Wei-Qun Shi

List of Publications by Citations

319 papers	9,319 citations	49 h-index	81 g-index
359 ext. papers	11,504 ext. citations	5.7 avg, IF	6.49 L-index

#	Paper	IF	Citations
319	Uranium(VI) adsorption on graphene oxide nanosheets from aqueous solutions. *Chemical Engineering Journal*, **2012**, 210, 539-546	14.7	343
318	Introduction of amino groups into acid-resistant MOFs for enhanced U(VI) sorption. *Journal of Materials Chemistry A*, **2015**, 3, 525-534	13	293
317	Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. *ACS Nano*, **2017**, 11, 3841-3850	16.7	229
316	MOF-76: from a luminescent probe to highly efficient U(VI) sorption material. *Chemical Communications*, **2013**, 49, 10415-7	5.8	214
315	Enhanced Photocatalytic Removal of Uranium(VI) from Aqueous Solution by Magnetic TiO/FeO and Its Graphene Composite. *Environmental Science & Technology*, **2017**, 51, 5666-5674	10.3	211
314	Efficient removal of uranium from aqueous solution by zero-valent iron nanoparticle and its graphene composite. *Journal of Hazardous Materials*, **2015**, 290, 26-33	12.8	193
313	Synthesis of novel nanomaterials and their application in efficient removal of radionuclides. *Science China Chemistry*, **2019**, 62, 933-967	7.9	186
312	Interaction mechanism of uranium(VI) with three-dimensional graphene oxide-chitosan composite: Insights from batch experiments, IR, XPS, and EXAFS spectroscopy. *Chemical Engineering Journal*, **2017**, 328, 1066-1074	14.7	176
311	Excellent selectivity for actinides with a tetradentate 2,9-diamide-1,10-phenanthroline ligand in highly acidic solution: a hard-soft donor combined strategy. *Inorganic Chemistry*, **2014**, 53, 1712-20	5.1	151
310	Efficient U(VI) Reduction and Sequestration by TiCT MXene. *Environmental Science & Technology*, **2018**, 52, 10748-10756	10.3	147
309	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, 16396-403	9.5	138
308	High performance of phosphonate-functionalized mesoporous silica for U(VI) sorption from aqueous solution. *Dalton Transactions*, **2011**, 40, 7446-53	4.3	138
307	Rational control of the interlayer space inside two-dimensional titanium carbides for highly efficient uranium removal and imprisonment. *Chemical Communications*, **2017**, 53, 12084-12087	5.8	132
306	Impact of Al2O3 on the aggregation and deposition of graphene oxide. *Environmental Science & Technology*, **2014**, 48, 5493-500	10.3	131
305	Defect engineering in metal-organic frameworks: a new strategy to develop applicable actinide sorbents. *Chemical Communications*, **2018**, 54, 370-373	5.8	131
304	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	1.5	129
303	A novel mesoporous material for uranium extraction, dihydroimidazole functionalized SBA-15. *Journal of Materials Chemistry*, **2012**, 22, 17019		116

302	Extending the Use of Highly Porous and Functionalized MOFs to Th(IV) Capture. *ACS Applied Materials & Interfaces*, **2017**, 9, 25216-25224	9.5	113
301	Different Interaction Mechanisms of Eu(III) and (243)Am(III) with Carbon Nanotubes Studied by Batch, Spectroscopy Technique and Theoretical Calculation. *Environmental Science & Technology*, **2015**, 49, 11721-8	10.3	101
300	Recent advances in computational modeling and simulations on the An(III)/Ln(III) separation process. *Coordination Chemistry Reviews*, **2012**, 256, 1406-1417	23.2	98
299	Effective Removal of Anionic Re(VII) by Surface-Modified TiCT MXene Nanocomposites: Implications for Tc(VII) Sequestration. *Environmental Science & Technology*, **2019**, 53, 3739-3747	10.3	94
298	Efficient thorium(IV) removal by two-dimensional Ti2CTx MXene from aqueous solution. *Chemical Engineering Journal*, **2019**, 366, 192-199	14.7	91
297	Introduction of bifunctional groups into mesoporous silica for enhancing uptake of thorium(IV) from aqueous solution. *ACS Applied Materials & Interfaces*, **2014**, 6, 4786-96	9.5	87
296	Photocatalytic reduction of uranium(VI) by magnetic ZnFe2O4 under visible light. *Applied Catalysis B: Environmental*, **2020**, 267, 118688	21.8	85
295	Adsorption of uranyl species on hydroxylated titanium carbide nanosheet: A first-principles study. *Journal of Hazardous Materials*, **2016**, 308, 402-10	12.8	84
294	Trivalent actinide and lanthanide separations by tetradentate nitrogen ligands: a quantum chemistry study. *Inorganic Chemistry*, **2011**, 50, 9230-7	5.1	81
293	Understanding the bonding nature of uranyl ion and functionalized graphene: a theoretical study. *Journal of Physical Chemistry A*, **2014**, 118, 2149-58	2.8	78
292	Exploring actinide materials through synchrotron radiation techniques. *Advanced Materials*, **2014**, 26, 7807-48	24	77
291	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. *Journal of Hazardous Materials*, **2020**, 396, 122731	12.8	75
290	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	1.5	74
289	Theoretical insights on the interaction of uranium with amidoxime and carboxyl groups. *Inorganic Chemistry*, **2014**, 53, 9466-76	5.1	73
288	New Insight into GO, Cadmium(II), Phosphate Interaction and Its Role in GO Colloidal Behavior. *Environmental Science & Technology*, **2016**, 50, 9361-9	10.3	73
287	Simultaneous elimination of cationic uranium(VI) and anionic rhenium(VII) by graphene oxide–poly(ethyleneimine) macrostructures: a batch, XPS, EXAFS, and DFT combined study. *Environmental Science: Nano*, **2018**, 5, 2077-2087	7.1	72
286	Nanolayered Ti3C2 and SrTiO3 Composites for Photocatalytic Reduction and Removal of Uranium(VI). *ACS Applied Nano Materials*, **2019**, 2, 2283-2294	5.6	69
285	Density functional theory investigations of the trivalent lanthanide and actinide extraction complexes with diglycolamides. *Dalton Transactions*, **2014**, 43, 8713-20	4.3	63

