

High-Nuclearity Lanthanide-Containing Clusters as Pot

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Four 3d ⁴ –4f heterometallic Ln ₄ M ₇ clusters protected by mixed ligands. CrystEngComm, 2018, 20, 2120-2125.	1.3	21
3	Facile and environmentally friendly synthesis of six heterometallic dumbbell-shaped MII ₅ LnIII ₄ (M = Co, Tj) ETQq1. Dalton Transactions, 2018, 47, 16850-16854.	1.6	28
4	An excellent cryogenic magnetic cooler: magnetic and magnetocaloric study of an inorganic frame material. Materials Chemistry Frontiers, 2018, 2, 2327-2332.	3.2	30
5	Solution behavior and magnetic properties of a novel nonanuclear copper(^{II}) cluster. New Journal of Chemistry, 2018, 42, 17884-17888.	1.4	7
6	Integration of Lanthanide–Transition Metal Clusters onto CdS Surfaces for Photocatalytic Hydrogen Evolution. Angewandte Chemie, 2018, 130, 17038-17042.	1.6	7
7	A series of zirconium-oxo cluster complexes based on arsenate or phosphonate ligands. Inorganic Chemistry Communication, 2018, 97, 125-128.	1.8	6
8	Integration of Lanthanide–Transition Metal Clusters onto CdS Surfaces for Photocatalytic Hydrogen Evolution. Angewandte Chemie - International Edition, 2018, 57, 16796-16800.	7.2	109
9	Macrocyclic-Encircled Polynuclear Metal Clusters: Controllable Synthesis, Reactivity Studies, and Applications. Accounts of Chemical Research, 2018, 51, 2535-2545.	7.6	49
10	Assembly of a Wheel-Like Eu ₂₄ Ti ₈ Cluster under the Guidance of High-Resolution Electrospray Ionization Mass Spectrometry. Angewandte Chemie - International Edition, 2018, 57, 10976-10979.	7.2	85
11	Syntheses, crystal-solution structures and magnetic properties of a series of decanuclear heterometallic [LnII ₂ CoII ₄ CoIII ₄] (Ln = Eu, Gd, Tb, Dy) clusters. Dalton Transactions, 2018, 47, 10124-10129.	1.6	5
12	Assembly of a Wheel-Like Eu ₂₄ Ti ₈ Cluster under the Guidance of High-Resolution Electrospray Ionization Mass Spectrometry. Angewandte Chemie, 2018, 130, 11142-11145.	1.6	12
13	A Series of Lanthanide Compounds Constructed from Ln ₈ Rings Exhibiting Large Magnetocaloric Effect and Interesting Luminescence. Inorganic Chemistry, 2018, 57, 8608-8614.	1.9	22
14	Polymer-Encapsulated Lanthanide-Containing Clusters as Platforms for Fabricating Magnetic Soft Materials. ACS Applied Materials & Interfaces, 2018, 10, 16947-16951.	4.0	10
15	Exploring the Performance Improvement of Magnetocaloric Effect Based Gd-Exclusive Cluster Gd ₆₀ . Journal of the American Chemical Society, 2018, 140, 11219-11222.	6.6	116
16	Cl ⁻ -Templated Assembly of Novel Peanut-like Ln ₄₀ Ni ₄₄ Heterometallic Clusters Exhibiting a Large Magnetocaloric Effect. Inorganic Chemistry, 2019, 58, 10883-10889.	1.9	25
17	Metal–Helix Frameworks Formed by Cu_3NO_3 with Different Orientations and Connected to a Heterometallic $\text{Cu}_{10}\text{Dy}_{11}\text{Cu}_2$ Folded Cluster. Chemistry - A European Journal, 2019, 25, 10813-10817.	1.7	18
18	A family of planar hexanuclear CoIII ₄ LnIII ₂ clusters with lucanidae-like arrangement and single-molecule magnet behavior. Dalton Transactions, 2019, 48, 12880-12887.	1.6	11
19	Step-by-Step and Competitive Assembly of Two Dy(III) Single-Molecule Magnets with Their Performance Tuned by Schiff Base Ligands. Crystal Growth and Design, 2019, 19, 5369-5375.	1.4	38

