Liyong Yuan

List of Publications by Year
in descending order

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218 papers	10,327 citations	34016 52 h-index	46693 89 g-index
220 all docs	220 docs citations	220 times ranked	5443 citing authors

#	Article	IF	Citations
1	Uranium(VI) adsorption on graphene oxide nanosheets from aqueous solutions. Chemical Engineering Journal, 2012, 210, 539-546.	6.6	402
2	Introduction of amino groups into acid-resistant MOFs for enhanced U(<scp>vi</scp>) sorption. Journal of Materials Chemistry A, 2015, 3, 525-534.	5.2	378
3	Enhanced Photocatalytic Removal of Uranium(VI) from Aqueous Solution by Magnetic TiO₂/Fe₃O₄ and Its Graphene Composite. Environmental Science & Technology, 2017, 51, 5666-5674.	4.6	292
4	MOF-76: from a luminescent probe to highly efficient U^{VI} sorption material. Chemical Communications, 2013, 49, 10415-10417.	2.2	257
5	Efficient U(VI) Reduction and Sequestration by Ti₂CT_x MXene. Environmental Science & Technology, 2018, 52, 10748-10756.	4.6	253
6	Efficient removal of uranium from aqueous solution by zero-valent iron nanoparticle and its graphene composite. Journal of Hazardous Materials, 2015, 290, 26-33.	6.5	231
7	Excellent Selectivity for Actinides with a Tetradentate 2,9-Diamide-1,10-Phenanthroline Ligand in Highly Acidic Solution: A Hardâ€“Soft Donor Combined Strategy. Inorganic Chemistry, 2014, 53, 1712-1720.	1.9	219
8	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. ACS Applied Materials & Interfaces, 2016, 8, 16396-16403.	4.0	214
9	Rational control of the interlayer space inside two-dimensional titanium carbides for highly efficient uranium removal and imprisonment. Chemical Communications, 2017, 53, 12084-12087.	2.2	198
10	U(VI) capture from aqueous solution by highly porous and stable MOFs: UiO-66 and its amine derivative. Journal of Radioanalytical and Nuclear Chemistry, 2016, 307, 269-276.	0.7	176
11	Photocatalytic reduction of uranium(VI) by magnetic ZnFe2O4 under visible light. Applied Catalysis B: Environmental, 2020, 267, 118688.	10.8	170
12	Defect engineering in metalâ€“organic frameworks: a new strategy to develop applicable actinide sorbents. Chemical Communications, 2018, 54, 370-373.	2.2	167
13	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. Journal of Hazardous Materials, 2020, 396, 122731.	6.5	166
14	Effective Removal of Anionic Re(VII) by Surface-Modified Ti₂CT_x MXene Nanocomposites: Implications for Tc(VII) Sequestration. Environmental Science & Technology, 2019, 53, 3739-3747.	4.6	163
15	Extending the Use of Highly Porous and Functionalized MOFs to Th(IV) Capture. ACS Applied Materials & Interfaces, 2017, 9, 25216-25224.	4.0	158
16	High performance of phosphonate-functionalized mesoporous silica for U(vi) sorption from aqueous solution. Dalton Transactions, 2011, 40, 7446.	1.6	152
17	A novel mesoporous material for uranium extraction, dihydroimidazole functionalized SBA-15. Journal of Materials Chemistry, 2012, 22, 17019.	6.7	128
18	Nanolayered Ti₃C₂ and SrTiO₃ Composites for Photocatalytic Reduction and Removal of Uranium(VI). ACS Applied Nano Materials, 2019, 2, 2283-2294.	2.4	119

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19	Recent advances in computational modeling and simulations on the An(III)/Ln(III) separation process. Coordination Chemistry Reviews, 2012, 256, 1406-1417.	9.5	117
20	Adsorption of uranyl species on hydroxylated titanium carbide nanosheet: A first-principles study. Journal of Hazardous Materials, 2016, 308, 402-410.	6.5	115
21	Aryl Diazonium-Assisted Amidoximation of MXene for Boosting Water Stability and Uranyl Sequestration via Electrochemical Sorption. ACS Applied Materials & Interfaces, 2020, 12, 15579-15587.	4.0	115
