

Oliver C Mullins

List of Publications by Year in descending order

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170
papers

12,380
citations

24978

57
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26548

107
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170
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170
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170
times ranked

3935
citing authors

#	ARTICLE	IF	CITATIONS
1	Reservoir fluid geodynamics. , 2022, , 1-39.		2
2	A Novel Reservoir Forming Mechanism with Wax-Out Cryo Trapping. , 2022, , .		1
3	Modeling Viscous Oil and Tar Mat Formation from Nanoscale to Macroscale. , 2022, , .		1
4	Role of Asphaltene Origin in Its Adsorption at Oilâ€“Water Interfaces. Energy & Fuels, 2022, 36, 8749-8759.	2.5	8
5	Wax-Out Cryo-trapping: A New Trap-Filling Process in Fluid Migration to Oilfields. Energy & Fuels, 2022, 36, 8844-8852.	2.5	3
6	Heavy End Evaluation in Oils and Associated Asphaltene Deposits from Two Adjacent Reservoirs by High-Resolution Mass Spectrometry. Energy & Fuels, 2022, 36, 8866-8878.	2.5	2
7	GCâ€“GC Analysis of Novel 2Î±-Methyl Biomarker Compounds from a Large Middle East Oilfield. Energy & Fuels, 2022, 36, 8853-8865.	2.5	2
8	Development of a Downhole Measurement System for Phase Behavior of Reservoir Crude Oils and Retrograde Condensates. Energy & Fuels, 2022, 36, 8624-8638.	2.5	1
9	Analysis of kerogens and model compounds by time-of-flight secondary ion mass spectrometry (TOF-SIMS). Fuel, 2021, 286, 119373.	3.4	10
10	Structureâ€“Dynamic Function Relations of Asphaltenes. Energy & Fuels, 2021, 35, 13610-13632.	2.5	14
11	Yenâ€“Mullins Model Applies to Oilfield Reservoirs. Energy & Fuels, 2020, 34, 14074-14093.	2.5	26
12	Structure-Solubility Relationships in Coal, Petroleum, and Immature Source-Rock-Derived Asphaltenes. Energy & Fuels, 2020, 34, 10825-10836.	2.5	14
13	Reservoir Implications of Measured Thermodynamic Equilibrium of Crude Oil Components: Gases, Liquids, the Solid Asphaltenes, and Biomarkers. , 2020, , .		2
14	Overview of Asphaltene Nanostructures and Thermodynamic Applications. Energy & Fuels, 2020, 34, 15082-15105.	2.5	101
15	ANALYSIS OF LATERAL FLUID GRADIENTS FROM DFA MEASUREMENTS AND SIMULATION OF RESERVOIR FLUID MIXING PROCESSES OVER GEOLOGIC TIME. , 2020, , .		5
16	Simple Asphaltene Thermodynamics, Oilfield Reservoir Evaluation, and Reservoir Fluid Geodynamics. , 2020, , 1649-1686.		0
17	Reservoir Fluid Geodynamics in Brazilian Presalt Carbonate Field. , 2019, , .		6
18	Reservoir Fluid Geodynamics, a New Way to Evaluate the Reservoir Connectivity and Crude Oil Alteration with Late Gas Charge. , 2019, , .		6

