

Sophie Roman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1997033/publications.pdf>

Version: 2024-02-01

15
papers

751
citations

759233

12
h-index

996975

15
g-index

16
all docs

16
docs citations

16
times ranked

800
citing authors

#	ARTICLE	IF	CITATIONS
1	Mineral dissolution and wormholing from a pore-scale perspective. Journal of Fluid Mechanics, 2017, 827, 457-483.	3.4	141
2	The Impact of Sub-Resolution Porosity of X-ray Microtomography Images on the Permeability. Transport in Porous Media, 2016, 113, 227-243.	2.6	139
3	Pore-scale modelling of multiphase reactive flow: application to mineral dissolution with production of. Journal of Fluid Mechanics, 2018, 855, 616-645.	3.4	75
4	Simulation of mineral dissolution at the pore scale with evolving fluid-solid interfaces: review of approaches and benchmark problem set. Computational Geosciences, 2021, 25, 1285-1318.	2.4	72
5	Particle velocimetry analysis of immiscible two-phase flow in micromodels. Advances in Water Resources, 2016, 95, 199-211.	3.8	68
6	Creation of a dual-porosity and dual-depth micromodel for the study of multiphase flow in complex porous media. Lab on A Chip, 2017, 17, 1462-1474.	6.0	58
7	Measurements and simulation of liquid films during drainage displacements and snap-off in constricted capillary tubes. Journal of Colloid and Interface Science, 2017, 507, 279-289.	9.4	55
8	Going beyond 20 μ m-sized channels for studying red blood cell phase separation in microfluidic bifurcations. Biomicrofluidics, 2016, 10, 034103.	2.4	36
9	Microfluidic flow-through reactor and 3D Raman imaging for in situ assessment of mineral reactivity in porous and fractured porous media. Lab on A Chip, 2020, 20, 2562-2571.	6.0	29
10	Velocimetry of red blood cells in microvessels by the dual-slit method: Effect of velocity gradients. Microvascular Research, 2012, 84, 249-261.	2.5	24
11	Computational Microfluidics for Geosciences. Frontiers in Water, 2021, 3, .	2.3	24
12	Pore-scale visualization and characterization of viscous dissipation in porous media. Journal of Colloid and Interface Science, 2020, 558, 269-279.	9.4	23
13	Digital Rock Physics: computation of hydrodynamic dispersion. Oil and Gas Science and Technology, 2021, 76, 51.	1.4	2
14	Fabrication of Microfluidic Devices for the study of Ion transport through Single-Walled Carbon Nanotubes. MRS Advances, 2016, 1, 2085-2090.	0.9	1
15	La microfluidique infiltre les géosciences. Pourlascience Fr, 2022, N° 535 " mai, 50-58.	0.0	0