

Peter R Zalupski

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Transient Radiation-Induced Berkelium(III) and Californium(III) Redox Chemistry in Aqueous Solution. <i>Inorganic Chemistry</i> , 2022, 61, 10822-10832.	1.9	3
2	Radiation-induced effects on the extraction properties of hexa- <i>n</i> -octylnitrilo-triacetamide (HONTA) complexes of americium and europium. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1343-1351.	1.3	15
3	Curium(^{III}) radiation-induced reaction kinetics in aqueous media. <i>Dalton Transactions</i> , 2021, 50, 10853-10859.	1.6	5
4	Complexation of Lanthanides and Heavy Actinides with Aqueous Sulfur-Donating Ligands. <i>Inorganic Chemistry</i> , 2021, 60, 6125-6134.	1.9	15
5	Aminopolycarboxylates in trivalent f-element separations. <i>Fundamental Theories of Physics</i> , 2021, 60, 1-162.	0.1	2
6	Exploring Soft Donor Character of the N-2-Pyrazinylmethyl Group by Coordinating Trivalent Actinides and Lanthanides Using Aminopolycarboxylates. <i>Inorganic Chemistry</i> , 2020, 59, 138-150.	1.9	10
7	Radiolytic degradation of formic acid and formate in aqueous solution: modeling the final stages of organic mineralization under advanced oxidation process conditions. <i>Water Research</i> , 2020, 186, 116314.	5.3	7
8	Dataset and kinetic model reaction compilation for the radical-induced degradation of formic acid and formate in aqueous solution. <i>Data in Brief</i> , 2020, 32, 106271.	0.5	0
9	Does addition of 1-octanol as a phase modifier provide radical scavenging radioprotection for <i>N,N,N',N''</i> -tetraoctyldiglycolamide (TODGA)? <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 24978-24985.	1.3	12
10	Influence of a Pre-organized N-Donor Group on the Coordination of Trivalent Actinides and Lanthanides by an Aminopolycarboxylate Complexant. <i>Chemistry - A European Journal</i> , 2019, 25, 2545-2555.	1.7	8
11	Synthesis and characterization of a novel aminopolycarboxylate complexant for efficient trivalent f-element differentiation: N-butyl-2-acetamide-diethylenetriamine-N,N,N',N''-tetraacetic acid. <i>Dalton Transactions</i> , 2018, 47, 1092-1105.	1.6	10
12	Influence of a Heterocyclic Nitrogen-Donor Group on the Coordination of Trivalent Actinides and Lanthanides by Aminopolycarboxylate Complexants. <i>Inorganic Chemistry</i> , 2018, 57, 1373-1385.	1.9	23
13	Thermodynamic, Spectroscopic, and Computational Studies of f-Element Complexation by <i>N,N,N',N''</i> -Hydroxyethyl-diethylenetriamine- <i>N,N,N',N''</i> - <i>N,N,N',N''</i> -tetraacetic Acid. <i>Inorganic Chemistry</i> , 2017, 56, 1722-1733.	1.9	19
14	Optical Absorption Characteristics For ⁵ L ₆ ' and ⁷ F ₆ ' Transitions of Trivalent Americium Ion in Aqueous Electrolyte Mixtures. <i>Applied Spectroscopy</i> , 2017, 71, 2608-2615.	1.2	22
15	The Chemistry of Separations Ligand Degradation by Organic Radical Cations. <i>Procedia Chemistry</i> , 2016, 21, 61-65.	0.7	14
16	Thermodynamic and Spectroscopic Studies of Trivalent f-element Complexation with Ethylenediamine- <i>N,N,N',N''</i> -di(acetylglycine)- <i>N,N,N',N''</i> -diacetic Acid. <i>Inorganic Chemistry</i> , 2016, 55, 2977-2985.	1.9	18
17	Coordination Chemistry and f-Element Complexation by Diethylenetriamine- <i>N,N,N',N''</i> -bis(acetylglycine)- <i>N,N,N',N''</i> -triacetic Acid. <i>Inorganic Chemistry</i> , 2016, 55, 11600-11611.	1.9	18
18	Ion Interaction Models and Measurements of Eu ³⁺ Complexation: HEDTA in Aqueous Solutions at 25 °C Containing 1:1 Na ⁺ Salts and Citrate pH Buffer. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2083-2096.	1.8	4

