Linfeng Rao

List of Publications by Year
in descending order

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67 papers	2,624 citations	136950 32 h-index	189892 50 g-index
67 all docs	67 docs citations	67 times ranked	1805 citing authors

#	Article	IF	Citations
1	Complexation of Light Trivalent Lanthanides with N-(2-Hydroxyethyl)ethylenediamine-N,Nâ€²,Nâ€²-triacetic Acid in Aqueous Solutions: Thermodynamic Analysis and Coordination Modes. Inorganic Chemistry, 2019, 58, 15618-15628.	4.0	6
2	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
3	Complexation of U(VI) with BiPDA, DmBiPDA, and PhenDA: Comparison on Structures and Binding Strengths in Aqueous and DMSO/20%(v)H₂O Solutions. Inorganic Chemistry, 2019, 58, 6064-6074.	4.0	15
4	Siderophore-inspired chelator hijacks uranium from aqueous medium. Nature Communications, 2019, 10, 819.	12.8	84
5	Coordination of 2,2â€²-(Trifluoroazanediyl)bis(N,Nâ€²-dimethylacetamide) with U(VI), Nd(III), and Np(V): A Thermodynamic and Structural Study. Inorganic Chemistry, 2019, 58, 15962-15970.	4.0	10
6	Interactions of vanadium(<scp>iv</scp>) with amidoxime ligands: redox reactivity. Dalton Transactions, 2018, 47, 5695-5702.	3.3	14
7	Thermodynamic, Structural, and Computational Investigation on the Complexation between UO₂²⁺ and Amine-Functionalized Diacetamide Ligands in Aqueous Solution. Inorganic Chemistry, 2018, 57, 2122-2131.	4.0	21
8	An overview and recent progress in the chemistry of uranium extraction from seawater. Dalton Transactions, 2018, 47, 639-644.	3.3	130
9	V IV O and V IV Species Formed in Aqueous Solution by the Tridentate Glutaroimideâ€“Dioxime Ligand â€“ An Instrumental and Computational Characterization. European Journal of Inorganic Chemistry, 2018, 2018, 1805-1816.	2.0	9
10	Complexation of Th(IV) with sulfate in aqueous solution at 10â€“70 Â°C. Journal of Chemical Thermodynamics, 2018, 116, 273-278.	2.0	6
11	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
12	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
13	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
14	Complexation of Uranium(VI) with N-(2-Hydroxyethyl)ethylenediamine-N,Nâ€²,Nâ€²-triacetic Acid in Aqueous Solution: Thermodynamic Studies and Coordination Analyses. Inorganic Chemistry, 2018, 57, 7684-7693.	4.0	12
15	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
16	Origin of the unusually strong and selective binding of vanadium by polyamidoximes in seawater. Nature Communications, 2017, 8, 1560.	12.8	110
17	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
18	Complexation of NpO₂⁺with (2-hydroxyethyl)ethylenediaminetriacetic acid (HEDTA) in aqueous solutions: thermodynamic studies and structural analysis. RSC Advances, 2016, 6, 114916-114926.	3.6	6

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19	Thermodynamic study of the complexation between Nd³⁺and functionalized diacetamide ligands in solution. Dalton Transactions, 2016, 45, 11968-11975.	3.3	9
20	Complexation of Lanthanides with Glutaroimide-dioxime: Binding Strength and Coordination Modes. Inorganic Chemistry, 2016, 55, 1315-1323.	4.0	19
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	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
23	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
24	Complexation of Curium(III) with DTPA at 10â€“70 Â°C: Comparison with Eu(III)â€“DTPA in Thermodynamics, Luminescence, and Coordination Modes. Inorganic Chemistry, 2015, 54, 1232-1239.	4.0	16
25	Effect of temperature on the protonation of N-(2-hydroxyethyl)ethylenediamine-N,Nâ€²,Nâ€²-triacetic acid in aqueous solutions: Potentiometric and calorimetric studies. Journal of Chemical Thermodynamics, 2015, 85, 35-41.	2.0	13
26	Complexation of uranium(<scp>vi</scp>) with glutarimidoxioxime: thermodynamic and computational studies. Dalton Transactions, 2015, 44, 13835-13844.	3.3	54
27	Complexation of calcium and magnesium with glutarimidedioxime: Implications for the extraction of uranium from seawater. Polyhedron, 2015, 95, 54-59.	2.2	47
28	Surface complexation modeling of neptunium(V) sorption to lepidocrocite (Î³-FeOOH). Radiochimica Acta, 2015, 103, 707-717.	1.2	10
29	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
30	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
31	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
32	Carbonateâ€“H₂O₂ leaching for sequestering uranium from seawater. Dalton Transactions, 2014, 43, 10713-10718.	3.3	74
33	Quantifying the binding strength of U(<scp>vi</scp>) with phthalimidedioxime in comparison with glutarimidedioxime. Dalton Transactions, 2014, 43, 551-557.	3.3	36
34	Structural and Thermodynamic Study of the Complexes of Nd(III) with N,N,Nâ€²,Nâ€²-Tetramethyl-3-oxa-glutaramide and the Acid Analogues. Inorganic Chemistry, 2014, 53, 9477-9485.	4.0	47
35	Chemical Speciation of Uranium(VI) in Marine Environments: Complexation of Calcium and Magnesium Ions with [(UO₂)(CO₃)₃]^{4â^’} and the Effect on the Extraction of Uranium from Seawater. Chemistry - A European Journal, 2014, 20, 14499-14506.	3.3	174
36	Thermodynamic studies of U(vi) complexation with glutardiamidoxime for sequestration of uranium from seawater. Dalton Transactions, 2013, 42, 5690.	3.3	69

