

Zhilei Wu

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.

102
papers

2,358
citations

28
h-index

45
g-index

105
ext. papers

2,802
ext. citations

4
avg, IF

5.48
L-index

#	Paper	IF	Citations
102	Three Ln ₂ compounds (Gd ₂ , Tb ₂ and Dy ₂) with a Ln ₂ O ₂ center showing magnetic refrigeration property and single-molecular magnet behavior. <i>Polyhedron</i> , 2022 , 215, 115675	2.7	0
101	Construction of two Ln(III) ₂ (Ln = Dy and Er) compounds by a polydentate Schiff-based ligand: structure and remarkable single-molecule magnet behaviour. <i>Journal of Molecular Structure</i> , 2022 , 133072	3.4	1
100	Highly efficient hydroboration of alkynes catalyzed by porous copper-organic framework under mild conditions. <i>Journal of Catalysis</i> , 2021 , 404, 250-257	7.3	4
99	Structures and magnetic properties of two dinuclear lanthanide complexes based on 8-hydroxyquinoline Schiff base derivatives. <i>Journal of Molecular Structure</i> , 2021 , 1232, 130070	3.4	2
98	Structures and magnetic properties of acyloxy-O bridged Ln ₂ compounds: Gd ₂ compound displaying magnetic refrigeration property. <i>Journal of Molecular Structure</i> , 2021 , 1233, 129984	3.4	0
97	A Porous Copper-Organic Framework Assembled by [Cu] Nanocages: Highly Efficient CO Capture and Chemical Fixation and Theoretical DFT Calculations. <i>Inorganic Chemistry</i> , 2021 , 60, 9122-9131	5.1	10
96	A rhombic shaped {GdIII ₂ CoII ₂ } heterometallic cluster exhibiting larger cryogenic magnetocaloric effect. <i>Inorganica Chimica Acta</i> , 2021 , 514, 120020	2.7	2
95	Two lanthanide-based dinuclear clusters (Gd ₂ and Dy ₂) with Schiff base derivatives: Synthesis, structures and magnetic properties. <i>Inorganica Chimica Acta</i> , 2021 , 514, 120015	2.7	1
94	A novel penta-nuclear cobalt cluster exhibiting slow magnetic relaxation behavior. <i>Journal of Molecular Structure</i> , 2021 , 1223, 129220	3.4	3
93	Crystal structure and single-molecule magnet behavior of a novel tetranuclear Dy(III)-based cluster. <i>Journal of Molecular Structure</i> , 2021 , 1226, 129373	3.4	4
92	Structures and magnetic properties of rhombus-shaped tetranuclear [Ln ₄] clusters: Dy ₄ cluster displaying single molecule magnet behavior. <i>Journal of Molecular Structure</i> , 2021 , 1228, 129753	3.4	
91	Structure, fluorescence properties and slow magnetic relaxation of Dy ₂ and Tb ₄ clusters. <i>Journal of Molecular Structure</i> , 2021 , 1227, 129510	3.4	2
90	Synthesis of two lanthanide clusters LnIII ₄ (Gd ₄ and Dy ₄) with [2×2] square grid shape: Magnetocaloric effect and slow magnetic relaxation behaviors. <i>Journal of Rare Earths</i> , 2021 , 39, 1082-1088	3.7	6
89	Non-Noble-Metal Metal-Organic-Framework-Catalyzed Carboxylative Cyclization of Propargylic Amines with Atmospheric Carbon Dioxide under Ambient Conditions. <i>Inorganic Chemistry</i> , 2021 , 60, 13425-13433	5.1	6
88	Magnetic refrigeration and luminescent sensing properties of two porous heterometallic lanthanide-copper metal-organic frameworks. <i>Inorganic Chemistry Communication</i> , 2021 , 132, 108840	3.1	
87	Larger magnetocaloric effect and single molecule magnet behavior in dinuclear Ln(III)-based compounds constructed from Schiff base ligand. <i>Inorganica Chimica Acta</i> , 2021 , 528, 120631	2.7	2
86	Structures, luminescence properties and single-molecule magnet behavior of four dinuclear lanthanide compounds. <i>Journal of Molecular Structure</i> , 2021 , 1245, 131010	3.4	1

