Linfeng Rao

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Chemical Speciation of Uranium(VI) in Marine Environments: Complexation of Calcium and Magnesium Ions with [(UO ₂)(CO ₃) ₃] ^{4â^²} and the Effect on the Extraction of Uranium from Seawater. Chemistry - A European Journal, 2014, 20, 14499-14506.	3.3	174
2	Sequestering uranium from seawater: binding strength and modes of uranyl complexes with glutarimidedioxime. Dalton Transactions, 2012, 41, 11579.	3.3	156
3	Scientific Basis for Efficient Extraction of Uranium from Seawater. I: Understanding the Chemical Speciation of Uranium under Seawater Conditions. Industrial & Engineering Chemistry Research, 2016, 55, 4249-4256.	3.7	133
4	An overview and recent progress in the chemistry of uranium extraction from seawater. Dalton Transactions, 2018, 47, 639-644.	3.3	130
5	Hydrolysis of Uranium(VI) at Variable Temperatures (10â^'85 °C). Journal of the American Chemical Society, 2004, 126, 5515-5522.	13.7	110
6	Origin of the unusually strong and selective binding of vanadium by polyamidoximes in seawater. Nature Communications, 2017, 8, 1560.	12.8	110
7	Siderophore-inspired chelator hijacks uranium from aqueous medium. Nature Communications, 2019, 10, 819.	12.8	84
8	Carbonate–H ₂ O ₂ leaching for sequestering uranium from seawater. Dalton Transactions, 2014, 43, 10713-10718.	3.3	74
9	Optical Absorption and Structure of a Highly Symmetrical Neptunium(V) Diamide Complex. Angewandte Chemie - International Edition, 2005, 44, 6200-6203.	13.8	70
10	Hydrolysis of neptunium(V) at variable temperatures (10–85°C). Geochimica Et Cosmochimica Acta, 2004, 68, 4821-4830.	3.9	69
11	Thermodynamic studies of U(vi) complexation with glutardiamidoxime for sequestration of uranium from seawater. Dalton Transactions, 2013, 42, 5690.	3.3	69
12	Quest for Environmentally Benign Ligands for Actinide Separations: Thermodynamic, Spectroscopic, and Structural Characterization of U ^{VI} Complexes with Oxaâ€Diamide and Related Ligands. Chemistry - A European Journal, 2009, 15, 4172-4181.	3.3	68
13	Complexation of glutarimidedioxime with Fe(iii), Cu(ii), Pb(ii), and Ni(ii), the competing ions for the sequestration of U(vi) from seawater. Dalton Transactions, 2013, 42, 14621.	3.3	68
14	Complexation of U(VI) with Dipicolinic Acid: Thermodynamics and Coordination Modes. Inorganic Chemistry, 2013, 52, 2750-2756.	4.0	64
15	Complexation of Lanthanides with Nitrate at Variable Temperatures: Thermodynamics and Coordination Modes. Inorganic Chemistry, 2009, 48, 964-970.	4.0	57
16	Complexation of uranium(<scp>vi</scp>) with glutarimidoxioxime: thermodynamic and computational studies. Dalton Transactions, 2015, 44, 13835-13844.	3.3	54
17	Extraction of Actinide(III, IV, V, VI) Ions and TcO 4 â^' by N,N,N′,N′â€īetraisobutylâ€3â€Oxaâ€Glutaramide. Extraction and Ion Exchange, 2005, 23, 631-643.	Solvent	50
18	Complexation of Lactate with Neodymium(III) and Europium(III) at Variable Temperatures: Studies by Potentiometry, Microcalorimetry, Optical Absorption, and Luminescence Spectroscopy. Inorganic Chemistry, 2010, 49, 10598-10605.	4.0	49

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19	Structural and Thermodynamic Study of the Complexes of Nd(III) with <i>N</i> , <i>N</i> , <i>N</i> , <i>N</i> ,4) a€2, <i>N</i> a€2-Tetramethyl-3-oxa-glutaramide and the Acid Analogues. Inorganic Chemistry, 2014, 53, 9477-9485.	4.0	47
20	Complexation of calcium and magnesium with glutarimidedioxime: Implications for the extraction of uranium from seawater. Polyhedron, 2015, 95, 54-59.	2.2	47
21	Structural and spectroscopic studies of a rare non-oxido V(<scp>v</scp>) complex crystallized from aqueous solution. Chemical Science, 2016, 7, 2775-2786.	7.4	47
22	Energetics and Structure of Uranium(VI)–Acetate Complexes in Dimethyl Sulfoxide. Inorganic Chemistry, 2012, 51, 9045-9055.	4.0	45
23	Oligomerization of chromium(iii) and its impact on the oxidation of chromium(iii) by hydrogen peroxide in alkaline solutions. Dalton Transactions RSC, 2002, , 267.	2.3	42
