

# Shu-ao Wang

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Umbellate Distortions of the Uranyl Coordination Environment Result in a Stable and Porous Polycatenated Framework That Can Effectively Remove Cesium from Aqueous Solutions. <i>Journal of the American Chemical Society</i> , 2015, 137, 6144-6147.	13.7	392
2	Identifying the Recognition Site for Selective Trapping of $^{99}\text{TcO}_4^-$ in a Hydrolytically Stable and Radiation Resistant Cationic Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017, 139, 14873-14876.	13.7	386
3	Overcoming the crystallization and designability issues in the ultrastable zirconium phosphonate framework system. <i>Nature Communications</i> , 2017, 8, 15369.	12.8	366
4	Highly Sensitive and Selective Uranium Detection in Natural Water Systems Using a Luminescent Mesoporous Metal-Organic Framework Equipped with Abundant Lewis Basic Sites: A Combined Batch, X-ray Absorption Spectroscopy, and First Principles Simulation Investigation. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3911-3921.	10.0	331
5	Efficient and Selective Uptake of $\text{TcO}_4^-$ by a Cationic Metal-Organic Framework Material with Open Ag <sup>+</sup> Sites. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3471-3479.	10.0	323
6	A mesoporous cationic thorium-organic framework that rapidly traps anionic persistent organic pollutants. <i>Nature Communications</i> , 2017, 8, 1354.	12.8	296
7	Three Mechanisms in One Material: Uranium Capture by a Polyoxometalate-Organic Framework through Combined Complexation, Chemical Reduction, and Photocatalytic Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16110-16114.	13.8	288
8	Ultrafast and Efficient Extraction of Uranium from Seawater Using an Amidoxime Appended Metal-Organic Framework. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 32446-32451.	8.0	260
9	Synthesis of novel nanomaterials and their application in efficient removal of radionuclides. <i>Science China Chemistry</i> , 2019, 62, 933-967.	8.2	256
10	NDTB-1: A Supertetrahedral Cationic Framework That Removes $\text{TcO}_4^-$ from Solution. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1057-1060.	13.8	238
11	$^{99}\text{TcO}_4^-$ remediation by a cationic polymeric network. <i>Nature Communications</i> , 2018, 9, 3007.	12.8	234
12	Hydrolytically Stable Luminescent Cationic Metal Organic Framework for Highly Sensitive and Selective Sensing of Chromate Anions in Natural Water Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16448-16457.	8.0	223
13	Powerful uranium extraction strategy with combined ligand complexation and photocatalytic reduction by postsynthetically modified photoactive metal-organic frameworks. <i>Applied Catalysis B: Environmental</i> , 2019, 254, 47-54.	20.2	222
14	Excellent Selectivity for Actinides with a Tetradentate 2,9-Diamide-1,10-Phenanthroline Ligand in Highly Acidic Solution: A Hard-Soft Donor Combined Strategy. <i>Inorganic Chemistry</i> , 2014, 53, 1712-1720.	4.0	219
15	Highly Sensitive Detection of Ionizing Radiations by a Photoluminescent Uranyl Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 7500-7504.	13.8	214
16	Emergence of Uranium as a Distinct Metal Center for Building Intrinsic X-ray Scintillators. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7883-7887.	13.8	198
17	Multimodal Luminescent $\text{Yb}^{3+}/\text{Er}^{3+}/\text{Bi}^{3+}$ -Doped Perovskite Single Crystals for X-ray Detection and Anti-Counterfeiting. <i>Advanced Materials</i> , 2020, 32, e2004506.	21.0	187
