

Yan-Cong Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

8,261
citations

39
h-index

90
g-index

131
ext. papers

9,735
ext. citations

7.3
avg, IF

6.47
L-index

#	Paper	IF	Citations
112	Reversible on-off switching of spin-crossover behavior via photochemical [2+2] cycloaddition reaction. <i>Science China Chemistry</i> , 2022 , 65, 120	7.9	1
111	Magnetization Dynamics on Isotope-Isomorphic Holmium Single-Molecule Magnets. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 27282	16.4	0
110	Guest-Driven Light-Induced Spin Change in an Azobenzene Loaded Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	5
109	Field-induced oscillation of magnetization blocking barrier in a holmium metallocrown single-molecule magnet. <i>Chem</i> , 2021 , 7, 982-992	16.2	15
108	Opening Magnetic Hysteresis by Axial Ferromagnetic Coupling: From Mono-Decker to Double-Decker Metallocrown. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 5299-5306	16.4	29
107	Opening Magnetic Hysteresis by Axial Ferromagnetic Coupling: From Mono-Decker to Double-Decker Metallocrown. <i>Angewandte Chemie</i> , 2021 , 133, 5359-5366	3.6	5
106	Berichtigung: A Dysprosium Metallocene Single-Molecule Magnet Functioning at the Axial Limit. <i>Angewandte Chemie</i> , 2020 , 132, 19004-19004	3.6	
105	Seeking magneto-structural correlations in easily tailored pentagonal bipyramid Dy(III) single-ion magnets. <i>Science China Chemistry</i> , 2020 , 63, 1066-1074	7.9	14
104	Spin-crossover in an organic-inorganic hybrid perovskite. <i>Chemical Communications</i> , 2020 , 56, 4551-4554	5.8	6
103	A perfect triangular dysprosium single-molecule magnet with virtually antiparallel Ising-like anisotropy. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2941-2948	6.8	10
102	Asymmetric seven-/eight-step spin-crossover in a three-dimensional Hofmann-type metal-organic framework. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 1685-1690	6.8	14
101	Light- and temperature-assisted spin state annealing: accessing the hidden multistability. <i>Chemical Science</i> , 2020 , 11, 3281-3289	9.4	13
100	Cyanometallate-Bridged Didysprosium Single-Molecule Magnets Constructed with Single-Ion Magnet Building Block. <i>Inorganic Chemistry</i> , 2020 , 59, 687-694	5.1	36
99	Physical stimulus and chemical modulations of bistable molecular magnetic materials. <i>Chemical Communications</i> , 2020 , 56, 13702-13718	5.8	26
98	Magnetic dynamics of an open-ring tridysprosium complex employing mixed ligands. <i>Dalton Transactions</i> , 2020 , 49, 14140-14147	4.3	2
97	Slow magnetic relaxation in a {EuCu} metallocrown. <i>Dalton Transactions</i> , 2019 , 48, 1686-1692	4.3	18
96	Field-induced slow magnetic relaxation in a mononuclear Gd(III) complex. <i>Inorganic Chemistry Communication</i> , 2019 , 107, 107449	3.1	6

