

Volker Metz

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

721
citations

623734

14
h-index

580821

25
g-index

31
all docs

31
docs citations

31
times ranked

738
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of pH and temperature on kaolinite dissolution rate under acidic conditions. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3913-3926.	3.9	123
2	Stoichiometry of smectite dissolution reaction. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1755-1772.	3.9	91
3	Towards the establishment of a reliable proxy for the reactive surface area of smectite. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2581-2591.	3.9	78
4	Stirring effect on kaolinite dissolution rate. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 3475-3490.	3.9	77
5	Surface protonation data of kaoliniteâ€”reevaluation based on dissolution experiments. <i>Journal of Colloid and Interface Science</i> , 2003, 264, 67-75.	9.4	46
6	Co-precipitation of radium in high ionic strength systems: 1. Thermodynamic properties of the Naâ€”Raâ€”Clâ€”SO ₄ â€”H ₂ O system â€” Estimating Pitzer parameters for RaCl ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5389-5402.	3.9	36
7	Co-precipitation of radium in high ionic strength systems: 2. Kinetic and ionic strength effects. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5403-5422.	3.9	35
8	Radionuclide release from high burnup spent fuel during corrosion in salt brine in the presence of hydrogen overpressure. <i>Journal of Nuclear Materials</i> , 2005, 346, 24-31.	2.7	31
9	Barite recrystallization in the presence of ²²⁶ Ra and ¹³³ Ba. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 124-139.	3.9	31
10	Adsorption of dissolved aluminum on sapphire-c and kaolinite: implications for points of zero charge of clay minerals. <i>Geochemical Transactions</i> , 2014, 15, 9.	0.7	29
11	Nucleation and growth kinetics of RaxBa _{1-x} SO ₄ solid solution in NaCl aqueous solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 290-307.	3.9	24
12	Radium removal in a large scale evaporitic system. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 121-137.	3.9	20
13	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
14	Mineralogical characterization of scalings formed in geothermal sites in the Upper Rhine Graben before and after the application of sulfate inhibitors. <i>Geothermics</i> , 2018, 71, 264-273.	3.4	15
15	Effects of hydrogen and bromide on the corrosion of spent nuclear fuel and ²³⁸ U-irradiated UO ₂ (s) in NaCl brine. <i>Radiochimica Acta</i> , 2008, 96, 637-648.	1.2	14
16	Geochemically Based Safety Assessment. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 470-476.	1.3	11
17	Chemical status of U(VI) in cemented waste forms under saline conditions. <i>Radiochimica Acta</i> , 2010, 98, 674-683.	1.2	11
18	Net surface proton excess of smectites obtained from a combination of potentiometric acidâ€”base, mass and electrolyte titrations. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 412, 11-19.	4.7	7

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19	Geochemically derived non-gaseous radionuclide source term for the Asse salt mine " assessment for the use of a Mg(OH) ₂ -based backfill material. Radiochimica Acta, 2004, 92, 819-825.	1.2	6
20	Summary of the Euratom Collaborative Project FIRST-Nuclides and Conclusions for the Safety Case. Nuclear Technology, 2017, 198, 260-276.	1.2	4
21	Geochemically Based Safety Assessment. Journal of Nuclear Science and Technology, 2007, 44, 470-476.	1.3	4
22	Physico-chemical characterization of a spent UO ₂ fuel with respect to its stability under final disposal conditions. Materials Research Society Symposia Proceedings, 2014, 1665, 283-289.	0.1	3
23	Comparison of calculated and measured radionuclide inventory of a Zircaloy-4 cladding tube plenum section. MRS Advances, 2018, 3, 1031-1037.	0.9	3
24	Study of the release of the fission gases (Xe and Kr) and the fission products (Cs and I) under anoxic conditions in bicarbonate water. Materials Research Society Symposia Proceedings, 2015, 1744, 35-41.	0.1	2
25	Monte-Carlo based investigation of individual dosimetry in deep geological repository for high-level nuclear waste with consideration of realistic body postures. Annals of Nuclear Energy, 2021, 161, 108414.	1.8	1
26	Alteration Behavior of High Burnup Spent Fuel in Salt Brine Under Hydrogen Overpressure and in Presence of Bromide. Materials Research Society Symposia Proceedings, 2006, 985, 1.	0.1	0
27	Modelling Long-Term Corrosion of Cemented Waste Forms in Salt Brines. , 2009, , .		0
28	Radionuclide Source Term for the ASSE Salt Mine: Geochemical Assessment for the Use of Magnesium(II) Based Backfill Material. , 2003, , .		0
29	Site Specific Sorption Data for the Asse Salt Mine. , 2003, , .		0
30	Formation of (Ba,Ra)SO ₄ Solid Solutions " Results from Barite (Re)Precipitation and Coprecipitation Experiments. Springer Geology, 2011, , 635-642.	0.3	0
31	Interdisziplinäre Analysen von Entsorgungsoptionen für radioaktive Reststoffe " der Beitrag geochemisch-basierter Analysen. Energie in Naturwissenschaft, Technik, Wirtschaft Und Gesellschaft, 2016, , 17-23.	0.0	0