Julien Maes

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3951098/publications.pdf

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15	467	933447 10	1058476 14
papers	citations	h-index	g-index

15	15	15	460
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comprehensive comparison of pore-scale models for multiphase flow in porous media. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13799-13806.	7.1	162
2	A new compressive scheme to simulate species transfer across fluid interfaces using the Volume-Of-Fluid method. Chemical Engineering Science, 2018, 190, 405-418.	3.8	57
3	Direct pore-scale reactive transport modelling of dynamic wettability changes induced by surface complexation. Advances in Water Resources, 2018, 111, 6-19.	3.8	50
4	A unified single-field Volume-of-Fluid-based formulation for multi-component interfacial transfer with local volume changes. Journal of Computational Physics, 2020, 402, 109024.	3.8	32
5	Scaling analysis of the In-Situ Upgrading of heavy oil and oil shale. Fuel, 2017, 195, 299-313.	6.4	29
6	Comparison of Flow and Transport Experiments on 3D Printed Micromodels with Direct Numerical Simulations. Transport in Porous Media, 2019, 129, 449-466.	2.6	27
7	Spontaneous imbibition in a microchannel: analytical solution and assessment of volume of fluid formulations. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	25
8	Computational Microfluidics for Geosciences. Frontiers in Water, 2021, 3, .	2.3	24
9	GeoChemFoam: Direct Modelling of Multiphase Reactive Transport in Real Pore Geometries with Equilibrium Reactions. Transport in Porous Media, 2021, 139, 271-299.	2.6	16
10	Towards pore network modelling of spontaneous imbibition: contact angle dependent invasion patterns and the occurrence of dynamic capillary barriers. Computational Geosciences, 2020, 24, 951-969.	2.4	13
11	Modelling in-situ upgrading of heavy oil using operator splitting method. Computational Geosciences, 2016, 20, 581-594.	2.4	10
12	Benchmarking the Viability of 3D Printed Micromodels for Single Phase Flow Using Particle Image Velocimetry and Direct Numerical Simulations. Transport in Porous Media, 2022, 141, 279-294.	2.6	9
13	Scaling heat and mass flow through porous media during pyrolysis. Heat and Mass Transfer, 2015, 51, 313-334.	2.1	5
14	GeoChemFoam: Direct modelling of flow and heat transfer in micro-CT images of porous media. Heat and Mass Transfer, 2022, 58, 1937-1947.	2.1	4
15	Improved Volume-Of-Solid Formulations for Micro-Continuum Simulation of Mineral Dissolution at the Pore-Scale. Frontiers in Earth Science, 0, 10, .	1.8	4