

Yin-Shan Meng

List of Publications by Year in descending order

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docs citations

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times ranked

2511
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Magnetic Anisotropy toward Single-Ion Magnets. <i>Accounts of Chemical Research</i> , 2016, 49, 2381-2389.	7.6	354
2	Hydroxide-bridged five-coordinate Dy ^{III} single-molecule magnet exhibiting the record thermal relaxation barrier of magnetization among lanthanide-only dimers. <i>Chemical Science</i> , 2017, 8, 1288-1294.	3.7	165
3	Slow magnetic relaxation in a novel carboxylate/oxalate/hydroxyl bridged dysprosium layer. <i>Chemical Science</i> , 2015, 6, 3095-3101.	3.7	158
4	Highly near-IR emissive ytterbium(ⁱⁱⁱ) complexes with unprecedented quantum yields. <i>Chemical Science</i> , 2017, 8, 2702-2709.	3.7	136
5	Manipulating Metal-to-Metal Charge Transfer for Materials with Switchable Functionality. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12216-12226.	7.2	132
6	Observation of the single-ion magnet behavior of d ⁸ ions on two-coordinate Co ⁱ -NHC complexes. <i>Chemical Science</i> , 2015, 6, 7156-7162.	3.7	115
7	Manipulating Spin Transition To Achieve Switchable Multifunctions. <i>Accounts of Chemical Research</i> , 2019, 52, 1369-1379.	7.6	113
8	Low-coordinate Single-Ion Magnets by Intercalation of Lanthanides into a Phenol Matrix. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4673-4676.	7.2	94
9	Weak Ligand-Field Effect from Ancillary Ligands on Enhancing Single-Ion Magnet Performance. <i>Chemistry - A European Journal</i> , 2016, 22, 12724-12731.	1.7	81
10	(Boratabenzene)(cyclooctatetraenyl) lanthanide complexes: a new type of organometallic single-ion magnet. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 828-835.	3.0	77
11	Cobalt(II) Coordination Polymer Exhibiting Single-Ion-Magnet-Type Field-Induced Slow Relaxation Behavior. <i>Inorganic Chemistry</i> , 2015, 54, 3716-3718.	1.9	75
12	Fluorescence modulation <i>via</i> photoinduced spin crossover switched energy transfer from fluorophores to Fe ^{II} ions. <i>Chemical Science</i> , 2018, 9, 2892-2897.	3.7	67
13	Simultaneous Modulation of Magnetic and Dielectric Transition <i>via</i> Spin-Crossover-tuned Spin Arrangement and Charge Distribution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8468-8472.	7.2	67
14	Elucidation of slow magnetic relaxation in a ferromagnetic 1D dysprosium chain through magnetic dilution. <i>Chemical Communications</i> , 2014, 50, 6052.	2.2	65
15	A 1D dysprosium chain with slow magnetic relaxation constructed from a pyridine-N-oxide ligand. <i>Chemical Communications</i> , 2014, 50, 10434.	2.2	64
16	Enhancing the reactivity of nickel(ⁱⁱ) in hydrogen evolution reactions (HERs) by η^2 -hydrogenation of porphyrinoid ligands. <i>Chemical Science</i> , 2017, 8, 5953-5961.	3.7	64
17	Switching the magnetic hysteresis of an [Fe ⁱⁱ -NC ^W]-based coordination polymer by photoinduced reversible spin crossover. <i>Nature Chemistry</i> , 2021, 13, 698-704.	6.6	61
18	Switching single chain magnet behavior <i>via</i> photoinduced bidirectional metal-to-metal charge transfer. <i>Chemical Science</i> , 2018, 9, 617-622.	3.7	57