18	Exceptional Perrhenate/Pertechnetate Uptake and Subsequent Immobilization by a Low-Dimensional Cationic Coordination Polymer: Overcoming the Hofmeister Bias Selectivity. <i>Environmental Science and Technology Letters</i> , 2017, 4, 316-322.	8.7	181

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19	Unique Proton Transportation Pathway in a Robust Inorganic Coordination Polymer Leading to Intrinsically High and Sustainable Anhydrous Proton Conductivity. <i>Journal of the American Chemical Society</i> , 2018, 140, 6146-6155.	13.7	181
20	Mechanism unravelling for ultrafast and selective $^{99}\text{TcO}_4^-$ uptake by a radiation-resistant cationic covalent organic framework: a combined radiological experiment and molecular dynamics simulation study. <i>Chemical Science</i> , 2019, 10, 4293-4305.	7.4	181
21	Successful Decontamination of $^{99}\text{TcO}_4^-$ in Groundwater at Legacy Nuclear Sites by a Cationic Metal-Organic Framework with Hydrophobic Pockets. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4968-4972.	13.8	177
22	Fabrication of a phosphorylated graphene oxide-chitosan composite for highly effective and selective capture of $\text{U}(\text{VI})$ . <i>Environmental Science: Nano</i> , 2017, 4, 1876-1886.	4.3	161
23	Selectivity, Kinetics, and Efficiency of Reversible Anion Exchange with $\text{TcO}_4^-$ in a Supertetrahedral Cationic Framework. <i>Advanced Functional Materials</i> , 2012, 22, 2241-2250.	14.9	141
24	Highly In-Plane Anisotropic 2D $\text{GeAs}_2$ for Polarization-Sensitive Photodetection. <i>Advanced Materials</i> , 2018, 30, e1804541.	21.0	140
25	Covalent Organic Framework Functionalized with 8-Hydroxyquinoline as a Dual-Mode Fluorescent and Colorimetric pH Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 15364-15368.	8.0	136
26	Rare earth separations by selective borate crystallization. <i>Nature Communications</i> , 2017, 8, 14438.	12.8	125
27	Efficient Capture of Perrhenate and Pertechnetate by a Mesoporous Zr Metal-Organic Framework and Examination of Anion Binding Motifs. <i>Chemistry of Materials</i> , 2018, 30, 1277-1284.	6.7	125
28	$^{99}\text{TcO}_4^-$ removal from legacy defense nuclear waste by an alkaline-stable 2D cationic metal organic framework. <i>Nature Communications</i> , 2020, 11, 5571.	12.8	124
29	Employing an Unsaturated $\text{Th}^{4+}$ Site in a Porous Thorium-Organic Framework for Kr/Xe Uptake and Separation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5783-5787.	13.8	122
30	Optimizing radionuclide sequestration in anion nanotraps with record pertechnetate sorption. <i>Nature Communications</i> , 2019, 10, 1646.	12.8	122
31	Distinctive Two-Step Intercalation of $\text{Sr}^{2+}$ into a Coordination Polymer with Record High $^{90}\text{Sr}$ Uptake Capabilities. <i>Chem</i> , 2019, 5, 977-994.	11.7	119
32	A 3,2-Hydroxypyridinone-based Decorporation Agent that Removes Uranium from Bones In Vivo. <i>Nature Communications</i> , 2019, 10, 2570.	12.8	107
33	Separation and Remediation of $^{99}\text{TcO}_4^-$ from Aqueous Solutions. <i>Chemistry of Materials</i> , 2019, 31, 3863-3877.	6.7	106
34	Metal-organic frameworks for radionuclide sequestration from aqueous solution: a brief overview and outlook. <i>Dalton Transactions</i> , 2017, 46, 16381-16386.	3.3	104
35	Polarity and Chirality in Uranyl Borates: Insights into Understanding the Vitrification of Nuclear Waste and the Development of Nonlinear Optical Materials. <i>Chemistry of Materials</i> , 2010, 22, 2155-2163.	6.7	103
