Christof Beyer

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3394605/publications.pdf

Version: 2024-02-01

36	1,013	361045	414034
papers	citations	20	32
		h-index	g-index

38	38	38	855
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Impacts of the use of the geological subsurface for energy storage: an investigation concept. Environmental Earth Sciences, 2013, 70, 3935-3943.	1.3	138
2	Hydrogen storage in a heterogeneous sandstone formation: dimensioning and induced hydraulic effects. Petroleum Geoscience, 2017, 23, 315-326.	0.9	69
3	Energy storage in the geological subsurface: dimensioning, risk analysis and spatial planning: the ANGUS+ project. Environmental Earth Sciences, 2017, 76, 1.	1.3	67
4	Modelling CO2-induced fluidâ€“rock interactions in the Altensalzwedel gas reservoir. Part I: from experimental data to a reference geochemical model. Environmental Earth Sciences, 2012, 67, 563-572.	1.3	49
5	Modelling CO2-induced fluidâ€“rock interactions in the Altensalzwedel gas reservoir. Part II: coupled reactive transport simulation. Environmental Earth Sciences, 2012, 67, 573-588.	1.3	45
6	Assessing measurement uncertainty of first-order degradation rates in heterogeneous aquifers. Water Resources Research, 2006, 42, .	1.7	44
7	Quantification of biodegradation for o-xylene and naphthalene using first order decay models, Michaelisâ€“Menten kinetics and stable carbon isotopes. Journal of Contaminant Hydrology, 2009, 105, 118-130.	1.6	43
8	A systematic benchmarking approach for geologic CO2 injection and storage. Environmental Earth Sciences, 2012, 67, 613-632.	1.3	41
9	Model-based prediction of long-term leaching of contaminants from secondary materials in road constructions and noise protection dams. Waste Management, 2009, 29, 839-850.	3.7	39
10	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
11	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
12	A unified phase equilibrium model for hydrogen solubility and solution density. International Journal of Hydrogen Energy, 2018, 43, 512-529.	3.8	36
13	Uncertainty assessment of contaminant plume length estimates in heterogeneous aquifers. Journal of Contaminant Hydrology, 2006, 87, 73-95.	1.6	34
14	Quantifying Induced Effects of Subsurface Renewable Energy Storage. Energy Procedia, 2015, 76, 633-641.	1.8	29
15	Geochemical modelling of CO2â€“waterâ€“rock interactions in a potential storage formation of the North German sedimentary basin. Applied Geochemistry, 2013, 36, 168-186.	1.4	27
16	Determination of First-Order Degradation Rate Constants from Monitoring Networks. Ground Water, 2007, 45, 774-785.	0.7	26
17	A study of preferential flow in heterogeneous media using random walk particle tracking. Geosciences Journal, 2008, 12, 285-297.	0.6	25
18	Influence of temporally variable groundwater flow conditions on point measurements and contaminant mass flux estimations. Journal of Contaminant Hydrology, 2009, 108, 118-133.	1.6	24

#	Article	IF	Citations
19	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
20	Using global node-based velocity in random walk particle tracking in variably saturated porous media: application to contaminant leaching from road constructions. Environmental Geology, 2008, 55, 1755-1766.	1.2	20
21	Model based evaluation of a contaminant plume development under aerobic and anaerobic conditions in 2D bench-scale tank experiments. Biodegradation, 2014, 25, 351-371.	1.5	20
22	Evaluation of transverse dispersion effects in tank experiments by numerical modeling: Parameter estimation, sensitivity analysis and revision of experimental design. Journal of Contaminant Hydrology, 2012, 134-135, 22-36.	1.6	17
23	Thermo-hydro-mechanical analysis of cement-based sensible heat stores for domestic applications. Environmental Earth Sciences, 2016, 75, 1.	1.3	17
24	Evaluation of the Role of Heterogeneities on Transverse Mixing in Benchâ€Scale Tank Experiments by Numerical Modeling. Ground Water, 2014, 52, 368-377.	0.7	14
25	Model Development and Numerical Simulation of a Seasonal Heat Storage in a Contaminated Shallow Aquifer. Energy Procedia, 2015, 76, 361-370.	1.8	14
26	Modelling spatial variability and uncertainty of cadmium leaching to groundwater in an urban region. Journal of Hydrology, 2009, 369, 274-283.	2.3	11
27	Experimental characterization of a lab-scale cement based thermal energy storage system. Applied Energy, 2019, 256, 113937.	5.1	11
28	Distribution of Cd in the vicinity of a metal smelter: Interpolation of soil Cd concentrations with regard to regulative limits. Journal of Plant Nutrition and Soil Science, 2002, 165, 697-705.	1.1	10
29	Temperature-dependent dissolution of residual non-aqueous phase liquids: model development and verification. Environmental Earth Sciences, 2016, 75, 1.	1.3	10
30	Parameterizability of processes in subsurface energy and mass storage. Environmental Earth Sciences, 2016, 75, 1.	1.3	8
31	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
32	A modular cement-based subsurface heat storage: Performance test, model development and thermal impacts. Applied Energy, 2020, 279, 115823.	5.1	4
33	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
34	Experimental and numerical investigation of a scalable modular geothermal heat storage system. Energy Procedia, 2017, 125, 604-611.	1.8	2
35	CO2-brine-mineral Interfacial Reactions Coupled with Fluid Phase Flow. Energy Procedia, 2013, 37, 3816-3824.	1.8	1
36	OpenGeoSys Tutorial. SpringerBriefs in Earth System Sciences, 2017, , .	0.0	0