David Fellhauer

List of Publications by Year
in descending order

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	Oxidation State and Local Structure of Plutonium Reacted with Magnetite, Mackinawite, and Chukanovite. Environmental Science & Technology, 2011, 45, 7267-7274.	10.0	103
2	Redox behavior of Tc(VII)/Tc(IV) under various reducing conditions in 0.1ÂM NaCl solutions. Radiochimica Acta, 2013, 101, 323-332.	1.2	46
3	Np(V) solubility, speciation and solid phase formation in alkaline CaCl₂ solutions. Part I: Experimental results. Radiochimica Acta, 2016, 104, 355-379.	1.2	26
4	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
5	Redox behavior and solubility of plutonium under alkaline, reducing conditions. Radiochimica Acta, 2018, 106, 259-279.	1.2	21
6	Thermodynamic description of Np(VI) solubility, hydrolysis, and redox behavior in dilute to concentrated alkaline NaCl solutions. Pure and Applied Chemistry, 2013, 85, 2027-2049.	1.9	19
7	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
8	Solubility and hydrolysis of Np(V) in dilute to concentrated alkaline NaCl solutions: formation of Naâ€“Np(V)â€“OH solid phases at 22â€‰Â°C. Radiochimica Acta, 2017, 105, 1-20.	1.2	18
9	Thermodynamic description of the plutonium â€“ Î±-d-isosaccharinic acid system I: Solubility, complexation and redox behavior. Applied Geochemistry, 2018, 98, 247-264.	3.0	18
10	Competitive Reaction of Neptunium(V) and Uranium(VI) in Potassiumâ€“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
11	Np(V) solubility, speciation and solid phase formation in alkaline CaCl₂ solutions. Part II: Thermodynamics and implications for source term estimations of nuclear waste disposal. Radiochimica Acta, 2016, 104, 381-397.	1.2	16
12	Pu Coexists in Three Oxidation States in a Borosilicate Glass: Implications for Pu Solubility. Inorganic Chemistry, 2017, 56, 13982-13990.	4.0	16
13	Thermodynamic description of the plutonium â€“ Î±â€“dâ€“isosaccharinic acid system ii: Formation of quaternary Ca(II)â€“Pu(IV)â€“OHâ€“ISA complexes. Applied Geochemistry, 2018, 98, 351-366.	3.0	16
14	Plutonium retention in the isosaccharinate â€“ cement system. Applied Geochemistry, 2021, 126, 104862.	3.0	15
15	Plutonium Retention Mechanisms by Magnetite under Anoxic Conditions: Entrapment versus Sorption. ACS Earth and Space Chemistry, 2019, 3, 2197-2206.	2.7	12
16	Solubility and stability of liebigite, Ca2UO2(CO3)3Â·10H2O(cr), in dilute to concentrated NaCl and NaClO4 solutions at T = 22â€“80â€Â°C. Applied Geochemistry, 2019, 111, 104374.	3.0	10
17	Thermodynamics of neptunium(V) complexation with sulfate in aqueous solution. Journal of Chemical Thermodynamics, 2018, 116, 309-315.	2.0	9
18	The complexation of neptunium(V) with fluoride at elevated temperatures: Speciation and thermodynamics. Applied Geochemistry, 2019, 104, 10-18.	3.0	9

#	Article	IF	Citations
19	Solubility and spectroscopic study of An^{III}/Ln^{III} in dilute to concentrated Naâ€“Mgâ€“Caâ€“Clâ€“NO₃ solutions. Pure and Applied Chemistry, 2015, 87, 487-502.	1.9	5
20	Solubility of U(VI) in chloride solutions. III. The stable oxides/hydroxides in MgCl2 systems: Pitzer activity model for the system UO22+â€“Na+â€“K+â€“Mg2+â€“H+â€“OHâ^'â€“Clâ^'â€“H2O(l). Journal of Chemical Thermodynamics, 2019, 131, 375-386.	2.0	5
21	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
22	Neptunium(VI) solubility in alkaline CaCl2 solutions: evidence for the formation of calcium neptunates Ca x NpO3+x (s,hyd). Monatshefte FÃ¼r Chemie, 2018, 149, 237-252.	1.8	3
23	Paving the way for examination of coupled redox/solid-liquid interface reactions: 1Âppm Np adsorbed on clay studied by Np M5-edge HR-XANES spectroscopy. Analytica Chimica Acta, 2022, 1202, 339636.	5.4	3
24	Thorium(IV) and neptunium(V) uptake from carbonate containing aqueous solutions by HDTMA-modified natural zeolites. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 1665-1671.	1.5	2
25	Pu(<scp>iii</scp>) and Cm(<scp>iii</scp>) in the presence of EDTA: aqueous speciation, redox behavior, and the impact of Ca(<scp>ii</scp>). RSC Advances, 2022, 12, 9478-9493.	3.6	2
26	Crystal Structure and Stability in Aqueous Solutions of Na_{0.5}[NpO₂(OH)_{1.5}]Â·0.5H₂O and Na[NpO₂(OH)₂]. Journal of the American Chemical Society, 2022, 144, 9217-9221.	13.7	1
27	Solubility of PuO2(am,hyd) and the Formation of Pu(IV) Carbonate Complexes in Carbonate Solutions Containing 0.1â€“5.0ÂmolÂ·dmâ^'3 NaNO3. Journal of Solution Chemistry, 2021, 50, 443-457.	1.2	0