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37	Complexation of U(VI) with Dipicolinic Acid: Thermodynamics and Coordination Modes. Inorganic Chemistry, 2013, 52, 2750-2756.	4.0	64
38	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
39	Energetics and Structure of Uranium(VI)â€“Acetate Complexes in Dimethyl Sulfoxide. Inorganic Chemistry, 2012, 51, 9045-9055.	4.0	45
40	Complexation of Np(v) with oxalate at 283â€“343 K: spectroscopic and microcalorimetric studies. Dalton Transactions, 2012, 41, 448-452.	3.3	6
41	Sequestering uranium from seawater: binding strength and modes of uranyl complexes with glutarimidedioxime. Dalton Transactions, 2012, 41, 11579.	3.3	156
42	Optical Spectroscopy Study of Organic-Phase Lanthanide Complexes in the TALSPEAK Separations Process. Inorganic Chemistry, 2012, 51, 6299-6307.	4.0	34
43	Interaction of thorium(iv) with nitrate in aqueous solution: medium effect or weak complexation?. Dalton Transactions, 2011, 40, 9101.	3.3	10
44	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
45	Symmetry, Optical Properties and Thermodynamics of Neptunium(V) Complexes. Symmetry, 2010, 2, 1-14.	2.2	30
46	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
47	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
48	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
49	Complexation of NpO2+ with N-methyl-iminodiacetic acid: a comparison with iminodiacetic and dipicolinic acids. Dalton Transactions, 2010, 39, 9866.	3.3	7
50	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
51	Spectrophotometric and calorimetric studies of Np(V) complexation with sulfate at 10â€“70Â°c. Journal of Thermal Analysis and Calorimetry, 2009, 95, 409-413.	3.6	7
52	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
53	Thermodynamics, Optical Properties, and Coordination Modes of Np(V) with Dipicolinic Acid. Inorganic Chemistry, 2009, 48, 10158-10164.	4.0	39
54	Complexation of Lanthanides with Nitrate at Variable Temperatures: Thermodynamics and Coordination Modes. Inorganic Chemistry, 2009, 48, 964-970.	4.0	57

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55	Complexation of Uranium(VI) by Gluconate in Acidic Solutions: a Thermodynamic Study with Structural Analysis. Inorganic Chemistry, 2009, 48, 3814-3824.	4.0	38
56	Thermodynamic study of the complexation of uranium(VI) with nitrate at variable temperatures. Journal of Chemical Thermodynamics, 2008, 40, 1001-1006.	2.0	35
57	Symmetry and optical spectra: a â€œsilentâ€•1 : 2 Np(v)â€“oxydiacetate complex. Chemical Communications, 2007, , 4119.	4.1	26
58	Thermodynamics of actinide complexation in solution at elevated temperatures: application of variable-temperature titration calorimetry. Chemical Society Reviews, 2007, 36, 881.	38.1	39
59	Complexation of plutonium(IV) with sulfate at variable temperatures. Journal of Radioanalytical and Nuclear Chemistry, 2007, 274, 79-86.	1.5	14
60	Complexation of thorium(IV) with malonate at variable temperatures. Journal of Alloys and Compounds, 2006, 408-412, 1252-1259.	5.5	7
61	Optical Absorption and Structure of a Highly Symmetrical Neptunium(V) Diamide Complex. Angewandte Chemie - International Edition, 2005, 44, 6200-6203.	13.8	70
62	Extraction of Actinide(III, IV, V, VI) Ions and TcO 4 â¯ by N,N,Nâ€²,Nâ€²â€Tetraisobutylâ€3â€Oxaâ€Glutaramide. Solvent Extraction and Ion Exchange, 2005, 23, 631-643.	2.0	50
63	Complexation of thorium(iv) with acetate at variable temperatures. Dalton Transactions, 2004, , 2867.	3.3	19
64	Hydrolysis of Uranium(VI) at Variable Temperatures (10â¯85 Â°C). Journal of the American Chemical Society, 2004, 126, 5515-5522.	13.7	110
65	Hydrolysis of neptunium(V) at variable temperatures (10â€“85Â°C). Geochimica Et Cosmochimica Acta, 2004, 68, 4821-4830.	3.9	69
66	Complexation of Uranium(VI) and Samarium(III) with Oxydiacetic Acid:â€‰ Temperature Effect and Coordination Modes. Inorganic Chemistry, 2003, 42, 3685-3692.	4.0	38
67	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