85	Multifunctional properties of {CuLn} systems involving nitrogen-rich nitronyl nitroxide: single-molecule magnet behavior, luminescence, magnetocaloric effects and heat capacity. <i>Dalton Transactions</i> , 2021 , 50, 2854-2863	4.3	3
84	Molecular assemblies from linear-shaped Ln clusters to Ln clusters using different β -diketonates: disparate magnetocaloric effects and single-molecule magnet behaviours. <i>Dalton Transactions</i> , 2021 , 50, 12931-12943	4.3	9
83	Structures, magnetic refrigeration and single molecule-magnet behavior of five rhombus-shaped tetranuclear Ln(III)-based clusters. <i>New Journal of Chemistry</i> , 2020 , 44, 10266-10274	3.6	12
82	Construction of a family of Ln ₃ clusters using multidentate Schiff base and β -diketonate ligands: fluorescence properties, magnetocaloric effect and slow magnetic relaxation. <i>New Journal of Chemistry</i> , 2020 , 44, 9230-9237	3.6	14
81	Modulation of magnetic relaxation behaviors via replacing coordinated solvents in a series of linear tetranuclear Dy ₄ complexes. <i>New Journal of Chemistry</i> , 2020 , 44, 8494-8502	3.6	15
80	Two Ln(III) ₂ (Ln = Gd and Dy) compounds showing magnetic refrigeration and slow magnetic relaxation. <i>Journal of Molecular Structure</i> , 2020 , 1210, 127997	3.4	1
79	Controllable chemoselective hydrogenation of furfural by PdAg/C bimetallic catalysts under ambient operating conditions: an interesting Ag switch. <i>Green Chemistry</i> , 2020 , 22, 1432-1442	10	20
78	Windmill-shaped Ln(III) ₄ (Ln(III) = Gd and Dy) clusters: magnetocaloric effect and single-molecule-magnet behavior. <i>New Journal of Chemistry</i> , 2020 , 44, 4631-4638	3.6	27
77	A phenoxo-O bridged Dy ₂ compound showing two-step magnetic relaxation processes behavior. <i>Inorganic Chemistry Communication</i> , 2020 , 115, 107845	3.1	1
76	Luminescent and magnetic properties of two copper iodide cluster based lanthanide organic frameworks. <i>Inorganica Chimica Acta</i> , 2020 , 506, 119536	2.7	1
75	Two phenoxo-O bridged dinuclear Dy(III) complexes exhibiting distinct slow magnetic relaxation induced by different β -diketonate ligands. <i>Inorganica Chimica Acta</i> , 2020 , 505, 119499	2.7	2
74	Modulating SMM behaviors in phenoxo-O bridged Dy ₂ compounds via different β -diketonate. <i>Inorganica Chimica Acta</i> , 2020 , 507, 119595	2.7	2
73	Solvent-driven structures and slow magnetic relaxation behaviors of dinuclear dysprosium clusters. <i>Inorganica Chimica Acta</i> , 2020 , 500, 119242	2.7	2
72	Heterogeneous (de)chlorination-enabled control of reactivity in the liquid-phase synthesis of furanic biofuel from cellulosic feedstock. <i>Green Chemistry</i> , 2020 , 22, 637-645	10	13
71	Two Ln(III) ₄ (Ln(III) = Gd and Dy) clusters constructed by 8-hydroxyquinoline schiff base and β -diketonate coligand: Magnetic refrigeration property and single-molecule magnet behavior. <i>Inorganica Chimica Acta</i> , 2020 , 502, 119290	2.7	3
70	A novel Dy ₄ (III) cluster constructed by a multidentate 8-hydroxyquinoline Schiff base ligand: Structure and slow magnetic relaxation behavior. <i>Inorganic Chemistry Communication</i> , 2020 , 112, 107691 ^{3.1}	3.1	6
69	Structures and magnetic properties of novel Ln(III)-based pentanuclear clusters: magnetic refrigeration and single-molecule magnet behavior. <i>New Journal of Chemistry</i> , 2020 , 44, 19351-19359	3.6	13
68	Two hexanuclear lanthanide Ln ₆ (III) clusters featuring remarkable magnetocaloric effect and slow magnetic relaxation behavior. <i>New Journal of Chemistry</i> , 2020 , 44, 18025-18030	3.6	9