95	Uranocenium: Synthesis, Structure, and Chemical Bonding. <i>Angewandte Chemie</i> , 2019 , 131, 10269-10273.6	9
94	Uranocenium: Synthesis, Structure, and Chemical Bonding. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10163-10167	16.4 23
93	Single-ion magnet and luminescent properties in a Dy(III) triangular dodecahedral complex. <i>Inorganic Chemistry Communication</i> , 2019 , 102, 16-19	3.1 9
92	Chiral Erbium(III) Complexes: Single-Molecule Magnet Behavior, Chirality, and Nuclearity Control. <i>Inorganic Chemistry</i> , 2019 , 58, 10694-10703	5.1 11
91	Spin-crossover modulation single-crystal to single-crystal photochemical [2 + 2] reaction in Hofmann-type frameworks. <i>Chemical Science</i> , 2019 , 10, 7496-7502	9.4 24
90	Effect of Bridging Ligands on Magnetic Behavior in Dinuclear Dysprosium Cores Supported by Polyoxometalates. <i>Inorganic Chemistry</i> , 2019 , 58, 1301-1308	5.1 25
89	Luminescent single-molecule magnets based on lanthanides: Design strategies, recent advances and magneto-luminescent studies. <i>Coordination Chemistry Reviews</i> , 2019 , 378, 365-381	23.2 198
88	Chiral bis(phthalocyaninato) terbium double-decker compounds with enhanced single-ion magnetic behavior. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 939-943	6.8 15
87	Symmetry strategies for high performance lanthanide-based single-molecule magnets. <i>Chemical Society Reviews</i> , 2018 , 47, 2431-2453	58.5 533
86	Multifunctional luminescent magnetic cryocooler in a GdMn pyramidal complex. <i>Chemical Communications</i> , 2018 , 54, 4104-4107	5.8 29
85	Water molecule induced reversible single-crystal-to-single-crystal transformation between two trinuclear Fe(ii) complexes with different spin crossover behaviour. <i>Dalton Transactions</i> , 2018 , 47, 4307-4314	4.3 19
84	Humidity Sensitive Structural Dynamics and Solvatomagnetic Effects in a 3D Co(II)-Based Coordination Polymer. <i>Inorganic Chemistry</i> , 2018 , 57, 4070-4076	5.1 7
83	A New Porous Three-Dimensional Iron(II) Coordination Polymer with Solvent-Induced Reversible Spin-Crossover Behavior. <i>Crystal Growth and Design</i> , 2018 , 18, 5214-5219	3.5 17
82	Enhancing single-molecule magnet behavior of linear CoII-DyIII CoII complex by introducing bulky diamagnetic moiety. <i>Science China Chemistry</i> , 2018 , 61, 1399-1404	7.9 19
81	pH-Controlled Assembly of Organophosphonate-Bridged Dysprosium(III) Single-Molecule Magnets Based on Polyoxometalates. <i>Inorganic Chemistry</i> , 2018 , 57, 6773-6777	5.1 22
80	Supertetrahedral T2 clusters in 3d-4f {Fe4Ln6}: Synthesis, crystal structure, magnetic and photoluminescent properties. <i>Inorganica Chimica Acta</i> , 2018 , 482, 240-245	2.7 7
79	Magnetic hysteresis up to 80 kelvin in a dysprosium metallocene single-molecule magnet. <i>Science</i> , 2018 , 362, 1400-1403	33.3 864
78	Cyclic OFF/Part/ON switching of single-molecule magnet behaviours via multistep single-crystal-to-single-crystal transformation between discrete Fe(ii)-Dy(iii) complexes. <i>Chemical Communications</i> , 2018 , 54, 10886-10889	5.8 27

77	Magnetic Dynamics of a Neodymium(III) Single-Ion Magnet. <i>Inorganic Chemistry</i> , 2018 , 57, 11782-11787	5.1	19
76	Dynamic Magnetic and Optical Insight into a High Performance Pentagonal Bipyramidal Dy Single-Ion Magnet. <i>Chemistry - A European Journal</i> , 2017 , 23, 5708-5715	4.8	79
75	Dynamic Magnetic and Optical Insight into a High-Performance Pentagonal Bipyramidal DyIII Single-Ion Magnet. <i>Chemistry - A European Journal</i> , 2017 , 23, 5630-5630	4.8	4
74	Di- and octa-nuclear dysprosium clusters derived from pyridyl-triazole based ligand: {Dy} showing single molecule magnetic behaviour. <i>Dalton Transactions</i> , 2017 , 46, 2981-2987	4.3	23
73	A ladder-type iron(II) coordination polymer with enhanced spin-crossover behavior. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 921-926	6.8	4
72	Aminoalcohols and benzoates-friends or foes? Tuning nuclearity of Cu(ii) complexes, studies of their structures, magnetism, and catecholase-like activities as well as performing DFT and TDDFT studies. <i>Dalton Transactions</i> , 2017 , 46, 9801-9823	4.3	42
71	Reversible crystal-to-crystal transformation from a trinuclear cluster to a 1D chain and the corresponding spin crossover (SCO) behaviour change. <i>Chemical Communications</i> , 2017 , 53, 7820-7823	5.8	22
70	Metal-Ion Induced In Situ Ligand Oxidation for Self-Assembled Clusters: from Bis(5-(2-pyridine-2-yl)-1,2,4-triazole-3-yl)methane to Alcohol or Ketone. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 2172-2176	4.5	6
69	A Dysprosium Metallocene Single-Molecule Magnet Functioning at the Axial Limit. <i>Angewandte Chemie</i> , 2017 , 129, 11603-11607	3.6	124
68	Two-Step Spin-Crossover with Three Inequivalent Fe Sites in a Two-Dimensional Hofmann-Type Coordination Polymer. <i>Chemistry - A European Journal</i> , 2017 , 23, 10034-10037	4.8	21
67	Alkoxo- and carboxylato-bridged hexanuclear copper(II) complex: Synthesis, structure and magnetic properties. <i>Inorganic Chemistry Communication</i> , 2017 , 83, 49-51	3.1	10
66	Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4996-5000	16.4	139
65	Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet. <i>Angewandte Chemie</i> , 2017 , 129, 5078-5082	3.6	28
64	Recent advances in guest effects on spin-crossover behavior in Hofmann-type metal-organic frameworks. <i>Coordination Chemistry Reviews</i> , 2017 , 335, 28-43	23.2	213
63	Slow Magnetic Relaxation in Intermediate Spin $S = 3/2$ Mononuclear Fe(III) Complexes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16474-16477	16.4	37
62	Guest-Switchable Multi-Step Spin Transitions in an Amine-Functionalized Metal-Organic Framework. <i>Angewandte Chemie</i> , 2017 , 129, 15178-15182	3.6	14
61	Guest-Switchable Multi-Step Spin Transitions in an Amine-Functionalized Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 14982-14986	16.4	65
60	Exploring the Inverse Magnetocaloric Effect in Discrete MnII Dimers. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22727-22732	3.8	3

