

Umer Saleem

List of Publications by Year in descending order

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22
papers

565
citations

759233

12
h-index

713466

21
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22
all docs

22
docs citations

22
times ranked

511
citing authors

#	ARTICLE	IF	CITATIONS
1	Sacrificial 3D Printing of Highly Porous, Soft Pressure Sensors. <i>Advanced Electronic Materials</i> , 2022, 8, 2100597.	5.1	16
2	Fluid-fluid interactions in pseudopotential lattice Boltzmann models: Effects of model schemes and fluid properties. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 1578-1605.	1.6	0
3	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO ₂ release. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103237.	4.6	39
4	Multiscale characterisation of chimneys/pipes: Fluid escape structures within sedimentary basins. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103245.	4.6	13
5	Numerical modelling of CO ₂ migration in heterogeneous sediments and leakage scenario for STEMM-CCS field experiments. <i>International Journal of Greenhouse Gas Control</i> , 2021, 109, 103339.	4.6	8
6	Analysis of the physicochemical detectability and impacts of offshore CO ₂ leakage through multi-scale modelling of in-situ experimental data using the PLUME model. <i>International Journal of Greenhouse Gas Control</i> , 2021, 110, 103441.	4.6	7
7	Multipseudopotential interaction models for thermal lattice Boltzmann method simulations. <i>Physical Review E</i> , 2020, 102, 013311.	2.1	9
8	Modeling of thermal impacts in a single direct methane steam reforming solid oxide fuel cell. <i>Journal of Power Sources</i> , 2020, 472, 228605.	7.8	14
9	Impact and detectability of hypothetical CCS offshore seep scenarios as an aid to storage assurance and risk assessment. <i>International Journal of Greenhouse Gas Control</i> , 2020, 95, 102949.	4.6	31
10	Reacting flow coupling with thermal impacts in a single solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 8425-8438.	7.1	23
11	3D Printing of Highly Stretchable and Sensitive Strain Sensors Using Graphene Based Composites. <i>Proceedings (mdpi)</i> , 2018, 2, .	0.2	28
12	On nonequilibrium shrinkage of supercritical CO ₂ droplets in a water-carrier microflow. <i>Applied Physics Letters</i> , 2018, 113, 033703.	3.3	5
13	Using Bayes Theorem to Quantify and Reduce Uncertainties when Monitoring Varying Marine Environments for Indications of a Leak. <i>Energy Procedia</i> , 2017, 114, 3607-3612.	1.8	5
14	Density Measurement and Modeling of CO ₂ -Brine System at Temperature and Pressure Corresponding to Storage Conditions. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 873-880.	1.9	6
15	Dynamics of rising CO ₂ bubble plumes in the QICS field experiment. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 52-63.	4.6	36
16	Multipseudopotential interaction: A solution for thermodynamic inconsistency in pseudopotential lattice Boltzmann models. <i>Physical Review E</i> , 2015, 91, 023301.	2.1	29
17	Dynamics of rising CO ₂ bubble plumes in the QICS field experiment. <i>International Journal of Greenhouse Gas Control</i> , 2015, 38, 44-51.	4.6	31
18	Detection and impacts of leakage from sub-seafloor deep geological carbon dioxide storage. <i>Nature Climate Change</i> , 2014, 4, 1011-1016.	18.8	159

#	ARTICLE	IF	CITATIONS
19	Small-scale modelling of the physiochemical impacts of CO ₂ leaked from sub-seabed reservoirs or pipelines within the North Sea and surrounding waters. Marine Pollution Bulletin, 2013, 73, 504-515.	5.0	54
20	Simulation of the Near Field Physiochemical Impact of CO ₂ Leakage into Shallow Water in the North Sea. Energy Procedia, 2013, 37, 3413-3423.	1.8	7
21	Modeling near-field dispersion from direct injection of carbon dioxide into the ocean. Journal of Geophysical Research, 2005, 110, .	3.3	30
22	Measurement of the Density of CO ₂ Solution by Mach-Zehnder Interferometry. Annals of the New York Academy of Sciences, 2002, 972, 206-212.	3.8	15