22	Introduction of Bifunctional Groups into Mesoporous Silica for Enhancing Uptake of Thorium(IV) from Aqueous Solution. ACS Applied Materials & Interfaces, 2014, 6, 4786-4796.	4.0	113
23	Theoretical Insights on the Interaction of Uranium with Amidoxime and Carboxyl Groups. Inorganic Chemistry, 2014, 53, 9466-9476.	1.9	103
24	Radiation Controllable Synthesis of Robust Covalent Organic Framework Conjugates for Efficient Dynamic Column Extraction of 99TcO4â^'. CheM, 2020, 6, 2796-2809.	5.8	103
25	Trivalent Actinide and Lanthanide Separations by Tetradentate Nitrogen Ligands: A Quantum Chemistry Study. Inorganic Chemistry, 2011, 50, 9230-9237.	1.9	96
26	Understanding the Bonding Nature of Uranyl Ion and Functionalized Graphene: A Theoretical Study. Journal of Physical Chemistry A, 2014, 118, 2149-2158.	1.1	96
27	Simultaneous elimination of cationic uranium(<scp>vi</scp>) and anionic rhenium(<scp>vii</scp>) by graphene oxideâ€"poly(ethyleneimine) macrostructures: a batch, XPS, EXAFS, and DFT combined study. Environmental Science: Nano, 2018, 5, 2077-2087.	2.2	95
28	Highly efficient adsorption and immobilization of U(VI) from aqueous solution by alkalized MXene-supported nanoscale zero-valent iron. Journal of Hazardous Materials, 2021, 408, 124949.	6.5	95
29	A high efficient sorption of U(VI) from aqueous solution using amino-functionalized SBA-15. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 803-810.	0.7	92
30	Sorption of Eu(III) on MXene-derived titanate structures: The effect of nano-confined space. Chemical Engineering Journal, 2019, 370, 1200-1209.	6.6	91
31	Exploring Actinide Materials Through Synchrotron Radiation Techniques. Advanced Materials, 2014, 26, 7807-7848.	11.1	89
32	Anion-adaptive crystalline cationic material for 99TcO4â^' trapping. Nature Communications, 2019, 10, 1532.	5.8	87
33	Theoretical insights into the uranyl adsorption behavior on vanadium carbide MXene. Applied Surface Science, 2017, 426, 572-578.	3.1	83
34	Efficient removal of caesium ions from aqueous solution using a calix crown ether in ionic liquids: mechanism and radiation effect. Dalton Transactions, 2010, 39, 3897.	1.6	79
35	Evaluation of the Electroextractions of Ce and Nd from LiCl-KCl Molten Salt Using Liquid Ga Electrode. Journal of the Electrochemical Society, 2017, 164, D169-D178.	1.3	76
36	Carboxylated UiO-66 Tailored for U(VI) and Eu(III) Trapping: From Batch Adsorption to Dynamic Column Separation. ACS Applied Materials & Interfaces, 2021, 13, 16300-16308.	4.0	74

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37	Mesoporous silica SBA-15 functionalized with phosphonate and amino groups for uranium uptake. Science China Chemistry, 2012, 55, 1705-1711.	4.2	73
38	Density Functional Theory Studies of UO₂²⁺ and NpO₂⁺ Complexes with Carbamoylmethylphosphine Oxide Ligands. Inorganic Chemistry, 2013, 52, 196-203.	1.9	73
39	Theoretical Investigation on Multiple Bonds in Terminal Actinide Nitride Complexes. Inorganic Chemistry, 2014, 53, 9607-9614.	1.9	73
40	Density functional theory investigations of the trivalent lanthanide and actinide extraction complexes with diglycolamides. Dalton Transactions, 2014, 43, 8713.	1.6	72
41	Large-Pore 3D Cubic Mesoporous (KIT-6) Hybrid Bearing a Hardâ€“Soft Donor Combined Ligand for Enhancing U(VI) Capture: An Experimental and Theoretical Investigation. ACS Applied Materials & Interfaces, 2017, 9, 3774-3784.	4.0	70
42	Theoretically unraveling the separation of Am(<scp>iii</scp>)/Eu(<scp>iii</scp>): insights from mixed N,O-donor ligands with variations of central heterocyclic moieties. Physical Chemistry Chemical Physics, 2017, 19, 26969-26979.	1.3	69
