

# Richard E Wilson

## List of Publications by Year in descending order

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57  
papers

1,819  
citations

257450

24  
h-index

276875

41  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1424  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Reactions of Neptunium(V) in Alkali-Metal Hydroxides. <i>Inorganic Chemistry</i> , 2021, 60, 17480-17486.  | 4.0  | 3         |
| 2  | Applications of Alkali Metal Hydroxide Hydrofluxes to the Synthesis of Single-Crystal Ternary Actinide Oxides. <i>Chemistry - A European Journal</i> , 2020, 26, 1497-1500.  | 3.3  | 2         |
| 3  | Hydrolysis of Metal Dioxides Differentiates d-block from f-block Elements: Pa(V) as a 6d Transition Metal; Pr(V) as a 4f $\epsilon$ -Lanthanide. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9272-9287.  | 2.5  | 6         |
| 4  | Thiocyanate complexes of the lanthanides, Am and Cm. <i>Chemical Communications</i> , 2020, 56, 2622-2625.   | 4.1  | 20        |
| 5  | An extremely durable redox shuttle additive for overcharge protection of lithium-ion batteries. <i>Materials Today Energy</i> , 2019, 13, 308-311.   | 4.7  | 13        |
| 6  | Molecular Hydroxo-Bridged Dimers of Uranium(VI), Neptunium(VI), and Plutonium(VI): $[\text{Me}_{4}\text{N}]_{2}[(\text{AnO})_{2}(\text{OH})_{2}(\text{NO})_{3}]_{2}$ . <i>Inorganic Chemistry</i> , 2019, 58, 3203-3210.   | 4.0  | 10        |
| 7  | Synthesis, Structure, and Vibrational Properties of $[\text{Ph}_{4}\text{P}]_{2}\text{NpO}_{2}\text{Cl}_{4}$ and $[\text{Ph}_{4}\text{P}]_{2}\text{PuO}_{2}\text{Cl}_{4}$ Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 3008-3016.   | 4.0  | 19        |
| 8  | Protactinium and the intersection of actinide and transition metal chemistry. <i>Nature Communications</i> , 2018, 9, 622.   | 12.8 | 27        |
| 9  | Revealing Disparate Chemistries of Protactinium and Uranium. Synthesis of the Molecular Uranium Tetroxide Anion, $\text{UO}_{4}^{\ominus}$ . <i>Inorganic Chemistry</i> , 2017, 56, 3686-3694.   | 4.0  | 14        |
| 10 | Phase Transitions in Tetramethylammonium Hexachlorometalate Compounds (TMA) $2\text{MCl}_{6}$ (M = U, Np, Pu). <i>Journal of Physical Chemistry B</i> , 2017, 21, 1000-1008.   | 2.0  | 13        |
| 11 | Structural and Electronic Properties of Fluoride Complexes of Nb V, Ta V, and Pa V: The Influence of Relativistic Effects on Group V Elements. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 5467-5476.   | 2.0  | 8         |
| 12 | Coordination Chemistry of Homoleptic Actinide(IV) Thiocyanate Complexes. <i>Chemistry - A European Journal</i> , 2015, 21, 15575-15582.  | 3.3  | 16        |
| 13 | Structure, Phase Transitions, and Isotope Effects in $[(\text{CH}_{3})_{4}\text{N}]_{2}\text{PuCl}_{6}$ . <i>Inorganic Chemistry</i> , 2015, 54, 10208-10213.  | 4.0  | 10        |
| 14 | Elucidating Protactinium Hydrolysis: The Relative Stabilities of $\text{PaO}_{2}(\text{H}_{2}\text{O})^{+}$ and $\text{PaO}(\text{OH})_{2}^{+}$ . <i>Inorganic Chemistry</i> , 2015, 54, 7474-7480.  | 4.0  | 27        |
| 15 | EXAFS Study of the Speciation of Protactinium(V) in Aqueous Hydrofluoric Acid Solutions. <i>Inorganic Chemistry</i> , 2014, 53, 12643-12649.   | 4.0  | 17        |
| 16 | Retrieval and purification of an aged $^{231}\text{Pa}$ source from its decay daughters. <i>Radiochimica Acta</i> , 2014, 102, 505-511.  | 1.2  | 9         |
| 17 | Supramolecular Interactions in $\text{PuO}_{2}\text{Cl}_{4} \cdot 2\text{H}_{2}\text{O}$ and $\text{PuCl}_{6} \cdot 2\text{H}_{2}\text{O}$ Complexes with Protonated Pyridines: Synthesis, Crystal Structures, and Raman Spectroscopy. <i>Inorganic Chemistry</i> , 2014, 53, 383-392. | 4.0  | 33        |
| 18 | Structural and Spectroscopic Studies of Fluoroprotactinates. <i>Inorganic Chemistry</i> , 2014, 53, 1750-1755.   | 4.0  | 15        |

