

# David Fellhauer

## List of Publications by Year in descending order

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Version: 2024-02-01

27  
papers

441  
citations

687363

13  
h-index

752698

20  
g-index

27  
all docs

27  
docs citations

27  
times ranked

429  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pu( <sup>III</sup> ) and Cm( <sup>III</sup> ) in the presence of EDTA: aqueous speciation, redox behavior, and the impact of Ca( <sup>II</sup> ). RSC Advances, 2022, 12, 9478-9493.	3.6	2
2	Paving the way for examination of coupled redox/solid-liquid interface reactions: 1 Åppm Np adsorbed on clay studied by Np M5-edge HR-XANES spectroscopy. Analytica Chimica Acta, 2022, 1202, 339636.	5.4	3
3	Crystal Structure and Stability in Aqueous Solutions of Na <sub>0.5</sub> [NpO <sub>2</sub> (OH) <sub>1.5</sub> ·0.5H <sub>2</sub> O and Na[NpO <sub>2</sub> (OH) <sub>2</sub> ]. Journal of the American Chemical Society, 2022, 144, 9217-9221.	13.7	1
4	Plutonium retention in the isosaccharinate “ cement system. Applied Geochemistry, 2021, 126, 104862.	3.0	15
5	Solubility of PuO <sub>2</sub> (am,hyd) and the Formation of Pu(IV) Carbonate Complexes in Carbonate Solutions Containing 0.1–5.0 mol·dm <sup>-3</sup> NaNO <sub>3</sub> . Journal of Solution Chemistry, 2021, 50, 443-457.	1.2	0
6	Impact of Ca(II) on the aqueous speciation, redox behavior, and environmental mobility of Pu(IV) in the presence of EDTA. Science of the Total Environment, 2021, 783, 146993.	8.0	4
7	Competitive Reaction of Neptunium(V) and Uranium(VI) in Potassium–Sodium Carbonate-Rich Aqueous Media: Speciation Study with a Focus on High-Resolution X-ray Spectroscopy. Inorganic Chemistry, 2020, 59, 8-22.	4.0	17
8	Plutonium Retention Mechanisms by Magnetite under Anoxic Conditions: Entrapment versus Sorption. ACS Earth and Space Chemistry, 2019, 3, 2197-2206.	2.7	12
9	Solubility and stability of liebigite, Ca <sub>2</sub> UO <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> ·10H <sub>2</sub> O(cr), in dilute to concentrated NaCl and NaClO <sub>4</sub> solutions at T = 22–80 °C. Applied Geochemistry, 2019, 111, 104374.	3.0	10
10	The complexation of neptunium(V) with fluoride at elevated temperatures: Speciation and thermodynamics. Applied Geochemistry, 2019, 104, 10-18.	3.0	9
11	Fifteen Years of Radionuclide Research at the KIT Synchrotron Source in the Context of the Nuclear Waste Disposal Safety Case. Geosciences (Switzerland), 2019, 9, 91.	2.2	19
12	Solubility of U(VI) in chloride solutions. III. The stable oxides/hydroxides in MgCl <sub>2</sub> systems: Pitzer activity model for the system UO <sub>2</sub> +Na+K+Mg <sub>2</sub> +H+OH+Cl+H <sub>2</sub> O(l). Journal of Chemical Thermodynamics, 2019, 131, 375-386.		5
13	Redox behavior and solubility of plutonium under alkaline, reducing conditions. Radiochimica Acta, 2018, 106, 259-279.	1.2	21
14	Neptunium(VI) solubility in alkaline CaCl <sub>2</sub> solutions: evidence for the formation of calcium neptunates Ca <sub>x</sub> NpO <sub>3+x</sub> (s,hyd). Monatshefte für Chemie, 2018, 149, 237-252.	1.8	3
15	Thermodynamic description of the plutonium “-d-isosaccharinic acid system I: Solubility, complexation and redox behavior. Applied Geochemistry, 2018, 98, 247-264.	3.0	18
16	Thermodynamics of neptunium(V) complexation with sulfate in aqueous solution. Journal of Chemical Thermodynamics, 2018, 116, 309-315.	2.0	9
17	Exploring the electronic structure and speciation of aqueous and colloidal Pu with high energy resolution XANES and computations. Chemical Communications, 2018, 54, 12824-12827.	4.1	26
18	Thermodynamic description of the plutonium “-d-isosaccharinic acid system ii: Formation of quaternary Ca(II)–Pu(IV)–OH–ISA complexes. Applied Geochemistry, 2018, 98, 351-366.	3.0	16

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19	Thorium(IV) and neptunium(V) uptake from carbonate containing aqueous solutions by HDTMA-modified natural zeolites. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 311, 1665-1671.	1.5	2
20	Pu Coexists in Three Oxidation States in a Borosilicate Glass: Implications for Pu Solubility. <i>Inorganic Chemistry</i> , 2017, 56, 13982-13990.	4.0	16
21	Solubility and hydrolysis of Np(V) in dilute to concentrated alkaline NaCl solutions: formation of Na <sup>+</sup> Np(V)OH solid phases at 22 <sup>±</sup> 0.1°C. <i>Radiochimica Acta</i> , 2017, 105, 1-20.	1.2	18
22	Np(V) solubility, speciation and solid phase formation in alkaline CaCl <sub>2</sub> solutions. Part I: Experimental results. <i>Radiochimica Acta</i> , 2016, 104, 355-379.	1.2	26
23	Np(V) solubility, speciation and solid phase formation in alkaline CaCl <sub>2</sub> solutions. Part II: Thermodynamics and implications for source term estimations of nuclear waste disposal. <i>Radiochimica Acta</i> , 2016, 104, 381-397.	1.2	16
24	Solubility and spectroscopic study of An <sup>III</sup> /Ln <sup>III</sup> in dilute to concentrated Na <sup>+</sup> Mg <sup>2+</sup> Ca <sup>2+</sup> Cl <sup>-</sup> NO <sub>3</sub> solutions. <i>Pure and Applied Chemistry</i> , 2015, 87, 487-502.	1.9	5
25	Redox behavior of Tc(VII)/Tc(IV) under various reducing conditions in 0.1M NaCl solutions. <i>Radiochimica Acta</i> , 2013, 101, 323-332.	1.2	46
26	Thermodynamic description of Np(VI) solubility, hydrolysis, and redox behavior in dilute to concentrated alkaline NaCl solutions. <i>Pure and Applied Chemistry</i> , 2013, 85, 2027-2049.	1.9	19
27	Oxidation State and Local Structure of Plutonium Reacted with Magnetite, Mackinawite, and Chukanovite. <i>Environmental Science &amp; Technology</i> , 2011, 45, 7267-7274.	10.0	103