Maja RÃ¼cker

List of Publications by Year
in descending order

23 papers	1,138 citations	567281 15 h-index	642732 23 g-index
28 all docs	28 docs citations	28 times ranked	853 citing authors

#	Article	IF	Citations
1	From connected pathway flow to ganglion dynamics. Geophysical Research Letters, 2015, 42, 3888-3894.	4.0	204
2	Beyond Darcy's law: The role of phase topology and ganglion dynamics for two-fluid flow. Physical Review E, 2016, 94, 043113.	2.1	167
3	Poreâ€scale displacement mechanisms as a source of hysteresis for twoâ€phase flow in porous media. Water Resources Research, 2016, 52, 2194-2205.	4.2	145
4	Connected pathway relative permeability from pore-scale imaging of imbibition. Advances in Water Resources, 2016, 90, 24-35.	3.8	113
5	The Effect of Mixed Wettability on Poreâ€Scale Flow Regimes Based on a Flooding Experiment in Ketton Limestone. Geophysical Research Letters, 2019, 46, 3225-3234.	4.0	76
6	Relationship between wetting and capillary pressure in a crude oil/brine/rock system: From nano-scale to core-scale. Journal of Colloid and Interface Science, 2020, 562, 159-169.	9.4	62
7	Subsecond poreâ€scale displacement processes and relaxation dynamics in multiphase flow. Water Resources Research, 2014, 50, 9162-9176.	4.2	49
8	Signature of elastic turbulence of viscoelastic fluid flow in a single pore throat. Physical Review E, 2020, 101, 042605.	2.1	43
9	Multiscale Characterization of Wettability in Porous Media. Transport in Porous Media, 2021, 140, 215-240.	2.6	42
10	Imaging of compositional gradients during in situ emulsification using X-ray micro-tomography. Journal of Colloid and Interface Science, 2019, 550, 159-169.	9.4	34
11	Assessing the wetting state of minerals in complex sandstone rock in-situ by Atomic Force Microscopy (AFM). Fuel, 2020, 273, 117807.	6.4	28
12	Verifying Pore Network Models of Imbibition in Rocks Using Timeâ€Resolved Synchrotron Imaging. Water Resources Research, 2020, 56, e2019WR026587.	4.2	27
13	Imaging Spontaneous Imbibition in Full Darcyâ€Scale Samples at Poreâ€Scale Resolution by Fast Xâ€ray Tomography. Water Resources Research, 2019, 55, 7072-7085.	4.2	25
14	Realâ€Time Imaging Reveals Distinct Poreâ€Scale Dynamics During Transient and Equilibrium Subsurface Multiphase Flow. Water Resources Research, 2020, 56, e2020WR028287.	4.2	22
15	The Origin of Non-thermal Fluctuations in Multiphase Flow in Porous Media. Frontiers in Water, 2021, 3, .	2.3	19
16	Determination of the spatial distribution of wetting in the pore networks of rocks. Journal of Colloid and Interface Science, 2022, 613, 786-795.	9.4	17
17	The development of intermittent multiphase fluid flow pathways through a porous rock. Advances in Water Resources, 2021, 150, 103868.	3.8	16
18	Surrogate Models for Studying the Wettability of Nanoscale Natural Rough Surfaces Using Molecular Dynamics. Energies, 2020, 13, 2770.	3.1	11

#	Article	IF	Citations
19	Atomic Force Microscopy (AFM) study of redox conditions in sandstones: Impact on wettability modification and mineral morphology. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 597, 124765.	4.7	9
20	A New Waterflood Initialization Protocol With Wettability Alteration for Pore-Scale Multiphase Flow Experiments. Petrophysics, 2019, 60, 264-272.	0.3	9
21	Novel adsorption mechanisms identified for polymer retention in carbonate rocks. Jcis Open, 2021, 4, 100026.	3.2	7
22	Red Noise in Steadyâ€State Multiphase Flow in Porous Media. Water Resources Research, 2022, 58, .	4.2	7
23	Atomic force microscopy for the characterisation of pinning effects of seawater micro-droplets in n-decane on a calcite surface. Journal of Colloid and Interface Science, 2021, 592, 397-404.	9.4	4