36	A supramolecular lanthanide separation approach based on multivalent cooperative enhancement of metal ion selectivity. <i>Nature Communications</i> , 2018, 9, 547.	12.8	102

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37	Synthesis of phytic acid-decorated titanate nanotubes for high efficient and high selective removal of U(VI). <i>Chemical Engineering Journal</i> , 2017, 322, 353-365.	12.7	101
38	Task-Specific Tailored Cationic Polymeric Network with High Base-Resistance for Unprecedented $^{99}\text{TcO}_4^-$ Cleanup from Alkaline Nuclear Waste. <i>ACS Central Science</i> , 2021, 7, 1441-1450.	11.3	101
39	Selenium Sequestration in a Cationic Layered Rare Earth Hydroxide: A Combined Batch Experiments and EXAFS Investigation. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8606-8615.	10.0	98
40	Unique Four-Electron Metal-to-Cage Charge Transfer of Th to a $\text{C}_{82}$ Fullerene Cage: Complete Structural Characterization of $\text{Th}@\text{C}_{82}(\text{8})$ . <i>Journal of the American Chemical Society</i> , 2017, 139, 5110-5116.	13.7	97
41	Differentiating between Trivalent Lanthanides and Actinides. <i>Journal of the American Chemical Society</i> , 2012, 134, 10682-10692.	13.7	96
42	Rational Synthesis of Novel Phosphorylated Chitosan-Carboxymethyl Cellulose Composite for Highly Effective Decontamination of U(VI). <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5393-5403.	6.7	96
43	Ratiometric Monitoring of Thorium Contamination in Natural Water Using a Dual-Emission Luminescent Europium Organic Framework. <i>Environmental Science &amp; Technology</i> , 2019, 53, 332-341.	10.0	90
44	Electron Beam Irradiation as a General Approach for the Rapid Synthesis of Covalent Organic Frameworks under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2020, 142, 9169-9174.	13.7	90
45	Three-Dimensional Polycatenation of a Uranium-Based Metal-Organic Cage: Structural Complexity and Radiation Detection. <i>Journal of the American Chemical Society</i> , 2020, 142, 16218-16222.	13.7	89
46	First Cationic Uranyl-Organic Framework with Anion-Exchange Capabilities. <i>Inorganic Chemistry</i> , 2016, 55, 6358-6360.	4.0	88
47	Direct Radiation Detection by a Semiconductive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 8030-8034.	13.7	85
48	Recent progress in actinide borate chemistry. <i>Chemical Communications</i> , 2011, 47, 10874.	4.1	81
49	Modulated synthesis and isoreticular expansion of Th-MOFs with record high pore volume and surface area for iodine adsorption. <i>Chemical Communications</i> , 2020, 56, 6715-6718.	4.1	81
50	Efficient uptake of perrhenate/pertechnenate from aqueous solutions by the bifunctional anion-exchange resin. <i>Radiochimica Acta</i> , 2018, 106, 581-591.	1.2	74
51	Syntheses, Structures, and Spectroscopic Properties of Plutonium and Americium Phosphites and the Redetermination of the Ionic Radii of Pu(III) and Am(III). <i>Inorganic Chemistry</i> , 2012, 51, 8419-8424.	4.0	72
52	Cu Nanoclusters/ $\text{FeN}_4$ Amorphous Composites with Dual Active Sites in N-Doped Graphene for High-Performance Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31340-31350.	8.0	71
53	Efficient and selective sensing of $\text{Cu}^{2+}$ and $\text{UO}_2^{2+}$ by a europium metal-organic framework. <i>Talanta</i> , 2019, 196, 515-522.	5.5	69
54	Neptunium Diverges Sharply from Uranium and Plutonium in Crystalline Borate Matrixes: Insights into the Complex Behavior of the Early Actinides Relevant to Nuclear Waste Storage. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 1263-1266.	13.8	67