284	Density functional theory studies of UO2(2+) and NpO2(+) complexes with carbamoylmethylphosphine oxide ligands. *Inorganic Chemistry*, **2013**, 52, 196-203	5.1	63
283	Mesoporous silica SBA-15 functionalized with phosphonate and amino groups for uranium uptake. *Science China Chemistry*, **2012**, 55, 1705-1711	7.9	63
282	Theoretical insights into the uranyl adsorption behavior on vanadium carbide MXene. *Applied Surface Science*, **2017**, 426, 572-578	6.7	57
281	Large-Pore 3D Cubic Mesoporous (KIT-6) Hybrid Bearing a Hard-Soft Donor Combined Ligand for Enhancing U(VI) Capture: An Experimental and Theoretical Investigation. *ACS Applied Materials & Interfaces*, **2017**, 9, 3774-3784	9.5	55
280	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	3.9	54
279	Sorption of Eu(III) on MXene-derived titanate structures: The effect of nano-confined space. *Chemical Engineering Journal*, **2019**, 370, 1200-1209	14.7	54
278	Interactions between Th(IV) and graphene oxide: experimental and density functional theoretical investigations. *RSC Advances*, **2014**, 4, 3340-3347	3.7	53
277	Electrochemical Properties of Uranium on the Liquid Gallium Electrode in LiCl-KCl Eutectic. *Journal of the Electrochemical Society*, **2016**, 163, D554-D561	3.9	52
276	Induced-polarization detection and mapping of contaminant plumes. *Geophysics*, **2006**, 71, B75-B84	3.1	52
275	Electrochemical extraction of samarium from LiCl-KCl melt by forming Sm-Zn alloys. *Electrochimica Acta*, **2014**, 120, 369-378	6.7	51
274	Anion-adaptive crystalline cationic material for TcO trapping. *Nature Communications*, **2019**, 10, 1532	17.4	50
273	Understanding the interactions of neptunium and plutonium ions with graphene oxide: scalar-relativistic DFT investigations. *Journal of Physical Chemistry A*, **2014**, 118, 10273-80	2.8	49
272	Theoretical investigation on multiple bonds in terminal actinide nitride complexes. *Inorganic Chemistry*, **2014**, 53, 9607-14	5.1	49
271	Europium, uranyl, and thorium-phenanthroline amide complexes in acetonitrile solution: an ESI-MS and DFT combined investigation. *Dalton Transactions*, **2015**, 44, 14376-87	4.3	48
270	Novel Viologen Derivative Based Uranyl Coordination Polymers Featuring Photochromic Behaviors. *Chemistry - A European Journal*, **2017**, 23, 18074-18083	4.8	48
269	Quantum chemistry study of uranium(VI), neptunium(V), and plutonium(IV,VI) complexes with preorganized tetradentate phenanthrolineamide ligands. *Inorganic Chemistry*, **2014**, 53, 10846-53	5.1	47
268	Solvent-Dependent Synthesis of Porous Anionic Uranyl-Organic Frameworks Featuring a Highly Symmetrical (3,4)-Connected ctn or bor Topology for Selective Dye Adsorption. *Chemistry - A European Journal*, **2017**, 23, 529-532	4.8	47
267	Combined DFT and XPS investigation of iodine anions adsorption on the sulfur terminated (001) chalcopyrite surface. *Applied Surface Science*, **2016**, 390, 412-421	6.7	46

266	The first case of an actinide polyrotaxane incorporating cucurbituril: a unique dragon-like twist induced by a specific coordination pattern of uranium. *Chemical Communications*, **2014**, 50, 3612-5	5.8	44
265	Theoretically unraveling the separation of Am(iii)/Eu(iii): insights from mixed N,O-donor ligands with variations of central heterocyclic moieties. *Physical Chemistry Chemical Physics*, **2017**, 19, 26969-26979	3.6	44
264	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, 504-11	2.8	43
263	Complexation behavior of Eu(III) and Am(III) with CMPO and Ph2CMPO ligands: insights from density functional theory. *Inorganic Chemistry*, **2013**, 52, 10904-11	5.1	41
262	Supramolecular inclusion-based molecular integral rigidity: a feasible strategy for controlling the structural connectivity of uranyl polyrotaxane networks. *Chemical Communications*, **2015**, 51, 11990-3	5.8	40
261	Silver Ion-Mediated Heterometallic Three-Fold Interpenetrating Uranyl-Organic Framework. *Inorganic Chemistry*, **2015**, 54, 10934-45	5.1	40
260	Aryl Diazonium-Assisted Amidoximation of MXene for Boosting Water Stability and Uranyl Sequestration via Electrochemical Sorption. *ACS Applied Materials & Interfaces*, **2020**, 12, 15579-15587	9.5	40
259	Electrochemical behaviors of Dy(III) and its co-reduction with Al(III) in molten LiCl-KCl salts. *Electrochimica Acta*, **2014**, 147, 87-95	6.7	40
258	Electroextraction of gadolinium from Gd2O3 in LiCl-KCl-AlCl3 molten salts. *Electrochimica Acta*, **2013**, 109, 732-740	6.7	39
257	Nanomaterials and nanotechnologies in nuclear energy chemistry. *Radiochimica Acta*, **2012**, 100, 727-736	1.9	38
256	Electrochemical behavior of La(III) on the zinc-coated W electrode in LiCl-KCl eutectic. *Electrochimica Acta*, **2015**, 168, 206-215	6.7	37
255	The first case of actinide triple helices: pH-dependent structural evolution and kinetically-controlled transformation of two supramolecular conformational isomers. *Chemical Communications*, **2015**, 51, 8978-81	5.8	37
254	A new solvent system containing N,N?-diethyl-N,N?-ditolyl-2,9-diamide-1,10-phenanthroline in 1-(trifluoromethyl)-3-nitrobenzene for highly selective UO22+ extraction. *Separation and Purification Technology*, **2016**, 168, 232-237	8.3	37
253	Heteroaggregation behavior of graphene oxide on Zr-based metal-organic frameworks in aqueous solutions: a combined experimental and theoretical study. *Journal of Materials Chemistry A*, **2017**, 5, 20398-20406	11	37
252	A facile additive-free method for tunable fabrication of UO2 and U3O8 nanoparticles in aqueous solution. *CrystEngComm*, **2014**, 16, 2645	3.3	36
251	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, 8107-17	4.3	36
250	Ordered Entanglement in Actinide-Organic Coordination Polymers. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 554-562	5.1	35
249	Electrochemical and thermodynamic properties of Nd (III)/Nd (0) couple at liquid Zn electrode in LiCl-KCl melt. *Electrochimica Acta*, **2016**, 191, 1026-1036	6.7	35

248	Radiation Controllable Synthesis of Robust Covalent Organic Framework Conjugates for Efficient Dynamic Column Extraction of 99TcO4□ *CheM*, **2020**, 6, 2796-2809	16.2	35
247	Solar-Driven Nitrogen Fixation Catalyzed by Stable Radical-Containing MOFs: Improved Efficiency Induced by a Structural Transformation. *Angewandte Chemie - International Edition*, **2020**, 59, 20666-20671	16.4	35
246	Adsorption of Eu(III) and Th(IV) on three-dimensional graphene-based macrostructure studied by spectroscopic investigation. *Environmental Pollution*, **2019**, 248, 82-89	9.3	34
245	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, 3864-74	5.1	33
244	Actinide (An = Th-Pu) dimetallocenes: promising candidates for metal-metal multiple bonds. *Dalton Transactions*, **2015**, 44, 17045-53	4.3	33
243	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	3.3	33
242	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	12.8	33
241	Exploring New Assembly Modes of Uranyl Terephthalate: Templated Syntheses and Structural Regulation of a Series of Rare 2D -j3D Polycatenated Frameworks. *Inorganic Chemistry*, **2017**, 56, 7694-7706	5.1	32
240	First-Principles Study of Water Reaction and H2 Formation on UO2 (111) and (110) Single Crystal Surfaces. *Journal of Physical Chemistry C*, **2014**, 118, 21935-21944	3.8	32
239	Terminal U?E (E = N, P, As, Sb, and Bi) bonds in uranium complexes: a theoretical perspective. *Journal of Physical Chemistry A*, **2015**, 119, 922-30	2.8	32
238	The templated synthesis of a unique type of tetra-nuclear uranyl-mediated two-fold interpenetrating uranyl-organic framework. *Chemical Communications*, **2016**, 52, 1641-4	5.8	31
237	Solvent extraction of U(VI) by trioctylphosphine oxide using a room-temperature ionic liquid. *Science China Chemistry*, **2014**, 57, 1432-1438	7.9	31
236	Halogen Bonded Three-Dimensional Uranyl□Organic Compounds with Unprecedented Halogen□Halogen Interactions and Structure Diversity upon Variation of Halogen Substitution. *Crystal Growth and Design*, **2015**, 15, 1395-1406	3.5	31
235	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	3.9	29
234	Paving the way for the synthesis of a series of divalent actinide complexes: a theoretical perspective. *Dalton Transactions*, **2016**, 45, 3102-10	4.3	29
233	Highly selective extraction of Pu (IV) and Am (III) by N,N?-diethyl-N,N?-ditolyl-2,9-diamide-1,10-phenanthroline ligand: An experimental and theoretical study. *Separation and Purification Technology*, **2019**, 223, 274-281	8.3	28
232	Electrodeposition of Tb on Mo and Al electrodes: Thermodynamic properties of TbCl3 and TbAl2 in the LiCl-KCl eutectic melts. *Electrochimica Acta*, **2015**, 167, 139-146	6.7	28
231	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, 9178-88	2.8	28

