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List of Publications by Year
in descending order

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54 papers	1,267 citations	394421 19 h-index	377865 34 g-index
56 all docs	56 docs citations	56 times ranked	1029 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	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
6	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
7	Impact of selected cement additives and model compounds on the solubility of Nd(III), Th(IV) and U(VI): screening experiments in alkaline NaCl, MgCl₂ and CaCl₂ solutions at elevated ionic strength. Radiochimica Acta, 2021, 109, 431-443.	1.2	4
8	A Combined Study of Tc Redox Speciation in Complex Aqueous Systems: Wet-Chemistry, Tc K-/L₃-Edge X-ray Absorption Fine Structure, and Ab Initio Calculations. Inorganic Chemistry, 2021, 60, 12285-12298.	4.0	6
9	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
10	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
11	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
12	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
13	Preface / Special Issue â€œGeochemistry Research for Cement-based Materials in Nuclear Waste Disposal Applicationsâ€• Applied Geochemistry, 2020, 123, 104701.	3.0	2
14	Thermodynamic description of Be(II) solubility and hydrolysis in acidic to hyperalkaline NaCl and KCl solutions. Applied Geochemistry, 2020, 117, 104601.	3.0	9
15	Recent advances in the aqueous chemistry of the calcium(II)-gluconate system â€“ Equilibria, structure and composition of the complexes forming in neutral and in alkaline solutions. Coordination Chemistry Reviews, 2020, 417, 213337.	18.8	24
16	Plutonium Retention Mechanisms by Magnetite under Anoxic Conditions: Entrapment versus Sorption. ACS Earth and Space Chemistry, 2019, 3, 2197-2206.	2.7	12
17	Sorption of Eu(III) on quartz at high salt concentrations. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 578, 123610.	4.7	23
18	Thermodynamic description of U(VI) solubility and hydrolysis in dilute to concentrated NaCl solutions at T = 25, 55 and 80 Â°C. Radiochimica Acta, 2019, 107, 663-678.	1.2	4

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19	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
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	Solubility and hydrolysis of U(VI) in 0.5â€¯mol/kg NaCl solutions at Tâ€¯=â€¯22 and 80â€¯Â°C. Journal of Chemical Thermodynamics, 2018, 120, 45-53.	2.0	11
22	Redox behavior and solubility of plutonium under alkaline, reducing conditions. Radiochimica Acta, 2018, 106, 259-279.	1.2	21
23	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
24	Thermodynamic model of Ni(II) solubility, hydrolysis and complex formation with ISA. Radiochimica Acta, 2018, 106, 31-45.	1.2	12
25	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
26	Redox chemistry of uranium in reducing, dilute to concentrated NaCl solutions. Applied Geochemistry, 2018, 98, 286-300.	3.0	12
27	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
28	A Thermodynamic Model for ZrO2(am) Solubility at 25ÂÂ°C in the Ca2+â€“Na+â€“H+â€“Clâ^'â€“OHâ^'â€“H2O System: A Critical Review. Journal of Solution Chemistry, 2018, 47, 855-891.	1.2	11
29	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
30	Formation, stability and structural characterization of ternary MgUO₂(CO₃)₃ ^{2â^'} and Mg₂UO₂(CO₃)₃(aq) complexes. Radiochimica Acta, 2017, 105, 171-185.	1.2	28
31	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
32	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
33	Thermodynamic description of Tc(<scp>iv</scp>) solubility and hydrolysis in dilute to concentrated NaCl, MgCl₂and CaCl₂solutions. Dalton Transactions, 2016, 45, 8916-8936.	3.3	32
34	Systematic XAS study on the reduction and uptake of Tc by magnetite and mackinawite. Dalton Transactions, 2016, 45, 17874-17885.	3.3	41
35	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
36	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

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37	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
38	16th International Symposium on Solubility Phenomena and Related Equilibrium Processes (ISSP-16). Pure and Applied Chemistry, 2015, 87, 443-443.	1.9	0
39	Redox chemistry of Tc(VII)/Tc(IV) in dilute to concentrated NaCl and MgCl₂ solutions. Radiochimica Acta, 2015, 103, 57-72.	1.2	21
40	Interaction of Nd(<scp>iii</scp>) and Cm(<scp>iii</scp>) with borate in dilute to concentrated alkaline NaCl, MgCl₂and CaCl₂solutions: solubility and TRLFS studies. New Journal of Chemistry, 2015, 39, 849-859.	2.8	15
41	Recent Advances in Aqueous Actinide Chemistry and Thermodynamics. Chemical Reviews, 2013, 113, 901-943.	47.7	175
42	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
43	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
44	Spectroscopic investigations of Np(V/VI) redox speciation in hyperalkaline TMA-(OH, Cl) solutions. Radiochimica Acta, 2012, 100, 759-770.	1.2	27
45	Oxidation State and Local Structure of Plutonium Reacted with Magnetite, Mackinawite, and Chukanovite. Environmental Science & Technology, 2011, 45, 7267-7274.	10.0	103
46	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
47	Solubility of tetravalent actinides in alkaline CaCl₂solutions and formation of Ca₄[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
48	New insights in the formation processes of Pu(IV) colloids. Radiochimica Acta, 2009, 97, 199-207.	1.2	63
49	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
50	Solubility of plutonium in MgCl₂ and CaCl₂ solutions in contact with metallic iron. Radiochimica Acta, 2009, 97, 187-192.	1.2	11
51	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
52	A TRLFS study of Cm(III) hydroxide complexes in alkaline CaCl2 solutions. Radiochimica Acta, 2008, 96, 551-560.	1.2	18
53	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
54	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