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55	Rational design of a cationic polymer network towards record high uptake of $^{99}\text{TcO}_4^-$ in nuclear waste. <i>Science China Chemistry</i> , 2021, 64, 1251-1260.	8.2	67
56	Transition-metal-bridged bimetallic clusters with multiple uranium-metal bonds. <i>Nature Chemistry</i> , 2019, 11, 248-253.	13.6	66
57	A hydrolytically stable uranyl organic framework for highly sensitive and selective detection of $\text{Fe}^{3+}$ in aqueous media. <i>Dalton Transactions</i> , 2018, 47, 649-653.	3.3	64
58	Dinitrogen Cleavage by a Heterometallic Cluster Featuring Multiple Uranium-Rhodium Bonds. <i>Journal of the American Chemical Society</i> , 2020, 142, 15004-15011.	13.7	64
59	Double dative bond between divalent carbon(0) and uranium. <i>Nature Communications</i> , 2018, 9, 4997.	12.8	63
60	A diuranium carbide cluster stabilized inside a C80 fullerene cage. <i>Nature Communications</i> , 2018, 9, 2753.	12.8	63
61	Persistent Superprotonic Conductivity in the Order of $10^{-1} \text{ S} \cdot \text{cm}^{-1}$ Achieved Through Thermally Induced Structural Transformation of a Uranyl Coordination Polymer. <i>CCS Chemistry</i> , 2019, 1, 197-206.	7.8	63
62	Thermoplastic Membranes Incorporating Semiconductive Metal-Organic Frameworks: An Advance on Flexible X-ray Detectors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11856-11860.	13.8	60
63	Nano-MOF Technique for Efficient Uranyl Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 21619-21626.	8.0	59
64	Color-tunable X-ray scintillation based on a series of isotypic lanthanide-organic frameworks. <i>Chemical Communications</i> , 2020, 56, 233-236.	4.1	58
65	Bonding Changes in Plutonium(III) and Americium(III) Borates. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 8891-8894.	13.8	57
66	Emergence of a Radical-Stabilizing Metal-Organic Framework as a Radio-photoluminescence Dosimeter. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15209-15214.	13.8	56
67	Visible colorimetric dosimetry of UV and ionizing radiations by a dual-module photochromic nanocluster. <i>Nature Communications</i> , 2021, 12, 2798.	12.8	55
68	How are Centrosymmetric and Noncentrosymmetric Structures Achieved in Uranyl Borates?. <i>Inorganic Chemistry</i> , 2010, 49, 2948-2953.	4.0	53
69	Role of Anions and Reaction Conditions in the Preparation of Uranium(VI), Neptunium(VI), and Plutonium(VI) Borates. <i>Inorganic Chemistry</i> , 2011, 50, 2527-2533.	4.0	53
70	Precise recognition of palladium through interlaminar chelation in a covalent organic framework. <i>CheM</i> , 2022, 8, 1442-1459.	11.7	53
71	Superprotonic conduction through one-dimensional ordered alkali metal ion chains in a lanthanide-organic framework. <i>Chemical Communications</i> , 2018, 54, 4429-4432.	4.1	52
72	Highly Sensitive Detection of UV Radiation Using a Uranium Coordination Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 4844-4850.	8.0	52

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73	Structure-Property Relationships in Lithium, Silver, and Cesium Uranyl Borates. <i>Chemistry of Materials</i> , 2010, 22, 5983-5991.	6.7	50
74	Further insights into intermediate- and mixed-valency in neptunium oxoanion compounds: structure and absorption spectroscopy of $K_2[(NpO_2)_3B_{10}O_{16}(OH)_2(NO_3)_2]$ . <i>Chemical Communications</i> , 2010, 46, 3955.	4.1	50
