

Linfeng Rao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3292363/publications.pdf>

Version: 2024-02-01

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	Chemical Speciation of Uranium(VI) in Marine Environments: Complexation of Calcium and Magnesium Ions with $[(UO_2)(CO_3)_3]^{4-}$ and the Effect on the Extraction of Uranium from Seawater. <i>Chemistry - A European Journal</i> , 2014, 20, 14499-14506.	3.3	174
2	Sequestering uranium from seawater: binding strength and modes of uranyl complexes with glutarimidedioxime. <i>Dalton Transactions</i> , 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. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4249-4256.	3.7	133
4	An overview and recent progress in the chemistry of uranium extraction from seawater. <i>Dalton Transactions</i> , 2018, 47, 639-644.	3.3	130
5	Hydrolysis of Uranium(VI) at Variable Temperatures (10~85 Å°C). <i>Journal of the American Chemical Society</i> , 2004, 126, 5515-5522.	13.7	110
6	Origin of the unusually strong and selective binding of vanadium by polyamidoximes in seawater. <i>Nature Communications</i> , 2017, 8, 1560.	12.8	110
7	Siderophore-inspired chelator hijacks uranium from aqueous medium. <i>Nature Communications</i> , 2019, 10, 819.	12.8	84
8	Carbonate- H_2O_2 leaching for sequestering uranium from seawater. <i>Dalton Transactions</i> , 2014, 43, 10713-10718.	3.3	74
9	Optical Absorption and Structure of a Highly Symmetrical Neptunium(V) Diamide Complex. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 6200-6203.	13.8	70
10	Hydrolysis of neptunium(V) at variable temperatures (10~85Å°C). <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4821-4830.	3.9	69
11	Thermodynamic studies of U(vi) complexation with glutardiamidoxime for sequestration of uranium from seawater. <i>Dalton Transactions</i> , 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 Oxa-Diamide and Related Ligands. <i>Chemistry - A European Journal</i> , 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. <i>Dalton Transactions</i> , 2013, 42, 14621.	3.3	68
14	Complexation of U(VI) with Dipicolinic Acid: Thermodynamics and Coordination Modes. <i>Inorganic Chemistry</i> , 2013, 52, 2750-2756.	4.0	64
15	Complexation of Lanthanides with Nitrate at Variable Temperatures: Thermodynamics and Coordination Modes. <i>Inorganic Chemistry</i> , 2009, 48, 964-970.	4.0	57
16	Complexation of uranium(U^{VI}) with glutarimidoxime: thermodynamic and computational studies. <i>Dalton Transactions</i> , 2015, 44, 13835-13844.	3.3	54
17	Extraction of Actinide(III, IV, V, VI) Ions and TcO_4^- by N,N,N',N'-Tetraisobutyl-Oxa-Glutaramide. <i>Solvent Extraction and Ion Exchange</i> , 2005, 23, 631-643.	2.0	50
18	Complexation of Lactate with Neodymium(III) and Europium(III) at Variable Temperatures: Studies by Potentiometry, Microcalorimetry, Optical Absorption, and Luminescence Spectroscopy. <i>Inorganic Chemistry</i> , 2010, 49, 10598-10605.	4.0	49