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20	Bis((pyridine-2-yl)-1,2,4-triazol-5-yl) Methane as Ligand in Three Zn(II) Complexes: Synthesis, Crystal Structures and Luminescent Properties. <i>Journal of Cluster Science</i> , 2019, 30, 1501-1510.	1.7	2
21	Formation of nanocluster {Dy ₁₂ } containing Dy-exclusive vertex-sharing [Dy ₄ ($\frac{1}{4}$ OH) ₃] ₄ cubanes via simultaneous multitemplate guided and step-by-step assembly. <i>Dalton Transactions</i> , 2019, 48, 11338-11344.	1.6	49
22	Ligand-Dependent Luminescence Properties of Lanthanide-Titanium Oxo Clusters. <i>Inorganic Chemistry</i> , 2019, 58, 15008-15012.	1.9	33
23	Aggregation of [LnIII ₁₂] clusters by the dianion of 3-formylsalicylic acid. Synthesis, crystal structures, magnetic and luminescence properties. <i>Dalton Transactions</i> , 2019, 48, 1700-1708.	1.6	18
24	High-Nuclearity Chiral 3d-4f Heterometallic Clusters Ln ₆ Cu ₂₄ and Ln ₆ Cu ₁₂ . <i>Inorganic Chemistry</i> , 2019, 58, 8494-8499.	1.9	20
25	Tracking the Stepwise Formation of the Dysprosium Cluster (Dy ₁₀) with Multiple Relaxation Behavior. <i>Inorganic Chemistry</i> , 2019, 58, 9169-9174.	1.9	68
26	In-situ synthesis of molecular magnetorefrigerant materials. <i>Coordination Chemistry Reviews</i> , 2019, 394, 39-52.	9.5	166
27	Metal-organic frameworks based on polynuclear lanthanide complexes and octahedral rhenium clusters. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 1518-1526.	3.0	32
28	A Giant Dy ₇₆ Cluster: A Fused Bi-Nanopillar Structural Model for Lanthanide Clusters. <i>Angewandte Chemie</i> , 2019, 131, 10290-10294.	1.6	17
29	A Giant Dy ₇₆ Cluster: A Fused Bi-Nanopillar Structural Model for Lanthanide Clusters. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10184-10188.	7.2	94
30	Main Group Chemistry at the Interface with Molecular Magnetism. <i>Chemical Reviews</i> , 2019, 119, 8479-8505.	23.0	159
31	Incorporating polyoxometalates and organic ligands to pursue 3d-4f heterometallic clusters: a series of {Cr ₄ Ln ₄ } clusters stabilized by phthalic acid and [SiW ₁₂ O ₄₀] ⁴⁻ . <i>RSC Advances</i> , 2019, 9, 13543-13549.	1.7	10
32	A large magnetocaloric effect in two hybrid Gd-complexes: the synergy of inorganic and organic ligands towards excellent cryo-magnetic coolants. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6352-6358.	2.7	27
33	Space Craft-like Octanuclear Co(II)-Silsesquioxane Nanocages: Synthesis, Structure, Magnetic Properties, Solution Behavior, and Catalytic Activity for Hydroboration of Ketones. <i>Inorganic Chemistry</i> , 2019, 58, 4574-4582.	1.9	57
34	[5Å-1 + 1Å-1] Hexanuclear Lanthanide(III) Cocrystal Complexes: Syntheses, Structures, and Magnetic Properties. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2216-2223.	1.0	9
35	Construction of the Lanthanide Diphosphonates via a Template-Synthesis Strategy: Structures, Proton Conduction, and Magnetic Behavior. <i>Crystal Growth and Design</i> , 2019, 19, 3045-3051.	1.4	10
36	Recent advance in heterometallic nanomagnets based on TMxLn ₄ ^x cubane subunits. <i>Coordination Chemistry Reviews</i> , 2019, 387, 129-153.	9.5	60
37	Self-Organization into Preferred Sites by Mg ^{II} , Mn ^{II} , and Mn ^{III} in Brucite-Structured M ₁₉ Cluster. <i>Inorganic Chemistry</i> , 2019, 58, 3800-3806.	1.9	21

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38	Solvothermal Syntheses, Crystal Structures and Magnetic Properties of Two Nickel Cubane-Type Cluster Complexes. <i>Journal of Cluster Science</i> , 2019, 30, 1347-1354.	1.7	3