43	Electrochemical extraction of samarium from LiCl-KCl melt by forming Sm-Zn alloys. Electrochimica Acta, 2014, 120, 369-378.	2.6	67
44	Electrochemical Properties of Uranium on the Liquid Gallium Electrode in LiCl-KCl Eutectic. Journal of the Electrochemical Society, 2016, 163, D554-D561.	1.3	65
45	Photocatalytic reduction of uranium(VI) under visible light with 2D/1D Ti3C2/CdS. Chemical Engineering Journal, 2021, 420, 129831.	6.6	64
46	Radiation Effects on Hydrophobic Ionic Liquid [C₄mim][NTf₂] during Extraction of Strontium Ions. Journal of Physical Chemistry B, 2009, 113, 8948-8952.	1.2	63
47	Europium, uranyl, and thorium-phenanthroline amide complexes in acetonitrile solution: an ESI-MS and DFT combined investigation. Dalton Transactions, 2015, 44, 14376-14387.	1.6	63
48	Electrochemical behaviors of Dy(III) and its co-reduction with Al(III) in molten LiCl-KCl salts. Electrochimica Acta, 2014, 147, 87-95.	2.6	62
49	Quantum Chemistry Study of Uranium(VI), Neptunium(V), and Plutonium(IV,VI) Complexes with Preorganized Tetradentate Phenanthrolineamide Ligands. Inorganic Chemistry, 2014, 53, 10846-10853.	1.9	61
50	Highly selective extraction of Pu (IV) and Am (III) by N,Nâ€²-diethyl-N,Nâ€²-ditolyl-2,9-diamide-1,10-phenanthroline ligand: An experimental and theoretical study. Separation and Purification Technology, 2019, 223, 274-281.	3.9	59
51	Understanding the Interactions of Neptunium and Plutonium Ions with Graphene Oxide: Scalar-Relativistic DFT Investigations. Journal of Physical Chemistry A, 2014, 118, 10273-10280.	1.1	57
52	Interactions between Th(<scp>iv</scp>) and graphene oxide: experimental and density functional theoretical investigations. RSC Advances, 2014, 4, 3340-3347.	1.7	56
53	Actinide Separation Inspired by Self-Assembled Metalâ€“Polyphenolic Nanocages. Journal of the American Chemical Society, 2020, 142, 16538-16545.	6.6	56
54	Influence of Î³-radiation on the ionic liquid [C4mim][PF6] during extraction of strontium ions. Dalton Transactions, 2008, , 6358.	1.6	52

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55	A new solvent system containing N,Nâ€²-diethyl-N,Nâ€²-ditolyl-2,9-diamide-1,10-phenanthroline in 1-(trifluoromethyl)-3-nitrobenzene for highly selective UO 2 2+ extraction. Separation and Purification Technology, 2016, 168, 232-237.	3.9	52
56	Electroextraction of gadolinium from Gd2O3 in LiClâ€“KClâ€“AlCl3 molten salts. Electrochimica Acta, 2013, 109, 732-740.	2.6	51
57	Adsorption of Eu(III) and Th(IV) on three-dimensional graphene-based macrostructure studied by spectroscopic investigation. Environmental Pollution, 2019, 248, 82-89.	3.7	51
58	The first case of an actinide polyrotaxane incorporating cucurbituril: a unique â€˜dragon-likeâ€™ twist induced by a specific coordination pattern of uranium. Chemical Communications, 2014, 50, 3612-3615.	2.2	50
59	Complexation Behavior of Eu(III) and Am(III) with CMPO and Ph₂CMPO Ligands: Insights from Density Functional Theory. Inorganic Chemistry, 2013, 52, 10904-10911.	1.9	48
60	Solvent extraction of U(VI) by trioctylphosphine oxide using a room-temperature ionic liquid. Science China Chemistry, 2014, 57, 1432-1438.	4.2	48
61	Theoretical Insights into Preorganized Pyridylpyrazole-Based Ligands toward the Separation of Am(III)/Eu(III). Inorganic Chemistry, 2018, 57, 14810-14820.	1.9	48
62	Theoretical Insights into the Selective Extraction of Americium(III) over Europium(III) with Dithioamide-Based Ligands. Inorganic Chemistry, 2019, 58, 10047-10056.	1.9	48