67	A novel heterometallic [GdIII ₂ MnII ₂] cluster displaying larger cryogenic magnetocaloric effect. <i>Polyhedron</i> , 2020 , 191, 114808	2.7	1
66	Solvent-Dependent Assembly and Magnetic Relaxation Behaviors of [Cu] Cluster-Based Lanthanide MOFs: Acting as Efficient Catalysts for Carbon Dioxide Conversion with Propargylic Alcohols. <i>Inorganic Chemistry</i> , 2020 , 59, 15111-15119	5.1	20
65	A novel tetranuclear Gd(III)-based cluster showing larger magnetic refrigeration property. <i>Journal of Molecular Structure</i> , 2020 , 1222, 128906	3.4	3
64	A novel terbium metal-organic framework for luminescence sensing of pyridine: Synthesis, structure, selectivity, sensitivity and recyclability. <i>Journal of Rare Earths</i> , 2020 , 38, 1231-1236	3.7	5
63	A stable zinc-organic framework with luminescence detection of acetylacetone in aqueous solution. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 271-277	6.8	81
62	Copper(i) iodide cluster-based lanthanide organic frameworks: synthesis and application as efficient catalysts for carboxylative cyclization of propargyl alcohols with CO under mild conditions. <i>Dalton Transactions</i> , 2019 , 48, 11063-11069	4.3	43
61	Tetranuclear lanthanide complexes showing magnetic refrigeration and single molecule magnet behavior. <i>New Journal of Chemistry</i> , 2019 , 43, 8067-8074	3.6	32
60	Two linear-shaped Gd ₄ clusters based on a multidentate ligand: Synthesis, structures, and magnetic refrigeration. <i>Polyhedron</i> , 2019 , 169, 247-252	2.7	8
59	Synthesis, structures and magnetic refrigeration properties of four dinuclear gadolinium compounds. <i>Polyhedron</i> , 2019 , 166, 17-22	2.7	11
58	Structures, luminescent properties and magnetic refrigeration of two series of Ln ₂ III compounds. <i>Polyhedron</i> , 2019 , 166, 141-145	2.7	8
57	A series of [2 × 2] square grid Ln _{III} ₄ clusters: a large magnetocaloric effect and single-molecule-magnet behavior. <i>New Journal of Chemistry</i> , 2019 , 43, 7419-7426	3.6	49
56	Two dinuclear lanthanide(III) clusters (Gd ₂ and Dy ₂) constructed by bis-(o-vanillin) schiff base ligand exhibiting fascinating magnetic behaviors. <i>Polyhedron</i> , 2019 , 166, 23-27	2.7	7
55	An Ultrastable Matryoshka [Hf ^{IV}] Nanocluster as a Luminescent Sensor for Concentrated Alkali and Acid. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16610-16616	16.4	26
54	An Ultrastable Matryoshka [Hf ^{IV}] Nanocluster as a Luminescent Sensor for Concentrated Alkali and Acid. <i>Angewandte Chemie</i> , 2019 , 131, 16763-16769	3.6	4
53	Structures, fluorescence properties and magnetic properties of a series of rhombus-shaped Ln _{III} ₄ clusters: magnetocaloric effect and single-molecule-magnet behavior. <i>New Journal of Chemistry</i> , 2019 , 43, 12941-12949	3.6	29
52	A New Planar Hexanuclear Dysprosium Cluster Exhibiting Slow Magnetic Relaxation Features. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019 , 645, 1291-1295	1.3	2
51	Large magnetocaloric effect and remarkable single-molecule-magnet behavior in triangle-assembled Ln _{III} ₆ clusters. <i>New Journal of Chemistry</i> , 2019 , 43, 16639-16646	3.6	30
50	Linear-shaped Ln and Ln clusters constructed by a polydentate Schiff base ligand and a β-diketone co-ligand: structures, fluorescence properties, magnetic refrigeration and single-molecule magnet behavior. <i>Dalton Transactions</i> , 2019 , 48, 16744-16755	4.3	64

