <i>Journal of the American Chemical Society</i> , 2011, 133, 4730-4733.	13.7	725
67	Hydrothermal Synthesis, Structures and Magnetic Studies of Transition Metal Sulfates Containing Hydrazine. <i>Inorganic Chemistry</i> , 2011, 50, 144-154.	4.0	45
68	Capping Ligand Perturbed Slow Magnetic Relaxation in Dysprosium Single-Ion Magnets. <i>Chemistry - A European Journal</i> , 2011, 17, 12476-12481.	3.3	235
69	A Mononuclear Dysprosium Complex Featuring Single-Molecule-Magnet Behavior. <i>Angewandte Chemie</i> , 2010, 122, 7610-7613.	2.0	104
70	A Mononuclear Dysprosium Complex Featuring Single-Molecule-Magnet Behavior. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7448-7451.	13.8	597
71	Magnetic molecular materials with paramagnetic lanthanide ions. <i>Science in China Series B: Chemistry</i> , 2009, 52, 1739-1758.	0.8	87