

Joerg Rothe

List of Publications by Year in descending order

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42
papers

1,160
citations

471509

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all docs

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docs citations

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times ranked

1124
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of manganese on the speciation of neptunium(V) on manganese doped magnetites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 635, 128105.	4.7	2
2	Implementation of cryogenic tender X-ray HR-XANES spectroscopy at the ACT station of the CAT-ACT beamline at the KIT Light Source. Journal of Synchrotron Radiation, 2022, 29, 80-88.	2.4	5
3	Pu(^{III}) and Cm(^{III}) in the presence of EDTA: aqueous speciation, redox behavior, and the impact of Ca(^{II}). RSC Advances, 2022, 12, 9478-9493.	3.6	2
4	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
5	Plutonium retention in the isosaccharinate “ cement system. Applied Geochemistry, 2021, 126, 104862.	3.0	15
6	Two-dimensional Wide-Angle X-ray Scattering on a Cm-doped borosilicate glass in a beryllium container. Journal of Synchrotron Radiation, 2021, 28, 214-223.	2.4	2
7	A Combined Study of Tc Redox Speciation in Complex Aqueous Systems: Wet-Chemistry, Tc K-/L ₃ -Edge X-ray Absorption Fine Structure, and Ab Initio Calculations. Inorganic Chemistry, 2021, 60, 12285-12298.	4.0	6
8	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
9	Complexation of Np(V) with the Dicarboxylates, Malonate, and Succinate: Complex Stoichiometry, Thermodynamic Data, and Structural Information. Inorganic Chemistry, 2021, , .	4.0	1
10	Relativistic Multiconfigurational <i>Ab Initio</i> Calculation of Uranyl 3d4f Resonant Inelastic X-ray Scattering. Inorganic Chemistry, 2021, 60, 18764-18776.	4.0	11
11	Fe(II) Induced Reduction of Incorporated U(VI) to U(V) in Goethite. Environmental Science & Technology, 2021, 55, 16445-16454.	10.0	11
12	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
13	Speciation, thermodynamics and structure of Np(^V) oxalate complexes in aqueous solution. Dalton Transactions, 2020, 49, 13359-13371.	3.3	4
14	Signatures of technetium oxidation states: a new approach. Chemical Communications, 2020, 56, 9608-9611.	4.1	8
15	Thermodynamics and Structure of Neptunium(V) Complexes with Formate. Spectroscopic and Theoretical Study. Inorganic Chemistry, 2020, 59, 6067-6077.	4.0	6
16	Extreme multi-valence states in mixed actinide oxides. Communications Chemistry, 2019, 2, .	4.5	32
17	Sorption of Eu(III) on Eibenstock granite studied by ÅµTRLFS: A novel spatially-resolved luminescence-spectroscopic technique. Scientific Reports, 2019, 9, 6287.	3.3	12
18	Interdisciplinary Round-Robin Test on Molecular Spectroscopy of the U(VI) Acetate System. ACS Omega, 2019, 4, 8167-8177.	3.5	5

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19	Unprecedented Inversion of Selectivity and Extraordinary Difference in the Complexation of Trivalent f -Elements by Diastereomers of a Methylated Diglycolamide. <i>Chemistry - A European Journal</i> , 2019, 25, 5507-5513.	3.3	27
20	Fifteen Years of Radionuclide Research at the KIT Synchrotron Source in the Context of the Nuclear Waste Disposal Safety Case. <i>Geosciences (Switzerland)</i> , 2019, 9, 91.	2.2	19
21	Thermodynamic description of Tc(IV) solubility and carbonate complexation in alkaline NaHCO_3 - Na_2CO_3 - NaCl systems. <i>Dalton Transactions</i> , 2018, 47, 4377-4392.	3.3	12
22	Redox behavior and solubility of plutonium under alkaline, reducing conditions. <i>Radiochimica Acta</i> , 2018, 106, 259-279.	1.2	21
23	Thermodynamic description of the plutonium \pm -d-isosaccharinic acid system I: Solubility, complexation and redox behavior. <i>Applied Geochemistry</i> , 2018, 98, 247-264.	3.0	18
24	Exploring the electronic structure and speciation of aqueous and colloidal Pu with high energy resolution XANES and computations. <i>Chemical Communications</i> , 2018, 54, 12824-12827.	4.1	26
25	Thermodynamic description of the plutonium \pm -isosaccharinic acid system ii: Formation of quaternary Ca(II) - Pu(IV) - OH -ISA complexes. <i>Applied Geochemistry</i> , 2018, 98, 351-366.	3.0	16
26	Uranium Redox Transformations after U(VI) Coprecipitation with Magnetite Nanoparticles. <i>Environmental Science & Technology</i> , 2017, 51, 2217-2225.	10.0	112
27	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
28	Neptunium sorption and redox speciation at the illite surface under highly saline conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 215, 421-431.	3.9	8
29	CAT-ACT: A new highly versatile x-ray spectroscopy beamline for catalysis and radionuclide science at the KIT synchrotron light facility ANKA. <i>Review of Scientific Instruments</i> , 2017, 88, 113113.	1.3	87
30	The role of the 5f valence orbitals of early actinides in chemical bonding. <i>Nature Communications</i> , 2017, 8, 16053.	12.8	146
31	Aqueous U(VI) interaction with magnetite nanoparticles in a mixed flow reactor system: HR-XANES study. <i>Journal of Physics: Conference Series</i> , 2016, 712, 012086.	0.4	8
32	Np(V) solubility, speciation and solid phase formation in alkaline CaCl_2 solutions. Part I: Experimental results. <i>Radiochimica Acta</i> , 2016, 104, 355-379.	1.2	26
33	Neptunium redox speciation at the illite surface. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 152, 39-51.	3.9	35
34	Np(v) complexation with propionate in 0.5-4 M NaCl solutions at 20-85 $^{\circ}\text{C}$. <i>Dalton Transactions</i> , 2015, 44, 3837-3844.	3.3	8
35	Actinide and lanthanide speciation with high-energy resolution X-ray techniques. <i>Journal of Physics: Conference Series</i> , 2013, 430, 012117.	0.4	32
36	The INE-Beamline for actinide science at ANKA. <i>Review of Scientific Instruments</i> , 2012, 83, 043105.	1.3	100

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37	Spectroscopic investigations of Np(V/VI) redox speciation in hyperalkaline TMA-(OH, Cl) solutions. <i>Radiochimica Acta</i> , 2012, 100, 759-770.	1.2	27
38	New insights in the formation processes of Pu(IV) colloids. <i>Radiochimica Acta</i> , 2009, 97, 199-207.	1.2	63
39	X-ray absorption spectroscopic study of trivalent and tetravalent actinides in solution at varying pH values. <i>Radiochimica Acta</i> , 2009, 97, 701-708.	1.2	58
40	Scanning transmission X-ray and laser scanning luminescence microscopy of the carboxyl group and Eu(III) distribution in humic acid aggregates. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2006, 153, 71-74.	1.7	20
41	The INE-Beamline for actinide research at ANKA. <i>Radiochimica Acta</i> , 2006, 94, .	1.2	19
42	XAFS and LIBD Investigation of the Formation and Structure of Colloidal Pu(IV) Hydrolysis Products. <i>Inorganic Chemistry</i> , 2004, 43, 4708-4718.	4.0	110