

# Lanthanide-Functionalized Metal-Organic Framework Luminescent Centers for Chemical Sensing

Accounts of Chemical Research

50, 2789-2798

DOI: [10.1021/acs.accounts.7b00387](https://doi.org/10.1021/acs.accounts.7b00387)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Six novel coordination polymers based on the 5-(1 <i>H</i> -tetrazol-5-yl)isophthalic acid ligand: structures, luminescence, and magnetic properties. <i>CrystEngComm</i> , 2018, 20, 1985-1996.	1.3	17
2	A trichromatic MOF composite for multidimensional ratiometric luminescent sensing. <i>Chemical Science</i> , 2018, 9, 2918-2926.	3.7	96
3	Rapid Detection of the Biomarkers for Carcinoid Tumors by a Water Stable Luminescent Lanthanide Metal-Organic Framework Sensor. <i>Advanced Functional Materials</i> , 2018, 28, 1707169.	7.8	335
4	A stable electron-deficient metal-organic framework for colorimetric and luminescence sensing of phenols and anilines. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9236-9244.	5.2	127
5	Lanthanide hybrids of covalently-coordination cooperative post-functionalized metal-organic frameworks for luminescence tuning and highly-selectively sensing of tetrahydrofuran. <i>Dalton Transactions</i> , 2018, 47, 6210-6217.	1.6	52
6	From 2D to 3D interpenetration to packing: N coligand-driven structural assembly and tuning of luminescent sensing activities towards Fe <sup>3+</sup> and Cr <sup>2+</sup> ions. <i>Dalton Transactions</i> , 2018, 47, 6240-6249.	1.6	76
7	The effect of ligand symmetry on the ratiometric luminescence characteristics of lanthanides. <i>Dalton Transactions</i> , 2018, 47, 6779-6786.	1.6	7
8	A luminescent Lanthanide-free MOF nanohybrid for highly sensitive ratiometric temperature sensing in physiological range. <i>Talanta</i> , 2018, 181, 410-415.	2.9	87
9	Dual Ligand Strategy for Constructing a Series of d <sup>10</sup> Coordination Polymers: Syntheses, Structures, Photoluminescence, and Sensing Properties. <i>Crystal Growth and Design</i> , 2018, 18, 1882-1890.	1.4	33
10	Terphenyltetracarboxylate acid based 3D modular cobalt(II) coordination polymer with highly sensitive luminescent sensing of chromate anions. <i>Inorganic Chemistry Communication</i> , 2018, 89, 32-36.	1.8	8
11	Photofunctional hybrids of TiO <sub>2</sub> and titanium metal-organic frameworks for dye degradation and lanthanide ion-tuned multi-color luminescence. <i>New Journal of Chemistry</i> , 2018, 42, 4394-4401.	1.4	17
12	A lanthanide functionalized MOF hybrid for ratiometric luminescence detection of an anthrax biomarker. <i>CrystEngComm</i> , 2018, 20, 1264-1270.	1.3	44
13	Ratiometric fluorescence sensing and colorimetric decoding methanol by a bimetallic lanthanide-organic framework. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 104-109.	4.0	86
14	Engineering design toward exploring the functional group substitution in 1D channels of Zn-organic frameworks upon nitro explosives and antibiotics detection. <i>Dalton Transactions</i> , 2018, 47, 5359-5365.	1.6	126
15	Efficient near-infrared (NIR) luminescent [Zn(L1)(4-vinyl-Py)Yb(L2) <sub>3</sub> ] complex monomer covalently-bonded into PMMA. <i>Inorganic Chemistry Communication</i> , 2018, 91, 63-66.	1.8	7
16	A Flexible Fluorescent SCC-MOF for Switchable Molecule Identification and Temperature Display. <i>Chemistry of Materials</i> , 2018, 30, 2160-2167.	3.2	138
17	Photoactive metal-organic framework as a bifunctional material for 4-hydroxy-4-nitrobiphenyl detection and photodegradation of methylene blue. <i>Dalton Transactions</i> , 2018, 47, 16551-16557.	1.6	30