230	Electrochemical and Thermodynamic Properties of Uranium on the Liquid Bismuth Electrode in LiCl-KCl Eutectic. *Journal of the Electrochemical Society*, **2018**, 165, D722-D730	3.9	28
229	Electrochemical Properties of Lanthanum on the Liquid Gallium Electrode in LiCl-KCl Eutectic. *Journal of the Electrochemical Society*, **2016**, 163, D750-D756	3.9	27
228	Electroextraction of samarium from Sm2O3 in chloride melts. *Electrochimica Acta*, **2014**, 129, 401-409	6.7	27
227	Actinide-Based Porphyrinic MOF as a Dehydrogenation Catalyst. *Chemistry - A European Journal*, **2018**, 24, 16766-16769	4.8	27
226	Layered structure-based materials: challenges and opportunities for radionuclide sequestration. *Environmental Science: Nano*, **2020**, 7, 724-752	7.1	26
225	Electrochemical reactions of the Th4+/Th couple on the tungsten, aluminum and bismuth electrodes in chloride molten salt. *Electrochimica Acta*, **2014**, 130, 650-659	6.7	26
224	Electrochemical formation of erbium-aluminum alloys from erbia in the chloride melts. *Electrochimica Acta*, **2014**, 116, 434-441	6.7	26
223	Structural Diversity of Bipyridinium-Based Uranyl Coordination Polymers: Synthesis, Characterization, and Ion-Exchange Application. *Inorganic Chemistry*, **2019**, 58, 14075-14084	5.1	25
222	Rational Construction of Porous Metal-Organic Frameworks for Uranium(VI) Extraction: The Strong Periodic Tendency with a Metal Node. *ACS Applied Materials & Interfaces*, **2020**, 12, 14087-14094	9.5	25
221	Bimetallic Uranyl Organic Frameworks Supported by Transition-Metal-Ion-Based Metalloligand Motifs: Synthesis, Structure Diversity, and Luminescence Properties. *Inorganic Chemistry*, **2018**, 57, 6084-6094	5.1	25
220	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	5.1	25
219	Extraction of thorium from LiCl□KCl molten salts by forming Al□Th alloys: a new pyrochemical method for the reprocessing of thorium-based spent fuels. *RSC Advances*, **2013**, 3, 23539	3.7	25
218	Theoretical Insights into Preorganized Pyridylpyrazole-Based Ligands toward the Separation of Am(III)/Eu(III). *Inorganic Chemistry*, **2018**, 57, 14810-14820	5.1	25
217	Theoretical insights into the separation of Am(III) over Eu(III) with PhenBHPPA. *Dalton Transactions*, **2015**, 44, 16737-45	4.3	24
216	Supramolecular Host-Guest Inclusion for Distinguishing Cucurbit[7]uril-Based Pseudorotaxanes from Small-Molecule Ligands in Coordination Assembly with a Uranyl Center. *Chemistry - A European Journal*, **2017**, 23, 13995-14003	4.8	24
215	Tetranuclear Uranyl Polyrotaxanes: Preferred Selectivity toward Uranyl Tetramer for Stabilizing a Flexible Polyrotaxane Chain Exhibiting Weakened Supramolecular Inclusion. *Chemistry - A European Journal*, **2015**, 21, 10226-35	4.8	24
214	Electroseparation of thorium from ThO2 and La2O3 by forming Th-Al alloys in LiCl-KCl eutectic. *Electrochimica Acta*, **2015**, 158, 277-286	6.7	24
213	Size-dependent toxicity of ThO nanoparticles to green algae Chlorella pyrenoidosa. *Aquatic Toxicology*, **2019**, 209, 113-120	5.1	23

212	Rapid Determination of Uranium in Water Samples by Adsorptive Cathodic Stripping Voltammetry Using a Tin-Bismuth Alloy Electrode. *Electrochimica Acta*, **2015**, 174, 925-932	6.7	23
211	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	2.8	23
210	Theoretical Insights into the Selective Extraction of Americium(III) over Europium(III) with Dithioamide-Based Ligands. *Inorganic Chemistry*, **2019**, 58, 10047-10056	5.1	23
209	Electrochemical separation of Th from ThO2 and Eu2O3 assisted by AlCl3 in molten LiClKCl. *Electrochimica Acta*, **2013**, 114, 180-188	6.7	23
208	Size-tunable synthesis of monodisperse thorium dioxide nanoparticles and their performance on the adsorption of dye molecules. *CrystEngComm*, **2014**, 16, 10469-10475	3.3	23
207	Actinide Separation Inspired by Self-Assembled Metal-Polyphenolic Nanocages. *Journal of the American Chemical Society*, **2020**, 142, 16538-16545	16.4	23
206	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	6.7	23
205	Electroreduction of Gd3+on W and Zn Electrodes in LiClKCl Eutectic: A Comparison Study. *Journal of the Electrochemical Society*, **2015**, 162, D531-D539	3.9	22
204	Semirigid Tripodal Ligand Based Uranyl Coordination Polymer Isomers Featuring 2D Honeycomb Nets. *Inorganic Chemistry*, **2018**, 57, 4492-4501	5.1	22
203	Electrochemical extraction of cerium from CeO2 assisted by AlCl3 in molten LiCl-KCl. *Electrochimica Acta*, **2014**, 147, 385-391	6.7	22
202	A combined DFT and molecular dynamics study of U(VI)/calcite interaction in aqueous solution. *Science Bulletin*, **2017**, 62, 1064-1073	10.6	22
201	Copper/Zinc-Directed Heterometallic Uranyl-Organic Polycatenating Frameworks: Synthesis, Characterization, and Anion-Dependent Structural Regulation. *Inorganic Chemistry*, **2016**, 55, 10125-10134	5.1	22
200	Novel Uranyl Coordination Polymers Based on Quinoline-Containing Dicarboxylate by Altering Auxiliary Ligands: From 1D Chain to 3D Framework. *Crystal Growth and Design*, **2016**, 16, 4886-4896	3.5	22
199	Releasing Metal-Coordination Capacity of Cucurbit[6]uril Macrocycle in Pseudorotaxane Ligands for the Construction of Interwoven Uranyl-Rotaxane Coordination Polymers. *Inorganic Chemistry*, **2018**, 57, 13513-13523	5.1	22
198	Photocatalytic reduction of uranium(VI) under visible light with 2D/1D Ti3C2/CdS. *Chemical Engineering Journal*, **2021**, 420, 129831	14.7	22
197	Theoretical studies on the AnO2(n+) (An = U, Np; n = 1, 2) complexes with di-(2-ethylhexyl)phosphoric acid. *Dalton Transactions*, **2015**, 44, 3227-36	4.3	21
196	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	4.3	21
195	Direct separation of uranium from lanthanides (La, Nd, Ce, Sm) in oxide mixture in LiCl-KCl eutectic melt. *Electrochimica Acta*, **2018**, 275, 100-109	6.7	21