63	Rational Construction of Porous Metalâ€“Organic Frameworks for Uranium(VI) Extraction: The Strong Periodic Tendency with a Metal Node. ACS Applied Materials & Interfaces, 2020, 12, 14087-14094.	4.0	48
64	Thermodynamic Study on the Complexation of Am(III) and Eu(III) with Tetradentate Nitrogen Ligands: A Probe of Complex Species and Reactions in Aqueous Solution. Journal of Physical Chemistry A, 2012, 116, 504-511.	1.1	46
65	New insights into the selectivity of four 1,10-phenanthroline-derived ligands toward the separation of trivalent actinides and lanthanides: a DFT based comparison study. Dalton Transactions, 2016, 45, 8107-8117.	1.6	46
66	Electrochemical behavior of La(III) on the zinc-coated W electrode in LiCl-KCl eutectic. Electrochimica Acta, 2015, 168, 206-215.	2.6	45
67	Supramolecular inclusion-based molecular integral rigidity: a feasible strategy for controlling the structural connectivity of uranyl polyrotaxane networks. Chemical Communications, 2015, 51, 11990-11993.	2.2	44
68	Silver Ion-Mediated Heterometallic Three-Fold Interpenetrating Uranylâ€“Organic Framework. Inorganic Chemistry, 2015, 54, 10934-10945.	1.9	44
69	Electrochemical and thermodynamic properties of Nd (III)/Nd (0) couple at liquid Zn electrode in LiCl-KCl melt. Electrochimica Acta, 2016, 191, 1026-1036.	2.6	44
70	Layered structure-based materials: challenges and opportunities for radionuclide sequestration. Environmental Science: Nano, 2020, 7, 724-752.	2.2	44
71	Probing the Influence of Phosphonate Bonding Modes to Uranium(VI) on Structural Topology and Stability: A Complementary Experimental and Computational Investigation. Inorganic Chemistry, 2015, 54, 3864-3874.	1.9	43
72	Electrochemical Extraction of Cerium by Forming Ce-Zn Alloys in LiCl-KCl Eutectic on W and Liquid Zn Electrodes. Journal of the Electrochemical Society, 2015, 162, E179-E184.	1.3	43

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73	Nanomaterials and nanotechnologies in nuclear energy chemistry. Radiochimica Acta, 2012, 100, 727-736.	0.5	42
74	Identification of the radiolytic product of hydrophobic ionic liquid [C4mim][NTf2] during removal of Sr2+ from aqueous solution. Dalton Transactions, 2009, , 7873.	1.6	41
75	Coordination of Eu(III) with 1,10-Phenanthroline-2,9-dicarboxamide Derivatives: A Combined Study by MS, TRLIF, and DFT. Inorganic Chemistry, 2019, 58, 10239-10247.	1.9	41
76	Direct separation of uranium from lanthanides (La, Nd, Ce, Sm) in oxide mixture in LiCl-KCl eutectic melt. Electrochimica Acta, 2018, 275, 100-109.	2.6	39
77	A mixed-ligand strategy regulates thorium-based MOFs. Dalton Transactions, 2020, 49, 983-987.	1.6	39
78	Radiation-induced darkening of ionic liquid [C4mim][NTf2] and its decoloration. Radiation Physics and Chemistry, 2009, 78, 1133-1136.	1.4	38
79	A facile additive-free method for tunable fabrication of UO2 and U3O8 nanoparticles in aqueous solution. CrystEngComm, 2014, 16, 2645.	1.3	38
80	Terminal Uâ‰¡E (E = N, P, As, Sb, and Bi) Bonds in Uranium Complexes: A Theoretical Perspective. Journal of Physical Chemistry A, 2015, 119, 922-930.	1.1	38
81	Ordered Entanglement in Actinide-Organic Coordination Polymers. Bulletin of the Chemical Society of Japan, 2018, 91, 554-562.	2.0	38
82	First-principles study of water adsorption and dissociation on the UO2 (1 1 1), (1 1 0) and (1 0 0) surfaces. Journal of Nuclear Materials, 2014, 454, 446-454.	1.3	36
83	In-situ anodic precipitation process for highly efficient separation of aluminum alloys. Nature Communications, 2021, 12, 5777.	5.8	36
84	Electroextraction of samarium from Sm2O3 in chloride melts. Electrochimica Acta, 2014, 129, 401-409.	2.6	35
