Marcus Altmaier

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Recent Advances in Aqueous Actinide Chemistry and Thermodynamics. Chemical Reviews, 2013, 113, 901-943.	47.7	175
2	Oxidation State and Local Structure of Plutonium Reacted with Magnetite, Mackinawite, and Chukanovite. Environmental Science & Technology, 2011, 45, 7267-7274.	10.0	103
3	Solubility of plutonium hydroxides/hydrous oxides under reducing conditions and in the presence of oxygen. Comptes Rendus Chimie, 2007, 10, 959-977.	0.5	87
4	New insights in the formation processes of Pu(IV) colloids. Radiochimica Acta, 2009, 97, 199-207.	1.2	63
5	Thermodynamics of trivalent actinides and neodymium in NaCl, MgCl2, and CaCl2 solutions: Solubility, hydrolysis, and ternary Ca-M(III)-OH complexes. Pure and Applied Chemistry, 2009, 81, 1555-1568.	1.9	60
6	Solubility of Zr(IV), Th(IV) and Pu(IV) hydrous oxides in CaCl2 solutions and the formation of ternary Ca-M(IV)-OH complexes. Radiochimica Acta, 2008, 96, .	1.2	57
7	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
8	Systematic XAS study on the reduction and uptake of Tc by magnetite and mackinawite. Dalton Transactions, 2016, 45, 17874-17885.	3.3	41
9	Solubility of U(VI) in chloride solutions. I. The stable oxides/hydroxides in NaCl systems, solubility products, hydrolysis constants and SIT coefficients. Journal of Chemical Thermodynamics, 2017, 114, 2-13.	2.0	40
10	Glaciation history of Queen Maud Land (Antarctica) reconstructed from in-situ produced cosmogenic 10Be, 26Al and 21Ne. Polar Science, 2010, 4, 42-61.	1.2	35
11	Near edge X-ray absorption fine structure (NEXAFS) of model compounds for the humic acid/actinide ion interaction. Journal of Electron Spectroscopy and Related Phenomena, 2005, 148, 151-157.	1.7	34
12	Thermodynamic description of Tc(<scp>iv</scp>) solubility and hydrolysis in dilute to concentrated NaCl, MgCl ₂ and CaCl ₂ solutions. Dalton Transactions, 2016, 45, 8916-8936.	3.3	32
13	Formation, stability and structural characterization of ternary MgUO ₂ (CO ₃) ₃ ^{2â^²} and Mg ₂ UO ₂ (CO ₃) ₃ (aq) complexes. Radiochimica Acta,	1.2	28
14	Spectroscopic investigations of Np(V/VI) redox speciation in hyperalkaline TMA-(OH, Cl) solutions. Radiochimica Acta, 2012, 100, 759-770.	1.2	27
15	Np(V) solubility, speciation and solid phase formation in alkaline CaCl ₂ solutions. Part I: Experimental results. Radiochimica Acta, 2016, 104, 355-379.	1.2	26
16	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
17	Recent advances in the aqueous chemistry of the calcium(II)-gluconate system – Equilibria, structure and composition of the complexes forming in neutral and in alkaline solutions. Coordination Chemistry Reviews, 2020, 417, 213337.	18.8	24
18	Sorption of Eu(III) on quartz at high salt concentrations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123610.	4.7	23

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19	Redox chemistry of Tc(VII)/Tc(IV) in dilute to concentrated NaCl and MgCl ₂ solutions. Radiochimica Acta, 2015, 103, 57-72.	1.2	21
20	Redox behavior and solubility of plutonium under alkaline, reducing conditions. Radiochimica Acta, 2018, 106, 259-279.	1.2	21
21	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
22	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
23	A TRLFS study of Cm(III) hydroxide complexes in alkaline CaCl2 solutions. Radiochimica Acta, 2008, 96, 551-560.	1.2	18
24	Solubility and hydrolysis of Np(V) in dilute to concentrated alkaline NaCl solutions: formation of Na–Np(V)–OH solid phases at 22 °C. Radiochimica Acta, 2017, 105, 1-20.	1.2	18
25	Solubility of tetravalent actinides in alkaline CaCl ₂ solutions and formation of Ca ₄ [An(OH) ₈] ⁴⁺ complexes: A study of Np(IV) and Pu(IV) under reducing conditions and the systematic trend in the An(IV) series. Radiochimica Acta, 2010, 98, 541-548.	1.2	16
26	Np(V) solubility, speciation and solid phase formation in alkaline CaCl ₂ solutions. Part II: Thermodynamics and implications for source term estimations of nuclear waste disposal. Radiochimica Acta, 2016, 104, 381-397.	1.2	16
27	Interaction of Nd(<scp>iii</scp>) and Cm(<scp>iii</scp>) with borate in dilute to concentrated alkaline NaCl, MgCl ₂ and CaCl ₂ solutions: solubility and TRLFS studies. New Journal of Chemistry, 2015, 39, 849-859.	2.8	15
28	Contribution of the results of the CEBAMA project to decrease uncertainties in the Safety Case and Performance Assessment of radioactive waste repositories. Applied Geochemistry, 2020, 112, 104479.	3.0	15
29	Thermodynamic model of Ni(II) solubility, hydrolysis and complex formation with ISA. Radiochimica Acta, 2018, 106, 31-45.	1.2	12
30	Redox chemistry of uranium in reducing, dilute to concentrated NaCl solutions. Applied Geochemistry, 2018, 98, 286-300.	3.0	12
31	Plutonium Retention Mechanisms by Magnetite under Anoxic Conditions: Entrapment versus Sorption. ACS Earth and Space Chemistry, 2019, 3, 2197-2206.	2.7	12
32	Complexation of Nd(III)/Cm(III) with gluconate in alkaline NaCl and CaCl2 solutions: Solubility, TRLFS and DFT studies. Applied Geochemistry, 2021, 126, 104864.	3.0	12
33	Solubility of plutonium in MgCl ₂ and CaCl ₂ solutions in contact with metallic iron. Radiochimica Acta, 2009, 97, 187-192.	1.2	11
34	Solubility and hydrolysis of U(VI) in 0.5†mol/kg NaCl solutions at T†=†22 and 80†°C. Journal of Chemica Thermodynamics, 2018, 120, 45-53.	 2.0	11
35	A Thermodynamic Model for ZrO2(am) Solubility at 25°C in the Ca2+–Na+–H+–Clâ^'–OHâ^–H2O S Critical Review. Journal of Solution Chemistry, 2018, 47, 855-891.	ystem: A 1.2	11
36	Uptake of niobium by cement systems relevant for nuclear waste disposal: Impact of ISA and chloride. Cement and Concrete Research, 2022, 153, 106690.	11.0	10