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19	Biodegradation and water washing in a spill-fill sequence of oilfields. Fuel, 2019, 237, 707-719.	3.4	15
20	Time of flight-secondary ion mass spectrometry (TOF-SIMS) study of diverse asphaltenes. Fuel, 2018, 220, 638-644.	3.4	12
21	Applicability of simple asphaltene thermodynamics for asphaltene gradients in oilfield reservoirs: The Flory-Huggins-Zuo Equation of State with the Yen-Mullins model. Fuel, 2018, 221, 216-232.	3.4	30
22	Gravitational Gradient of Asphaltene Molecules in an Oilfield Reservoir with Light Oil. Energy & Fuels, 2018, 32, 4911-4924.	2.5	20
23	Impact of Capillary Pressure and Nanopore Confinement on Phase Behaviors of Shale Gas and Oil. Energy & Fuels, 2018, 32, 4705-4714.	2.5	82
24	Asphaltene Gradient Analysis by DFA Coupled with Geochemical Analysis by GC and GCxGC Indicate Connectivity in Agreement with One Year of Production in a Norwegian Oilfield. , 2018, , .		8
25	Using Formation Testing and Asphaltene Gradient Modeling to Guide G&G Modeling and Field Development - A Fault Block Migration Study. , 2018, , .		11
26	Simple Asphaltene Thermodynamics, Oilfield Reservoir Evaluation, and Reservoir Fluid Geodynamics. , 2018, , 1-38.		1
27	Asphaltene Gradients and Connectivity Analysis in Reservoirs, Asphaltene Onset Pressure, Bitumen and Tar Mats All Treated Within a Simple, Unified Chemistry Treatment. , 2018, , .		2
28	Downhole Fluid Analysis and Gas Chromatography; a Powerful Combination for Reservoir Evaluation. Petrophysics, 2018, 59, 649-671.	0.2	1
29	Analysis of Asphaltene Instability Using Diffusive and Thermodynamic Models during Gas Charges into Oil Reservoirs. Energy & Fuels, 2017, 31, 3717-3728.	2.5	14
30	Asphaltene Chemistry Across a Large Field in Saudi Arabia. , 2017, , .		3
31	Heavy Oil Based Mixtures of Different Origins and Treatments Studied by Atomic Force Microscopy. Energy & Fuels, 2017, 31, 6856-6861.	2.5	206
32	Integrating comprehensive two-dimensional gas chromatography and downhole fluid analysis to validate a spill-fill sequence of reservoirs with variations of biodegradation, water washing and thermal maturity. Fuel, 2017, 191, 538-554.	3.4	31
33	The Critical Role of Asphaltene Gradients and Data Integration in Reservoir Fluid Geodynamics Analysis. , 2017, , .		17
34	A Quantitative Study on the Evolution of the Asphaltene Distribution during Gas Charge Processes. , 2017, , .		3
35	Fluid distributions during light hydrocarbon charges into oil reservoirs using multicomponent Maxwell-Stefan diffusivity in gravitational field. Fuel, 2017, 209, 211-223.	3.4	11
36	Nanoaggregates of Diverse Asphaltenes by Mass Spectrometry and Molecular Dynamics. Energy & Fuels, 2017, 31, 9140-9151.	2.5	63

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37	A Study of Connectivity and Baffles in a Deepwater Gulf of Mexico Reservoir Linking Downhole Fluid Analysis and Geophysics. , 2017, , .		16
38	Reservoir Implications of a Spill-Fill Sequence of Reservoir Charge Coupled with Viscosity and Asphaltene Gradients from a Combination of Water Washing and Biodegradation. , 2017, , .		10
39	Reservoir Fluid Geodynamics: The Chemistry and Physics of Oilfield Reservoir Fluids after Trap Filling. Energy & Fuels, 2017, 31, 13088-13119.	2.5	23
40	Asphaltenes. Springer Handbooks, 2017, , 221-250.	0.3	9
41	Delineation of Gravitational Instability Induced by Gas Charges into Oil Reservoirs Using Diffusion and Flory-Huggins-Zuo Equations. , 2016, , .		8
42	Understanding Reservoir Fluid Dynamic Processes by Using Diffusive Models. , 2016, , .		10
43	Impact of a Secondary Condensate Charge into an Oil Reservoir Evaluated by Downhole Fluid Analysis, Core Analysis, and Production. , 2016, , .		12
44	Reservoir Fluid Geodynamics; The Link Between Petroleum Systems and Production Concerns Relating to Fluids and Tar Distributions in Reservoirs. , 2016, , .		13
45	Bitumen and Tar Deposition and Tar Mat Formation Accounted for by Multiple Charging, Trap Filling and Fluid Geodynamics. , 2016, , .		10
46	Asphaltene Densities and Solubility Parameter Distributions: Impact on Asphaltene Gradients. Energy & Fuels, 2016, 30, 9132-9140.	2.5	38
47	A multicomponent diffusion model for gas charges into oil reservoirs. Fuel, 2016, 180, 384-395.	3.4	18
48	Compartments, Connectivity & Baffling Analyzed by the Extent of Equilibration of Asphaltene Gradients Using DFA. , 2016, , .		9
49	Investigation of density inversion induced by gas charges into oil reservoirs using diffusion equations. Energy, 2016, 100, 199-216.	4.5	15
50	Sulfur and Nitrogen Chemical Speciation in Crude Oils and Related Carbonaceous Materials. Advances in Chemical and Materials Engineering Book Series, 2016, , 53-83.	0.2	3
51	Diffusion Model Coupled with the Flory-Huggins-Zuo Equation of State and Yen-Mullins Model Accounts for Large Viscosity and Asphaltene Variations in a Reservoir Undergoing Active Biodegradation. Energy & Fuels, 2015, 29, 1447-1460.	2.5	49
52	Coarse-Grained Molecular Simulations to Investigate Asphaltenes at the Oil-Water Interface. Energy & Fuels, 2015, 29, 1597-1609.	2.5	123
53	Laser-Based Mass Spectrometric Assessment of Asphaltene Molecular Weight, Molecular Architecture, and Nanoaggregate Number. Energy & Fuels, 2015, 29, 2833-2842.	2.5	102
54	Combined Petroleum System Modeling and Comprehensive Two-Dimensional Gas Chromatography To Improve Understanding of the Crude Oil Chemistry in the Llanos Basin, Colombia. Energy & Fuels, 2015, 29, 4755-4767.	2.5	23