85	A Quasi-relativistic Density Functional Theory Study of the Actinyl(VI, V) (An = U, Np, Pu) Complexes with a Six-Membered Macrocycle Containing Pyrrole, Pyridine, and Furan Subunits. Journal of Physical Chemistry A, 2015, 119, 9178-9188.	1.1	35
86	Visibleâ€Lightâ€Enabled Cå^'H Functionalization by a Direct Hydrogen Atom Transfer Uranyl Photocatalyst. Chemistry - A European Journal, 2020, 26, 16521-16529.	1.7	35
87	Theoretical insights into the separation of Am(<scp>iii</scp>) over Eu(<scp>iii</scp>) with PhenBHPPA. Dalton Transactions, 2015, 44, 16737-16745.	1.6	34
88	Hydrophilic Sulfonated 2,9-Diamide-1,10-phenanthroline Endowed with a Highly Effective Ligand for Separation of Americium(III) from Europium(III): Extraction, Spectroscopy, and Density Functional Theory Calculations. Inorganic Chemistry, 2021, 60, 357-365.	1.9	34
89	Porous Cationic Electrospun Fibers with Sufficient Adsorption Sites for Effective and Continuous ⁹⁹TcO₄^{â^'} Uptake. Advanced Functional Materials, 2022, 32, .	7.8	34
90	Electroseparation of thorium from ThO2 and La2O3 by forming Th-Al alloys in LiCl-KCl eutectic. Electrochimica Acta, 2015, 158, 277-286.	2.6	33

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91	Supramolecular Hostâ€“Guest Inclusion for Distinguishing Cucurbit[7]urilâ€Based Pseudorotaxanes from Smallâ€Molecule Ligands in Coordination Assembly with a Uranyl Center. Chemistry - A European Journal, 2017, 23, 13995-14003.	1.7	33
92	Towards understanding the correlation between UO22+ extraction and substitute groups in 2,9-diamide-1,10-phenanthroline. Science China Chemistry, 2018, 61, 1285-1292.	4.2	33
93	Theoretical insights into selective separation of trivalent actinide and lanthanide by ester and amide ligands based on phenanthroline skeleton. Dalton Transactions, 2020, 49, 4093-4099.	1.6	33
94	Electrochemical extraction of cerium from CeO2 assisted by AlCl3 in molten LiCl-KCl. Electrochimica Acta, 2014, 147, 385-391.	2.6	32
95	Insight into the Extraction Mechanism of Americium(III) over Europium(III) with Pyridylpyrazole: A Relativistic Quantum Chemistry Study. Journal of Physical Chemistry A, 2018, 122, 4499-4507.	1.1	32
96	Efficient Photocatalytic Reduction of Aqueous Perrhenate and Pertechnetate. Environmental Science & Technology, 2019, 53, 10917-10925.	4.6	32
97	Influence of Î³-radiation on room-temperature ionic liquid [bmim][PF6] in the presence of nitric acid. Radiation Physics and Chemistry, 2009, 78, 737-739.	1.4	31
98	Identification of radiolytic products of [C4mim][NTf2] and their effects on the Sr2+ extraction. Dalton Transactions, 2013, 42, 4299.	1.6	31
99	Size-tunable synthesis of monodisperse thorium dioxide nanoparticles and their performance on the adsorption of dye molecules. CrystEngComm, 2014, 16, 10469-10475.	1.3	31
100	Electrochemical formation of erbium-aluminum alloys from erbia in the chloride melts. Electrochimica Acta, 2014, 116, 434-441.	2.6	31
101	Theoretical studies on the AnO₂ⁿ⁺ (An = U, Np; n = 1, 2) complexes with di-(2-ethylhexyl)phosphoric acid. Dalton Transactions, 2015, 44, 3227-3236.	1.6	31
102	Co-reduction behaviors of lanthanum and aluminium ions in LiCl-KCl eutectic. Electrochimica Acta, 2014, 147, 104-113.	2.6	30
103	Extraction of thorium from LiClâ€“KCl molten salts by forming Alâ€“Th alloys: a new pyrochemical method for the reprocessing of thorium-based spent fuels. RSC Advances, 2013, 3, 23539.	1.7	29
104	Thermodynamic and electrochemical properties of holmium and HoxAly intermetallic compounds in the LiCl-KCl eutectic. Electrochimica Acta, 2015, 174, 15-25.	2.6	29
105	Electrochemical Properties of Lanthanum on the Liquid Gallium Electrode in LiCl-KCl Eutectic. Journal of the Electrochemical Society, 2016, 163, D750-D756.	1.3	29