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|----|--|------|-----------|
| 19 | Lattice Solvent and Crystal Phase Effects on the Vibrational Spectra of $\text{UO}_2\text{Cl}_4 \cdot 2\text{H}_2\text{O}$ . <i>Inorganic Chemistry</i> , 2014, 53, 11036-11045.   | 4.0  | 28        |
| 20 | Series of Uranyl-4,4'-biphenyldicarboxylates and an Occurrence of a Cation-Cation Interaction: Hydrothermal Synthesis and in Situ Raman Studies. <i>Inorganic Chemistry</i> , 2013, 52, 9487-9495.                         | 4.0  | 34        |
| 21 | Structural and Vibrational Properties of $\text{U(VI)O}_2\text{Cl}_4 \cdot 2\text{H}_2\text{O}$ and $\text{Pu(VI)O}_2\text{Cl}_4 \cdot 2\text{H}_2\text{O}$ Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 14138-14147. | 4.0  | 50        |
| 22 | Surface-Mediated Formation of Pu(IV) Nanoparticles at the Muscovite-Electrolyte Interface. <i>Environmental Science &amp; Technology</i> , 2013, 47, 14178-14184.  | 10.0 | 27        |
| 23 | Adsorption of Plutonium Oxide Nanoparticles. <i>Langmuir</i> , 2012, 28, 2620-2627.  | 3.5  | 27        |
| 24 | Uranium(IV) Sulfates: Investigating Structural Periodicity in the Tetravalent Actinides. <i>Inorganic Chemistry</i> , 2012, 51, 9481-9490.   | 4.0  | 22        |
| 25 | Sorption of tetravalent thorium on muscovite. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 88, 66-76.  | 3.9  | 28        |
| 26 | Peculiar protactinium. <i>Nature Chemistry</i> , 2012, 4, 586-586.   | 13.6 | 15        |
| 27 | Structural Periodicity in the Coordination Chemistry of Aqueous Pu(IV) Sulfates. <i>Inorganic Chemistry</i> , 2012, 51, 8942-8947.   | 4.0  | 7         |
| 28 | Synthesis and Characterization of Thorium(IV) Sulfates. <i>Inorganic Chemistry</i> , 2011, 50, 8621-8629.  | 4.0  | 31        |
| 29 | Structural Correspondence between Uranyl Chloride Complexes in Solution and Their Stability Constants. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4959-4967.  | 2.5  | 51        |
| 30 | Structural Periodicity in Plutonium(IV) Sulfates. <i>Inorganic Chemistry</i> , 2011, 50, 5663-5670.  | 4.0  | 25        |
| 31 | Plutonium uptake and distribution in mammalian cells: Molecular vs. polymeric plutonium. <i>International Journal of Radiation Biology</i> , 2011, 87, 1023-1032.  | 1.8  | 18        |
| 32 | Thorium(IV) Molecular Clusters with a Hexanuclear Th Core. <i>Inorganic Chemistry</i> , 2011, 50, 9696-9704.   | 4.0  | 127       |
| 33 | Structural Studies Coupling X-ray Diffraction and High-Energy X-ray Scattering in the $\text{UO}_2\text{H}_2\text{O}$ System. <i>Inorganic Chemistry</i> , 2011, 50, 10748-10754.  | 4.0  | 21        |
| 34 | Separation of Plutonium Oxide Nanoparticles and Colloids. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11234-11237.  | 13.8 | 73        |
| 35 | Exploitation of the sorptive properties of mica for the preparation of higher-resolution alpha-spectroscopy samples. <i>Radiochimica Acta</i> , 2010, 98, 431-436.   | 1.2  | 11        |
| 36 | Interaction of muscovite (001) with $\text{Pu}^{3+}$ bearing solutions at pH 3 through ex-situ observations. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6984-6995.   | 3.9  | 15        |