18	Two isostructural Ln-MOFs showing luminescent sensing (Eu) and slow magnetic relaxation (Dy) properties. <i>Dalton Transactions</i> , 2018, 47, 15656-15660.	1.6	9

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19	Porous organic polymers based on melamine and 5,5'-bis(bromomethyl)-2,2'-bipyridine: functionalization with lanthanide ions for chemical sensing and highly efficient adsorption of methyl orange. <i>New Journal of Chemistry</i> , 2018, 42, 19734-19739.	1.4	6
20	Synthesis of spiny metal-phenolic coordination crystals as a sensing platform for sequence-specific detection of nucleic acids. <i>CrystEngComm</i> , 2018, 20, 7626-7630.	1.3	14
21	Two water-stable lanthanide metal-organic frameworks with oxygen-rich channels for fluorescence sensing of Fe(III) ions in aqueous solution. <i>Dalton Transactions</i> , 2018, 47, 16190-16196.	1.6	101
22	Ultrahigh luminescence quantum yield lanthanide coordination polymer as a multifunctional sensor. <i>Dalton Transactions</i> , 2018, 47, 17432-17440.	1.6	59
23	Nonwoven fabric coated with a tetraphenylethene-based luminescent metal-organic framework for selective and sensitive sensing of nitrobenzene and ammonia. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12371-12376.	2.7	28
24	Diverse Lanthanide Coordination Polymers with 3,3'-Dimethylcyclopropane-1,2-dicarboxylate Ligand: Synthesis, Crystal Structure, and Properties. <i>ACS Omega</i> , 2018, 3, 12122-12131.	1.6	10
25	Novel Turn-On Fluorescent Probe for Highly Selectively Sensing Fluoride in Aqueous Solution Based on Tb <sup>3+</sup> -Functionalized Metal-Organic Frameworks. <i>ACS Omega</i> , 2018, 3, 12513-12519.	1.6	49
26	A Novel Tb@Sr-MOF as Self-Calibrating Luminescent Sensor for Nutritional Antioxidant. <i>Nanomaterials</i> , 2018, 8, 796.	1.9	14
27	Interesting pH-Responsive Behavior in Benzothiadiazole-Derived Coordination Polymer Constructed via an in Situ Click Synthesis. <i>Crystal Growth and Design</i> , 2018, 18, 7419-7425.	1.4	17
28	Solvated Lanthanide Cationic Template Strategy for Constructing Iodoargentates with Photoluminescence and White Light Emission. <i>Crystal Growth and Design</i> , 2018, 18, 7041-7047.	1.4	56
29	Ultrathin two-dimensional metal-organic framework nanosheets for functional electronic devices. <i>Coordination Chemistry Reviews</i> , 2018, 377, 44-63.	9.5	182
30	Dual-Emitting Eu(III)-Cu(II) Heterometallic-Organic Framework: Simultaneous, Selective, and Sensitive Detection of Hydrogen Sulfide and Ascorbic Acid in a Wide Range. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32698-32706.	4.0	24
31	Color-Tunable and High-Efficiency Dye-Encapsulated Metal-Organic Framework Composites Used for Smart White-Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 18910-18917.	4.0	88
32	Stable dye-encapsulated indium-organic framework as dual-emitting sensor for the detection of Hg <sup>2+</sup> /Cr <sup>2+</sup> O <sub>7</sub> <sup>2-</sup> and a wide range of nitro-compounds. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6440-6448.	2.7	126
33	Metal-Organic Frameworks Based on Multicenter-Bonded [M <sup>I</sup> ] <sub>8</sub> (M=Mn, Zn) Clusters with Cubic Aromaticity. <i>Chemistry - A European Journal</i> , 2018, 24, 16702-16707.	1.7	14
34	Stable photoluminescence of lanthanide complexes in aqueous media through Metal-Organic Frameworks Nanoparticles with plugged surface. <i>Journal of Colloid and Interface Science</i> , 2018, 527, 68-77.	5.0	8