194	Co-reduction behaviors of lanthanum and aluminium ions in LiCl-KCl eutectic. *Electrochimica Acta*, **2014**, 147, 104-113	6.7	21
193	Thermodynamic and electrochemical properties of holmium and HoxAly intermetallic compounds in the LiCl-KCl eutectic. *Electrochimica Acta*, **2015**, 174, 15-25	6.7	21
192	Mixed-Ligand Uranyl Polyrotaxanes Incorporating a Sulfate/Oxalate Coligand: Achieving Structural Diversity via pH-Dependent Competitive Effect. *Inorganic Chemistry*, **2017**, 56, 3227-3237	5.1	20
191	Electrochemical and Thermodynamic Properties of Pr on the Liquid Bi Electrode in LiCl-KCl Eutectic Melt. *Journal of the Electrochemical Society*, **2018**, 165, D452-D460	3.9	20
190	Insight into the nature of M-C bonding in the lanthanide/actinide-biscarbene complexes: a theoretical perspective. *Dalton Transactions*, **2018**, 47, 12718-12725	4.3	20
189	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	9.5	20
188	Theoretical studies on the synergistic extraction of Am and Eu with CMPO-HDEHP and CMPO-HEH[EHP] systems. *Dalton Transactions*, **2018**, 47, 5474-5482	4.3	19
187	Theoretical studies on the complexation of Eu(III) and Am(III) with HDEHP: structure, bonding nature and stability. *Science China Chemistry*, **2016**, 59, 324-331	7.9	19
186	Efficient Photocatalytic Reduction of Aqueous Perrhenate and Pertechnetate. *Environmental Science & Technology*, **2019**, 53, 10917-10925	10.3	19
185	First principles modeling of zirconium solution in bulk UO2. *Journal of Applied Physics*, **2013**, 113, 183514	2.5	19
184	Solvent extraction of uranium(VI) by a dipicolinamide using a room-temperature ionic liquid. *Radiochimica Acta*, **2014**, 102, 87-92	1.9	19
183	Uncovering the impact of ?capsule?shaped amine-type ligands on Am(iii)/Eu(iii) separation. *Physical Chemistry Chemical Physics*, **2018**, 20, 1030-1038	3.6	19
182	Large-Pore Layered Networks, Polycatenated Frameworks, and Three-Dimensional Frameworks of Uranyl Tri(biphenyl)amine/Tri(phenyl)amine Tricarboxylate: Solvent-/Ligand-Dependent Dual Regulation. *Crystal Growth and Design*, **2018**, 18, 4347-4356	3.5	19
181	Molecular Spring-like Triple-Helix Coordination Polymers as Dual-Stress and Thermally Responsive Crystalline Metal-Organic Materials. *Angewandte Chemie - International Edition*, **2020**, 59, 16061-16068	16.4	19
180	Two Three-Dimensional Actinide?Silver Heterometallic Coordination Polymers Based on 2,2?-Bipyridine-3,3?-dicarboxylic Acid with Helical Chains Containing Dimeric or Trimeric Motifs. *European Journal of Inorganic Chemistry*, **2017**, 2017, 1472-1477	2.3	18
179	Understanding Am/Cm separation with HTPAEN and its hydrophilic derivatives: a quantum chemical study. *Physical Chemistry Chemical Physics*, **2018**, 20, 14031-14039	3.6	18
178	Stepwise ortho Chlorination of Carboxyl Groups for Promoting Structure Variance of Heterometallic Uranyl-Silver Coordination Polymers of Isonicotinate. *Inorganic Chemistry*, **2018**, 57, 4673-4685	5.1	18
177	A neptunium(v)-mediated interwoven transuranium-rotaxane network incorporating a mechanically interlocked [c2]daisy chain unit. *Chemical Communications*, **2018**, 54, 8645-8648	5.8	18

176	A mixed-ligand strategy regulates thorium-based MOFs. *Dalton Transactions*, **2020**, 49, 983-987	4.3	18
175	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	5.1	17
174	Enhanced photocatalytic reduction of aqueous Re(VII) in ambient air by amorphous TiO2/g-C3N4 photocatalysts: Implications for Tc(VII) elimination. *Chemical Engineering Journal*, **2020**, 401, 125977	14.7	17
173	Synthesis of ThO2 nanostructures through a hydrothermal approach: influence of hexamethylenetetramine (HMTA) and sodium dodecyl sulfate (SDS). *RSC Advances*, **2014**, 4, 52209-52214	3.7	17
172	New insight of coordination and extraction of uranium(VI) with N-donating ligands in room temperature ionic liquids: N,N′-diethyl-N,N′-ditolyldipicolinamide as a case study. *Inorganic Chemistry*, **2015**, 54, 1992-9	5.1	17
171	Bipyridine-Directed Syntheses of Uranyl Compounds Containing Semirigid Dicarboxylate Linkers: Diversity and Consistency in Uranyl Speciation. *Inorganic Chemistry*, **2019**, 58, 6934-6945	5.1	16
170	Ultrastable actinide endohedral borospherenes. *Chemical Communications*, **2018**, 54, 2248-2251	5.8	16
169	Towards understanding the correlation between UO22+ extraction and substitute groups in 2,9-diamide-1,10-phenanthroline. *Science China Chemistry*, **2018**, 61, 1285-1292	7.9	16
168	First-principles DFT+U modeling of defect behaviors in anti-ferromagnetic uranium mononitride. *Journal of Applied Physics*, **2013**, 114, 223516	2.5	16
167	Visible-Light-Enabled C-H Functionalization by a Direct Hydrogen Atom Transfer Uranyl Photocatalyst. *Chemistry - A European Journal*, **2020**, 26, 16521-16529	4.8	16
166	Theoretical Study on Unsupported Uranium–Metal Bonding in Uranium–Group 8 Complexes. *Organometallics*, **2018**, 37, 3678-3686	3.8	16
165	Application of Binary Ga–Al Alloy Cathode in U Separation from Ce: The Possibility in Pyroprocessing of Spent Nuclear Fuel. *Electrochimica Acta*, **2020**, 353, 136449	6.7	15
164	Interactions between uranium(vi) and phosphopeptide: experimental and theoretical investigations. *Dalton Transactions*, **2016**, 45, 14988-97	4.3	15
163	Template-free synthesis and mechanistic study of porous three-dimensional hierarchical uranium-containing and uranium oxide microspheres. *Chemistry - A European Journal*, **2014**, 20, 12655-62	4.8	15
162	Thermodynamics and Kinetics Properties of Lanthanides (La, Ce, Pr, Nd) on Liquid Bismuth Electrode in LiCl-KCl Molten Salt. *Journal of the Electrochemical Society*, **2020**, 167, 122507	3.9	15
161	Easily prepared and stable functionalized magnetic ordered mesoporous silica for efficient uranium extraction. *Science China Chemistry*, **2016**, 59, 629-636	7.9	15
160	First three-dimensional actinide polyrotaxane framework mediated by windmill-like six-connected oligomeric uranyl: dual roles of the pseudorotaxane precursor. *Dalton Transactions*, **2016**, 45, 13304-7	4.3	15
159	Uranyl-Organic Coordination Compounds Incorporating Photoactive Vinylpyridine Moieties: Synthesis, Structural Characterization, and Light-Induced Fluorescence Attenuation. *Inorganic Chemistry*, **2018**, 57, 14772-14785	5.1	15