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19	Assembling Dysprosium Dimer Units into a Novel Chain Featuring Slow Magnetic Relaxation via Formate Linker. <i>Inorganic Chemistry</i> , 2016, 55, 12904-12911.	1.9	46
20	Can Non-Kramers Tm^{III} Mononuclear Molecules be Single-Molecule Magnets (SMMs)? <i>Chemistry - A European Journal</i> , 2016, 22, 4704-4708.	1.7	46
21	Design of Near-Infrared Luminescent Lanthanide Complexes Sensitive to Environmental Stimulus through Rationally Tuning the Secondary Coordination Sphere. <i>Inorganic Chemistry</i> , 2018, 57, 1332-1341.	1.9	46
22	Half-Sandwich Complexes of Dy^{III} : A Janus-Motif with Facile Tunability of Magnetism. <i>Inorganic Chemistry</i> , 2015, 54, 5162-5168.	1.9	42
23	Enhanced magnetic anisotropy in a tellurium-coordinated cobalt single-ion magnet. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 701-705.	3.0	40
24	Experimental Determination of Magnetic Anisotropy in Exchange-Bias Dysprosium Metallocene Single-Molecule Magnets. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13037-13043.	7.2	40
25	Strong Fluorescent Lanthanide Salen Complexes: Photophysical Properties, Excited-State Dynamics, and Bioimaging. <i>Inorganic Chemistry</i> , 2019, 58, 1806-1814.	1.9	39
26	Spin transitions in a series of $[Fe(pybox)_2]^{2+}$ complexes modulated by ligand structures, counter anions, and solvents. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 1624-1636.	3.0	38
27	Tuning Slow Magnetic Relaxation in a Two-Dimensional Dysprosium Layer Compound through Guest Molecules. <i>Inorganic Chemistry</i> , 2016, 55, 7980-7987.	1.9	37
28	Effect of Intermolecular Interactions on Metal-to-Metal Charge Transfer: A Combined Experimental and Theoretical Investigation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17009-17015.	7.2	37
29	A Material Showing Colossal Positive and Negative Volumetric Thermal Expansion with Hysteretic Magnetic Transition. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13052-13055.	7.2	33
30	Photo-switched magnetic coupling in spin-crossover complexes. <i>Chemical Communications</i> , 2019, 55, 8359-8373.	2.2	33
31	Linear trinuclear cobalt(II) single molecule magnet. <i>Dalton Transactions</i> , 2015, 44, 2865-2870.	1.6	31
32	Probing the influence of molecular symmetry on the magnetic anisotropy of octahedral cobalt(II) complexes. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1909-1916.	3.0	31
33	A Mixed-Valence $\{Fe_{13}\}$ Cluster Exhibiting Metal-to-Metal Charge-Transfer-Switched Spin Crossover. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16393-16397.	7.2	30
34	Synergic on/off Photoswitching Spin State and Magnetic Coupling between Spin Crossover Centers. <i>Inorganic Chemistry</i> , 2017, 56, 10674-10680.	1.9	29
35	Manipulation of successive crystalline transformations to control electron transfer and switchable functions. <i>National Science Review</i> , 2018, 5, 507-515.	4.6	29
36	Steuerung des Metall-Metall-Charge-Transfers zur Erzeugung schaltbarer Materialien. <i>Angewandte Chemie</i> , 2018, 130, 12394-12405.	1.6	28

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37	A Six-Coordinate Dysprosium Single-Ion Magnet with Trigonal-Prismatic Geometry. <i>Inorganic Chemistry</i> , 2017, 56, 7320-7323.	1.9	27
38	Slow Magnetic Relaxation in Weak Easy-Plane Anisotropy: the Case of a Combined Magnetic and HFEPD Study. <i>Inorganic Chemistry</i> , 2017, 56, 697-700.	1.9	27
39	A Series of Linear {Fe ^{III} ₂Fe ^{II</sup>} Complexes with Paramagnetic Building-Block-Modified Spin Crossover Behaviors. <i>Chemistry - A European Journal</i>, 2017, 23, 15930-15936.}	1.7	26
40	Rational construction of a porous lanthanide coordination polymer featuring reversible guest-dependent magnetic relaxation behavior. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2875-2884.	3.0	25
41	Mimicking of Tunichlorin: Deciphering the Importance of a $\hat{\text{I}}^2$ -Hydroxyl Substituent on Boosting the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2020, 10, 2177-2188.	5.5	24
42	Magnetic anisotropy investigation on light lanthanide complexes. <i>Dalton Transactions</i> , 2018, 47, 1966-1971.	1.6	22
43	Construction and theoretical study of a new Dy- $\hat{\text{I}}^2$ -diketone chain featuring slow magnetic relaxation. <i>CrystEngComm</i> , 2015, 17, 5620-5624.	1.3	20
44	Determination of zero-field splitting in Co ²⁺ halide complexes with magnetic and far-IR measurements. <i>Dalton Transactions</i> , 2017, 46, 7408-7411.	1.6	19
45	Asymmetric Coordination Toward a Photoinduced Single-Chain Magnet Showing High Coercivity Values. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10537-10541.	7.2	19
46	$\hat{\text{I}}^2$ -Fluorinated porpholactones and metal complexes: synthesis, characterization and some spectroscopic studies. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1539-1545.	3.0	18
47	Reactivity of a Two-Coordinate Cobalt(0) Cyclic (Alkyl)(amino)carbene Complex. <i>Organometallics</i> , 2020, 39, 729-739.	1.1	17
48	Low-Coordinate Single-Ion Magnets by Intercalation of Lanthanides into a Phenol Matrix. <i>Angewandte Chemie</i> , 2018, 130, 4763-4766.	1.6	16
49	Manipulating Selective Metal-to-Metal Electron Transfer to Achieve Multi-Phase Transitions in an Asymmetric [Fe ₂ Co]-Assembled Mixed-Valence Chain. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	16
50	Three- and Four-Coordinate Homoleptic Iron(I)-NHC Complexes: Synthesis and Characterization. <i>Organometallics</i> , 2016, 35, 1361-1367.	1.1	15
51	Simultaneous Modulation of Magnetic and Dielectric Transition via Spin-Crossover-Tuned Spin Arrangement and Charge Distribution. <i>Angewandte Chemie</i> , 2018, 130, 8604-8608.	1.6	15
52	Spin crossover and structural phase transition in homochiral and heterochiral Fe[(pybox) ₂] ²⁺ complexes. <i>Dalton Transactions</i> , 2019, 48, 6323-6327.	1.6	15
53	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.	3.0	15
54	Construction of SCO-Active Fe(II) Mononuclear Complexes from the Thio-pybox Ligand. <i>Inorganic Chemistry</i> , 2020, 59, 7398-7407.	1.9	14