59	A disc-like Co ₇ cluster with a solvent dependent catecholase activity. <i>New Journal of Chemistry</i> , 2017 , 41, 14057-14061	3.6	14
58	Organophosphonate-Bridged Polyoxometalate-Based Dysprosium(III) Single-Molecule Magnet. <i>Inorganic Chemistry</i> , 2017 , 56, 12687-12691	5.1	26
57	Construction of lanthanide single-molecule magnets with the magnetic motif [Dy(MQ) ₄] ⁺ . <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1776-1782	6.8	15
56	Tunable Magnetization Dynamics through Solid-State Ligand Substitution Reaction. <i>Inorganic Chemistry</i> , 2017 , 56, 8829-8836	5.1	10
55	Innenteilbild: Hyperfine-Interaction-Driven Suppression of Quantum Tunneling at Zero Field in a Holmium(III) Single-Ion Magnet (Angew. Chem. 18/2017). <i>Angewandte Chemie</i> , 2017 , 129, 4974-4974	3.6	1
54	A Dysprosium Metallocene Single-Molecule Magnet Functioning at the Axial Limit. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11445-11449	16.4	707
53	A wheel-shaped Dy(III) single-molecule magnet supported by polyoxotungstates. <i>Dalton Transactions</i> , 2017 , 46, 16796-16801	4.3	13
52	A Piezochromic Dysprosium(III) Single-Molecule Magnet Based on an Aggregation-Induced-Emission-Active Tetraphenylethene Derivative Ligand. <i>Inorganic Chemistry</i> , 2017 , 56, 8730-8734	5.1	34
51	[2 + 2] Photochemical modulation of the Dy(III) single-molecule magnet: opposite influence on the energy barrier and relaxation time. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1311-1318	6.8	31
50	In Situ Characterization of the Local Work Function along Individual Free Standing Nanowire by Electrostatic Deflection. <i>Scientific Reports</i> , 2016 , 6, 21270	4.9	6
49	Unprecedented hexagonal bipyramidal single-ion magnets based on metallocrowns. <i>Chemical Communications</i> , 2016 , 52, 13365-13368	5.8	43
48	Magnetocaloric Properties of Heterometallic 3d-Gd Complexes Based on the [Gd(oda) ₃] ⁽³⁻⁾ Metalloligand. <i>Chemistry - A European Journal</i> , 2016 , 22, 802-8	4.8	29
47	4f-Clusters for Cryogenic Magnetic Cooling. <i>Structure and Bonding</i> , 2016 , 189-207	0.9	10
46	Symmetry-Supported Magnetic Blocking at 20 K in Pentagonal Bipyramidal Dy(III) Single-Ion Magnets. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2829-37	16.4	601
45	Evolution of Slow Magnetic Relaxation: from Diamagnetic Matrix Y(OH)CO ₃ to Dy _{0.06} Y _{0.94} (OH)CO ₃ with High Spin-Reversal Barrier and Blocking Temperature. <i>Inorganic Chemistry</i> , 2016 , 55, 3145-50	5.1	11
44	Magnetic Properties and Photoluminescence of Lanthanide Coordination Polymers Constructed with Conformation-Flexible Cyclohexane-Tetracarboxylate Ligands. <i>Crystal Growth and Design</i> , 2016 , 16, 946-952	3.5	26
43	The effect of magnetic coupling on magneto-caloric behaviour in two 3D Gd(III) glycolate coordination polymers. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 150-156	6.8	41
42	3D oxalato-bridged lanthanide(III) MOFs with magnetocaloric, magnetic and photoluminescence properties. <i>Dalton Transactions</i> , 2016 , 46, 116-124	4.3	48