158	Temperature-induced reversible single-crystal-to-single-crystal isomerisation of uranyl polyrotaxanes: an exquisite case of coordination variability of the uranyl center. *Dalton Transactions*, **2017**, 46, 7392-7396	4.3	14
157	Two novel uranyl complexes of a semi-rigid aromatic tetracarboxylic acid supported by an organic base as an auxiliary ligand or a templating agent: an experimental and theoretical exploration. *CrystEngComm*, **2015**, 17, 3031-3040	3.3	14
156	Theoretical Insights into Modification of Nitrogen-Donor Ligands to Improve Performance on Am(III)/Eu(III) Separation. *Inorganic Chemistry*, **2020**, 59, 3221-3231	5.1	14
155	An Unprecedented Two-Fold Nested Super-Polyrotaxane: Sulfate-Directed Hierarchical Polythreading Assembly of Uranyl Polyrotaxane Moieties. *Chemistry - A European Journal*, **2016**, 22, 11329-38	4.8	14
154	Theoretical insight into the binding affinity enhancement of serine with the uranyl ion through phosphorylation. *RSC Advances*, **2016**, 6, 69773-69781	3.7	14
153	Hexadecylpyridinium (HDPy) modified bentonite for efficient and selective removal of 99Tc from wastewater. *Chemical Engineering Journal*, **2020**, 382, 122894	14.7	14
152	Adsorption behavior of actinides and some typical fission products by silica/polymer-based isoHex-BTP adsorbent from nitric acid solution. *Journal of Radioanalytical and Nuclear Chemistry*, **2015**, 303, 681-691	1.5	13
151	Surface properties of NpO2 and water reacting with stoichiometric and reduced NpO2 (111), (110), and (100) surfaces from ab initio atomistic thermodynamics. *Surface Science*, **2016**, 644, 153-164	1.8	13
150	Direct Electrochemical Preparation of Ni-Zr Alloy from Mixture Oxides in LiCl Molten Salt. *Journal of the Electrochemical Society*, **2017**, 164, D888-D894	3.9	13
149	Growth of Uranyl Hydroxide Nanowires and Nanotubes by the Electrodeposition Method and Their Transformation to One-Dimensional U3O8 Nanostructures. *European Journal of Inorganic Chemistry* , **2014**, 2014, 1158-1164	2.3	13
148	A density functional theory study of complex species and reactions of Am(III)/Eu(III) with nitrate anions. *Molecular Simulation*, **2014**, 40, 379-386	2	13
147	Adsorption and dissociation of H2O on the (001) surface of uranium mononitride: energetics and mechanism from first-principles investigation. *Physical Chemistry Chemical Physics*, **2016**, 18, 13255-66	3.6	13
146	In situ nitroso formation induced structural diversity of uranyl coordination polymers. *Inorganic Chemistry Frontiers*, **2019**, 6, 775-785	6.8	12
145	Performance and Mechanism for the Selective Separation of Trivalent Americium from Lanthanides by a Tetradentate Phenanthroline Ligand in Ionic Liquid. *Inorganic Chemistry*, **2020**, 59, 3905-3911	5.1	12
144	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	6.7	12
143	High selectivity towards small copper ions by a preorganized phenanthroline-derived tetradentate ligand and new insight into the complexation mechanism. *Dalton Transactions*, **2014**, 43, 12470-3	4.3	12
142	Theoretical Investigation on Incorporation and Diffusion Properties of Xe in Uranium Mononitride. *Journal of Physical Chemistry C*, **2015**, 119, 5783-5789	3.8	12
141	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,	1.9	12

140	Interactions between U(VI) and bovine serum albumin. *Journal of Radioanalytical and Nuclear Chemistry*, **2013**, 298, 903-908	1.5	12
139	Potassium Ions Induced Framework Interpenetration for Enhancing the Stability of Uranium-Based Porphyrin MOF with Visible-Light-Driven Photocatalytic Activity. *Inorganic Chemistry*, **2021**, 60, 651-659	5.1	12
138	Complexation of trivalent lanthanides and actinides with diethylenetriaminepentaacetic acid: Theoretical unraveling of bond covalency. *Journal of Molecular Liquids*, **2020**, 299, 112174	6	12
137	Condition dependence of Zr electrochemical reactions and morphological evolution of Zr deposits in molten salt. *Science China Chemistry*, **2017**, 60, 264-274	7.9	11
136	Metal-Carboxyl Helical Chain Secondary Units Supported Ion-Exchangeable Anionic Uranyl-Organic Framework. *Chemistry - A European Journal*, **2019**, 25, 10309-10313	4.8	11
135	The isotopic effects of 13C-labeled large carbon cage (C70) fullerenes and their formation process. *RSC Advances*, **2015**, 5, 76949-76956	3.7	11
134	Raman and Electrochemical Study of Zirconium in LiCl-KCl-LiF-ZrCl4. *Journal of the Electrochemical Society*, **2018**, 165, D6-D12	3.9	11
133	Design criteria for tetradentate phenanthroline-derived heterocyclic ligands to separate Am(III) from Eu(III). *Science China Chemistry*, **2014**, 57, 1439-1448	7.9	11
132	A new family of actinide sorbents with more open porous structure: Fibrous functionalized silica microspheres. *Chemical Engineering Journal*, **2020**, 385, 123892	14.7	11
131	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	5.1	11
130	Complexation of vanadium with amidoxime and carboxyl groups: uncovering the competitive role of vanadium in uranium extraction from seawater. *Radiochimica Acta*, **2017**, 105, 541-553	1.9	10
129	Supramolecular Isomers of Coordination-Directed Side-Chain Polypseudorotaxanes Based on Trimeric Uranyl Oxalate Nodes. *Chemistry - A European Journal*, **2017**, 23, 8380-8384	4.8	10
128	Confirmation and elimination of cyclic electrolysis of uranium ions in molten salts. *Electrochemistry Communications*, **2019**, 103, 55-60	5.1	10
127	Kinked-Helix Actinide Polyrotaxanes from Weakly Bound Pseudorotaxane Linkers with Variable Conformations. *Inorganic Chemistry*, **2020**, 59, 4058-4067	5.1	10
126	Radiation-Induced Self-Assembly of Ti3C2Tx with Improved Electrochemical Performance for Supercapacitor. *Advanced Materials Interfaces*, **2020**, 7, 1901839	4.6	10
125	Theoretical Prediction of the Potential Applications of Phenanthroline Derivatives in Separation of Transplutonium Elements. *Inorganic Chemistry*, **2020**, 59, 11469-11480	5.1	10
124	Radiation-induced surface modification of silanized silica with n-alkyl-imidazolium ionic liquids and their applications for the removal of ReO_4^- as an analogue for TcO_4^- *Applied Surface Science*, **2021**, 551, 149406	6.7	10
123	Influence of complexing species on the extraction of trivalent actinides from lanthanides with CyMe4BTBP: a theoretical study. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 318, 1453-1463	1.5	10