39	Triethylamine-templated nanocalix Ln ₁₂ clusters of diacylhydrazone: crystal structures and magnetic properties. <i>Dalton Transactions</i> , 2019, 48, 17414-17421.	1.6	17
40	Substituents lead to differences in the formation of two different butterfly-shaped NiII2DyIII2 clusters: structures and multistep assembly mechanisms. <i>Dalton Transactions</i> , 2019, 48, 16641-16649.	1.6	18
41	Azide and carboxylate as simultaneous coupler for magnetic coordination polymers. <i>Coordination Chemistry Reviews</i> , 2019, 382, 1-31.	9.5	113
42	Hybrid Rare-Earth(III)/Bismuth(III) Clusters Assembled with Phosphonates. <i>Inorganic Chemistry</i> , 2019, 58, 648-654.	1.9	7
43	Tuning the Topology from fcu to pcu: Synthesis and Magnetocaloric Effect of Metal-Organic Frameworks Based on a Hexanuclear Gd(III)-Hydroxy Cluster. <i>Crystal Growth and Design</i> , 2019, 19, 55-59.	1.4	17
44	Magnetic and Luminescence Properties of Two Dinuclear Lanthanide Complexes with Butterfly-Like Arrangement. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2019, 645, 101-104.	0.6	4
45	A series of new polynuclear lanthanide(III) clusters prepared in alkylol amine. <i>Inorganica Chimica Acta</i> , 2020, 499, 119201.	1.2	5
46	Structure, magnetic properties, and magnetocaloric effect of polycrystalline Ho3M (M = Rh, Ru) alloys. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 497, 166055.	1.0	4
47	Effects of calcium ions on crystal structure and luminescence properties of six rare earth metal complexes. <i>Journal of Solid State Chemistry</i> , 2020, 281, 121053.	1.4	11
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50	Recent Advances in First-Row Transition Metal Clusters for Photocatalytic Water Splitting. <i>ChemPhotoChem</i> , 2020, 4, 157-167.	1.5	20
51	Manipulating clusters by regulating N,O chelating ligands: structures and multistep assembly mechanisms. <i>CrystEngComm</i> , 2020, 22, 915-923.	1.3	8
52	Heterometallic 3d ^{4f} {Co ₂ Gd ₄ } phosphonates: new members of the potential magnetic cooler family. <i>New Journal of Chemistry</i> , 2020, 44, 513-521.	1.4	2
53	One trans-aconitate-based two-dimensional Gd(III) polymer displaying large magnetocaloric effect. <i>Inorganic Chemistry Communication</i> , 2020, 120, 108166.	1.8	5
54	A novel heterometallic [GdIII2MnII2] cluster displaying larger cryogenic magnetocaloric effect. <i>Polyhedron</i> , 2020, 191, 114808.	1.0	5
55	Octacyanidometallates for multifunctional molecule-based materials. <i>Chemical Society Reviews</i> , 2020, 49, 5945-6001.	18.7	100

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56	Assembly of chiral 3d ^{4f} wheel-like cluster complexes with achiral ligands: single-molecule magnetic behavior and magnetocaloric effect. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3340-3351.	3.0	34
57	Two series of novel Ln ₂ Mn and Ln ₆ Mn ₂ (Ln = Gd/Tb) clusters: Synthesis, structures and magnetic properties. <i>Polyhedron</i> , 2020, 190, 114757.	1.0	1
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62	Assembly Mechanism and Heavy Metal Ion Sensing of Cage-Shaped Lanthanide Nanoclusters. <i>Cell Reports Physical Science</i> , 2020, 1, 100165.	2.8	26
63	Syntheses, structures and magnetic properties of novel tetrameric Ln ₂ Mn ₂ and ring-like Ln ₄ Mn ₄ clusters. <i>New Journal of Chemistry</i> , 2020, 44, 9837-9843.	1.4	2