24	Thermodynamic, Spectroscopic, and Computational Studies of Lanthanide Complexation with Diethylenetriaminepentaacetic Acid: Temperature Effect and Coordination Modes. Inorganic Chemistry, 2011, 50, 3087-3096.	4.0	41
25	Thermodynamics of actinide complexation in solution at elevated temperatures: application of variable-temperature titration calorimetry. Chemical Society Reviews, 2007, 36, 881.	38.1	39
26	Thermodynamics, Optical Properties, and Coordination Modes of Np(V) with Dipicolinic Acid. Inorganic Chemistry, 2009, 48, 10158-10164.	4.0	39
27	Complexation of Uranium(VI) and Samarium(III) with Oxydiacetic Acid:  Temperature Effect and Coordination Modes. Inorganic Chemistry, 2003, 42, 3685-3692.	4.0	38
28	Complexation of Uranium(VI) by Gluconate in Acidic Solutions: a Thermodynamic Study with Structural Analysis. Inorganic Chemistry, 2009, 48, 3814-3824.	4.0	38
29	Copolymer-Templated Synthesis of Nitrogen-Doped Mesoporous Carbons for Enhanced Adsorption of Hexavalent Chromium and Uranium. ACS Applied Nano Materials, 2018, 1, 2536-2543.	5.0	37
30	Quantifying the binding strength of U(<scp>vi</scp>) with phthalimidedioxime in comparison with glutarimidedioxime. Dalton Transactions, 2014, 43, 551-557.	3.3	36
31	Thermodynamic study of the complexation of uranium(VI) with nitrate at variable temperatures. Journal of Chemical Thermodynamics, 2008, 40, 1001-1006.	2.0	35
32	Optical Spectroscopy Study of Organic-Phase Lanthanide Complexes in the TALSPEAK Separations Process. Inorganic Chemistry, 2012, 51, 6299-6307.	4.0	34
33	Symmetry, Optical Properties and Thermodynamics of Neptunium(V) Complexes. Symmetry, 2010, 2, 1-14.	2.2	30
34	Complexation of Np(v) with N,N-dimethyl-3-oxa-glutaramic acid and related ligands: thermodynamics, optical properties and structural aspects. Dalton Transactions, 2010, 39, 3326.	3.3	28
35	Symmetry and optical spectra: a "silent―1 : 2 Np(v)–oxydiacetate complex. Chemical Communications, 2007, , 4119.	4.1	26
36	Effect of Temperature on the Protonation of the TALSPEAK Ligands: Lactic and Diethylenetrinitropentaacetic Acids. Separation Science and Technology, 2010, 45, 1718-1724.	2.5	21

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37	Thermodynamic, Structural, and Computational Investigation on the Complexation between UO ₂ ²⁺ and Amine-Functionalized Diacetamide Ligands in Aqueous Solution. Inorganic Chemistry, 2018, 57, 2122-2131.	4.0	21
38	Complexation of thorium(iv) with acetate at variable temperatures. Dalton Transactions, 2004, , 2867.	3.3	19
39	Complexation of Lanthanides with Glutaroimide-dioxime: Binding Strength and Coordination Modes. Inorganic Chemistry, 2016, 55, 1315-1323.	4.0	19
40	Quantitative Analysis of Surface Sites on Carbon Dots and Their Interaction with Metal Ions by a Potentiometric Titration Method. Analytical Chemistry, 2019, 91, 9690-9697.	6.5	19
41	Complexation-assisted reduction: complexes of glutaroimide-dioxime with tetravalent actinides (Np(<scp>iv</scp>) and Th(<scp>iv</scp>)). Dalton Transactions, 2018, 47, 8134-8141.	3.3	17
42	Complexation of Curium(III) with DTPA at 10–70 °C: Comparison with Eu(III)–DTPA in Thermodynamics, Luminescence, and Coordination Modes. Inorganic Chemistry, 2015, 54, 1232-1239.	4.0	16
43	Complexation of Neptunium(V) with Glutaroimide Dioxime: A Study by Absorption Spectroscopy, Microcalorimetry, and Density Functional Theory Calculations. Inorganic Chemistry, 2015, 54, 8693-8698.	4.0	15
44	Complexation of U(VI) with BiPDA, DmBiPDA, and PhenDA: Comparison on Structures and Binding Strengths in Aqueous and DMSO/20%(v)H ₂ O Solutions. Inorganic Chemistry, 2019, 58, 6064-6074.	4.0	15
45	Complexation of plutonium(IV) with sulfate at variable temperatures. Journal of Radioanalytical and Nuclear Chemistry, 2007, 274, 79-86.	1.5	14
46	Effect of temperature on the complexation of NpO2+ with benzoic acid: Spectrophotometric and calorimetric studies. Journal of Chemical Thermodynamics, 2015, 80, 73-78.	2.0	14