41	Molecular Design for Cryogenic Magnetic Coolants. <i>Chemical Record</i> , 2016 , 16, 825-34	6.6	34
40	A Stable Pentagonal Bipyramidal Dy(III) Single-Ion Magnet with a Record Magnetization Reversal Barrier over 1000 K. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5441-50	16.4	73 ⁸
39	Lanthanoid single-ion magnets with the LnN10 coordination geometry. <i>Chemical Communications</i> , 2016 , 52, 6261-4	5.8	27
38	Spin-Crossover Phenomenon in a Pentanuclear Iron(II) Cluster Helicate. <i>Inorganic Chemistry</i> , 2016 , 55, 4891-6	5.1	22
37	High-temperature spin crossover in two solvent-free coordination polymers with unusual high thermal stability. <i>Inorganic Chemistry</i> , 2015 , 54, 3006-11	5.1	14
36	Single-Molecule-Magnet Behavior in a [2 D] Grid Dy(III) ₄ Cluster and a Dysprosium-Doped Y(III) ₄ Cluster. <i>Inorganic Chemistry</i> , 2015 , 54, 8087-92	5.1	51
35	Magnetic and luminescent properties of lanthanide coordination polymers with asymmetric biphenyl-3,2',5'-tricarboxylate. <i>Dalton Transactions</i> , 2015 , 44, 14424-35	4.3	37
34	Tunable cooperativity in a spin-crossover Hoffman-like metal-organic framework material by aromatic guests. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7830-7835	7.1	31
33	"Half-sandwich" Yb(III) single-ion magnets with metallocrowns. <i>Chemical Communications</i> , 2015 , 51, 10291-4	5.1	75
32	Efficient enhancement of magnetic anisotropy by optimizing the ligand-field in a typically tetranuclear dysprosium cluster. <i>Dalton Transactions</i> , 2015 , 44, 8150-5	4.3	27
31	Hysteretic Spin Crossover in Two-Dimensional (2D) Hofmann-Type Coordination Polymers. <i>Inorganic Chemistry</i> , 2015 , 54, 8711-6	5.1	35
30	A brilliant cryogenic magnetic coolant: magnetic and magnetocaloric study of ferromagnetically coupled GdF ₃ . <i>Journal of Materials Chemistry C</i> , 2015 , 3, 12206-12211	7.1	93
29	Modulation of single-molecule magnet behaviour via photochemical [2+2] cycloaddition. <i>Chemical Communications</i> , 2015 , 51, 15358-61	5.8	50
28	Tuning the spin-crossover behaviour of a hydrogen-accepting porous coordination polymer by hydrogen-donating guests. <i>Chemistry - A European Journal</i> , 2015 , 21, 1645-51	4.8	40
27	Synergistic electrical bistability in a conductive spin crossover heterostructure. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 945-949	7.1	43
26	Desolvation-Driven 100-Fold Slow-down of Tunneling Relaxation Rate in Co(II)-Dy(III) Single-Molecule Magnets through a Single-Crystal-to-Single-Crystal Process. <i>Scientific Reports</i> , 2015 , 5, 16621	4.9	78
25	Spin frustration in a family of pillared kagomelayers of high-spin cobalt(II) ions. <i>Chemistry - A European Journal</i> , 2015 , 21, 2560-7	4.8	11
24	Spin-crossover behavior in two new supramolecular isomers. <i>Inorganic Chemistry</i> , 2014 , 53, 201-8	5.1	22