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66	Magnetocaloric and barocaloric effects of metal complexes for solid state cooling: Review, trends and perspectives. <i>Coordination Chemistry Reviews</i> , 2020, 417, 213357.	9.5	48
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68	1D lanthanide coordination polymers containing biphosphonate ligand: Synthesis, structures and luminescence properties. <i>Inorganic Chemistry Communication</i> , 2020, 118, 108045.	1.8	5
69	Luminescent lanthanide metal-organic framework nanopores: from fundamentals to bioapplications. <i>Nanoscale</i> , 2020, 12, 15021-15035.	2.8	65
70	Double-Propeller-like Heterometallic 3d ^{4f} Clusters Ln ₁₈ Co ₇ . <i>Inorganic Chemistry</i> , 2020, 59, 7900-7904.	1.9	23
71	Structural and cryogenic magnetic properties of rare earth rich RE ₁₁ Co ₄ In ₉ (RE = Gd, Dy and Ho) intermetallic compounds. <i>Dalton Transactions</i> , 2020, 49, 8764-8773.	1.6	13
72	Temperature-induced formation of two dinuclear dysprosium complexes with different magnetic properties. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5622.	1.7	5
73	Assembly of Dy ₆₀ and Dy ₃₀ cage-shaped nanoclusters. <i>Communications Chemistry</i> , 2020, 3, .	2.0	37

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74	A Series Three-Dimensional Ln ₄ Cr ₄ (Ln = Gd, Tb, Er) Heterometallic Cluster-Based Coordination Polymers Containing Interesting Nanotubes Exhibiting High Magnetic Entropy. <i>Inorganic Chemistry</i> , 2020, 59, 5593-5599.	1.9	17
75	A single-ligand-protected Eu ₆ Gd(Tb) _n cluster: a reasonable new approach to expand lanthanide aggregations. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2072-2079.	3.0	14
76	CO ₂ fixation into carbonate anions for the construction of 3d-4f cluster complexes with salen-type Schiff base ligands: from molecular magnetic refrigerants to luminescent single-molecule magnets. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5893.	1.7	13
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78	Gadolinium-Rich Borate Gd _{17.33} (BO ₃) ₄ (B ₂ O ₅) ₂ O _{16.9} Exhibiting a Magnetocaloric Effect. <i>Inorganic Chemistry</i> , 2020, 59, 11071-11078.		12
79	Radii-dependent self-assembly of chiral lanthanide complexes: synthesis, chirality, and single-molecule magnet behavior. <i>Dalton Transactions</i> , 2020, 49, 10120-10126.	1.6	16
80	Metal hydrogen-bonded organic frameworks: structure and performance. <i>Dalton Transactions</i> , 2020, 49, 10708-10723.	1.6	46
81	The Gigantic {Ni ₃₆ Gd ₁₀₂ } Hexagon: A Sulfate-Templated "Star-of-David" for Photocatalytic CO ₂ Reduction and Magnetic Cooling. <i>Journal of the American Chemical Society</i> , 2020, 142, 4663-4670.	6.6	99
82	Two series of lanthanide complexes with 4-chlorophenylacetate ligand displaying luminescence and significant magnetocaloric effect. <i>Journal of Molecular Structure</i> , 2020, 1208, 127887.	1.8	4
83	Anion-Dependent Assembly of 3d-4f Heterometallic Clusters Ln ₅ Cr ₂ and Ln ₈ Cr ₄ . <i>Inorganic Chemistry</i> , 2020, 59, 1959-1966.	1.9	21
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85	Synthesis, crystal structures and magnetic properties of two heterometallic {Ln ₈ Cr ₄ } (Ln =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tj ETQq1 1 0.784314 rgBT /Overlock 10 Advances, 2020, 10, 11365-11370.	1.7	6