35	Dual-emissive nanocomposites based on Eu-functionalized Cu <sub>i</sub> -coordination polymer for ratiometric fluorescent sensing and integrating Boolean logic operations. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6229-6239.	2.7	17
36	Terbium complexes encapsulated in hierarchically organized hybrid MOF particles toward stable luminescence in aqueous media. <i>CrystEngComm</i> , 2018, 20, 4225-4229.	1.3	1

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37	Near-infrared emission sensitization of lanthanide cation based on Ag <sup>+</sup> functionalized metal-organic frameworks. <i>Journal of Alloys and Compounds</i> , 2018, 765, 63-68.	2.8	10
38	Oxidative deoxygenation reaction induced recognition of hypochlorite based on a new fluorescent lanthanide-organic framework. <i>Chemical Engineering Journal</i> , 2018, 351, 364-370.	6.6	63
39	Carbon nanodots in ZIF-8: synthesis, tunable luminescence and temperature sensing. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2739-2745.	3.0	38
40	Two anthracene-based metal-organic frameworks for highly effective photodegradation and luminescent detection in water. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17177-17185.	5.2	95
41	A multifunctional and recyclable terbium(III) coordination polymer: displaying highly selective and sensitive detection of Fe <sup>3+</sup> and Cr <sup>VI</sup> anions, and picric acid in aqueous media. <i>Dalton Transactions</i> , 2018, 47, 11077-11083.	1.6	20
42	Flexible Metal-Organic Framework-Based Mixed-Matrix Membranes: A New Platform for H <sub>2</sub> S Sensors. <i>Small</i> , 2018, 14, e1801563.	5.2	88
43	Photonic functional metal-organic frameworks. <i>Chemical Society Reviews</i> , 2018, 47, 5740-5785.	18.7	528
44	A bi-metallic MOF catalyst <i>in situ</i> sensitive detection & adsorption of Fe <sup>3+</sup> ions for size-selective reaction prompting. <i>Dalton Transactions</i> , 2018, 47, 9267-9273.	1.6	19
45	A Trichromatic and White-Light-Emitting MOF Composite for Multi-Dimensional and Multi-Response Ratiometric Luminescent Sensing. <i>Chemistry - A European Journal</i> , 2018, 24, 9555-9564.	1.7	33
46	Dual emissions and thermochromic luminescences of isomorphous chiral twofold interpenetrated 3-D nets built from I <sup>1</sup> O <sup>2</sup> type hybrid inorganic-organic frameworks of [NH <sub>2</sub> (CH <sub>3</sub> ) <sub>2</sub> ] <sub>3</sub> [Pb <sub>2</sub> X <sub>3</sub> (BDC) <sub>2</sub> ] (X = Br, I). <i>Dalton Transactions</i> , 2018, 47, 14233-14240.	1.6	5
47	A Eu and Tb co-doped MOF-5 compound for ratiometric high temperature sensing. <i>Ceramics International</i> , 2018, 44, 21040-21046.	2.3	29
48	Luminescent Hybrid Membrane-Based Logic Device: From Enantioselective Discrimination to Read-Only Memory for Information Processing. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29779-29785.	4.0	20
49	Luminescent Metal-Organic Framework Thin Films: From Preparation to Biomedical Sensing Applications. <i>Crystals</i> , 2018, 8, 338.	1.0	30
50	Multi-responsive luminescent sensor based on Zn (II) metal-organic framework for selective sensing of Cr(III), Cr(VI) ions and p-nitrotoluene. <i>Journal of Solid State Chemistry</i> , 2018, 268, 168-174.	1.4	42
51	The insights from X-ray absorption spectroscopy into the local atomic structure and chemical bonding of Metal-organic frameworks. <i>Polyhedron</i> , 2018, 155, 232-253.	1.0	34
52	A water-stable lanthanide coordination polymer as a multiresponsive luminescent sensor for Fe <sup>3+</sup> , Cr(III) and 4-nitrophenol. <i>Dalton Transactions</i> , 2018, 47, 13543-13549.	1.6	55