75	Tchnetium-99 MAS NMR Spectroscopy of a Cationic Framework Material that Traps $TcO_4^-$ Ions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5975-5977.	13.8	49
76	Design and synthesis of a chiral uranium-based microporous metal organic framework with high SHG efficiency and sequestration potential for low-valent actinides. <i>Dalton Transactions</i> , 2015, 44, 18810-18814.	3.3	49
77	Unassisted Uranyl Photoreduction and Separation in a Donor-Acceptor Covalent Organic Framework. <i>Chemistry of Materials</i> , 2022, 34, 2771-2778.	6.7	49
78	Cerium(IV), Neptunium(IV), and Plutonium(IV) 1,2-Phenylenediphosphonates: Correlations and Differences between Early Transuranium Elements and Their Proposed Surrogates. <i>Inorganic Chemistry</i> , 2010, 49, 10074-10080.	4.0	48
79	Crystal Chemistry of the Potassium and Rubidium Uranyl Borate Families Derived from Boric Acid Fluxes. <i>Inorganic Chemistry</i> , 2010, 49, 6690-6696.	4.0	48
80	Functionalization of Borate Networks by the Incorporation of Fluoride: Syntheses, Crystal Structures, and Nonlinear Optical Properties of Novel Actinide Fluoroborates. <i>Chemistry of Materials</i> , 2011, 23, 2931-2939.	6.7	48
81	Surprising Coordination for Plutonium in the First Plutonium(III) Borate. <i>Inorganic Chemistry</i> , 2011, 50, 2079-2081.	4.0	47
82	Significantly Dense Two-Dimensional Hydrogen-Bond Network in a Layered Zirconium Phosphate Leading to High Proton Conductivities in Both Water-Assisted Low-Temperature and Anhydrous Intermediate-Temperature Regions. <i>Inorganic Chemistry</i> , 2016, 55, 12508-12511.	4.0	47
83	Deviation Between the Chemistry of Ce(IV) and Pu(IV) and Routes to Ordered and Disordered Heterobimetallic 4f/5f and 5f/5f Phosphonates. <i>Inorganic Chemistry</i> , 2011, 50, 4842-4850.	4.0	46
84	Curium(III) Borate Shows Coordination Environments of Both Plutonium(III) and Americium(III) Borates. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1869-1872.	13.8	46
85	A Porous Aromatic Framework Functionalized with Luminescent Iridium(III) Organometallic Complexes for Turn-On Sensing of $TcO_4^-$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 15288-15297.	8.0	46
86	Thermoplastic Membranes Incorporating Semiconductive Metal-Organic Frameworks: An Advance on Flexible X-ray Detectors. <i>Angewandte Chemie</i> , 2020, 132, 11954-11958.	2.0	46
87	Heavy metal spatial variability and historical changes in the Yangtze River estuary and North Jiangsu tidal flat. <i>Marine Pollution Bulletin</i> , 2015, 98, 115-129.	5.0	43
88	Probing the Influence of Phosphonate Bonding Modes to Uranium(VI) on Structural Topology and Stability: A Complementary Experimental and Computational Investigation. <i>Inorganic Chemistry</i> , 2015, 54, 3864-3874.	4.0	43
89	Periodic Trends in Lanthanide and Actinide Phosphonates: Discontinuity between Plutonium and Americium. <i>Inorganic Chemistry</i> , 2012, 51, 6906-6915.	4.0	42
90	Highly Sensitive Detection of Ionizing Radiations by a Photoluminescent Uranyl Organic Framework. <i>Angewandte Chemie</i> , 2017, 129, 7608-7612.	2.0	42

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91	Facile Dinitrogen and Dioxygen Cleavage by a Uranium(III) Complex: Cooperativity Between the Noninnocent Ligand and the Uranium Center. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 473-479.	13.8	42
92	Periodic Trends in Hexanuclear Actinide Clusters. <i>Inorganic Chemistry</i> , 2012, 51, 4088-4093.	4.0	40