86	Magnetocaloric Effect and Slow Magnetic Relaxation on Two-Dimensional Layered 3d-4f Cluster-Based Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , 2020, 20, 4005-4012.	1.4	20
87	Nanoscale Organolanthanum Clusters: Nuclearity-Directing Role of Cyclopentadienyl and Halogenido Ligands. <i>Chemistry - A European Journal</i> , 2020, 26, 10834-10840.	1.7	5
88	Versatile Binding Modes of Chiral Macrocyclic Amine towards Rare Earth Ions. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 2096-2104.	1.0	5
89	Hendecanuclear [Cu ₆ Gd ₅] magnetic cooler with high molecular symmetry of D _{3h} . <i>Chinese Chemical Letters</i> , 2021, 32, 838-841.	4.8	5
90	Crystal structure, magnetic phase transitions and magnetocaloric effect (MCE) in layer-like RE ₁₁ Ni ₄ In ₉ (RE = Gd, Dy and Ho) compounds. <i>Journal of Alloys and Compounds</i> , 2021, 851, 155863.	2.8	10
91	A Double-Layered {Cu ₉ } Nanocage with Diacylhydrazine: Synthesis, Structure and Magnetic Properties. <i>Journal of Cluster Science</i> , 2021, 32, 765-772.	1.7	1

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93	A systematic study of halide-template effects in the assembly of lanthanide hydroxide cluster complexes with histidine. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 26-34.	3.0	11
94	Coordination-Assembled Molecular Cages with Metal Cluster Nodes. <i>Chemical Record</i> , 2021, 21, 498-522.	2.9	19
95	Lanthanide-Based Molecular Cluster Aggregates: Optical Barcoding and White Light Emission with Nanosized $\{Ln_{20}\}$ Compounds. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6130-6136.	7.2	48
96	Lanthanide-Based Molecular Cluster Aggregates: Optical Barcoding and White Light Emission with Nanosized $\{Ln_{20}\}$ Compounds. <i>Angewandte Chemie</i> , 2021, 133, 6195-6201.	1.6	9
97	Dodecanuclear $\{Co_{10}Ln_2\}$ metallorings. <i>Inorganica Chimica Acta</i> , 2021, 516, 120112.	1.2	1
98	Hierarchical clusters of lanthanide cluster plus gold cluster. <i>Inorganic and Nano-Metal Chemistry</i> , 2021, 51, 947-956.	0.9	2
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100	A series of dysprosium clusters assembled by a substitution effect-driven out-to-in growth mechanism. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2136-2143.	3.0	33
101	Hierarchical Construction and Magnetic Difference of $\{Co_{12}M_{12}\}$ (M = Tj ETQq1 1 0.784314 rgBT /Overlock the Presence of Homo/Heterometal Salts. <i>Inorganic Chemistry</i> , 2021, 60, 2372-2380.	1.9	5
102	Ring-forming transformation associated with hydrazone changes of hexadecanuclear dysprosium phosphonates. <i>Dalton Transactions</i> , 2021, 50, 1119-1125.	1.6	10
103	Two pairs of chiral lanthanide-oxo clusters Ln_{14} induced by amino acid derivatives. <i>CrystEngComm</i> , 2021, 23, 6923-6929.	1.3	4
104	Fascinating interlocked triacontanuclear giant nanocages. <i>Chemical Communications</i> , 2021, 57, 11177-11180.	2.2	2
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107	Large Magnetocaloric Effect in $Li_3K_9Gd_3(BO_3)_7$ Crystal Featuring Sandwich-Like Three-Dimensional Framework. <i>Inorganic Chemistry</i> , 2021, 60, 6796-6803.	1.9	13
108	Heterometallic Cull-LnIII complexes: Single molecule magnets and magnetic refrigerants. <i>Coordination Chemistry Reviews</i> , 2021, 432, 213707.	9.5	48
109	Magnetocaloric effect and slow magnetic relaxation behavior in binuclear rare earth based $RE_2(L)_2(DMF)_4$ ($RE = Gd, Tb, \text{ and } Dy$) complexes. <i>Journal of Rare Earths</i> , 2022, 40, 916-923.	2.5	16

