

Bertrand Fritz

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

610
citations

516681

16
h-index

642715

23
g-index

23
all docs

23
docs citations

23
times ranked

469
citing authors

#	ARTICLE	IF	CITATIONS
1	An ideal solid solution model for calculating solubility of clay minerals. <i>Clay Minerals</i> , 1981, 16, 361-373.	0.6	100
2	Modelling the long term alteration of the engineered bentonite barrier in an underground radioactive waste repository. <i>Applied Clay Science</i> , 2010, 47, 82-90.	5.2	81
3	Modelling of long-term diffusionâ€™reaction in a bentonite barrier for radioactive waste confinement. <i>Applied Clay Science</i> , 2005, 30, 181-198.	5.2	49
4	Simulation of the nucleation and growth of simple clay minerals in weathering processes: The NANOKIN code. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1340-1358.	3.9	39
5	Interactions of corrosion products and bentonite: An extended multicomponent reactive transport model. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1661-1668.	2.9	33
6	Nucleation, growth and ageing scenarios in closed systems I: A unified mathematical framework for precipitation, condensation and crystallization. <i>Journal of Crystal Growth</i> , 2006, 297, 180-186.	1.5	29
7	Numerical validation of a Eulerian hydrochemical code using a 1D multisolute mass transport system involving heterogeneous kinetically controlled reactions. <i>Journal of Contaminant Hydrology</i> , 1998, 30, 201-216.	3.3	27
8	Modeling of transport and reaction in an engineered barrier for radioactive waste confinement. <i>Applied Clay Science</i> , 2005, 29, 155-171.	5.2	26
9	Modelling acid stimulation in the enhanced geothermal system of Soultz-sous-ForÃªts (Alsace, France). <i>Geothermics</i> , 2020, 85, 101772.	3.4	26
10	Nucleation, growth and ageing scenarios in closed systems II: Dynamics of a new phase formation. <i>Journal of Crystal Growth</i> , 2006, 297, 187-198.	1.5	25
11	Coupled transport-reaction modeling of the long-term interaction between iron, bentonite and Callovo-Oxfordian claystone in radioactive waste confinement systems. <i>Applied Clay Science</i> , 2014, 101, 430-443.	5.2	21
12	Precipitation mechanism of amorphous silica nanoparticles: A simulation approach. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 553-563.	9.4	21
13	Simulation of the nucleation and growth of binary solid solutions in aqueous solutions. <i>Chemical Geology</i> , 2010, 269, 89-99.	3.3	20
14	Calcite formation by hydrothermal carbonation of portlandite: complementary insights from experiment and simulation. <i>CrystEngComm</i> , 2013, 15, 3392.	2.6	18
15	Hydrogeochemical modeling (KIRMAT) of spring and deep borehole water compositions in the small granitic Ringelbach catchment (Vosges Mountains, France). <i>Applied Geochemistry</i> , 2017, 87, 1-21.	3.0	17
16	Monitoring and reactive-transport modeling of the spatial and temporal variations of the Strengbach spring hydrochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 225, 17-35.	3.9	17
17	Crossing hydrological and geochemical modeling to understand the spatiotemporal variability of water chemistry in a headwater catchment (Strengbach, France). <i>Hydrology and Earth System Sciences</i> , 2020, 24, 3111-3133.	4.9	12
18	Kinetic modeling of interactions between iron, clay and water: Comparison with data from batch experiments. <i>Applied Geochemistry</i> , 2015, 53, 13-26.	3.0	11

#	ARTICLE	IF	CITATIONS
19	Modeling the impact of temperature on the saturation state and behavior of minerals in the Soultz-sous-Forêts geothermal system. <i>Geothermics</i> , 2016, 64, 196-208.	3.4	11
20	Investigating the role of deep weathering in critical zone evolution by reactive transport modeling of the geochemical composition of deep fracture water. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 312, 257-278.	3.9	11
21	Kinetics of precipitation of non-ideal solid-solutions in a liquid environment. <i>Chemical Geology</i> , 2016, 431, 20-35.	3.3	9
22	Theoretical analysis of the kinetics of precipitation of lizardite and magnesite from olivine alteration. <i>Chemical Geology</i> , 2018, 497, 18-26.	3.3	6
23	Modelling the precipitation of nanoparticles in a closed medium in the presence of seeds: Application to amorphous silica synthesis. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 843-852.	9.4	1