#	ARTICLE	IF	CITATIONS
37	Thermodynamic, Structural, and Computational Investigation on the Complexation between UO_2^{2+} and Amine-Functionalized Diacetamide Ligands in Aqueous Solution. <i>Inorganic Chemistry</i> , 2018, 57, 2122-2131.	4.0	21
38	Complexation of thorium(IV) with acetate at variable temperatures. <i>Dalton Transactions</i> , 2004, , 2867.	3.3	19
39	Complexation of Lanthanides with Glutaroimide-dioxime: Binding Strength and Coordination Modes. <i>Inorganic Chemistry</i> , 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. <i>Analytical Chemistry</i> , 2019, 91, 9690-9697.	6.5	19
41	Complexation-assisted reduction: complexes of glutaroimide-dioxime with tetravalent actinides ($\text{Np}(\text{IV})$ and $\text{Th}(\text{IV})$). <i>Dalton Transactions</i> , 2018, 47, 8134-8141.	3.3	17
42	Complexation of Curium(III) with DTPA at $10 \pm 70^\circ\text{C}$: Comparison with $\text{Eu}(\text{III})$ -DTPA in Thermodynamics, Luminescence, and Coordination Modes. <i>Inorganic Chemistry</i> , 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. <i>Inorganic Chemistry</i> , 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/v) H_2O Solutions. <i>Inorganic Chemistry</i> , 2019, 58, 6064-6074.	4.0	15
45	Complexation of plutonium(IV) with sulfate at variable temperatures. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2007, 274, 79-86.	1.5	14
46	Effect of temperature on the complexation of NpO_2^{2+} with benzoic acid: Spectrophotometric and calorimetric studies. <i>Journal of Chemical Thermodynamics</i> , 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. <i>Dalton Transactions</i> , 2017, 46, 11084-11096.	3.3	14
48	Interactions of vanadium(IV) with amidoxime ligands: redox reactivity. <i>Dalton Transactions</i> , 2018, 47, 5695-5702.	3.3	14
49	Complexation of $\text{Np}(\text{V})$ Ions with 1,10-Phenanthroline-9,10-dicarboxylic Acid: Spectrophotometric and Microcalorimetric Studies. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5561-5566.	2.0	13
50	Effect of temperature on the protonation of N-(2-hydroxyethyl)ethylenediamine-N,N'-triacetic acid in aqueous solutions: Potentiometric and calorimetric studies. <i>Journal of Chemical Thermodynamics</i> , 2015, 85, 35-41.	2.0	13
51	Effect of temperature on the thermodynamic and spectroscopic properties of $\text{Np}(\text{V})$ complexes with picolinate. <i>RSC Advances</i> , 2015, 5, 75483-75490.	3.6	12
52	Complexation of Uranium(VI) with N-(2-Hydroxyethyl)ethylenediamine-N,N'-triacetic Acid in Aqueous Solution: Thermodynamic Studies and Coordination Analyses. <i>Inorganic Chemistry</i> , 2018, 57, 7684-7693.	4.0	12
53	Interaction of thorium(IV) with nitrate in aqueous solution: medium effect or weak complexation?. <i>Dalton Transactions</i> , 2011, 40, 9101.	3.3	10
54	Surface complexation modeling of neptunium(V) sorption to lepidocrocite (Fe^{3+} - FeOOH). <i>Radiochimica Acta</i> , 2015, 103, 707-717.	1.2	10

#	ARTICLE	IF	CITATIONS
55	Complexation of NpO_2^{2+} with Amine-Functionalized Diacetamide Ligands in Aqueous Solution: Thermodynamic, Structural, and Computational Studies. <i>Inorganic Chemistry</i> , 2018, 57, 6965-6972.	4.0	10
56	Coordination of 2,2-(Trifluoroazanediy)bis(<i>N,N</i> -dimethylacetamide) with U(VI), Nd(III), and Np(V): A Thermodynamic and Structural Study. <i>Inorganic Chemistry</i> , 2019, 58, 15962-15970.	4.0	10
57	Complexation of neptunium(V) with fluoride in aqueous solutions at elevated temperatures. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 415-419.	3.6	9
58	Thermodynamic study of the complexation between Nd^{3+} and functionalized diacetamide ligands in solution. <i>Dalton Transactions</i> , 2016, 45, 11968-11975.	3.3	9
59	V IV O and V IV Species Formed in Aqueous Solution by the Tridentate Glutaroimide "Dioxime Ligand" An Instrumental and Computational Characterization. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 1805-1816.	2.0	9
60	Complexation of thorium(IV) with malonate at variable temperatures. <i>Journal of Alloys and Compounds</i> , 2006, 408-412, 1252-1259.	5.5	7
61	Spectrophotometric and calorimetric studies of Np(V) complexation with sulfate at $10 \pm 70^\circ\text{C}$. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009, 95, 409-413.	3.6	7
62	Complexation of NpO_2^{2+} with N-methyl-iminodiacetic acid: a comparison with iminodiacetic and dipicolinic acids. <i>Dalton Transactions</i> , 2010, 39, 9866.	3.3	7
63	Complexation of Np(v) with oxalate at $283 \pm 343\text{ K}$: spectroscopic and microcalorimetric studies. <i>Dalton Transactions</i> , 2012, 41, 448-452.	3.3	6
64	Complexation of NpO_2^{2+} with (2-hydroxyethyl)ethylenediaminetriacetic acid (HEDTA) in aqueous solutions: thermodynamic studies and structural analysis. <i>RSC Advances</i> , 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. <i>Journal of Chemical Thermodynamics</i> , 2017, 113, 350-357.	2.0	6
66	Complexation of Th(IV) with sulfate in aqueous solution at $10 \pm 70^\circ\text{C}$. <i>Journal of Chemical Thermodynamics</i> , 2018, 116, 273-278.	2.0	6
67	Complexation of Light Trivalent Lanthanides with <i>N,N</i> -(2-Hydroxyethyl)ethylenediamine- <i>N,N'</i> -(<i>N,N'</i> -triacetic Acid in Aqueous Solutions: Thermodynamic Analysis and Coordination Modes. <i>Inorganic Chemistry</i> , 2019, 58, 15618-15628.	4.0	6