122	A Theoretical Study on Divalent Heavier Group 14 Complexes as Promising Donor Ligands for Building Uranium□Metal Bonds. *Organometallics*, **2019**, 38, 1963-1972	3.8	9
121	Electrochemical behavior of Th(IV) on the bismuth electrode in LiCl□KCl eutectic. *Journal of Nuclear Materials*, **2019**, 523, 268-275	3.3	9
120	Theoretical insights on the complexation of Am(III) and Cm(III) with amide-type ligands. *Journal of Radioanalytical and Nuclear Chemistry*, **2019**, 322, 993-1002	1.5	9
119	First-Principles Study of Barium and Zirconium Stability in Uranium Mononitride Nuclear Fuels. *Journal of Physical Chemistry C*, **2014**, 118, 14579-14585	3.8	9
118	Extraction complexes of Pu(IV) with carbamoylmethylphosphine oxide ligands: A relativistic density functional study. *Radiochimica Acta*, **2014**, 102, 77-86	1.9	9
117	Tyrosine phosphorylation/dephosphorylation regulates peroxynitrite-mediated peptide nitration. *Regulatory Peptides*, **2007**, 144, 1-5		9
116	Construction of Hybrid Bimetallic Uranyl Compounds Based on a Preassembled Terpyridine Metalloligand. *Chemistry - A European Journal*, **2021**, 27, 2124-2130	4.8	9
115	Separation of actinides from lanthanides associated with spent nuclear fuel reprocessing in China: current status and future perspectives. *Radiochimica Acta*, **2019**, 107, 951-964	1.9	8
114	Thermodynamic properties of praseodymium on the liquid cadmium electrode and evaluation of anodic dissolution behavior in LiCl-KCl eutectic. *Journal of Nuclear Materials*, **2019**, 523, 16-25	3.3	8
113	Uranium Dendritic Morphology in the Electrorefining: Influences of Temperature and Current Density. *Journal of the Electrochemical Society*, **2018**, 165, D98-D106	3.9	8
112	Template-Driven Assembly of Rare Hexameric Uranyl-Organic Rotaxane Networks Threaded on Dimeric Uranyl Chains. *Crystal Growth and Design*, **2018**, 18, 3073-3081	3.5	8
111	Highly delocalized endohedral metal in Gd@C2v(9)-C82 metallofullerenes co-crystallized with □58. *Nano Research*, **2018**, 11, 2277-2284	10	8
110	Electrochemical behavior of praseodymium on the W and Al□Zn electrodes in LiCl□KCl eutectic: A comparison study. *Electrochimica Acta*, **2019**, 326, 134971	6.7	8
109	Electrochemical behavior of uranyl in ionic liquid 1-butyl-3-methylimidazolium chloride mixture with water. *Journal of Radioanalytical and Nuclear Chemistry*, **2014**, 302, 281-288	1.5	8
108	Electroseparation of uranium from lanthanides (La, Ce, Pr, Nd and Sm) on liquid gallium electrode. *Separation and Purification Technology*, **2021**, 265, 118524	8.3	8
107	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	3.3	8
106	Kinetics process of Tb(III)/Tb couple at liquid Zn electrode and thermodynamic properties of Tb-Zn alloys formation. *Science China Chemistry*, **2017**, 60, 813-821	7.9	7
105	Theoretical investigation on electronic and mechanical properties of ternary actinide (U, Np, Pu) nitrides. *Journal of Applied Physics*, **2017**, 122, 115109	2.5	7

104	Preparation of Uranium-Molybdenum Alloys by Electrochemical Reduction of Solid Oxides in LiCl Molten Salt. *Journal of the Electrochemical Society*, **2019**, 166, D276-D282	3.9	7
103	Electroreduction-based Tb extraction from Tb4O7 on different substrates: understanding Al–Tb alloy formation mechanism in LiCl–KCl melt. *RSC Advances*, **2015**, 5, 69134-69142	3.7	7
102	Electrochemical Behaviors of Eu (III) on the Liquid Binary Al-Ga Alloy Cathode. *Journal of the Electrochemical Society*, **2019**, 166, D882-D889	3.9	7
101	Two new uranyl fluoride complexes with UVIO2–alkali (Na, Cs) interactions: Experimental and theoretical studies. *CrystEngComm*, **2013**, 15, 8041	3.3	7
100	Nuclear and radiochemistry in China: present status and future perspectives. *Radiochimica Acta*, **2012**, 100, 529-539	1.9	7
99	Alkalization Intercalation of MXene for Electrochemical Detection of Uranyl Ion. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2019**, 34, 85	1	7
98	Selective Separation and Coordination of Europium(III) and Americium(III) by Bisdiglycolamide Ligands: Solvent Extraction, Spectroscopy, and DFT Calculations. *Inorganic Chemistry*, **2020**, 59, 14218-14228	5.1	7
97	Two-Dimensional Inorganic Cationic Network of Thorium Iodate Chloride with Unique Halogen-Halogen Bonds. *Inorganic Chemistry*, **2016**, 55, 8570-5	5.1	7
96	The Application of Low-Melting LiCl-KCl-CsCl Eutectic to Electrodeposit Uranium Metal. *Journal of the Electrochemical Society*, **2019**, 166, D606-D616	3.9	6
95	Electrochemical Deposition of Erbium on a Binary Al-Zn Cathode. *Journal of the Electrochemical Society*, **2019**, 166, D569-D576	3.9	6
94	A Tetra-amido-Protected Ge-Spiropentadiene. *Journal of the American Chemical Society*, **2019**, 141, 19252–19256	14.4	6
93	First-principles study of water reacting with the (110) surface of uranium mononitride. *Journal of Nuclear Materials*, **2017**, 492, 244-252	3.3	5
92	Metal-metal multiple bond in low-valent diuranium porphyrazines and its correlation with metal oxidation state: A relativistic DFT study. *Computational and Theoretical Chemistry*, **2017**, 1108, 29-39	2	5
91	The Electrochemical Co-reduction of Mg-Al-Y Alloys in the LiCl-NaCl-MgCl2-AlF3-YCl3 Melts. *Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science*, **2015**, 46, 644-652	2.5	5
90	Rational Design of a Tripodal Ligand for U(IV): Synthesis and Characterization of a UCl Species and Insights into Its Reactivity. *Organometallics*, **2020**, 39, 4069-4077	3.8	5
89	Synthesis of ordered mesoporous uranium dioxide by a nanocasting route. *Radiochimica Acta*, **2016**, 104, 549-553	1.9	5
88	Radiation effect on Th4+ extraction behaviour of TODGA/[C2mim][NTf2]: identification and extractability study of radiolytic products. *RSC Advances*, **2016**, 6, 7626-7632	3.7	5
87	An Insight into Adaptive Deformation of Rigid Cucurbit[6]uril Host in Symmetric [2]Pseudorotaxanes. *European Journal of Organic Chemistry*, **2018**, 2018, 4426-4430	3.2	5