49	Solvent-induced two Dy ₂ compounds with different structures showing distinct slow magnetization relaxation behaviors. <i>Polyhedron</i> , 2019 , 160, 139-144	2.7	4
48	Structures, luminescent and magnetic properties of three dinuclear lanthanide complexes: Dysprosium compound displaying slow magnetic relaxation. <i>Polyhedron</i> , 2019 , 157, 530-535	2.7	4
47	Magnetic refrigeration and single-molecule magnet behavior of two rhombus-shaped Ln(III) ₄ (Ln = Gd, Dy) clusters. <i>Polyhedron</i> , 2019 , 158, 365-370	2.7	8
46	Modulating single-molecule magnet behaviors of Dy ₄ III clusters through utilizing two different Ediketonate coligands. <i>Polyhedron</i> , 2019 , 160, 272-278	2.7	28
45	Two dinuclear lanthanide(III) compounds based on a multidentate ligand: Structures, magnetic refrigeration and slow magnetic relaxation. <i>Inorganica Chimica Acta</i> , 2019 , 486, 83-87	2.7	14
44	Two novel tetranuclear lanthanide complexes (Ln = Tb(III) and Dy(III)) with luminescence and slow magnetic relaxation behaviors. <i>Polyhedron</i> , 2019 , 157, 292-296	2.7	1
43	Structure and single-molecule magnet behavior of a rhombus-shaped Dy ₄ cluster. <i>Polyhedron</i> , 2019 , 157, 316-320	2.7	3
42	Structures and magnetic properties of phenoxo-O-bridged dinuclear lanthanide(III) compounds: Single-molecule magnet behaviour and magnetic refrigeration. <i>Polyhedron</i> , 2018 , 145, 114-119	2.7	16
41	Luminescence and magnetocaloric effect of Ln ₄ clusters (Ln = Eu, Gd, Tb, Er) bridged by CO ₃ ²⁻ deriving from the spontaneous fixation of carbon dioxide in the atmosphere. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 394-402	6.8	28
40	Modulating single-molecule magnet behavior towards multiple magnetic relaxation processes through structural variation in Dy ₄ clusters. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 1876-1885	6.8	99
39	Two rhombus-shaped tetranuclear gadolinium clusters showing magnetic refrigeration. <i>Polyhedron</i> , 2018 , 147, 126-130	2.7	15
38	Two Ln ₄ clusters based complexes exhibiting magnetocaloric effect and magnetic dynamics behaviors. <i>Polyhedron</i> , 2018 , 146, 161-165	2.7	24
37	Butterfly-shaped tetranuclear Ln ₄ clusters showing magnetic refrigeration and single molecule-magnet behavior. <i>New Journal of Chemistry</i> , 2018 , 42, 14949-14955	3.6	54
36	Self-assembly of tetra-nuclear lanthanide clusters via atmospheric CO ₂ fixation: interesting solvent-induced structures and magnetic relaxation conversions. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 2346-2354	6.8	102
35	A series of rhombus-shaped Ln ₄ clusters: Syntheses, structures, luminescence properties and the SMM behavior of the Dy ₄ analogue. <i>Polyhedron</i> , 2018 , 150, 92-96	2.7	7
34	Regulating the luminescent and magnetic properties of rare-earth complexes with Ediketonate coligands. <i>New Journal of Chemistry</i> , 2018 , 42, 11417-11429	3.6	15
33	Synthesis, structure and slow magnetic relaxation of a linear Ho ₄ cluster. <i>Inorganic Chemistry Communication</i> , 2018 , 96, 52-55	3.1	5
32	Two Ln ₄ III (Ln = DyIII and GdIII) clusters showing single molecule magnet behavior and magnetic refrigeration. <i>Polyhedron</i> , 2018 , 154, 480-485	2.7	15