93	3,4-Hydroxypyridinone-modified carbon quantum dot as a highly sensitive and selective fluorescent probe for the rapid detection of uranyl ions. <i>Environmental Science: Nano</i> , 2019, 6, 1457-1465.	4.3	40
94	Diuranium(IV) Carbide Cluster $U_2C_2$ Stabilized Inside Fullerene Cages. <i>Journal of the American Chemical Society</i> , 2019, 141, 20249-20260.	13.7	40
95	Stabilization of Plutonium(V) Within a Crown Ether Inclusion Complex. <i>CCS Chemistry</i> , 2020, 2, 425-431.	7.8	39
96	Centrosymmetric and chiral porous thorium organic frameworks exhibiting uncommon thorium coordination environments. <i>Dalton Transactions</i> , 2015, 44, 20867-20873.	3.3	38
97	Boronic Acid Flux Synthesis and Crystal Growth of Uranium and Neptunium Boronates and Borates: A Low-Temperature Route to the First Neptunium(V) Borate. <i>Inorganic Chemistry</i> , 2010, 49, 9755-9757.	4.0	37
98	Tuning Mixed-Valent $Eu^{2+}/Eu^{3+}$ in Strontium Formate Frameworks for Multichannel Photoluminescence. <i>Chemistry - A European Journal</i> , 2016, 22, 11170-11175.	3.3	37
99	Successful Decontamination of $^{99}TcO_4^-$ in Groundwater at Legacy Nuclear Sites by a Cationic Metal-Organic Framework with Hydrophobic Pockets. <i>Angewandte Chemie</i> , 2019, 131, 5022-5026.	2.0	37
100	Efficient sequestration of radioactive $^{99}TcO_4^-$ by a rare 3-fold interlocking cationic metal-organic framework: A combined batch experiments, pair distribution function, and crystallographic investigation. <i>Chemical Engineering Journal</i> , 2022, 427, 130942.	12.7	37
101	Boosting the Optoelectronic Performance by Regulating Exciton Behaviors in a Porous Semiconductive Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2022, 144, 2189-2196.	13.7	37
102	$(UO_2)_2[UO_4(trz)_2](OH)_2$ : A U(VI) Coordination Intermediate between a Tetraoxido Core and a Uranyl Ion with Cation-Cation Interactions. <i>Inorganic Chemistry</i> , 2012, 51, 7185-7191.	4.0	36
103	Intrinsic Semiconducting Behavior in a Large Mixed-Valent Uranium(V/VI) Cluster. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9886-9890.	13.8	36
104	A Mixed-Valent Uranium Phosphonate Framework Containing U IV, U V, and U VI. <i>Chemistry - A European Journal</i> , 2016, 22, 11954-11957.	3.3	35
105	Phase transition triggered aggregation-induced emission in a photoluminescent uranyl-organic framework. <i>Chemical Communications</i> , 2018, 54, 627-630.	4.1	35
106	Identification of a uranium-rhodium triple bond in a heterometallic cluster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17654-17658.	7.1	35
107	Reaction: Semiconducting MOFs Offer New Strategy for Uranium Extraction from Seawater. <i>CheM</i> , 2021, 7, 279-280.	11.7	35
108	Characterization of a strong covalent $Th_3+Th_3$ bond inside an Ih(7)-C80 fullerene cage. <i>Nature Communications</i> , 2021, 12, 2372.	12.8	34

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109	Comparisons of Pu(IV) and Ce(IV) Diphosphonates. <i>Inorganic Chemistry</i> , 2010, 49, 3337-3342.	4.0	33
110	Surprising coordination for low-valent actinides resembling uranyl( $\text{U}^{VI}$ ) in thorium( $\text{Th}^{IV}$ ) organic hybrid layered and framework structures based on a graphene-like (6,3) sheet topology. <i>Dalton Transactions</i> , 2016, 45, 918-921.	3.3	33
111	Tunable 4f/5f Bimodal Emission in Europium-Incorporated Uranyl Coordination Polymers. <i>Inorganic Chemistry</i> , 2018, 57, 575-582.	4.0	33
112	Ultra-Efficient Americium/Lanthanide Separation through Oxidation State Control. <i>Journal of the American Chemical Society</i> , 2022, 144, 6383-6389.	13.7	33