86	Evaluation study on a macroporous silica-based isohexyl-BTP adsorbent for minor actinides separation from nitric acid medium. *Radiochimica Acta*, **2014**, 102, 93-100	1.9	5
85	Noncomplexed Cucurbituril-Mediated Structural Evolution of Layered Uranyl Terephthalate Compounds. *Inorganic Chemistry*, **2020**, 59, 943-955	5.1	5
84	A New Preorganized Metalloligand Linker for the Construction of Luminescent Coordination Polymers. *Crystal Growth and Design*, **2020**, 20, 6966-6972	3.5	5
83	Solar-Driven Nitrogen Fixation Catalyzed by Stable Radical-Containing MOFs: Improved Efficiency Induced by a Structural Transformation. *Angewandte Chemie*, **2020**, 132, 20847-20852	3.6	5
82	Estimation of the composition of intermetallic compounds in LiCl-KCl molten salt by cyclic voltammetry. *Faraday Discussions*, **2016**, 190, 387-98	3.6	5
81	In-situ anodic precipitation process for highly efficient separation of aluminum alloys. *Nature Communications*, **2021**, 12, 5777	17.4	5
80	U(VI) Extraction by 8-hydroxyquinoline: a comparison study in ionic liquid and in dichloromethane. *Radiochimica Acta*, **2017**, 105, 441-448	1.9	4
79	New formulation for reduction potentials of (Cu, Ni, Al, Zn)–lanthanide alloys – implications for electrolysis-based pyroprocessing of spent nuclear fuel. *Electrochemistry Communications*, **2018**, 93, 180-182	5.1	4
78	Hydroxylation of 3-nitrotyrosine and its derivatives by gamma irradiation. *Radiation Research*, **2006**, 166, 639-45	3.1	4
77	Multi-modal netted sensor fence for homeland security **2005**,		4
76	Quantum chemical studies of selective back-extraction of Am(III) from Eu(III) and Cm(III) with two hydrophilic 1,10-phenanthroline-2,9-bis-triazolyl ligands. *Radiochimica Acta*, **2020**, 108, 517-526	1.9	4
75	Electronic structures and bonding of the actinide halides An(TREN)X (An = Th-Pu; X = F-I): a theoretical perspective. *Dalton Transactions*, **2020**, 49, 15895-15902	4.3	4
74	An Azobenzene-Modified Photoresponsive Thorium-Organic Framework: Monitoring and Quantitative Analysis of Reversible Photoisomerization. *Inorganic Chemistry*, **2021**, 60, 8519-8529	5.1	4
73	Theoretical study on stability, mechanical and thermodynamic properties of (Pu, Zr)N. *Journal of Nuclear Materials*, **2019**, 516, 264-270	3.3	3
72	Interactions of phosphorylated cyclohexapeptides with uranyl: insights from experiments and theoretical calculations. *Journal of Radioanalytical and Nuclear Chemistry*, **2019**, 322, 677-689	1.5	3
71	Theoretical investigation on the solution behaviors of Ba and Zr in uranium dinitride. *Science China Chemistry*, **2015**, 58, 1891-1897	7.9	3
70	Synthesis of ordered mesoporous U3O8 by a nanocasting route. *Radiochimica Acta*, **2014**, 102,	1.9	3
69	**2012**,		3

68	Nitration activates tyrosine toward reaction with the hydrated electron. *Radiation Research*, **2011**, 176, 128-33	3.1	3
67	Development of an Experimental Prototype Multi-Modal Netted Sensor Fence for Homeland Defense and Border Integrity **2007**,		3
66	Induced Polarization Imaging of a Jet Fuel Plume **1999**,		3
65	Electrochemical extraction kinetics of Nd on reactive electrodes. *Separation and Purification Technology*, **2022**, 281, 119853	8.3	3
64	Coordination behavior of uranyl with PDAM derivatives in solution: Combined study with ESI-MS and DFT. *Journal of Molecular Liquids*, **2020**, 300, 112287	6	3
63	Uranium chemical species in LiCl-KCl eutectic under different conditions for the dissolution of U3O8. *Journal of Nuclear Materials*, **2020**, 542, 152475	3.3	3
62	Temperature-Triggered Structural Dynamics of Non-Coordinating Guest Moieties in a Fluorescent Actinide Polyrotaxane Framework. *Chemistry - A European Journal*, **2021**, 27, 8730-8736	4.8	3
61	Electrodeposition Mechanism of La3+ on Al, Ga and Al-Ga Alloy Cathodes in LiCl-KCl Eutectic Salt. *Journal of the Electrochemical Society*, **2021**, 168, 062511	3.9	3
60	Strong Periodic Tendency of Trivalent Lanthanides Coordinated with a Phenanthroline-Based Ligand: Cascade Countercurrent Extraction, Spectroscopy, and Crystallography. *Inorganic Chemistry*, **2021**, 60, 9745-9756	5.1	3
59	Synthesis and crystal structures of two new uranyl coordination compounds obtained in aqueous solutions of 1-butyl-2,3-dimethylimidazolium chloride. *Journal of Coordination Chemistry*, **2018**, 71, 2415-2425	1.6	3
58	Adsorption of CH3I on Ag(1 1 1) and Ag2O(1 1 1) surface: A density functional theory study. *Chemical Physics*, **2018**, 513, 35-40	2.3	3
57	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	5.1	3
56	Selective separation between UO22+ and Pu4+ by novel tetradentate chelate phenanthroline diamide ligand in 1-octanol. *Separation and Purification Technology*, **2021**, 277, 119521	8.3	3
55	Enhancing the Am/Cm separation ability by weakening the binding affinity of N donor atoms: a comparative theoretical study of N, O combined extractants. *Dalton Transactions*, **2021**, 50, 3559-3567	4.3	3
54	Controllable photomechanical bending of metal-organic rotaxane crystals facilitated by regioselective confined-space photodimerization.. *Nature Communications*, **2022**, 13, 2030	17.4	3
53	Modification of a Carbon Nanobelt with Actinides Th-Am: A Density Functional Theory Study. *Journal of Physical Chemistry A*, **2019**, 123, 4900-4907	2.8	2
52	Exploring Actinide Materials through Synchrotron Radiation Techniques **2018**, 389-509		2
51	Identification of radiation-induced cross-linking between thymine and tryptophan by electrospray ionization-mass spectrometry. *Journal of Mass Spectrometry*, **2006**, 41, 1205-11	2.2	2

50	Theoretical probing of twenty-coordinate actinide-centered boron molecular drums. *Physical Chemistry Chemical Physics*, **2021**, 23, 26967-26973	3.6	2
49	Adsorption of Radioiodine on Cu2O Surfaces: a First-Principles Density Functional Study. *Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica*, **2016**, 32, 2264-2270	3.8	2
48	Structures and Uranium-Uranium Multiple Bond of Binuclear Divalent Uranium Complex of Pyrrolic Schiff-base Macrocycle: a Relativistic DFT Probe. *Acta Chimica Sinica*, **2017**, 75, 457	3.3	2
47	Theoretical Insights into the Separation of Am(III)/Eu(III) by Hydrophilic Sulfonated Ligands. *Inorganic Chemistry*, **2021**, 60, 16409-16419	5.1	2
46	Kinetic Properties and Electrochemical Separation of Uranium on Liquid Bismuth Electrode in LiCl□KCl Melt. *Journal of the Electrochemical Society*, **2021**, 168, 032503	3.9	2
45	Substituent Effect on the Selective Separation and Complexation of Trivalent Americium and Lanthanides by N,O-Hybrid 2,9-Diamide-1,10-phenanthroline Ligands in Ionic Liquid. *Inorganic Chemistry*, **2021**, 60, 5131-5139	5.1	2
44	Theoretical Insights into the Actinide□Silicon Bonding Nature and Stability of a Series of Actinide Complexes with Different Oxidation States. *Organometallics*, **2021**, 40, 1719-1727	3.8	2
43	Theoretical Insights into Transplutonium Element Separation with Electronically Modulated Phenanthroline-Derived Bis-Triazine Ligands. *Inorganic Chemistry*, **2021**, 60, 10267-10279	5.1	2
42	The redox mechanism of NpVI with hydrazine: a DFT study. *RSC Advances*, **2016**, 6, 109045-109053	3.7	2
41	Robust covalent organic frameworks with tailor-made chelating sites for synergistic capture of U(vi) ions from highly acidic radioactive waste. *Dalton Transactions*, **2021**, 50, 3792-3796	4.3	2
40	Double-Layer Nitrogen-Rich Two-Dimensional Anionic Uranyl-Organic Framework for Cation Dye Capture and Catalytic Fixation of Carbon Dioxide. *Inorganic Chemistry*, **2021**, 60, 11485-11495	5.1	2
39	Theoretical insights into the substitution effect of phenanthroline derivative ligands on the extraction of Mo (VI). *Separation and Purification Technology*, **2021**, 280, 119817	8.3	2
38	The dendrite growth, morphology control and deposition properties of uranium electrorefining. *Journal of Nuclear Materials*, **2021**, 555, 153110	3.3	2
37	Technetium-99 decontamination from radioactive wastewater by modified bentonite: batch, column experiment and mechanism investigation. *Chemical Engineering Journal*, **2022**, 428, 131333	14.7	2
36	High-Temperature Synthesis of a Uranyl Peroxo Complex Facilitated by Hydrothermally In Situ Formed Organic Peroxide. *Inorganic Chemistry*, **2021**, 60, 2133-2137	5.1	2
35	Porous Cationic Electrospun Fibers with Sufficient Adsorption Sites for Effective and Continuous 99 TcO_4^- Uptake. *Advanced Functional Materials*,2200618	15.6	2
34	Graphene oxide/chitosan/potassium copper hexacyanoferrate(II) composite aerogel for efficient removal of cesium. *Chemical Engineering Journal*, **2022**, 136397	14.7	2
33	A theoretical study on geometry, bonding nature, and stability of several anhydrous and hydrated In(III), Gd(III) and Yb(III) complexes in liquid scintillator solvents. *Inorganica Chimica Acta*, **2017**, 463, 20-28	2.7	1