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55	Unraveling the Molecular Structures of Asphaltenes by Atomic Force Microscopy. <i>Journal of the American Chemical Society</i> , 2015, 137, 9870-9876.	6.6	545
56	Applicability of the Langmuir Equation of State for Asphaltene Adsorption at the Oil/Water Interface: Coal-Derived, Petroleum, and Synthetic Asphaltenes. <i>Energy & Fuels</i> , 2015, 29, 3584-3590.	2.5	55
57	The dynamic Flory-Huggins-Zuo equation of state. <i>Energy</i> , 2015, 91, 430-440.	4.5	11
58	A Geological Model for the Origin of Fluid Compositional Gradients in a Large Saudi Arabian Oilfield: An Investigation by Two-Dimensional Gas Chromatography (GC-MS) and Asphaltene Chemistry. <i>Energy & Fuels</i> , 2015, 29, 5666-5680.	2.5	32
59	Surface enhanced Raman spectroscopy of polycyclic aromatic hydrocarbons and molecular asphaltenes. <i>Chemical Physics Letters</i> , 2015, 620, 139-143.	1.2	22
60	Characterization of Asphaltene Transport over Geologic Time Aids in Explaining the Distribution of Heavy Oils and Solid Hydrocarbons in Reservoirs. , 2014, , .		7
61	Downhole Fluid Analysis and Asphaltene Science for Petroleum Reservoir Evaluation. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2014, 5, 325-345.	3.3	42
62	Laser-Based Mass Spectrometric Determination of Aggregation Numbers for Petroleum- and Coal-Derived Asphaltenes. <i>Energy & Fuels</i> , 2014, 28, 475-482.	2.5	81
63	New thermodynamic modeling of reservoir crude oil. <i>Fuel</i> , 2014, 117, 839-850.	3.4	23
64	Constant Asphaltene Molecular and Nanoaggregate Mass in a Gravitationally Segregated Reservoir. <i>Energy & Fuels</i> , 2014, 28, 3010-3015.	2.5	46
65	Heuristics for Equilibrium Distributions of Asphaltenes in the Presence of GOR Gradients. <i>Energy & Fuels</i> , 2014, 28, 4859-4869.	2.5	34
66	Cluster of Asphaltene Nanoaggregates by DC Conductivity and Centrifugation. <i>Energy & Fuels</i> , 2014, 28, 5002-5013.	2.5	41
67	Mapping and Modeling Large Viscosity and Asphaltene Variations in a Reservoir Undergoing Active Biodegradation. , 2014, , .		9
68	DFA Connectivity Advisor: A New Workflow to Use Measured and Modeled Fluid Gradients for Analysis of Reservoir Connectivity. , 2014, , .		9
69	Variation of Asphaltene Onset Pressure Due to Reservoir Fluid Disequilibrium. , 2014, , .		3
70	Minimization of Fragmentation and Aggregation by Laser Desorption Laser Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2013, 24, 1116-1122.	1.2	53
71	Singlet-Triplet and Triplet-Triplet Transitions of Asphaltene PAHs by Molecular Orbital Calculations. <i>Energy & Fuels</i> , 2013, 27, 5017-5028.	2.5	24
72	Advances in the Flory-Huggins-Zuo Equation of State for Asphaltene Gradients and Formation Evaluation. <i>Energy & Fuels</i> , 2013, 27, 1722-1735.	2.5	112