113	High Structural Complexity of Potassium Uranyl Borates Derived from High-Temperature/High-Pressure Reactions. <i>Inorganic Chemistry</i> , 2013, 52, 5110-5118.	4.0	32
114	Emergence of Uranium as a Distinct Metal Center for Building Intrinsic X-ray Scintillators. <i>Angewandte Chemie</i> , 2018, 130, 8009-8013.	2.0	32
115	Facile and Efficient Decontamination of Thorium from Rare Earths Based on Selective Selenite Crystallization. <i>Inorganic Chemistry</i> , 2018, 57, 1880-1887.	4.0	32
116	Three Mechanisms in One Material: Uranium Capture by a Polyoxometalate-Organic Framework through Combined Complexation, Chemical Reduction, and Photocatalytic Reduction. <i>Angewandte Chemie</i> , 2019, 131, 16256-16260.	2.0	32
117	Determination of trace uranyl ion by thermoresponsive porphyrin-terminated polymeric sensor. <i>Talanta</i> , 2015, 131, 198-204.	5.5	30
118	Significant Proton Conductivity Enhancement through Rapid Water-Induced Structural Transformation from a Cationic Framework to a Water-Rich Neutral Chain. <i>Crystal Growth and Design</i> , 2017, 17, 3847-3853.	3.0	30
119	Preparation of thermochromic selenidostannates in deep eutectic solvents. <i>Chemical Communications</i> , 2018, 54, 4806-4809.	4.1	30
120	Deuterated Covalent Organic Frameworks with Significantly Enhanced Luminescence. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21250-21255.	13.8	30
121	Employing an Unsaturated $\text{Th}^{4+}$ Site in a Porous Thorium-Organic Framework for Kr/Xe Uptake and Separation. <i>Angewandte Chemie</i> , 2018, 130, 5885-5889.	2.0	29
122	<i>In Vivo</i> Uranium Decorporation by a Tailor-Made Hexadentate Ligand. <i>Journal of the American Chemical Society</i> , 2022, 144, 11054-11058.	13.7	28
123	A new chiral uranyl phosphonate framework consisting of achiral building units generated from ionothermal reaction: structure and spectroscopy characterizations. <i>Dalton Transactions</i> , 2015, 44, 18158-18166.	3.3	27
124	Construction of heterometallic clusters with multiple uranium-metal bonds by using dianionic nitrogen-phosphorus ligands. <i>Chemical Science</i> , 2020, 11, 7585-7592.	7.4	27
125	Complex clover cross-sectioned nanotubules exist in the structure of the first uranium borate phosphate. <i>Chemical Communications</i> , 2012, 48, 3479.	4.1	25
126	Photo-exfoliation of a highly photo-responsive two-dimensional metal-organic framework. <i>Chemical Communications</i> , 2019, 55, 11715-11718.	4.1	24



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127	Atypical temperature-dependence of symmetry transformation observed in a uranyl phosphonate. Dalton Transactions, 2016, 45, 9031-9035.	3.3	23
128	Macroscopic and spectral exploration on the removal performance of pristine and phytic acid-decorated titanate nanotubes towards Eu(III). Journal of Molecular Liquids, 2018, 258, 66-73.	4.9	22
129	Introducing Uranium as the Activator toward Highly Stable Narrow-Band Green Emitters with Near-Unity Quantum Efficiency. Chemistry of Materials, 2019, 31, 9684-9690.	6.7	22
130	A uranyl based coordination polymer showing response to low-dosage ionizing radiations down to $10^{-5}$ Gy. Science China Chemistry, 2020, 63, 1608-1612.	8.2	22
131	Electron Beam Irradiation-Induced Formation of Defect-Rich Zeolites under Ambient Condition within Minutes. Angewandte Chemie - International Edition, 2021, 60, 14858-14863.	13.8	22
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