

Christof Beyer

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,013
citations

361045

20
h-index

414034

32
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38
all docs

38
docs citations

38
times ranked

855
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical analysis of a cement based thermal energy storage system with a helical heat exchanger. Applied Thermal Engineering, 2021, 185, 116339.	3.0	7
2	A modular cement-based subsurface heat storage: Performance test, model development and thermal impacts. Applied Energy, 2020, 279, 115823.	5.1	4
3	Experimental characterization of a lab-scale cement based thermal energy storage system. Applied Energy, 2019, 256, 113937.	5.1	11
4	Experimental data for the characterization of heat transfer processes in a cement based thermal energy storage system with helical heat exchanger. Data in Brief, 2019, 27, 104721.	0.5	3
5	A unified phase equilibrium model for hydrogen solubility and solution density. International Journal of Hydrogen Energy, 2018, 43, 512-529.	3.8	36
6	OpenGeoSys Tutorial. SpringerBriefs in Earth System Sciences, 2017, , .	0.0	0
7	Energy storage in the geological subsurface: dimensioning, risk analysis and spatial planning: the ANGUS+ project. Environmental Earth Sciences, 2017, 76, 1.	1.3	67
8	Experimental and numerical investigation of a scalable modular geothermal heat storage system. Energy Procedia, 2017, 125, 604-611.	1.8	2
9	Hydrogen storage in a heterogeneous sandstone formation: dimensioning and induced hydraulic effects. Petroleum Geoscience, 2017, 23, 315-326.	0.9	69
10	Thermo-hydro-mechanical analysis of cement-based sensible heat stores for domestic applications. Environmental Earth Sciences, 2016, 75, 1.	1.3	17
11	Parameterizability of processes in subsurface energy and mass storage. Environmental Earth Sciences, 2016, 75, 1.	1.3	8
12	Simulation of temperature effects on groundwater flow, contaminant dissolution, transport and biodegradation due to shallow geothermal use. Environmental Earth Sciences, 2016, 75, 1.	1.3	22
13	Temperature-dependent dissolution of residual non-aqueous phase liquids: model development and verification. Environmental Earth Sciences, 2016, 75, 1.	1.3	10
14	Model Development and Numerical Simulation of a Seasonal Heat Storage in a Contaminated Shallow Aquifer. Energy Procedia, 2015, 76, 361-370.	1.8	14
15	A parallelization scheme to simulate reactive transport in the subsurface environment with OGS#IPhreeqc 5.5.7-3.1.2. Geoscientific Model Development, 2015, 8, 3333-3348.	1.3	36
16	Quantifying Induced Effects of Subsurface Renewable Energy Storage. Energy Procedia, 2015, 76, 633-641.	1.8	29
17	Evaluation of the Role of Heterogeneities on Transverse Mixing in Bench-Scale Tank Experiments by Numerical Modeling. Ground Water, 2014, 52, 368-377.	0.7	14
18	OpenGeoSys-ChemApp: a coupled simulator for reactive transport in multiphase systems and application to CO2 storage formation in Northern Germany. Acta Geotechnica, 2014, 9, 67-79.	2.9	37

#	ARTICLE	IF	CITATIONS
19	Model based evaluation of a contaminant plume development under aerobic and anaerobic conditions in 2D bench-scale tank experiments. <i>Biodegradation</i> , 2014, 25, 351-371.	1.5	20
20	Impacts of the use of the geological subsurface for energy storage: an investigation concept. <i>Environmental Earth Sciences</i> , 2013, 70, 3935-3943.	1.3	138
21	Geochemical modelling of CO ₂ -water-rock interactions in a potential storage formation of the North German sedimentary basin. <i>Applied Geochemistry</i> , 2013, 36, 168-186.	1.4	27
22	CO ₂ -brine-mineral Interfacial Reactions Coupled with Fluid Phase Flow. <i>Energy Procedia</i> , 2013, 37, 3816-3824.	1.8	1
23	A systematic benchmarking approach for geologic CO ₂ injection and storage. <i>Environmental Earth Sciences</i> , 2012, 67, 613-632.	1.3	41
24	Modelling CO ₂ -induced fluid-rock interactions in the Altensalzwedel gas reservoir. Part II: coupled reactive transport simulation. <i>Environmental Earth Sciences</i> , 2012, 67, 573-588.	1.3	45
25	Modelling CO ₂ -induced fluid-rock interactions in the Altensalzwedel gas reservoir. Part I: from experimental data to a reference geochemical model. <i>Environmental Earth Sciences</i> , 2012, 67, 563-572.	1.3	49
26	Evaluation of transverse dispersion effects in tank experiments by numerical modeling: Parameter estimation, sensitivity analysis and revision of experimental design. <i>Journal of Contaminant Hydrology</i> , 2012, 134-135, 22-36.	1.6	17
27	Quantification of biodegradation for o-xylene and naphthalene using first order decay models, Michaelis-Menten kinetics and stable carbon isotopes. <i>Journal of Contaminant Hydrology</i> , 2009, 105, 118-130.	1.6	43
28	Influence of temporally variable groundwater flow conditions on point measurements and contaminant mass flux estimations. <i>Journal of Contaminant Hydrology</i> , 2009, 108, 118-133.	1.6	24
29	Modelling spatial variability and uncertainty of cadmium leaching to groundwater in an urban region. <i>Journal of Hydrology</i> , 2009, 369, 274-283.	2.3	11
30	Model-based prediction of long-term leaching of contaminants from secondary materials in road constructions and noise protection dams. <i>Waste Management</i> , 2009, 29, 839-850.	3.7	39
31	Using global node-based velocity in random walk particle tracking in variably saturated porous media: application to contaminant leaching from road constructions. <i>Environmental Geology</i> , 2008, 55, 1755-1766.	1.2	20
32	A study of preferential flow in heterogeneous media using random walk particle tracking. <i>Geosciences Journal</i> , 2008, 12, 285-297.	0.6	25
33	Determination of First-Order Degradation Rate Constants from Monitoring Networks. <i>Ground Water</i> , 2007, 45, 774-785.	0.7	26
34	Assessing measurement uncertainty of first-order degradation rates in heterogeneous aquifers. <i>Water Resources Research</i> , 2006, 42, .	1.7	44
35	Uncertainty assessment of contaminant plume length estimates in heterogeneous aquifers. <i>Journal of Contaminant Hydrology</i> , 2006, 87, 73-95.	1.6	34
36	Distribution of Cd in the vicinity of a metal smelter: Interpolation of soil Cd concentrations with regard to regulative limits. <i>Journal of Plant Nutrition and Soil Science</i> , 2002, 165, 697-705.	1.1	10