

# Julien Maes

## List of Publications by Year in descending order

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

Version: 2024-02-01

15  
papers

467  
citations

933447

10  
h-index

1058476

14  
g-index

15  
all docs

15  
docs citations

15  
times ranked

460  
citing authors

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