32	In situ X-ray absorption fine structure study on the polymerization of isoprene assisted by Nd-based ternary catalysts. *RSC Advances*, **2017**, 7, 14413-14421	3.7	1
31	Molecular Spring-like Triple-Helix Coordination Polymers as Dual-Stress and Thermally Responsive Crystalline Metal□Organic Materials. *Angewandte Chemie*, **2020**, 132, 16195-16202	3.6	1
30	A simple and effective separation of UO2 and Ln2O3 assisted by NH4Cl in LiCl□KCl eutectic. *Journal of Nuclear Materials*, **2020**, 532, 152049	3.3	1
29	Theoretical Study on the Reduction Mechanism of Np(VI) by Hydrazine Derivatives. *Journal of Physical Chemistry A*, **2020**, 124, 3720-3729	2.8	1
28	Complexation of U(VI) with diphenyldithiophosphinic acid: spectroscopy, structure and DFT calculations. *Journal of Radioanalytical and Nuclear Chemistry*, **2018**, 317, 121-129	1.5	1
27	Experimental and theoretical investigations on the tautomerism of 1-phenyl-2-thiobarbituric acid and its methylation reaction. *Journal of Molecular Structure*, **2013**, 1036, 372-379	3.4	1
26	Binuclear trivalent and tetravalent uranium halides and cyanides supported by cyclooctatetraene ligands. *Radiochimica Acta*, **2017**, 105, 21-32	1.9	1
25	Hydroxylation of 3-nitrotyrosine by hydroxyl radical. *Chinese Chemical Letters*, **2007**, 18, 542-544	8.1	1
24	Protective role of 3-nitrotyrosine against gamma radiation-induced DNA strand breaks: A comparison study with tyrosine. *Radiation Physics and Chemistry*, **2008**, 77, 1290-1293	2.5	1
23	Viologen-Based Uranyl Coordination Polymers: Anion-Induced Structural Diversity and the Potential as a Fluorescent Probe. *European Journal of Inorganic Chemistry*,	2.3	1
22	The influence of F□ion on the electrochemical behavior and coordination properties of uranium in LiCl-KCl molten salt. *Electrochimica Acta*, **2021**, 139573	6.7	1
21	Facile Access to Uranium and Thorium Phosphaethynolate Complexes Supported by Tren: Experimental and Theoretical Study. *Chinese Journal of Chemistry*, **2021**, 39, 2125-2131	4.9	1
20	Proximity Effect in Uranyl Coordination of the Cucurbit[6]uril-Bipyridinium Pseudorotaxane Ligand for Promoting Host-Guest Synergistic Chelating. *Inorganic Chemistry*, **2021**, 60, 10522-10534	5.1	1
19	Controlling the secondary assembly of porous anionic uranyl-organic polyhedra through organic cationic templates. *Dalton Transactions*, **2021**, 50, 4499-4503	4.3	1
18	Theoretical prediction of chiral actinide endohedral borospherenes. *New Journal of Chemistry*, **2021** , 45, 6803-6810	3.6	1
17	Uranyl-catalyzed hydrosilylation of -quinone methides: access to diarylmethane derivatives. *Organic and Biomolecular Chemistry*, **2021**, 19, 1575-1579	3.9	1
16	Liquid Electrodes for An/Ln Separation in Pyroprocessing. *Journal of the Electrochemical Society*, **2021**, 168, 032507	3.9	1
15	Supramolecular and Macrocyclic Chemistry of the Actinides **2018**, 1-19		1

14	Stepwise Assembly of a Multicomponent Heterometallic Metal-Organic Framework via Th-Based Metalloligands. *Inorganic Chemistry*, **2021**, 60, 14535-14539	5.1	1
13	Hydrolytically stable foamed HKUST-1@CMC composites realize high-efficient separation of U(VI). *IScience*, **2021**, 24, 102982	6.1	1
12	Theoretical study on the extraction behaviors of MoO22+ with organophosphorous extractants. *Journal of Molecular Liquids*, **2022**, 355, 118969	6	1
11	Theoretical insights into the possible applications of amidoxime-based adsorbents in neptunium and plutonium separation. *Dalton Transactions*, **2021**, 50, 15576-15584	4.3	0
10	Thorium(IV) adsorption onto multilayered TiCT MXene: a batch, X-ray diffraction and EXAFS combined study. *Journal of Synchrotron Radiation*, **2021**, 28, 1709-1719	2.4	0
9	Theoretical Insights into the Reduction Mechanism of Np(VI) with Phenylhydrazine. *Journal of Physical Chemistry A*, **2021**, 125, 6180-6188	2.8	0
8	Coordination-driven assembly of actinide-organic polyrotaxanes involving crown ether macrocycles. *Organic Chemistry Frontiers*, **2021**, 8, 3686-3694	5.2	0
7	Competitive Coordination of Chloride and Fluoride Anions Towards Trivalent Lanthanide Cations (La and Nd) in Molten Salts. *Chemistry - A European Journal*, **2021**, 27, 11721-11729	4.8	0
6	Molecular Dynamics Simulations of Metal Electrode/Molten LiCl-KCl-UCl3 Mixtures Interface. *Journal of the Electrochemical Society*, **2022**, 169, 032503	3.9	0
5	A novel CPE procedure by oil-in-water microemulsion for preconcentrating and analyzing thorium and uranium. *Radiochimica Acta*, **2022**, 110, 239-249	1.9	0
4	Separation of Uranium from Lanthanides (La, Sm) with Sacrificial Li Anode in LiCl-KCl Eutectic Salt. *Separation and Purification Technology*, **2022**, 121025	8.3	0
3	Two-dimensional transition metal carbide/nitride (MXene)-based nanomaterials for removal of toxic/radioactive metal ions from wastewater **2022**, 161-194		
2	Recent Progress on Chemical Species of Uranium in Molten Chlorides. *Acta Chimica Sinica*, **2021**, 79, 1425	3.3	
1	Carbone Derivatives of Group 14: A Class of Important Reactive Intermediates. *Acta Chimica Sinica*, **2022**, 80, 373	3.3	