Lamia Goual

List of Publications by Year
in descending order

56 papers	3,497 citations	172457 29 h-index	168389 53 g-index
58 all docs	58 docs citations	58 times ranked	2383 citing authors

#	Article	IF	Citations
1	Advances in Asphaltene Science and the Yenâ€“Mullins Model. Energy & Fuels, 2012, 26, 3986-4003.	5.1	789
2	Effect of Asphaltene Structure on Association and Aggregation Using Molecular Dynamics. Journal of Physical Chemistry B, 2013, 117, 5765-5776.	2.6	277
3	Wettability of Supercritical Carbon Dioxide/Water/Quartz Systems: Simultaneous Measurement of Contact Angle and Interfacial Tension at Reservoir Conditions. Langmuir, 2013, 29, 6856-6866.	3.5	211
4	Asphaltene Aggregation and Impact of Alkylphenols. Langmuir, 2014, 30, 5394-5403.	3.5	161
5	Measuring asphaltenes and resins, and dipole moment in petroleum fluids. AICHE Journal, 2002, 48, 2646-2663.	3.6	144
6	On the formation and properties of asphaltene nanoaggregates and clusters by DC-conductivity and centrifugation. Fuel, 2011, 90, 2480-2490.	6.4	118
7	Dynamic interfacial tension and wettability of shale in the presence of surfactants at reservoir conditions. Fuel, 2015, 148, 127-138.	6.4	108
8	The effects of SO2 contamination, brine salinity, pressure, and temperature on dynamic contact angles and interfacial tension of supercritical CO2/brine/quartz systems. International Journal of Greenhouse Gas Control, 2014, 28, 147-155.	4.6	107
9	Role of Resins on Asphaltene Stability. Energy & Fuels, 2010, 24, 2275-2280.	5.1	92
10	Adsorption of Crude Oil on Surfaces Using Quartz Crystal Microbalance with Dissipation (QCM-D) under Flow Conditions. Energy & Fuels, 2009, 23, 1237-1248.	5.1	90
11	Atomistic Molecular Dynamics Simulations of Crude Oil/Brine Displacement in Calcite Mesopores. Langmuir, 2016, 32, 3375-3384.	3.5	85
12	Effect of resins and DBSA on asphaltene precipitation from petroleum fluids. AICHE Journal, 2004, 50, 470-479.	3.6	82
13	Molecular Dynamics Simulations of CO₂/Water/Quartz Interfacial Properties: Impact of CO₂ Dissolution in Water. Langmuir, 2015, 31, 5812-5819.	3.5	81
14	Adsorption of Asphaltenes in Porous Media under Flow Conditions. Energy & Fuels, 2010, 24, 6009-6017.	5.1	68
15	Micro-scale displacement of NAPL by surfactant and microemulsion in heterogeneous porous media. Advances in Water Resources, 2017, 105, 173-187.	3.8	66
16	Adsorption of Bituminous Components at Oil/Water Interfaces Investigated by Quartz Crystal Microbalance:Â Implications to the Stability of Water-in-Oil Emulsions. Langmuir, 2005, 21, 8278-8289.	3.5	64
17	Impedance Spectroscopy of Petroleum Fluids at Low Frequency. Energy & Fuels, 2009, 23, 2090-2094.	5.1	61
18	Molecular polydispersity improves prediction of asphaltene aggregation. Journal of Molecular Liquids, 2018, 256, 382-394.	4.9	56