47	Kinetics of complexation of V(v), U(vi), and Fe(iii) with glutaroimide-dioxime: studies by stopped-flow and conventional absorption spectroscopy. Dalton Transactions, 2017, 46, 11084-11096.	3.3	14
48	Interactions of vanadium(<scp>iv</scp>) with amidoxime ligands: redox reactivity. Dalton Transactions, 2018, 47, 5695-5702.	3.3	14
49	Complexation of Np ^V Ions with 1,10â€Phenanthrolineâ€2,9â€dicarboxylic Acid: Spectrophotometric and Microcalorimetric Studies. European Journal of Inorganic Chemistry, 2014, 2014, 5561-5566.	2.0	13
50	Effect of temperature on the protonation of N-(2-hydroxyethyl)ethylenediamine-N,N′,N′-triacetic acid in aqueous solutions: Potentiometric and calorimetric studies. Journal of Chemical Thermodynamics, 2015, 85, 35-41.	2.0	13
51	Effect of temperature on the thermodynamic and spectroscopic properties of Np(<scp>v</scp>) complexes with picolinate. RSC Advances, 2015, 5, 75483-75490.	3.6	12
52	Complexation of Uranium(VI) with <i>N</i> (2-Hydroxyethyl)ethylenediamine- <i>N</i> , <i>N</i> ′, <i>N</i> ′-triacetic Acid in Aqueous Solution: Thermodynamic Studies and Coordination Analyses. Inorganic Chemistry, 2018, 57, 7684-7693.	4.0	12
53	Interaction of thorium(iv) with nitrate in aqueous solution: medium effect or weak complexation?. Dalton Transactions, 2011, 40, 9101.	3.3	10
54	Surface complexation modeling of neptunium(V) sorption to lepidocrocite (<i>γ</i> -FeOOH). Radiochimica Acta, 2015, 103, 707-717.	1.2	10

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55	Complexation of NpO2+ with Amine-Functionalized Diacetamide Ligands in Aqueous Solution: Thermodynamic, Structural, and Computational Studies. Inorganic Chemistry, 2018, 57, 6965-6972.	4.0	10
56	Coordination of 2,2′-(Trifluoroazanediyl)bis(<i>N</i> , <i>N</i> ′-dimethylacetamide) with U(VI), Nd(III), and Np(V): A Thermodynamic and Structural Study. Inorganic Chemistry, 2019, 58, 15962-15970.	4.0	10
57	Complexation of neptunium(V) with fluoride in aqueous solutions at elevated temperatures. Journal of Thermal Analysis and Calorimetry, 2009, 95, 415-419.	3.6	9
58	Thermodynamic study of the complexation between Nd ³⁺ and functionalized diacetamide ligands in solution. Dalton Transactions, 2016, 45, 11968-11975.	3.3	9
59	V IV O and V IV Species Formed in Aqueous Solution by the Tridentate Clutaroimide–Dioxime Ligand – An Instrumental and Computational Characterization. European Journal of Inorganic Chemistry, 2018, 2018, 1805-1816.	2.0	9
60	Complexation of thorium(IV) with malonate at variable temperatures. Journal of Alloys and Compounds, 2006, 408-412, 1252-1259.	5.5	7
61	Spectrophotometric and calorimetric studies of Np(V) complexation with sulfate at 10–70°c. Journal of Thermal Analysis and Calorimetry, 2009, 95, 409-413.	3.6	7
62	Complexation of NpO2+ with N-methyl-iminodiacetic acid: a comparison with iminodiacetic and dipicolinic acids. Dalton Transactions, 2010, 39, 9866.	3.3	7
63	Complexation of Np(v) with oxalate at 283–343 K: spectroscopic and microcalorimetric studies. Dalton Transactions, 2012, 41, 448-452.	3.3	6
64	Complexation of NpO ₂ ⁺ with (2-hydroxyethyl)ethylenediaminetriacetic acid (HEDTA) in aqueous solutions: thermodynamic studies and structural analysis. RSC Advances, 2016, 6, 114916-114926.	3.6	6
65	Complexation of U(VI) with picolinic acid in aqueous solution at variable temperatures: Potentiometric, spectrophotometric and calorimetric studies. Journal of Chemical Thermodynamics, 2017, 113, 350-357.	2.0	6
66	Complexation of Th(IV) with sulfate in aqueous solution at 10–70 °C. Journal of Chemical Thermodynamics, 2018, 116, 273-278.	2.0	6
67	Complexation of Light Trivalent Lanthanides with <i>N</i> (2-Hydroxyethyl)ethylenediamine- <i>N</i> , <i>N</i> ′, <i>N</i> ′-triacetic Acid in Aqueous Solutions: Thermodynamic Analysis and Coordination Modes. Inorganic Chemistry, 2019, 58, 15618-15628.	4.0	6