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19	Ion Interaction Models and Measurements of Eu ³⁺ Complexation: DTPA in Aqueous Solutions at 25 °C Containing 1:1 Na ⁺ Salts and Malonate pH Buffer. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 2097-2118.	1.8	1
20	Complete Recovery of Actinides from UREX-like Raffinates Using a Combination of Hard and Soft Donor Ligands. II. Soft Donor Structure Variation. <i>Solvent Extraction and Ion Exchange</i> , 2015, 33, 523-539.	0.8	4
21	The Adsorption of Gold, Palladium, and Platinum from Acidic Chloride Solutions on Mesoporous Carbons. <i>Solvent Extraction and Ion Exchange</i> , 2014, 32, 737-748.	0.8	21
22	Features of the Thermodynamics of Trivalent Lanthanide/Actinide Distribution Reactions by Tri- <i>n</i> -octylphosphine Oxide and Bis(2-ethylhexyl) Phosphoric Acid. <i>Journal of Physical Chemistry B</i> , 2014, 118, 12725-12733.	1.2	11
23	Isopiestic Determination of the Osmotic Coefficients of NaNO ₃ + Eu(NO ₃) ₃ + H ₂ O at 298.15 K and Representation with an Extended Ion-Interaction (Pitzer) Model. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 1574-1582.	1.0	7
24	Complete Recovery of Actinides from UREX-like Raffinates using a Combination of Hard and Soft Donor Ligands. <i>Solvent Extraction and Ion Exchange</i> , 2013, 31, 430-441.	0.8	11
25	Determination of Activity Coefficients of di-(2-ethylhexyl) Phosphoric Acid Dimer in Select Organic Solvents Using Vapor Phase Osmometry. <i>Solvent Extraction and Ion Exchange</i> , 2013, 31, 550-563.	0.8	4
26	Understanding the Solution Behavior of Minor Actinides in the Presence of EDTA ⁴⁻ , Carbonate, and Hydroxide Ligands. <i>Inorganic Chemistry</i> , 2013, 52, 3728-3737.	1.9	11
27	Activity Coefficients of di-(2-ethylhexyl) Phosphoric Acid in Select Diluents. <i>Procedia Chemistry</i> , 2012, 7, 209-214.	0.7	5
28	Toward understanding the thermodynamics of TALSPEAK process. Medium effects on actinide complexation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 9, 012076.	0.3	3
29	Redox-Based Separation of Americium from Lanthanides in Sulfate Media. <i>Separation Science and Technology</i> , 2010, 45, 1743-1752.	1.3	15
30	Thermodynamic Features of the Complexation of Neodymium(III) and Americium(III) by Lactate in Trifluoromethanesulfonate Media. <i>Journal of Solution Chemistry</i> , 2010, 39, 1213-1229.	0.6	20
31	Thermodynamics of Cesium Extraction from Acidic Media by HCCD and PEG. <i>Solvent Extraction and Ion Exchange</i> , 2010, 28, 563-578.	0.8	16
32	Two-Phase Calorimetry. II. Studies on the Thermodynamics of Cesium and Strontium Extraction by Mixtures of H ⁺ CCD ⁺ and PEG-400 in FS-13. <i>Solvent Extraction and Ion Exchange</i> , 2010, 28, 161-183.	0.8	19
33	Two-Phase Calorimetry. I. Studies on the Thermodynamics of Lanthanide Extraction by Bis(2-EthylHexyl) Phosphoric Acid. <i>Solvent Extraction and Ion Exchange</i> , 2008, 26, 514-533.	0.8	23
34	Recent Progress in the Development of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: Solubility Enhancement through Silicon Functionalization. <i>ACS Symposium Series</i> , 2006, , 250-267.	0.5	0
35	Acid-Base and Organic-Water Distribution Equilibria for Symmetrically Substituted P,P'-Dialkyl Alkylenebisphosphonic Acids. <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 177-195.	0.8	4
36	Metal Extraction by Sulfur-Containing Symmetrically Substituted Bisphosphonic Acids. Part I. P,P'-di(2-Ethylhexyl) Methylenebis-thio-Phosphonic Acid. <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 331-346.	0.8	6

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37	Investigation of Acid-Base Equilibria for Symmetrically Substituted P,P'-Dialkyl Partial Esters of Bisphosphonic Acids. <i>Journal of Solution Chemistry</i> , 2005, 34, 869-880.	0.6	3
38	Application of Molecular Connectivity Indices to the Design of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: SC-CO ₂ Solubilities of Symmetrically Substituted Alkylenediphosphonic Acids. <i>Separation Science and Technology</i> , 2005, 39, 761-780.	1.3	4
39	Degradation Pathway and Generation of Monohydroxamic Acids from the Trihydroxamate Siderophore Deferrioxamine B. <i>Applied and Environmental Microbiology</i> , 2004, 70, 831-836.	1.4	26
40	Polyethylene glycol penetration into clay films: real time experiments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2004, 238, 141-149.	2.3	6
41	An Investigation of Ester Group Steric Effects on Metal Ion Extraction by Symmetrically Substituted Methylenebisphosphonic Acids. <i>Solvent Extraction and Ion Exchange</i> , 2004, 22, 89-103.	0.8	7
42	Metal Extraction by Silyl-Substituted Diphosphonic Acids. III. Ester Group Substituent Effects on Phosphoryl Oxygen Basicity. <i>Solvent Extraction and Ion Exchange</i> , 2003, 21, 331-345.	0.8	10
43	EXTRACTION OF ALKALINE EARTH AND ACTINIDE CATIONS BY MIXTURES OF DI(2-ETHYLHEXYL) ALKYLENEDIPHOSPHONIC ACIDS AND NEUTRAL SYNERGISTS. <i>Solvent Extraction and Ion Exchange</i> , 2002, 20, 447-469.	0.8	12
44	Metal extraction by silyl-substituted diphosphonic acids. II. Effect of alkylene bridge length on aggregation and metal ion extraction behavior. <i>Separation Science and Technology</i> , 2002, 37, 2289-2315.	1.3	13
45	Facile high yielding synthesis of symmetric esters of methylenebisphosphonic acid. <i>Tetrahedron</i> , 2001, 57, 8637-8645.	1.0	34