53	Synthesis, structure, and luminescent properties of zinc(II) complexes based on flexible phenylenediacetate ligand. <i>Polyhedron</i> , 2018, 154, 473-479.	1.0	5
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56	Ln(III)-Functionalized Metal-Organic Frameworks Hybrid System: Luminescence Properties and Sensor for <i>trans</i> - <i>trans</i> -Muconic Acid as a Biomarker of Benzene. Inorganic Chemistry, 2018, 57, 7815-7824.	1.9	76
57	A pyrene-involved luminescent MOF for monitoring 1-hydroxypyrene, a biomarker for human intoxication of PAH carcinogens. Analyst, The, 2018, 143, 3628-3634.	1.7	34
58	A Multi-Responsive Cd-Viologen Complex: Photochromism, Photomodulated Fluorescence, and Luminescent Sensing. ChemistrySelect, 2018, 3, 6611-6616.	0.7	18
59	Regulation of the surface area and surface charge property of MOFs by multivariate strategy: Synthesis, characterization, selective dye adsorption and separation. Microporous and Mesoporous Materials, 2018, 272, 101-108.	2.2	112
60	Multifunctional Ln-MOF Luminescent Probe for Efficient Sensing of Fe <sup>3+</sup> , Ce <sup>3+</sup> , and Acetone. ACS Applied Materials & Interfaces, 2018, 10, 23976-23986.	4.0	307
61	A Highly Sensitive and Recyclable Ln-MOF Luminescent Sensor for the Efficient Detection of Fe <sup>3+</sup> and Cr <sup>VI</sup> Anions. Chemistry - an Asian Journal, 2019, 14, 3721-3727.	1.7	40
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63	Photo-induced electron transfer in a metal-organic framework: a new approach towards a highly sensitive luminescent probe for Fe <sup>3+</sup> . Chemical Communications, 2019, 55, 11231-11234.	2.2	55
64	Detoxification and Sensing of Organophosphate-Based Pesticides and Preservatives in Beverages. , 2019, , 467-510.		1
65	Metal-organic frameworks for detection and desensitization of environmentally hazardous nitro-explosives and related high energy materials. , 2019, , 231-283.		4
66	Effective luminescence sensing of Fe <sup>3+</sup> , Cr <sub>2</sub> O <sub>7</sub> <sup>2-</sup> , MnO <sub>4</sub> <sup>-</sup> and 4-nitrophenol by lanthanide metal-organic frameworks with a new topology type. Dalton Transactions, 2019, 48, 12287-12295.	1.6	88
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68	Two Stable Terbium-Organic Frameworks Based on Predesigned Functionalized Ligands: Selective Sensing of Fe <sup>3+</sup> Ions and C <sub>2</sub> H <sub>2</sub> /CH <sub>4</sub> Separation. Inorganic Chemistry, 2019, 58, 10295-10303.	1.9	50
69	Design strategies and applications of charged metal organic frameworks. Coordination Chemistry Reviews, 2019, 398, 113007.	9.5	72
70	Heteroepitaxial Growth of Multiblock Ln-MOF Microrods for Photonic Barcodes. Angewandte Chemie - International Edition, 2019, 58, 13803-13807.	7.2	94
71	Heteroepitaxial Growth of Multiblock Ln-MOF Microrods for Photonic Barcodes. Angewandte Chemie, 2019, 131, 13941-13945.	1.6	23
72	MIP-coated Eu(BTC) for the fluorometric determination of lincomycin in eggs. Analytical Methods, 2019, 11, 4501-4510.	1.3	9

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73	Metal-Organic Frameworks for Food Safety. <i>Chemical Reviews</i> , 2019, 119, 10638-10690.	23.0	366
74	Aqueous-Phase Differentiation and Speciation of Fe <sup>3+</sup> and Fe <sup>2+</sup> Using Water-Stable Photoluminescent Lanthanide-Based Metal-Organic Framework. <i>ACS Applied Nano Materials</i> , 2019, 2, 5169-5178.	2.4	41