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110	Magnetocaloric Effect and Thermal Conductivity of a 3D Coordination Polymer of [Gd(HCOO)(C ₂ O ₄) _n]. <i>Inorganic Chemistry</i> , 2021, 60, 9259-9262.	1.9	14
111	Exploring the functional relation of magnetic density and magnetocaloric effect based on a dinuclear system. <i>Applied Organometallic Chemistry</i> , 2021, 35, e6325.	1.7	3
112	A two dimensional Gd III coordination polymer based on isonicotinic acid N-oxide with large magnetocaloric effect. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021, 647, 1542-1546.	0.6	2
113	Three 3D Lanthanide coordination polymers: Synthesis, luminescence and magnetic properties. <i>Journal of Molecular Structure</i> , 2021, 1234, 130167.	1.8	7
114	Real-time and visual sensing devices based on pH-control assembled lanthanide-barium nano-cluster. <i>Journal of Hazardous Materials</i> , 2021, 413, 125291.	6.5	23
115	A 1D Mn-based coordination polymer with significant magnetocaloric effect. <i>Polyhedron</i> , 2021, 202, 115173.	1.0	4
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118	Gd ₃ Triangles in a Polyoxometalate Matrix: Tuning Molecular Magnetocaloric Effects in {Gd ₃₀ M ₈ } Polyoxometalate/Cluster Hybrids Through Variation of M ²⁺ . <i>Small Structures</i> , 2021, 2, 210052.	6.9	13
119	Hexanuclear Co ₄ Dy ₂ , Zn ₄ Dy ₂ , and Co ₄ Y ₂ Complexes with Defect Tetracubane Cores: Syntheses, Structures, and Magnetic Properties. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2545-2551.	1.7	2
120	Modulating the Architectures of Cobalt Metal-Organic Frameworks to Fine-tune Slow Magnetic Relaxation Behaviors. <i>Crystal Growth and Design</i> , 2021, 21, 5678-5686.	1.4	6
121	Excellent cryogenic magnetocaloric performances in ferromagnetic Sr ₂ GdNbO ₆ double perovskite compound. <i>Materials Today Physics</i> , 2021, 20, 100470.	2.9	55
122	A Carbonate-Templated Decanuclear Mn Nanocage with Two Different Silsesquioxane Ligands. <i>Inorganic Chemistry</i> , 2021, 60, 14866-14871.	1.9	11
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124	Synthesis, structure, magnetocaloric effect and DFT calculations of a MnII cluster-based inorganic coordination polymer. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160353.	2.8	5
125	Radii-dependent self-assembly polynuclear lanthanide complexes as catalysts for CO ₂ transformation into cyclic carbonates. <i>New Journal of Chemistry</i> , 2021, 45, 20155-20163.	1.4	7
126	Recent advances in lanthanide coordination polymers and clusters with magnetocaloric effect or single-molecule magnet behavior. <i>Dalton Transactions</i> , 2021, 50, 15473-15487.	1.6	24
127	A new family of decanuclear Ln ₇ Cr ₃ clusters exhibiting a magnetocaloric effect. <i>RSC Advances</i> , 2021, 11, 17346-17351.	1.7	3

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129	Lanthanides. , 2021, , 418-470.		1
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131	Regulating the slow magnetic relaxation behavior of two different shapes Dy_4 clusters with in situ formed penta- and heptadentate Schiff base ligands. Applied Organometallic Chemistry, 2020, 34, e5808.	1.7	3
132	Half-sandwich Complexes $[Cp^*_2Ln_4I_8]_4$ ($Ln=Ce, Tj$) $ETQqO_0O_0rgBT/Overlock$ Chemistry, 2022, 2022, .	1.0	1
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