31	Two new coplanar tetranuclear lanthanide complexes (Ln = Gd(III) and Dy(III)) with magnetic refrigeration and slow magnetic relaxation behaviors. <i>Polyhedron</i> , 2018 , 151, 355-359	2.7	6
30	Four tetra-nuclear lanthanide complexes based on 8-hydroxyquinolin derivatives: magnetic refrigeration and single-molecule magnet behaviour. <i>New Journal of Chemistry</i> , 2018 , 42, 11847-11853	3.6	35
29	Structures, fluorescence properties and magnetic properties of a series of dinuclear lanthanide(III) compounds: Dy ₂ compound showing single-molecule magnet behavior. <i>Polyhedron</i> , 2018 , 141, 304-308	2.7	18
28	Synthesis, luminescence and magnetic properties of tetranuclear lanthanide-based (Eu ₄ , Gd ₄ and Dy ₄) clusters. <i>New Journal of Chemistry</i> , 2018 , 42, 18305-18311	3.6	31
27	Near-infrared luminescence and solvent modulation of the magnetic relaxation behavior of dinuclear lanthanide complexes. <i>Polyhedron</i> , 2018 , 151, 537-544	2.7	5
26	A Dy ₄ single-molecule magnet and its Gd(III), Tb(III), Ho(III), and Er(III) analogues encapsulated by an 8-hydroxyquinoline Schiff base derivative and Ediketonate coligand. <i>Dalton Transactions</i> , 2017 , 46, 4669-4677	4.2	44
25	Fine-tuning the magnetocaloric effect and SMMs behaviors of coplanar RE ₄ complexes by Ediketonate coligands. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 860-870	6.8	40
24	Structures, luminescence properties, magnetocaloric effect and slow magnetic relaxation of three Ln (III) complexes based on 8-hydroxyquinoline Schiff-base ligand. <i>Polyhedron</i> , 2017 , 133, 119-124	2.7	28
23	Metal-Organic Frameworks with Tb Clusters as Nodes: Luminescent Detection of Chromium(VI) and Chemical Fixation of CO. <i>Inorganic Chemistry</i> , 2017 , 56, 6244-6250	5.1	83
22	Modulating the single-molecule magnet behaviour in phenoxo-O bridged Dy ₂ systems via subtle structural variations. <i>Journal of Solid State Chemistry</i> , 2017 , 253, 154-160	3.3	27
21	Dinuclear Ln(III) complexes constructed from an 8-hydroxyquinoline Schiff base derivative with different terminal groups show differing slow magnetic relaxation. <i>New Journal of Chemistry</i> , 2017 , 41, 6251-6261	3.6	20
20	Ligand-free nickel-catalyzed semihydrogenation of alkynes with sodium borohydride: a highly efficient and selective process for cis-alkenes under ambient conditions. <i>Chemical Communications</i> , 2017 , 53, 5372-5375	5.8	34
19	Two Gd ₂ compounds constructed by 8-hydroxyquinoline Schiff base ligands: Synthesis, structure, and magnetic refrigeration. <i>Inorganic Chemistry Communication</i> , 2017 , 79, 8-11	3.1	29
18	A rhombus-shaped tetranuclear dysprosium cluster showing single-molecule magnet behavior. <i>Polyhedron</i> , 2017 , 137, 306-310	2.7	22
17	One new planar Dy ₄ compound: Synthesis, structure and its magnetic dynamics behaviors. <i>Polyhedron</i> , 2017 , 137, 265-269	2.7	8
16	A Sensitive Luminescent Acetylacetonate Probe Based on Zn-MOF with Six-Fold Interpenetration. <i>Chemistry - A European Journal</i> , 2017 , 23, 13289-13293	4.8	76
15	A series of planar tetranuclear lanthanide complexes: axial ligand modulated magnetic dynamics in Dy ₄ species. <i>RSC Advances</i> , 2017 , 7, 55523-55535	3.7	38
14	Single-Molecule-Magnet Behavior and Fluorescence Properties of 8-Hydroxyquinolinolate Derivative-Based Rare-Earth Complexes. <i>Inorganic Chemistry</i> , 2016 , 55, 8898-904	5.1	31