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|----|---|------|-----------|
| 37 | Structures and Energetics of Erbium Chloride Complexes in Aqueous Solution. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6391-6397.  | 2.5  | 46        |
| 38 | The Structure of the Plutonium Oxide Nanocluster $[\text{Pu}_{38}\text{O}_{56}\text{Cl}_{54}(\text{H}_2\text{O})_8]^{\text{14+}}$ . <i>Angewandte Chemie - International Edition</i> , 2008, 47, 298-302.                             | 13.8 | 179       |
| 39 | An Open-Framework Thorium Sulfate Hydrate with 11.5 Å <sup>3</sup> Voids. <i>Inorganic Chemistry</i> , 2008, 47, 9321-9326.   | 4.0  | 42        |
| 40 | The relationship of monodentate and bidentate coordinated uranium(VI) sulfate in aqueous solution. <i>Radiochimica Acta</i> , 2008, 96, 607-611.  | 1.2  | 31        |
| 41 | Quantifying structural damage from self-irradiation in a plutonium superconductor. <i>Physical Review B</i> , 2007, 76, .   | 3.2  | 19        |
| 42 | Self-irradiation damage and 5f localization in PuCoGa <sub>5</sub> . <i>Journal of Alloys and Compounds</i> , 2007, 444-445, 119-123.   | 5.5  | 10        |
| 43 | The Curium Aqua Ion. <i>Inorganic Chemistry</i> , 2007, 46, 3485-3491.  | 4.0  | 136       |
| 44 | Structures of Dimeric Hydrolysis Products of Thorium. <i>Inorganic Chemistry</i> , 2007, 46, 2368-2372.   | 4.0  | 81        |
| 45 | Sequestered Plutonium: $[\text{PuIV}\{5\text{LIO}(\text{Me}-3,2\text{-HOPO})\}_2]^{\text{6+}}$ The First Structurally Characterized Plutonium Hydroxypyridonate Complex. <i>Chemistry - A European Journal</i> , 2007, 13, 378-378.   | 3.3  | 2         |
| 46 | Structure of the Homoleptic Thorium(IV) Aqua Ion $[\text{Th}(\text{H}_2\text{O})_{10}\text{Br}_4]$ . <i>Angewandte Chemie - International Edition</i> , 2007, 46, 8043-8045.  | 13.8 | 78        |
| 47 | The Structure and Synthesis of Plutonium(III) Chlorides from Aqueous Solution. <i>Inorganic Chemistry</i> , 2006, 45, 8483-8485.  | 4.0  | 17        |
| 48 | Linear, primary monohaloalkane chemistry in NaX and NaY faujasite zeolites with and without NaO-treatment. <i>Microporous and Mesoporous Materials</i> , 2006, 92, 292-299.   | 4.4  | 13        |
| 49 | The Structures of Polynuclear Th(IV) Hydrolysis Products. <i>Materials Research Society Symposia Proceedings</i> , 2006, 986, 1.  | 0.1  | 3         |
| 50 | Extraction of short-lived zirconium and hafnium isotopes using crown ethers: A model system for the study of rutherfordium. <i>Radiochimica Acta</i> , 2006, 94, 123-129.   | 1.2  | 20        |
| 51 | Sequestered Plutonium: $[\text{PuIV}\{5\text{LIO}(\text{Me}-3,2\text{-HOPO})\}_2]^{\text{6+}}$ The First Structurally Characterized Plutonium Hydroxypyridonate Complex. <i>Chemistry - A European Journal</i> , 2005, 11, 2842-2848. | 3.3  | 51        |
| 52 | Soft X-ray scanning transmission X-ray microscopy (STXM) of actinide particles. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 383, 41-47.   | 3.7  | 52        |
| 53 | Attempt to confirm superheavy element production in the Ca <sup>48</sup> +U <sup>238</sup> reaction. <i>Physical Review C</i> , 2005, 72, .   | 2.9  | 86        |
| 54 | Interfacial Interactions between Np(V) and Manganese Oxide Minerals Manganite and Hausmannite. <i>Environmental Science &amp; Technology</i> , 2005, 39, 2608-2615.   | 10.0 | 31        |

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|----|---|-----|-----------|
| 55 | Detection and quantification of Pu(III, IV, V, and VI) using a 1.0-meter liquid core waveguide. Radiochimica Acta, 2005, 93, .                              | 1.2 | 25        |
| 56 | Low-Level Detection and Quantification of Plutonium(III, IV, V, and VI) Using a Liquid Core Waveguide. AIP Conference Proceedings, 2003, , .                | 0.4 | 1         |
| 57 | Complexation and Redox Interactions Between Aqueous Plutonium and Manganese Oxide Interfaces. Journal of Nuclear Science and Technology, 2002, 39, 274-277. | 1.3 | 2         |