Richard E Wilson

List of Publications by Year
in descending order

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	The Structure of the Plutonium Oxide Nanocluster [Pu₃₈O₅₆Cl₅₄(H₂O)₈]^{14â^'}. Angewandte Chemie - International Edition, 2008, 47, 298-302.	13.8	179
2	The Curium Aqua Ion. Inorganic Chemistry, 2007, 46, 3485-3491.	4.0	136
3	Thorium(IV) Molecular Clusters with a Hexanuclear Th Core. Inorganic Chemistry, 2011, 50, 9696-9704.	4.0	127
4	Attempt to confirm superheavy element production in theCa48+U238reaction. Physical Review C, 2005, 72, .	2.9	86
5	Structures of Dimeric Hydrolysis Products of Thorium. Inorganic Chemistry, 2007, 46, 2368-2372.	4.0	81
6	Structure of the Homoleptic Thorium(IV) Aqua Ion [Th(H₂O)₁₀]Br₄. Angewandte Chemie - International Edition, 2007, 46, 8043-8045.	13.8	78
7	Separation of Plutonium Oxide Nanoparticles and Colloids. Angewandte Chemie - International Edition, 2011, 50, 11234-11237.	13.8	73
8	Soft X-ray scanning transmission X-ray microscopy (STXM) of actinide particles. Analytical and Bioanalytical Chemistry, 2005, 383, 41-47.	3.7	52
9	Sequestered Plutonium: [PuIV{5LIO(Me-3,2-HOPO)}2]?The First Structurally Characterized Plutonium Hydroxypyridonate Complex. Chemistry - A European Journal, 2005, 11, 2842-2848.	3.3	51
10	Structural Correspondence between Uranyl Chloride Complexes in Solution and Their Stability Constants. Journal of Physical Chemistry A, 2011, 115, 4959-4967.	2.5	51
11	Structural and Vibrational Properties of U(VI)O₂Cl₄²⁻ and Pu(VI)O₂Cl₄²⁻ Complexes. Inorganic Chemistry, 2013, 52, 14138-14147.	4.0	50
12	Structures and Energetics of Erbium Chloride Complexes in Aqueous Solution. Journal of Physical Chemistry A, 2009, 113, 6391-6397.	2.5	46
13	An Open-Framework Thorium Sulfate Hydrate with 11.5 Ã... Voids. Inorganic Chemistry, 2008, 47, 9321-9326.	4.0	42
14	Series of Uranyl-4,4â€²-biphenyldicarboxylates and an Occurrence of a Cationâ€“Cation Interaction: Hydrothermal Synthesis and in Situ Raman Studies. Inorganic Chemistry, 2013, 52, 9487-9495.	4.0	34
15	Supramolecular Interactions in PuO₂Cl₄^{2â€“} and PuCl₆^{2â€“} Complexes with Protonated Pyridines: Synthesis, Crystal Structures, and Raman Spectroscopy. Inorganic Chemistry, 2014, 53, 383-392.	4.0	33
16	Interfacial Interactions between Np(V) and Manganese Oxide Minerals Manganite and Hausmannite. Environmental Science & Technology, 2005, 39, 2608-2615.	10.0	31
17	The relationship of monodentate and bidentate coordinated uranium(VI) sulfate in aqueous solution. Radiochimica Acta, 2008, 96, 607-611.	1.2	31
18	Synthesis and Characterization of Thorium(IV) Sulfates. Inorganic Chemistry, 2011, 50, 8621-8629.	4.0	31

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19	Sorption of tetravalent thorium on muscovite. Geochimica Et Cosmochimica Acta, 2012, 88, 66-76.	3.9	28
20	Lattice Solvent and Crystal Phase Effects on the Vibrational Spectra of UO₂Cl₄^{2â€“}. Inorganic Chemistry, 2014, 53, 11036-11045.	4.0	28
21	Adsorption of Plutonium Oxide Nanoparticles. Langmuir, 2012, 28, 2620-2627.	3.5	27
22	Surface-Mediated Formation of Pu(IV) Nanoparticles at the Muscovite-Electrolyte Interface. Environmental Science & Technology, 2013, 47, 14178-14184.	10.0	27
23	Elucidating Protactinium Hydrolysis: The Relative Stabilities of PaO₂(H₂O)⁺ and PaO(OH)₂⁺. Inorganic Chemistry, 2015, 54, 7474-7480.	4.0	27
24	Protactinium and the intersection of actinide and transition metal chemistry. Nature Communications, 2018, 9, 622.	12.8	27
25	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
26	Structural Periodicity in Plutonium(IV) Sulfates. Inorganic Chemistry, 2011, 50, 5663-5670.	4.0	25
27	Uranium(IV) Sulfates: Investigating Structural Periodicity in the Tetravalent Actinides. Inorganic Chemistry, 2012, 51, 9481-9490.	4.0	22
28	Structural Studies Coupling X-ray Diffraction and High-Energy X-ray Scattering in the UO22+â€“HBraqSystem. Inorganic Chemistry, 2011, 50, 10748-10754.	4.0	21
29	Extraction of short-lived zirconium and hafnium isotopes using crown ethers: A model system for the study of rutherfordium. Radiochimica Acta, 2006, 94, 123-129.	1.2	20
30	Thiocyanate complexes of the lanthanides, Am and Cm. Chemical Communications, 2020, 56, 2622-2625.	4.1	20
31	Quantifying structural damage from self-irradiation in a plutonium superconductor. Physical Review B, 2007, 76, .	3.2	19
32	Synthesis, Structure, and Vibrational Properties of [Ph₄P]₂NpO₂Cl₄ and [Ph₄P]₂PuO₂Cl₄ Complexes. Inorganic Chemistry, 2018, 57, 3008-3016.	4.0	19
33	Plutonium uptake and distribution in mammalian cells: Molecular vs. polymeric plutonium. International Journal of Radiation Biology, 2011, 87, 1023-1032.	1.8	18
34	The Structure and Synthesis of Plutonium(III) Chlorides from Aqueous Solution. Inorganic Chemistry, 2006, 45, 8483-8485.	4.0	17
35	EXAFS Study of the Speciation of Protactinium(V) in Aqueous Hydrofluoric Acid Solutions. Inorganic Chemistry, 2014, 53, 12643-12649.	4.0	17
36	Coordination Chemistry of Homoleptic Actinide(IV)â€“Thiocyanate Complexes. Chemistry - A European Journal, 2015, 21, 15575-15582.	3.3	16