75	Mixed-ligand lanthanide complexes constructed by flexible 1,3-propanediaminetetraacetate and rigid terephthalate. <i>Journal of Coordination Chemistry</i> , 2019, 72, 1547-1559.	0.8	6
76	Concurrent Modulation of Competitive Mechanisms to Design Stimuli-Responsive Ln-MOFs: A Light-Operated Dual-Mode Assay for Oxidative DNA Damage. <i>Advanced Functional Materials</i> , 2019, 29, 1903058.	7.8	42
77	[2 + 2] cycloaddition reaction and luminescent sensing of Fe <sup>3+</sup> and Cr <sup>2+</sup> O <sub>7</sub> <sup>2-</sup> ions by a cadmium-based coordination polymer. <i>Dalton Transactions</i> , 2019, 48, 12159-12167.	1.6	18

78 A Discrete Molecule and a 1D Coordination Polymer of Cadmium(II): Preparation, Structures, and

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91	Dual-Emissive Metal-Organic Framework as a Fluorescent "Switch" for Ratiometric Sensing of Hypochlorite and Ascorbic Acid. <i>Inorganic Chemistry</i> , 2019, 58, 13360-13369.	1.9	94
92	Tb post-functionalized La (III) metal organic framework hybrid probe for simple and highly sensitive detection of acetaldehyde. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 126985.	4.0	34
93	A Robust Multifunctional Eu <sup>6+</sup> -Cluster Based Framework for Gas Separation and Recognition of Small Molecules and Heavy Metal Ions. <i>Crystal Growth and Design</i> , 2019, 19, 6381-6387.	1.4	26
94	Assembly of Two Isostructural Metal-organic Frameworks Based on Hetero-N,O Donor Ligand for Detecting Nitro Explosives. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 762-766.	1.3	3
95	Photocatalytic degradation of cefixime with MIL-125(Ti)-mixed linker decorated by g-C <sub>3</sub> N <sub>4</sub> under solar driven light irradiation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 582, 123874.	2.3	34
96	Recent advances in luminescent metal-organic frameworks for chemical sensors. <i>Science China Materials</i> , 2019, 62, 1655-1678.	3.5	132
97	Tetraphenylethylene-Decorated Metal-Organic Frameworks as Energy-Transfer Platform for the Detection of Nitro-Antibiotics and White-Light Emission. <i>Inorganic Chemistry</i> , 2019, 58, 12700-12706.	1.9	152
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99	A carbazole-functionalized metal-organic framework for efficient detection of antibiotics, pesticides and nitroaromatic compounds. <i>Dalton Transactions</i> , 2019, 48, 2683-2691.	1.6	99
100	Space-confined indicator displacement assay inside a metal-organic framework for fluorescence turn-on sensing. <i>Chemical Science</i> , 2019, 10, 3307-3314.	3.7	62
101	Three resorcin[4]arene-based lanthanide-coordination polymers with multifunctional photoluminescence sensing properties. <i>RSC Advances</i> , 2019, 9, 3647-3652.	1.7	3
102	8-Hydroxyquinolate-Based Metal-Organic Frameworks: Synthesis, Tunable Luminescent Properties, and Highly Sensitive Detection of Small Molecules and Metal Ions. <i>Inorganic Chemistry</i> , 2019, 58, 2444-2453.	1.9	72
103	Solvent-induced terbium metal-organic frameworks for highly selective detection of manganese(II) ions. <i>Dalton Transactions</i> , 2019, 48, 2569-2573.	1.6	25
104	Anion-directed structures and luminescences of two Cu(I) coordination polymers based on bipyrazole. <i>Inorganic Chemistry Communication</i> , 2019, 101, 121-124.	1.8	6
105	Polyoxometalate-based metal-organic framework NENU-5 hybrid materials for photoluminescence tuning by introducing lanthanide ions and their functionalized soft ionogel/thin film. <i>CrystEngComm</i> , 2019, 21, 1186-1192.	1.3	17