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19	Role of ion-pair interactions on asphaltene stabilization by alkylbenzenesulfonic acids. Journal of Colloid and Interface Science, 2015, 440, 23-31.	9.4	54
20	Dynamic adsorption of asphaltenes on quartz and calcite packs in the presence of brine films. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 434, 260-267.	4.7	53
21	Mobilization and micellar solubilization of NAPL contaminants in aquifer rocks. Journal of Contaminant Hydrology, 2016, 185-186, 61-73.	3.3	52
22	Wax Precipitation in Gas Condensate Mixtures. SPE Production and Operations, 2001, 16, 250-259.	0.6	49
23	Polymers for asphaltene dispersion: Interaction mechanisms and molecular design considerations. Journal of Molecular Liquids, 2017, 230, 589-599.	4.9	49
24	Molecular simulations of NAPL removal from mineral surfaces using microemulsions and surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 506, 485-494.	4.7	48
25	Microemulsion-enhanced displacement of oil in porous media containing carbonate cements. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 530, 60-71.	4.7	48
26	Molecular dynamics of wetting layer formation and forced water invasion in angular nanopores with mixed wettability. Journal of Chemical Physics, 2014, 141, 194703.	3.0	41
27	Cluster of Asphaltene Nanoaggregates by DC Conductivity and Centrifugation. Energy & Fuels, 2014, 28, 5002-5013.	5.1	41
28	A Systematic Study on the Impact of Surfactant Chain Length on Dynamic Interfacial Properties in Porous Media: Implications for Enhanced Oil Recovery. Industrial & Engineering Chemistry Research, 2017, 56, 13677-13695.	3.7	37
29	Nanoparticle-stabilized microemulsions for enhanced oil recovery from heterogeneous rocks. Fuel, 2020, 274, 117830.	6.4	31
30	Predicting the Adsorption of Asphaltenes from Their Electrical Conductivity. Energy & Fuels, 2010, 24, 469-474.	5.1	28
31	Impact of Surfactant Structure on NAPL Mobilization and Solubilization in Porous Media. Industrial & Engineering Chemistry Research, 2016, 55, 11736-11746.	3.7	26
32	Petrophase 2009 Panel Discussion on Standardization of Petroleum Fractions. Energy & Fuels, 2010, 24, 2175-2177.	5.1	22
33	Characterization of the Interfacial Material in Asphaltenes Responsible for Oil/Water Emulsion Stability. Energy & Fuels, 2020, 34, 13871-13882.	5.1	22
34	Impact of mineralogy and wettability on pore-scale displacement of NAPLs in heterogeneous porous media. Journal of Contaminant Hydrology, 2020, 230, 103599.	3.3	20
35	Novel Dispersant for Formation Damage Prevention in CO₂: A Molecular Dynamics Study. Energy & Fuels, 2016, 30, 7187-7195.	5.1	16
36	Characterization of the Charge Carriers in Bitumen. Energy & Fuels, 2006, 20, 2099-2108.	5.1	15

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37	PC-SAFT modeling of asphaltene phase behavior in the presence of nonionic dispersants. Fluid Phase Equilibria, 2014, 369, 86-94.	2.5	15
38	Nanoscale Investigation of Asphaltene Deposition under Capillary Flow Conditions. Energy & Fuels, 2020, 34, 5148-5158.	5.1	14
39	Coal-derived nanomaterials for enhanced NAPL flow in porous media. Carbon, 2020, 170, 439-451.	10.3	14
40	Nanoscale Characterization of Thin Films at Oil/Water Interfaces and Implications to Emulsion Stability. Energy & Fuels, 2021, 35, 444-455.	5.1	14
41	Molecular Dynamics Simulations of Asphaltene Dispersion by Limonene and PVAc Polymer During CO2 Flooding. , 2016, , .		13
42	Microscale Investigation of the Impact of Surfactant Structure on the Residual Trapping in Natural Porous Media. Industrial & Engineering Chemistry Research, 2019, 58, 9397-9411.	3.7	12
43	Nanoscale Investigation of Surfactant-Enhanced Solubilization of Asphaltenes from Silicate-Rich Rocks. Energy & Fuels, 2019, 33, 3796-3807.	5.1	12
44	Pore-scale experimental investigation of oil recovery enhancement in oil-wet carbonates using carbonaceous nanofluids. Scientific Reports, 2020, 10, 17539.	3.3	12
45	Auto-segmentation technique for SEM images using machine learning: Asphaltene deposition case study. Ultramicroscopy, 2020, 217, 113074.	1.9	12
46	On-Column Separation of Wax and Asphaltenes in Petroleum Fluids. Energy & Fuels, 2008, 22, 4019-4028.	5.1	11
47	Pore-scale dynamics of nanofluid-enhanced NAPL displacement in carbonate rock. Journal of Contaminant Hydrology, 2020, 230, 103598.	3.3	10
48	New Insights into Asphaltene Structure and Aggregation by High-Resolution Microscopy. Energy & Fuels, 2022, 36, 8692-8700.	5.1	10
49	Asphaltenes. Springer Handbooks, 2017, , 221-250.	0.6	9
50	Graphene Quantum Dots for the Mobilization and Solubilization of Nonaqueous Phase Liquids in Natural Porous Media. ACS Applied Nano Materials, 2020, 3, 10691-10701.	5.0	8
51	Synergistic effects of surfactant mixtures on the displacement of nonaqueous phase liquids in porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123885.	4.7	6
52	Microscale investigation of DNAPL displacement by engineered graphene quantum dots in heterogeneous porous media. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 625, 126936.	4.7	5
53	Amorphization of carbon nanotubes in water by electron beam radiation. Carbon, 2020, 156, 313-319.	10.3	3
54	Multistep Fractionation of Coal and Application for Graphene Synthesis. ACS Omega, 2021, 6, 16573-16583.	3.5	3

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55	Wettability in CO2/Brine/Quartz Systems: An Experimental Study at Reservoir Conditions. , 2012, , .		0
56	Low-Temperature Graphene Growth and Shrinkage Dynamics from Petroleum Asphaltene on CuO Nanoparticle. Industrial & Engineering Chemistry Research, 2021, 60, 12001-12010.	3.7	0