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37	Interaction of muscovite (001) with Pu3+ bearing solutions at pH 3 through ex-situ observations. Geochimica Et Cosmochimica Acta, 2010, 74, 6984-6995.	3.9	15
38	Peculiar protactinium. Nature Chemistry, 2012, 4, 586-586.	13.6	15
39	Structural and Spectroscopic Studies of Fluoroprotactinates. Inorganic Chemistry, 2014, 53, 1750-1755.	4.0	15
40	Revealing Disparate Chemistries of Protactinium and Uranium. Synthesis of the Molecular Uranium Tetroxide Anion, UO₄^{â€“}. Inorganic Chemistry, 2017, 56, 3686-3694.	4.0	14
41	Linear, primary monohaloalkane chemistry in NaX and NaY faujasite zeolites with and without Na0-treatment. Microporous and Mesoporous Materials, 2006, 92, 292-299.	4.4	13
42	Phase Transitions in Tetramethylammonium Hexachlorometalate Compounds (TMA) 2 MCl 6 (M = U, Np,) Tj ETQq0 0 0 rgBT /Overlock 1	2.0	13
43	An extremely durable redox shuttle additive for overcharge protection of lithium-ion batteries. Materials Today Energy, 2019, 13, 308-311.	4.7	13
44	Exploitation of the sorptive properties of mica for the preparation of higher-resolution alpha-spectroscopy samples. Radiochimica Acta, 2010, 98, 431-436.	1.2	11
45	Self-irradiation damage and 5f localization in PuCoGa5. Journal of Alloys and Compounds, 2007, 444-445, 119-123.	5.5	10
46	Structure, Phase Transitions, and Isotope Effects in [(CH₃)₄N]₂PuCl₆. Inorganic Chemistry, 2015, 54, 10208-10213.	4.0	10
47	Molecular Hydroxo-Bridged Dimers of Uranium(VI), Neptunium(VI), and Plutonium(VI): [Me₄N]₂[(AnO₂)₂(OH)₂(NO₃)₄]. Inorganic Chemistry, 2019, 58, 3203-3210.	4.4	10
48	Retrieval and purification of an aged ²³¹Pa source from its decay daughters. Radiochimica Acta, 2014, 102, 505-511.	1.2	9
49	Structural and Electronic Properties of Fluoride Complexes of Nb V , Ta V , and Pa V : The Influence of Relativistic Effects on Group V Elements. European Journal of Inorganic Chemistry, 2016, 2016, 5467-5476.	2.0	8
50	Structural Periodicity in the Coordination Chemistry of Aqueous Pu(IV) Sulfates. Inorganic Chemistry, 2012, 51, 8942-8947.	4.0	7
51	Hydrolysis of Metal Dioxides Differentiates d-block from f-block Elements: Pa(V) as a 6d Transition Metal; Pr(V) as a 4f â€œLanthanylâ€• Journal of Physical Chemistry A, 2020, 124, 9272-9287.	2.5	6
52	The Structures of Polynuclear Th(IV) Hydrolysis Products. Materials Research Society Symposia Proceedings, 2006, 986, 1.	0.1	3
53	Reactions of Neptunium(V) in Alkali-Metal Hydroxides. Inorganic Chemistry, 2021, 60, 17480-17486.	4.0	3
54	Complexation and Redox Interactions Between Aqueous Plutonium and Manganese Oxide Interfaces. Journal of Nuclear Science and Technology, 2002, 39, 274-277.	1.3	2

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55	Sequestered Plutonium: [PuIV{5LIO(Me-3,2-HOPO)}2]â€"The First Structurally Characterized Plutonium Hydroxypyridonate Complex. Chemistry - A European Journal, 2007, 13, 378-378.	3.3	2
56	Applications of Alkali Metal Hydroxide Hydrofluxes to the Synthesis of Singleâ€Crystal Ternary Actinide Oxides. Chemistry - A European Journal, 2020, 26, 1497-1500.	3.3	2
57	Low-Level Detection and Quantification of Plutonium(III, IV, V, and VI) Using a Liquid Core Waveguide. AIP Conference Proceedings, 2003, , .	0.4	1