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55	Probe metal binding mode of imine covalent organic frameworks: cycloiridation for (photo)catalytic hydrogen evolution from formate. <i>Chemical Science</i> , 2021, 12, 7930-7936.	3.7	14
56	The design of rigid cyclic tripyrrins: the importance of intermolecular interactions on aggregation and luminescence. <i>Organic Chemistry Frontiers</i> , 2018, 5, 1877-1885.	2.3	11
57	Design principle of half-sandwich type erbium single-ion magnets through crystal field engineering: a combined magnetic and electronic structure study. <i>Dalton Transactions</i> , 2019, 48, 10407-10411.	1.6	10
58	Synthesis, Structure, and Magnetic Properties of Rare-Earth Bis(diazabutadiene) Diradical Complexes. <i>Inorganic Chemistry</i> , 2021, 60, 1315-1319.	1.9	10
59	Dehydration-actuated single-chain magnet through charge transfer in a cyanide-bridged Fe ₂ Co chain. <i>Inorganic Chemistry Communication</i> , 2020, 112, 107715.	1.8	9
60	[Au ^I (CN) ₂]-Armed [Fe ^{III}] ₂ Fe ^{II}] ₂ Square Complex Showing Unusual Spin-Crossover Behavior Due to a Symmetry-Breaking Phase Transition. <i>Inorganic Chemistry</i> , 2022, 61, 5855-5860.	1.9	9
61	Ligand symmetry significantly affects spin crossover behaviour in isomeric [Fe(pybox) ₂] ²⁺ complexes. <i>Dalton Transactions</i> , 2021, 50, 3369-3378.	1.6	8
62	Magnetic anisotropy of iron-based metallic glassy fibers. <i>Chemical Communications</i> , 2015, 51, 16072-16075.	2.2	7
63	A Material Showing Colossal Positive and Negative Volumetric Thermal Expansion with Hysteretic Magnetic Transition. <i>Angewandte Chemie</i> , 2017, 129, 13232-13235.	1.6	7
64	Controlling assembly and single-molecule magnet behavior of Fe-Ni clusters utilizing steric effect. <i>Inorganic Chemistry Communication</i> , 2018, 93, 87-91.	1.8	7
65	Magnetic properties and theoretical calculations of mononuclear lanthanide complexes with a Schiff base coordinated to Ln(III) ion in a monodentate coordination mode. <i>Inorganica Chimica Acta</i> , 2019, 494, 8-12.	1.2	7
66	Thermally Induced Reversible Metal-to-Metal Charge Transfer in Mixed-Valence {Fe ^{III} } ₄ Fe ^{II} }_4 Cubes. <i>CCS Chemistry</i> , 2022, 4, 2452-2459.	4.6	7
67	Construction of Magneto-Fluorescent Bifunctional Spin-Crossover Fe(II) Complex from Pyrene-Decorated Pybox Ligand. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 3992-3999.	1.0	7
68	The substituent effect on the spin-crossover behaviour in a series of mononuclear Fe(II) complexes from thio-pybox ligands. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2343-2352.	3.0	7
69	Multiple magnetic relaxation pathways in T-shaped N-heterocyclic carbene-supported Fe(I) single-ion magnets. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1050-1057.	3.0	6
70	Substituent effect on metal-to-metal charge transfer behavior of cyanide-bridged {Fe ₂ Co ₂ } square. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108712.	1.8	6
71	Four mononuclear dysprosium complexes with neutral Schiff-base ligands: syntheses, crystal structures and slow magnetic relaxation behavior. <i>Dalton Transactions</i> , 2022, 51, 1415-1422.	1.6	6
72	Spin-Crossover Tuned Rotation of Pyrazolyl Rings in a 2D Iron(II) Complex towards Synergetic Magnetic and Dielectric Transitions. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	6