106	Releasing Metal-Coordination Capacity of Cucurbit[6]uril Macrocycle in Pseudorotaxane Ligands for the Construction of Interwoven Uranylâ€“Rotaxane Coordination Polymers. Inorganic Chemistry, 2018, 57, 13513-13523.	1.9	29
107	Electrochemical separation of Th from ThO2 and Eu2O3 assisted by AlCl3 in molten LiClâ€“KCl. Electrochimica Acta, 2013, 114, 180-188.	2.6	28
108	Theoretical Prediction of the Potential Applications of Phenanthroline Derivatives in Separation of Transplutonium Elements. Inorganic Chemistry, 2020, 59, 11469-11480.	1.9	28

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109	Strong Periodic Tendency of Trivalent Lanthanides Coordinated with a Phenanthroline-Based Ligand: Cascade Countercurrent Extraction, Spectroscopy, and Crystallography. Inorganic Chemistry, 2021, 60, 9745-9756.	1.9	28
110	Tetranuclear Uranyl Polyrotaxanes: Preferred Selectivity toward Uranyl Tetramer for Stabilizing a Flexible Polyrotaxane Chain Exhibiting Weakened Supramolecular Inclusion. Chemistry - A European Journal, 2015, 21, 10226-10235.	1.7	27
111	Diffusion Coefficient of Ho3+at Liquid zinc Electrode and Co-reduction Behaviors of Ho3+ and Zn2+ on W Electrode in the LiCl-KCl Eutectic. Electrochimica Acta, 2016, 211, 313-321.	2.6	27
112	Uranyl Compounds Involving a Weakly Bonded Pseudorotaxane Linker: Combined Effect of pH and Competing Ligands on Uranyl Coordination and Speciation. Inorganic Chemistry, 2019, 58, 3271-3282.	1.9	27
113	Superhydrophobic Phosphonium Modified Robust 3D Covalent Organic Framework for Preferential Trapping of Charge Dispersed Oxoanionic Pollutants. Advanced Functional Materials, 2022, 32, .	7.8	27
114	Electrochemical reactions of the Th4+/Th couple on the tungsten, aluminum and bismuth electrodes in chloride molten salt. Electrochimica Acta, 2014, 130, 650-659.	2.6	26
115	Electroreduction of Gd3+on W and Zn Electrodes in LiClâ€“KCl Eutectic: A Comparison Study. Journal of the Electrochemical Society, 2015, 162, D531-D539.	1.3	25
116	Mixed-Ligand Uranyl Polyrotaxanes Incorporating a Sulfate/Oxalate Coligand: Achieving Structural Diversity via pH-Dependent Competitive Effect. Inorganic Chemistry, 2017, 56, 3227-3237.	1.9	25
117	Co-reduction behaviors of Ce (III), Al (III) and Ga (III) on a W electrode: An exploration for liquid binary Al-Ga cathode. Electrochimica Acta, 2019, 319, 869-877.	2.6	25
118	Theoretical Study on Unsupported Uraniumâ€“Metal Bonding in Uraniumâ€“Group 8 Complexes. Organometallics, 2018, 37, 3678-3686.	1.1	24
119	Towards understanding the color change of 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide during gamma irradiation: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2014, 16, 18729-18735.	1.3	23
120	Copper/Zinc-Directed Heterometallic Uranyl-Organic Polycatenating Frameworks: Synthesis, Characterization, and Anion-Dependent Structural Regulation. Inorganic Chemistry, 2016, 55, 10125-10134.	1.9	23
121	Theoretical studies on the synergistic extraction of Am³⁺ and Eu³⁺ with CMPOâ€“HDEHP and CMPOâ€“HEH[EHP] systems. Dalton Transactions, 2018, 47, 5474-5482.	1.6	23
122	Application of Binary Gaâ€“Al Alloy Cathode in U Separation from Ce: The Possibility in Pyroprocessing of Spent Nuclear Fuel. Electrochimica Acta, 2020, 353, 136449.	2.6	23
123	Theoretical Insights into Modification of Nitrogen-Donor Ligands to Improve Performance on Am(III)/Eu(III) Separation. Inorganic Chemistry, 2020, 59, 3221-3231.	1.9	23
124	First principles modeling of zirconium solution in bulk UO2. Journal of Applied Physics, 2013, 113, .	1.1	22