13	Modulation of the relaxation dynamics of linear-shaped tetranuclear rare-earth clusters through utilizing different solvents. <i>Dalton Transactions</i> , 2016 , 45, 19117-19126	4.3	21
12	Syntheses, crystal structures, magnetic and luminescent properties of lanthanide complexes with nitronyl nitroxide radical as ligand. <i>Journal of Coordination Chemistry</i> , 2016 , 69, 594-603	1.6	1
11	Seven phenoxido-bridged complexes encapsulated by 8-hydroxyquinoline Schiff base derivatives and β -diketone ligands: single-molecule magnet, magnetic refrigeration and luminescence properties. <i>Dalton Transactions</i> , 2016 , 45, 3362-71	4.3	48
10	Multiple magnetic relaxation processes, magnetocaloric effect and fluorescence properties of rhombus-shaped tetranuclear rare earth complexes. <i>Dalton Transactions</i> , 2016 , 45, 253-64	4.3	53
9	Modulating single-molecule magnet behaviour of phenoxo-O bridged lanthanide(III) dinuclear complexes by using different β -diketonate coligands. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 133-141	6.8	116
8	A Semi-Conductive Copper Organic Framework with Two Types of Photocatalytic Activity. <i>Angewandte Chemie</i> , 2016 , 128, 5022-5026	3.6	17
7	Innentitelbild: A Semi-Conductive Copper Organic Framework with Two Types of Photocatalytic Activity (Angew. Chem. 16/2016). <i>Angewandte Chemie</i> , 2016 , 128, 4922-4922	3.6	
6	Near-infrared luminescence and SMM behaviors of a family of dinuclear lanthanide 8-quinolinolate complexes. <i>RSC Advances</i> , 2016 , 6, 34165-34174	3.7	28
5	Structures and magnetic properties of several phenoxo-O bridged dinuclear lanthanide complexes: Dy derivatives displaying substituent dependent magnetic relaxation behavior. <i>Dalton Transactions</i> , 2016 , 45, 8182-91	4.3	88
4	Unique Chiral Interpenetrating d-f Heterometallic MOFs as Luminescent Sensors. <i>Inorganic Chemistry</i> , 2015 , 54, 5266-72	5.1	99
3	Luminescence, magnetocaloric effect and single-molecule magnet behavior in lanthanide complexes based on a tridentate ligand derived from 8-hydroxyquinoline. <i>Dalton Transactions</i> , 2015 , 44, 18893-901	4.3	50
2	Ligand Field Affected Single-Molecule Magnet Behavior of Lanthanide(III) Dinuclear Complexes with an 8-Hydroxyquinoline Schiff Base Derivative as Bridging Ligand. <i>Inorganic Chemistry</i> , 2015 , 54, 10610-22	5.1	155
1	pH-induced Dy ₂ and Dy ₄ cluster-based 1D chains with different magnetic relaxation features. <i>Dalton Transactions</i> , 2014 , 43, 16838-45	4.3	41