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37	Solubility of U(VI) in chloride solutions. II. The stable oxides/hydroxides in alkaline KCl solutions: Thermodynamic description and relevance in cementitious systems. Applied Geochemistry, 2018, 98, 237-246.	3.0	9
38	Thermodynamic description of Be(II) solubility and hydrolysis in acidic to hyperalkaline NaCl and KCl solutions. Applied Geochemistry, 2020, 117, 104601.	3.0	9
39	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
40	Uptake of chloride and iso-saccharinic acid by cement: Sorption and molecular dynamics studies on HCP (CEM I) and C-S-H phases. Cement and Concrete Research, 2022, 157, 106831.	11.0	6
41	Solubility and spectroscopic study of An ^{III} /Ln ^{III} in dilute to concentrated Na–Mg–Ca–Cl–NO ₃ solutions. Pure and Applied Chemistry, 2015, 87, 487-502.	1.9	5
42	Solubility of U(VI) in chloride solutions. III. The stable oxides/hydroxides in MgCl2 systems: Pitzer activity model for the system UO22+–Na+–K+–Mg2+–H+–OHâ^'–Clâ^'–H2O(I). Journal of Chemic Thermodynamics, 2019, 131, 375-386.	al2.0	5
43	Uptake of Be(II) by Cement in Degradation Stage I: Wet-Chemistry and Molecular Dynamics Studies. Minerals (Basel, Switzerland), 2021, 11, 1149.	2.0	5
44	Thermodynamic description of U(VI) solubility and hydrolysis in dilute to concentrated NaCl solutions at <i>T</i> = 25, 55 and 80 °C. Radiochimica Acta, 2019, 107, 663-678.	1.2	4
45	Impact of selected cement additives and model compounds on the solubility of Nd(III), Th(IV) and U(VI): screening experiments in alkaline NaCl, MgCl ₂ and CaCl ₂ solutions at elevated ionic strength. Radiochimica Acta, 2021, 109, 431-443.	1.2	4
46	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
47	Neptunium(VI) solubility in alkaline CaCl2 solutions: evidence for the formation of calcium neptunates Ca x NpO3+x (s,hyd). Monatshefte Für Chemie, 2018, 149, 237-252.	1.8	3
48	Solubility of Ca(<scp>ii</scp>), Ni(<scp>ii</scp>), Nd(<scp>iii</scp>) and Pu(<scp>iv</scp>) in the presence of proxy ligands for the degradation of polyacrylonitrile in cementitious systems. Dalton Transactions, 2022, 51, 9432-9444.	3.3	3
49	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
50	Preface / Special Issue "Geochemistry Research for Cement-based Materials in Nuclear Waste Disposal Applications― Applied Geochemistry, 2020, 123, 104701.	3.0	2
51	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
52	Impact of sulfate on the solubility of Tc(IV) in acidic to hyperalkaline aqueous reducing systems. Radiochimica Acta, 2021, 109, 681-697.	1.2	1
53	Crystal Structure and Stability in Aqueous Solutions of Na _{0.5} [NpO ₂ (OH) _{1.5}]·0.5H ₂ O and Na[NpO ₂ (OH) ₂]. Journal of the American Chemical Society, 2022, 144, 9217-9221.	13.7	1
54	16th International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP-16). Pure and Applied Chemistry, 2015, 87, 443-443.	1.9	0