Farshid Mostowfi

List of Publications by Year
in descending order

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41 papers	2,080 citations	304368 22 h-index	329751 37 g-index
41 all docs	41 docs citations	41 times ranked	1645 citing authors

#	Article	IF	Citations
1	Advances in Asphaltene Science and the Yenâ€“Mullins Model. Energy & Fuels, 2012, 26, 3986-4003.	2.5	789
2	Asphaltene Nanoaggregates Studied by Centrifugation. Energy & Fuels, 2009, 23, 1194-1200.	2.5	146
3	On the formation and properties of asphaltene nanoaggregates and clusters by DC-conductivity and centrifugation. Fuel, 2011, 90, 2480-2490.	3.4	118
4	Microfluidic and nanofluidic phase behaviour characterization for industrial CO₂, oil and gas. Lab on A Chip, 2017, 17, 2740-2759.	3.1	83
5	Determining phase diagrams of gasâ€“liquid systems using a microfluidic PVT. Lab on A Chip, 2012, 12, 4381.	3.1	66
6	Capillary Condensation in 8 nm Deep Channels. Journal of Physical Chemistry Letters, 2018, 9, 497-503.	2.1	65
7	Measurement of Asphaltenes Using Optical Spectroscopy on a Microfluidic Platform. Analytical Chemistry, 2013, 85, 5153-5160.	3.2	58
8	Nanomodel visualization of fluid injections in tight formations. Nanoscale, 2018, 10, 21994-22002.	2.8	56
9	Condensation in One-Dimensional Dead-End Nanochannels. ACS Nano, 2017, 11, 304-313.	7.3	52
10	Bubble nucleation and growth in nanochannels. Physical Chemistry Chemical Physics, 2017, 19, 8223-8229.	1.3	48
11	Nanoscale Phase Measurement for the Shale Challenge: Multicomponent Fluids in Multiscale Volumes. Langmuir, 2018, 34, 9927-9935.	1.6	45
12	Cluster of Asphaltene Nanoaggregates by DC Conductivity and Centrifugation. Energy & Fuels, 2014, 28, 5002-5013.	2.5	41
13	Asphaltene Content Measurement Using an Optical Spectroscopy Technique. Energy & Fuels, 2013, 27, 2452-2457.	2.5	40
14	Direct Visualization of Evaporation in a Two-Dimensional Nanoporous Model for Unconventional Natural Gas. ACS Applied Nano Materials, 2018, 1, 1332-1338.	2.4	40
15	Equilibrium gasâ€“oil ratio measurements using a microfluidic technique. Lab on A Chip, 2013, 13, 2623.	3.1	34
16	Natural gas vaporization in a nanoscale throat connected model of shale: multi-scale, multi-component and multi-phase. Lab on A Chip, 2019, 19, 272-280.	3.1	30
17	Condensation in Nanoporous Packed Beds. Langmuir, 2016, 32, 4494-4499.	1.6	28
18	A microfluidic electrochemical detection technique for assessing stability of thin films and emulsions. Journal of Colloid and Interface Science, 2008, 317, 593-603.	5.0	27

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19	A model of a bubble train flow accompanied with mass transfer through a long microchannel. International Journal of Heat and Fluid Flow, 2012, 33, 147-155.	1.1	27
20	Electric field mediated breakdown of thin liquid films separating microscopic emulsion droplets. Applied Physics Letters, 2007, 90, 184102.	1.5	26
21	Asphaltenes yield curve measurements on a microfluidic platform. Lab on A Chip, 2015, 15, 4062-4074.	3.1	25
22	Pressure drop of slug flow in microchannels with increasing void fraction: experiment and modeling. Lab on A Chip, 2011, 11, 1968.	3.1	24
23	Optical Measurement of Saturates, Aromatics, Resins, And Asphaltenes in Crude Oil. Energy & Fuels, 2017, 31, 3684-3697.	2.5	23
24	Microfluidic PVT--Saturation Pressure and Phase-Volume Measurement of Black Oils. SPE Reservoir Evaluation and Engineering, 2017, 20, 233-239.	1.1	22
25	Direct visualization of fluid dynamics in sub-10 nm nanochannels. Nanoscale, 2017, 9, 9556-9561.	2.8	22
26	Microfluidic technique for measuring wax appearance temperature of reservoir fluids. Lab on A Chip, 2016, 16, 3795-3803.	3.1	21
27	Microfluidic Approach for Evaluating the Solubility of Crude Oil Asphaltenes. Energy & Fuels, 2016, 30, 1933-1946.	2.5	21
28	Determination of boron concentration in oilfield water with a microfluidic ion exchange resin instrument. Talanta, 2016, 154, 304-311.	2.9	13
29	Fluorescence in sub-10 nm channels with an optical enhancement layer. Lab on A Chip, 2018, 18, 568-573.	3.1	13
30	Simulations of gravity-driven flow of binary liquids in microchannels. Chemical Engineering Journal, 2011, 171, 646-654.	6.6	12
31	Lattice Boltzmann study of mass transfer for two-dimensional Bretherton/Taylor bubble train flow. Chemical Engineering Journal, 2013, 225, 580-596.	6.6	12
32	Determination of boron in produced water using the carminic acid assay. Talanta, 2016, 150, 240-252.	2.9	11
33	Microfluidic Platform for PVT Measurements. , 2014, , .		9
34	Measuring Asphaltene Deposition Onset from Crude Oils Using Surface Plasmon Resonance. Energy & Fuels, 2017, 31, 5891-5901.	2.5	9
35	Two-Phase Flow in Microchannels: The Case of Binary Mixtures. Industrial & Engineering Chemistry Research, 2013, 52, 941-953.	1.8	6
36	Rapid determination of boron in oilfield water using a microfluidic instrument. Analytical Methods, 2017, 9, 1948-1955.	1.3	6

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37	Novel Microfluidic Device for Dew Point Pressure Measurement of Retrograde Gas Condensates. Energy & Fuels, 2021, 35, 11154-11161.	2.5	6
38	Evaluation of crude oil asphaltene deposition inhibitors by surface plasmon resonance. Fuel, 2020, 273, 117787.	3.4	4
39	Novel Measurement of Asphaltene Content in Oil Using Microfluidic Technology. , 2013, , .		2
40	Pressure Drop of Accelerating Slug Flow in Microchannels: Modeling and Experiment. , 2010, , .		0
41	Electrohydrodynamic Instabilities in Free Emulsion Films. Colloids and Interfaces, 2021, 5, 36.	0.9	0