Umer Saleem

List of Publications by Year
in descending order

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		759233	713466
22	565	12	21
papers	citations	h-index	g-index

22	22	22	511
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection and impacts of leakage from sub-seafloor deep geological carbon dioxide storage. Nature Climate Change, 2014, 4, 1011-1016.	18.8	159
2	Small-scale modelling of the physiochemical impacts of CO2 leaked from sub-seabed reservoirs or pipelines within the North Sea and surrounding waters. Marine Pollution Bulletin, 2013, 73, 504-515.	5.0	54
3	Towards improved monitoring of offshore carbon storage: A real-world field experiment detecting a controlled sub-seafloor CO2 release. International Journal of Greenhouse Gas Control, 2021, 106, 103237.	4.6	39
4	Dynamics of rising CO 2 bubble plumes in the QICS field experiment. International Journal of Greenhouse Gas Control, 2015, 38, 52-63.	4.6	36
5	Dynamics of rising CO 2 bubble plumes in the QICS field experiment. International Journal of Greenhouse Gas Control, 2015, 38, 44-51.	4.6	31
6	Impact and detectability of hypothetical CCS offshore seep scenarios as an aid to storage assurance and risk assessment. International Journal of Greenhouse Gas Control, 2020, 95, 102949.	4.6	31
7	Modeling near-field dispersion from direct injection of carbon dioxide into the ocean. Journal of Geophysical Research, 2005, 110, .	3.3	30
8	Multipseudopotential interaction: A solution for thermodynamic inconsistency in pseudopotential lattice Boltzmann models. Physical Review E, 2015, 91, 023301.	2.1	29
9	3D Printing of Highly Stretchable and Sensitive Strain Sensors Using Graphene Based Composites. Proceedings (mdpi), 2018, 2, .	0.2	28
10	Reacting flow coupling with thermal impacts in a single solid oxide fuel cell. International Journal of Hydrogen Energy, 2019, 44, 8425-8438.	7.1	23
11	Sacrificial 3D Printing of Highly Porous, Soft Pressure Sensors. Advanced Electronic Materials, 2022, 8, 2100597.	5.1	16
12	Measurement of the Density of CO₂ Solution by Machâ€Zehnder Interferometry. Annals of the New York Academy of Sciences, 2002, 972, 206-212.	3.8	15
13	Modeling of thermal impacts in a single direct methane steam reforming solid oxide fuel cell. Journal of Power Sources, 2020, 472, 228605.	7.8	14
14	Multiscale characterisation of chimneys/pipes: Fluid escape structures within sedimentary basins. International Journal of Greenhouse Gas Control, 2021, 106, 103245.	4.6	13
15	Multipseudopotential interaction models for thermal lattice Boltzmann method simulations. Physical Review E, 2020, 102, 013311.	2.1	9
16	Numerical modelling of CO2 migration in heterogeneous sediments and leakage scenario for STEMM-CCS field experiments. International Journal of Greenhouse Gas Control, 2021, 109, 103339.	4.6	8
17	Simulation of the Near Field Physiochemical Impact of CO2 Leakage into Shallow Water in the North Sea. Energy Procedia, 2013, 37, 3413-3423.	1.8	7
18	Analysis of the physicochemical detectability and impacts of offshore CO2 leakage through multi-scale modelling of in-situ experimental data using the PLUME model. International Journal of Greenhouse Gas Control, 2021, 110, 103441.	4.6	7

#	Article	IF	Citations
19	Density Measurement and Modeling of CO₂â^'Brine System at Temperature and Pressure Corresponding to Storage Conditions. Journal of Chemical & Engineering Data, 2016, 61, 873-880.	1.9	6
20	Using Bayes Theorem to Quantify and Reduce Uncertainties when Monitoring Varying Marine Environments for Indications of a Leak. Energy Procedia, 2017, 114, 3607-3612.	1.8	5
21	On nonequilibrium shrinkage of supercritical CO2 droplets in a water-carrier microflow. Applied Physics Letters, 2018, 113, 033703.	3.3	5
22	Fluidâ€“fluid interactions in pseudopotential lattice Boltzmann models: Effects of model schemes and fluid properties. International Journal for Numerical Methods in Fluids, 2021, 93, 1578-1605.	1.6	0