23	Switching of the magnetocaloric effect of Mn(II) glycolate by water molecules. <i>Chemistry - A European Journal</i> , 2014 , 20, 3029-35	4.8	53
22	Structures and properties of coordination polymers involving asymmetric biphenyl-3,2',5'-tricarboxylate. <i>CrystEngComm</i> , 2014 , 16, 10006-10016	3.3	15
21	Study of a magnetic-cooling material Gd(OH)CO ₃ . <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9851-9858	13	131
20	A zigzag DyIII ₄ cluster exhibiting single-molecule magnet, ferroelectric and white-light emitting properties. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8858-8864	7.1	95
19	Cyanide-bridged bimetallic 3D Hoffman-like coordination polymers with tunable magnetic behaviour. <i>CrystEngComm</i> , 2014 , 16, 6444-6449	3.3	19
18	Enhanced spin-crossover behavior mediated by supramolecular cooperative interactions. <i>Inorganic Chemistry</i> , 2014 , 53, 8129-35	5.1	21
17	Gadolinium oxalate derivatives with enhanced magnetocaloric effect via ionothermal synthesis. <i>Inorganic Chemistry</i> , 2014 , 53, 9052-7	5.1	70
16	Recent advances in the design of magnetic molecules for use as cryogenic magnetic coolants. <i>Coordination Chemistry Reviews</i> , 2014 , 281, 26-49	23.2	273
15	Guest-effected spin-crossover in a novel three-dimensional self-penetrating coordination polymer with permanent porosity. <i>Inorganic Chemistry</i> , 2014 , 53, 4039-46	5.1	24
14	A heterometallic Fe(II)-Dy(III) single-molecule magnet with a record anisotropy barrier. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12966-70	16.4	207
13	Ein heterometallischer FeII-DyIII-Einzelmolekülmagnet mit Rekord-Anisotropiebarriere. <i>Angewandte Chemie</i> , 2014 , 126, 13180-13184	3.6	30
12	Wheel-shaped nanoscale 3d-4f {Co(II)16Ln(III)24} clusters (Ln = Dy and Gd). <i>Chemical Communications</i> , 2013 , 49, 8081-3	5.8	104
11	Fluorescent single-ion magnets: molecular hybrid (HNEt ₄)[Dy _x Yb _{1-x} (bpyda)] (x = 0.135-1). <i>Dalton Transactions</i> , 2013 , 42, 11262-70	4.3	45
10	Two 3d-4f nanomagnets formed via a two-step in situ reaction of picolinaldehyde. <i>Chemical Communications</i> , 2013 , 49, 6549-51	5.8	61
9	An unprecedented decanuclear Gd(III) cluster for magnetic refrigeration. <i>Inorganic Chemistry</i> , 2013 , 52, 9163-5	5.1	89
8	Switching the anisotropy barrier of a single-ion magnet by symmetry change from quasi-D _{5h} to quasi-O _h . <i>Chemical Science</i> , 2013 , 4, 3310	9.4	402
7	Symmetry-related [Ln(III)6Mn(III)12] clusters toward single-molecule magnets and cryogenic magnetic refrigerants. <i>Inorganic Chemistry</i> , 2013 , 52, 457-63	5.1	66
6	Anion-templated assembly and magnetocaloric properties of a nanoscale {Gd ₃₈ } cage versus a {Gd ₄₈ } barrel. <i>Chemistry - A European Journal</i> , 2013 , 19, 14876-85	4.8	128

5	Multifunctional Dy(III) ₄ cluster exhibiting white-emitting, ferroelectric and single-molecule magnet behavior. <i>Chemistry - A European Journal</i> , 2013 , 19, 8769-73	4.8	83
4	Programmed self-assembly of heterometallic [3 D] grid [M(II)Cu(II) ₄ Cu(I) ₄] (M = Fe, Ni, Cu, and Zn). <i>Inorganic Chemistry</i> , 2013 , 52, 6233-5	5.1	24
3	Cu(II)-Gd(III) cryogenic magnetic refrigerants and Cu ₈ Dy ₉ single-molecule magnet generated by in situ reactions of picolinaldehyde and acetylpyridine: experimental and theoretical study. <i>Chemistry - A European Journal</i> , 2013 , 19, 17567-77	4.8	80
2	Gadolinium(III)-hydroxy ladders trapped in succinate frameworks with optimized magnetocaloric effect. <i>Chemistry - A European Journal</i> , 2013 , 19, 13504-10	4.8	81
1	A large cryogenic magnetocaloric effect exhibited at low field by a 3D ferromagnetically coupled Mn(II)-Gd(III) framework material. <i>Chemical Communications</i> , 2012 , 48, 12219-21	5.8	142