125	Way to Enforce Selectivity via Steric Hindrance: Improvement of Am(III)/Eu(III) Solvent Extraction by Loaded Diphosphonic Acid Esters. Inorganic Chemistry, 2021, 60, 14563-14581.	1.9	22
126	First-principles DFT+U modeling of defect behaviors in anti-ferromagnetic uranium mononitride. Journal of Applied Physics, 2013, 114, .	1.1	21

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127	Solvent extraction of uranium(VI) by aÂdipicolinamide using aÂroom-temperature ionic liquid. Radiochimica Acta, 2014, 102, 87-92.	0.5	21
128	A neptunium(<scp>v</scp>)-mediated interwoven transuranium-rotaxane network incorporating a mechanically interlocked [c2]daisy chain unit. Chemical Communications, 2018, 54, 8645-8648.	2.2	21
129	Selective Separation of Am(III)/Eu(III) by the QL-DAPhen Ligand under High Acidity: Extraction, Spectroscopy, and Theoretical Calculations. Inorganic Chemistry, 2021, 60, 19110-19119.	1.9	21
130	Templateâ€Free Synthesis and Mechanistic Study of Porous Threeâ€Dimensional Hierarchical Uraniumâ€Containing and Uranium Oxide Microspheres. Chemistry - A European Journal, 2014, 20, 12655-12662.	1.7	20
131	New Insight of Coordination and Extraction of Uranium(VI) with N-Donating Ligands in Room Temperature Ionic Liquids: N,Nâ€²-Diethyl-N,Nâ€²-ditolyldipicolinamide as a Case Study. Inorganic Chemistry, 2015, 54, 1992-1999.	1.9	20
132	Easily prepared and stable functionalized magnetic ordered mesoporous silica for efficient uranium extraction. Science China Chemistry, 2016, 59, 629-636.	4.2	20
133	Electrochemical behavior of praseodymium on the W and Alâ€“Zn electrodes in LiClâ€“KCl eutectic: A comparison study. Electrochimica Acta, 2019, 326, 134971.	2.6	20
134	A new family of actinide sorbents with more open porous structure: Fibrous functionalized silica microspheres. Chemical Engineering Journal, 2020, 385, 123892.	6.6	20
135	Synthesis of ThO₂nanostructures through a hydrothermal approach: influence of hexamethylenetetramine (HMTA) and sodium dodecyl sulfate (SDS). RSC Advances, 2014, 4, 52209-52214.	1.7	19
136	Raman and Electrochemical Study of Zirconium in LiCl-KCl-LiF-ZrCl₄. Journal of the Electrochemical Society, 2018, 165, D6-D12.	1.3	19
137	A particularly simple NH4Cl-based method for the dissolution of UO2 and rare earth oxides in LiCl-KCl melt under air atmosphere. Journal of Nuclear Materials, 2018, 508, 63-73.	1.3	19
138	Confirmation and elimination of cyclic electrolysis of uranium ions in molten salts. Electrochemistry Communications, 2019, 103, 55-60.	2.3	19
139	In situnitroso formation induced structural diversity of uranyl coordination polymers. Inorganic Chemistry Frontiers, 2019, 6, 775-785.	3.0	19
140	Robust covalent organic frameworks with tailor-made chelating sites for synergistic capture of U(<scp>vi</scp>) ions from highly acidic radioactive waste. Dalton Transactions, 2021, 50, 3792-3796.	1.6	19
141	Electroseparation of uranium from lanthanides (La, Ce, Pr, Nd and Sm) on liquid gallium electrode. Separation and Purification Technology, 2021, 265, 118524.	3.9	19
142	Selective separation of Am(III) from Eu(III) by 2,9-Bis(dialkyl-1,2,4-triazin-3-yl)-1,10-phenanthrolines: a relativistic quantum chemistry study. Radiochimica Acta, 2014, 102, 875-886.	0.5	18
143	Interactions between uranium(<scp>vi</scp>) and phosphopeptide: experimental and theoretical investigations. Dalton Transactions, 2016, 45, 14988-14997.	1.6	18
144	Complexation of trivalent lanthanides and actinides with diethylenetriaminepentaacetic acid: Theoretical unraveling of bond covalency. Journal of Molecular Liquids, 2020, 299, 112174.	2.3	18

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