

Michelle R Plampin

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

157
citations

1307594

7
h-index

1199594

12
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15
all docs

15
docs citations

15
times ranked

145
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental study of gas evolution in heterogeneous shallow subsurface formations during leakage of stored CO ₂ . <i>International Journal of Greenhouse Gas Control</i> , 2014, 22, 47-62.	4.6	34
2	What controls carbon dioxide gas phase evolution in the subsurface? Experimental observations in a 4.5 m-long column under different heterogeneity conditions. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 66-77.	4.6	27
3	Heterogeneity-enhanced gas phase formation in shallow aquifers during leakage of CO ₂ saturated water from geologic sequestration sites. <i>Water Resources Research</i> , 2014, 50, 9251-9266.	4.2	24
4	Effects of geologic heterogeneity on migration of gaseous CO ₂ using laboratory and modeling investigations. <i>International Journal of Greenhouse Gas Control</i> , 2015, 43, 213-224.	4.6	22
5	CO ₂ leakage in shallow aquifers: A benchmark modeling study of CO ₂ gas evolution in heterogeneous porous media. <i>International Journal of Greenhouse Gas Control</i> , 2015, 39, 51-61.	4.6	14
6	Intermediate-scale Experimental Study to Improve Fundamental Understanding of Attenuation Capacity for Leaking CO ₂ in Heterogeneous Shallow Aquifers. <i>Water Resources Research</i> , 2017, 53, 10121-10138.	4.2	11
7	Dimensional effects of inter-phase mass transfer on attenuation of structurally trapped gaseous carbon dioxide in shallow aquifers. <i>Journal of Computational Physics</i> , 2020, 405, 109178.	3.8	8
8	CO ₂ Leakage Into Shallow Aquifers: Modeling CO ₂ Gas Evolution and Accumulation at Interfaces of Heterogeneity. <i>Energy Procedia</i> , 2014, 63, 3253-3260.	1.8	5
9	Multiphase flow and underpressured shale at the Bruce nuclear site, Ontario, Canada. <i>Geological Society Special Publication</i> , 2019, 482, 101-114.	1.3	5
10	Multi-scale Experimentation and Numerical Modeling for Process Understanding of CO ₂ Attenuation in the shallow subsurface. <i>Energy Procedia</i> , 2014, 63, 4824-4833.	1.8	4
11	Glacially Induced Hydromechanical Coupling in Shale May Have Caused Underpressured Water in the Eastern Michigan Basin Despite the Possible Presence of Gas Phase Methane. <i>Geophysical Research Letters</i> , 2019, 46, 8125-8132.	4.0	1
12	Potential Pb ²⁺ mobilization, transport, and sequestration in shallow aquifers impacted by multiphase CO ₂ leakage: a natural analogue study from the Virgin River Basin in SW Utah. <i>Petroleum Geoscience</i> , 2021, 27, petgeo2020-109.	1.5	1
13	COMPUTATIONAL METHODOLOGY TO ANALYZE THE EFFECT OF MASS TRANSFER RATE ON ATTENUATION OF LEAKED CARBON DIOXIDE IN SHALLOW AQUIFERS. <i>Acta Polytechnica</i> , 2021, 61, 77-88.	0.6	0
14	Possible Effects of Multiphase Methane Evolution During a Glacial Cycle on Underpressure Development in Sedimentary Basins: An Analysis With Application to the Northeast Michigan Basin. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	0