

Peter R Zalupski

List of Publications by Year in descending order

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491
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Facile high yielding synthesis of symmetric esters of methylenebisphosphonic acid. <i>Tetrahedron</i> , 2001, 57, 8637-8645. | 1.9 | 34 |
| 2 | Degradation Pathway and Generation of Monohydroxamic Acids from the Trihydroxamate Siderophore Deferrioxamine B. <i>Applied and Environmental Microbiology</i> , 2004, 70, 831-836. | 3.1 | 26 |
| 3 | 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. | 2.0 | 23 |
| 4 | 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. | 4.0 | 23 |
| 5 | Optical Absorption Characteristics For f^5L_6' and f^6F_6' Transitions of Trivalent Americium Ion in Aqueous Electrolyte Mixtures. <i>Applied Spectroscopy</i> , 2017, 71, 2608-2615. | 2.2 | 22 |
| 6 | 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. | 2.0 | 21 |
| 7 | 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. | 1.2 | 20 |
| 8 | Two-Phase Calorimetry. II. Studies on the Thermodynamics of Cesium and Strontium Extraction by Mixtures of H ₂ CCD and PEG-400 in FS-13. <i>Solvent Extraction and Ion Exchange</i> , 2010, 28, 161-183. | 2.0 | 19 |
| 9 | Thermodynamic, Spectroscopic, and Computational Studies of f-Element Complexation by N-Hydroxyethyl-diethylenetriamine-N,N'-diacetic Acid. <i>Inorganic Chemistry</i> , 2017, 56, 1722-1733. | 4.0 | 19 |
| 10 | Thermodynamic and Spectroscopic Studies of Trivalent f-element Complexation with Ethylenediamine-N,N'-di(acetylglycine)-N,N'-diacetic Acid. <i>Inorganic Chemistry</i> , 2016, 55, 2977-2985. | 4.0 | 18 |
| 11 | Coordination Chemistry and f-Element Complexation by Diethylenetriamine-N,N'-bis(acetylglycine)-N,N'-diacetic Acid. <i>Inorganic Chemistry</i> , 2016, 55, 11600-11611. | 4.0 | 18 |
| 12 | Thermodynamics of Cesium Extraction from Acidic Media by HCCD and PEG. <i>Solvent Extraction and Ion Exchange</i> , 2010, 28, 563-578. | 2.0 | 16 |
| 13 | Redox-Based Separation of Americium from Lanthanides in Sulfate Media. <i>Separation Science and Technology</i> , 2010, 45, 1743-1752. | 2.5 | 15 |
| 14 | Radiation-induced effects on the extraction properties of hexa-n-octyltrilo-triacetamide (HONTA) complexes of americium and europium. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1343-1351. | 2.8 | 15 |
| 15 | Complexation of Lanthanides and Heavy Actinides with Aqueous Sulfur-Donating Ligands. <i>Inorganic Chemistry</i> , 2021, 60, 6125-6134. | 4.0 | 15 |
| 16 | The Chemistry of Separations Ligand Degradation by Organic Radical Cations. <i>Procedia Chemistry</i> , 2016, 21, 61-65. | 0.7 | 14 |
| 17 | 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. | 2.5 | 13 |
| 18 | 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. | 2.0 | 12 |