106	A ratiometric fluorescent sensor with dual response of Fe <sup>3+</sup> /Cu <sup>2+</sup> based on europium post-modified sulfone-metal-organic frameworks and its logical application. <i>Talanta</i> , 2019, 197, 291-298.	2.9	57
107	Tunable Light Emission and Multiresponsive Luminescent Sensitivities in Aqueous Solutions of Two Series of Lanthanide Metal-Organic Frameworks Based on Structurally Related Ligands. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7914-7926.	4.0	198
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110	Functional Construction of Dual-Emitting 4-aminonaphthalimide Encapsulated Lanthanide MOFs Composite for Ratiometric Temperature Sensing. Chemistry - A European Journal, 2019, 25, 10054-10058.	1.7	28
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113	A series of resorcin[4]arene-based lanthanide-metal organic frameworks for barcode and luminescent multicolor tuning property. Dyes and Pigments, 2019, 171, 107665.	2.0	14
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115	Bimetal-organic framework nanocomposite based point-of-care visual ratiometric fluorescence pH microsensor for strong acidity. Sensors and Actuators B: Chemical, 2019, 294, 199-205.	4.0	41
116	Photofunctional MOF-based hybrid materials for the chemical sensing of biomarkers. Journal of Materials Chemistry C, 2019, 7, 8155-8175.	2.7	104
117	Assembly of porous lanthanide metal-organic frameworks constructed by chalcone dicarboxylic acid and exploration of their properties. Polyhedron, 2019, 169, 24-31.	1.0	19
118	1,6-Elimination reaction induced detection of fluoride ions in vitro and in vivo based on a NIR fluorescent probe. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 220, 117108.	2.0	19
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128	Ratiometric and Turn-On Luminescence Detection of Water in Organic Solvents Using a Responsive Europium-Organic Framework. <i>Analytical Chemistry</i> , 2019, 91, 4845-4851.	3.2	93
129	A Pillar-Layered Zn-LMOF with Uncoordinated Carboxylic Acid Sites: High Performance for Luminescence Sensing $\text{Fe}^{3+}$ and TNP. <i>Inorganic Chemistry</i> , 2019, 58, 4026-4032.	1.9	105
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131	Hybrid MOF-808-Tb nanospheres for highly sensitive and selective detection of acetone vapor and $\text{Fe}^{3+}$ in aqueous solution. <i>Chemical Communications</i> , 2019, 55, 4727-4730.	2.2	61
132	Colorimetric analysis: A new strategy to improve ratiometric temperature sensing performance of lanthanide benzenedicarboxylates. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 377, 167-172.	2.0	2
133	A ratiometric fluorescence platform based on boric-acid-functional Eu-MOF for sensitive detection of $\text{H}_2\text{O}_2$ and glucose. <i>Biosensors and Bioelectronics</i> , 2019, 135, 208-215.	5.3	201
134	Luminescent properties of newly synthesized thioxanthone-polypyridyl derivatives and their metal-organic complexes. <i>Journal of Luminescence</i> , 2019, 212, 5-13.	1.5	9
135	Triple-Interpenetrated Lanthanide-Organic Framework as Dual Wave Bands Self-Calibrated pH Luminescent Probe. <i>Analytical Chemistry</i> , 2019, 91, 5455-5460.	3.2	70
136	A series of two-dimensional lanthanide coordination polymers: synthesis, structures, magnetism and selective luminescence detection for heavy metal ions and toxic solvents. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 221-230.	0.2	5
137	A stable mixed lanthanide metal-organic framework for highly sensitive thermometry. <i>Dalton Transactions</i> , 2019, 48, 3723-3729.	1.6	59
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