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73	N ^N Pt(II) Bisacetylidate Complexes with Oxoverdazyl Radical Ligands: Preparation, Photophysical Properties, and Magnetic Exchange Interaction between the Two Radical Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 12471-12485.	1.9	5
74	An azido-bridged [Fe ₄] grid-like molecule showing spin crossover behaviour. <i>Dalton Transactions</i> , 2021, 50, 14303-14308.	1.6	5
75	Bifunctional sulfur-ligated erbium complex: Crystal structure, magnetic and luminescent properties. <i>Inorganica Chimica Acta</i> , 2020, 501, 119297.	1.2	4
76	Substituent effects of auxiliary ligands in mononuclear dibenzoylmethane Dy ^{III} /Er ^{III} complexes: single-molecule magnetic behavior and luminescence properties. <i>CrystEngComm</i> , 2020, 22, 7929-7934.	1.3	4
77	A Mixed-Valence {Fe ₁₃ } Cluster Exhibiting Metal-Metal Charge Transfer-Switched Spin Crossover. <i>Angewandte Chemie</i> , 2020, 132, 16535.	1.6	4
78	Experimental Determination of Magnetic Anisotropy in Exchange-Bias Dysprosium Metallocene Single-Molecule Magnets. <i>Angewandte Chemie</i> , 2020, 132, 13137-13143.	1.6	4
79	Thermal and photoinduced spin-crossover of mononuclear Fe ^{II} complexes based on bppCHO ligand. <i>Dalton Transactions</i> , 2022, 51, 602-607.	1.6	4
80	Manipulating Selective Metal-Metal Electron Transfer to Achieve Multi-Phase Transitions in an Asymmetric [Fe ₂ Co] ₂ Assembled Mixed-Valence Chain. <i>Angewandte Chemie</i> , 0, .	1.6	4
81	Synthesis and structures of fluoride-bridged dysprosium clusters: influence of fluoride ions on magnetic relaxation behaviors. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2336-2342.	3.0	4
82	Syntheses, structures and magnetic properties of cyano-bridged Fe ^{III} 2 M ^{II} (M ^{II} = Mn, Co and Ni) one-dimensional chains. <i>Inorganic Chemistry Communication</i> , 2018, 93, 144-148.	1.8	3
83	Construction of spin-crossover dinuclear cobalt(II) compounds based on complementary terpyridine ligand pairing. <i>Dalton Transactions</i> , 2022, 51, 9888-9893.	1.6	3
84	Single-Molecule Magnet Behavior in Two Tetranuclear Cyanide-Bridged Fe ^{III} ₂ Ni ^{II} ₂ Compounds. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 428-432.	0.6	2
85	Slow magnetic relaxation in mononuclear octa-coordinate Fe(II) and Co(II) complexes from a Bpybox ligand. <i>Dalton Transactions</i> , 2022, 51, 8865-8873.	1.6	2
86	Effect of Intermolecular Interactions on Metal-Metal Charge Transfer: A Combined Experimental and Theoretical Investigation. <i>Angewandte Chemie</i> , 2019, 131, 17165-17171.	1.6	1
87	Ferromagnetic Archimedean polyhedra {Fe ₂₄ M ₁₈ } (M = Fe, Ni, and Mn) with tunable electron configurations. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4239-4246.	3.0	1
88	Low temperature heat capacity, thermodynamic and magnetic property of several new dinuclear complexes. <i>Journal of Chemical Thermodynamics</i> , 2022, 170, 106785.	1.0	1
89	Controlling magnetic exchange coupling via coligands in three cyanide-bridged heterobimetallic complexes. <i>Inorganic Chemistry Communication</i> , 2018, 97, 83-87.	1.8	0
90	Asymmetric Coordination Toward a Photoinduced Single-Chain Magnet Showing High Coercivity Values. <i>Angewandte Chemie</i> , 2021, 133, 10631-10635.	1.6	0

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91	Spin-Crossover Tuned Rotation of Pyrazolyl Rings in a 2D Iron(II) Complex towards Synergetic Magnetic and Dielectric Transitions. <i>Angewandte Chemie</i> , 0, , .	1.6	0