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|----|--|------|-----------|
| 19 | Does addition of 1-octanol as a phase modifier provide radical scavenging radioprotection for $^{226}\text{Ra}^{2+}$ -tetractyldiglycolamide (TODGA)? Physical Chemistry Chemical Physics, 2020, 22, 24978-24985. | 2.8 | 12 |
| 20 | Complete Recovery of Actinides from UREX-like Raffinates using a Combination of Hard and Soft Donor Ligands. Solvent Extraction and Ion Exchange, 2013, 31, 430-441. | 2.0 | 11 |
| 21 | Understanding the Solution Behavior of Minor Actinides in the Presence of EDTA ⁴⁻ , Carbonate, and Hydroxide Ligands. Inorganic Chemistry, 2013, 52, 3728-3737. | 4.0 | 11 |
| 22 | Features of the Thermodynamics of Trivalent Lanthanide/Actinide Distribution Reactions by Tri- <i>n</i> -octylphosphine Oxide and Bis(2-ethylhexyl) Phosphoric Acid. Journal of Physical Chemistry B, 2014, 118, 12725-12733. | 2.6 | 11 |
| 23 | Metal Extraction by Silyl-Substituted Diphosphonic Acids. III. Ester Group Substituent Effects on Phosphoryl Oxygen Basicity. Solvent Extraction and Ion Exchange, 2003, 21, 331-345. | 2.0 | 10 |
| 24 | Synthesis and characterization of a novel aminopolycarboxylate complexant for efficient trivalent f-element differentiation: N-butyl-2-acetamide-diethylenetriamine-N,N,N'-triacetate-tetraacetic acid. Dalton Transactions, 2018, 47, 1092-1105. | 3.3 | 10 |
| 25 | Exploring Soft Donor Character of the N-2-Pyrazinylmethyl Group by Coordinating Trivalent Actinides and Lanthanides Using Aminopolycarboxylates. Inorganic Chemistry, 2020, 59, 138-150. | 4.0 | 10 |
| 26 | Influence of a Pre-Organized N-Donor Group on the Coordination of Trivalent Actinides and Lanthanides by an Aminopolycarboxylate Complexant. Chemistry - A European Journal, 2019, 25, 2545-2555. | 3.3 | 8 |
| 27 | An Investigation of Ester Group Steric Effects on Metal Ion Extraction by Symmetrically Substituted Methylenebisphosphonic Acids. Solvent Extraction and Ion Exchange, 2004, 22, 89-103. | 2.0 | 7 |
| 28 | Isopiestic Determination of the Osmotic Coefficients of $\text{NaNO}_3 + \text{Eu}(\text{NO}_3)_3 + \text{H}_2\text{O}$ at 298.15 K and Representation with an Extended Ion-Interaction (Pitzer) Model. Journal of Chemical & Engineering Data, 2014, 59, 1574-1582. | 1.9 | 7 |
| 29 | Radiolytic degradation of formic acid and formate in aqueous solution: modeling the final stages of organic mineralization under advanced oxidation process conditions. Water Research, 2020, 186, 116314. | 11.3 | 7 |
| 30 | Polyethylene glycol penetration into clay films: real time experiments. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 238, 141-149. | 4.7 | 6 |
| 31 | Metal Extraction by Sulfur-Containing Symmetrically-Substituted Bisphosphonic Acids. Part I. P,N-di(2-ethylhexyl) Methylenebisphosphonic Acid. Solvent Extraction and Ion Exchange, 2006, 24, 331-346. | 2.0 | 6 |
| 32 | Activity Coefficients of di-(2-ethylhexyl) Phosphoric Acid in Select Diluents. Procedia Chemistry, 2012, 7, 209-214. | 0.7 | 5 |
| 33 | Curium(^{244}Cm) radiation-induced reaction kinetics in aqueous media. Dalton Transactions, 2021, 50, 10853-10859. | 3.3 | 5 |
| 34 | Application of Molecular Connectivity Indices to the Design of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: SCCO_2 Solubilities of Symmetrically Substituted Alkylenediphosphonic Acids. Separation Science and Technology, 2005, 39, 761-780. | 2.5 | 4 |
| 35 | Acid-Base and Organic-Water Distribution Equilibria for Symmetrically-Substituted P,N-Dialkyl Alkylenebisphosphonic Acids. Solvent Extraction and Ion Exchange, 2006, 24, 177-195. | 2.0 | 4 |
| 36 | Determination of Activity Coefficients of di-(2-ethylhexyl) Phosphoric Acid Dimer in Select Organic Solvents Using Vapor Phase Osmometry. Solvent Extraction and Ion Exchange, 2013, 31, 550-563. | 2.0 | 4 |

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|----|---|-----|-----------|
| 37 | Complete Recovery of Actinides from UREX-like Raffinates Using a Combination of Hard and Soft Donor Ligands. II. Soft Donor Structure Variation. Solvent Extraction and Ion Exchange, 2015, 33, 523-539. | 2.0 | 4 |
| 38 | 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. Industrial & Engineering Chemistry Research, 2016, 55, 2083-2096. | 3.7 | 4 |
| 39 | Investigation of Acid-Base Equilibria for Symmetrically Substituted P,N-Dialkyl Partial Esters of Bisphosphonic Acids. Journal of Solution Chemistry, 2005, 34, 869-880. | 1.2 | 3 |
| 40 | Toward understanding the thermodynamics of TALSPEAK process. Medium effects on actinide complexation. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012076. | 0.6 | 3 |
| 41 | Transient Radiation-Induced Berkelium(III) and Californium(III) Redox Chemistry in Aqueous Solution. Inorganic Chemistry, 2022, 61, 10822-10832. | 4.0 | 3 |
| 42 | Aminopolycarboxylates in trivalent f-element separations. Fundamental Theories of Physics, 2021, 60, 1-162. | 0.3 | 2 |
| 43 | 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. Industrial & Engineering Chemistry Research, 2016, 55, 2097-2118. | 3.7 | 1 |
| 44 | Recent Progress in the Development of Supercritical Carbon Dioxide-Soluble Metal Ion Extractants: Solubility Enhancement through Silicon Functionalization. ACS Symposium Series, 2006, , 250-267. | 0.5 | 0 |
| 45 | Dataset and kinetic model reaction compilation for the radical-induced degradation of formic acid and formate in aqueous solution. Data in Brief, 2020, 32, 106271. | 1.0 | 0 |