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73	Sulfur Chemistry of Asphaltenes from a Highly Compositionally Graded Oil Column. Energy & Fuels, 2013, 27, 4604-4608.	2.5	67
74	Clusters of Asphaltene Nanoaggregates Observed in Oilfield Reservoirs. Energy & Fuels, 2013, 27, 1752-1761.	2.5	146
75	The Dynamics of Fluids In Reservoirs. , 2013, , .		7
76	Advanced Reservoir and Tar Mat Evaluation Using Downhole Fluid Analysis and Asphaltene Flory-Huggins-Zuo EoS. , 2013, , .		1
77	Asphaltene Nanoscience and Reservoir Fluid Gradients, Tar Mat Formation, and the Oil-Water Interface. , 2013, , .		19
78	Advanced Reservoir Evaluation Using Downhole Fluid Analysis and Asphaltene Flory-Huggins-Zuo EOS. , 2013, , .		3
79	Black Oil, Heavy Oil and Tar in One Oil Column Understood by Simple Asphaltene Nanoscience. , 2012, , .		20
80	Downhole Fluid Analysis and Asphaltene Nanoscience Coupled with VIT for Risk Reduction in Black Oil Production. , 2012, , .		14
81	Evaluation of Reservoir Connectivity from Downhole Fluid Analysis, Asphaltene Equation of State Model and Advanced Laboratory Fluid Analyses. , 2012, , .		8
82	Heavy Oil and Tar Mat Characterization Within a Single Oil Column Utilizing Novel Asphaltene Science. , 2012, , .		18
83	Permeable Tar Mat Formation Within the Context of Novel Asphaltene Science. , 2012, , .		25
84	Asphaltene Grading and Tar Mats in Oil Reservoirs. Energy & Fuels, 2012, 26, 1670-1680.	2.5	34
85	Advances in Asphaltene Science and the Yenâ€Mullins Model. Energy & Fuels, 2012, 26, 3986-4003.	2.5	789
86	Asphaltene gradients and tar mat formation in reservoirs under active gas charging. Fluid Phase Equilibria, 2012, 315, 91-98.	1.4	28
87	Molecular Orientation of Asphaltenes and PAH Model Compounds in LangmuirâBlodgett Films Using Sum Frequency Generation Spectroscopy. Langmuir, 2011, 27, 6049-6058.	1.6	116
88	Analysis of Downhole Asphaltene Gradients in Oil Reservoirs with a New Bimodal Asphaltene Distribution Function. Journal of Chemical & Engineering Data, 2011, 56, 1047-1058.	1.0	11
89	Comparison of Coal-Derived and Petroleum Asphaltenes by ¹³ C Nuclear Magnetic Resonance, DEPT, and XRS. Energy & Fuels, 2011, 25, 3068-3076.	2.5	103
90	Orbitrap Mass Spectrometry: A Proposal for Routine Analysis of Nonvolatile Components of Petroleum. Energy & Fuels, 2011, 25, 3077-3082.	2.5	63

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91	Analysis and Identification of Biomarkers and Origin of Color in a Bright Blue Crude Oil. <i>Energy & Fuels</i> , 2011, 25, 172-182.	2.5	44
92	The Asphaltenes. <i>Annual Review of Analytical Chemistry</i> , 2011, 4, 393-418.	2.8	488
93	Molecular Size Determination of Coal-Derived Asphaltene by Fluorescence Correlation Spectroscopy. <i>Applied Spectroscopy</i> , 2011, 65, 1348-1356.	1.2	19
94	Triplet Electronic Spin States of Crude Oils and Asphaltenes. <i>Energy & Fuels</i> , 2011, 25, 2065-2075.	2.5	28
95	DFA Asphaltene Gradients for Assessing Connectivity in Reservoirs under Active Gas Charging. , 2011, , .		13
96	Equation-of-State-Based Downhole Fluid Characterization. <i>SPE Journal</i> , 2011, 16, 115-124.	1.7	16
97	Validating of the Reservoir Connectivity and Compartmentalization with the CO ₂ Compositional Gradient and Mass Transportation Simulation Concepts. , 2011, , .		8
98	Analysis of petroleum compositional similarity using multiway principal components analysis (MPCA) with comprehensive two-dimensional gas chromatographic data. <i>Journal of Chromatography A</i> , 2011, 1218, 2584-2592.	1.8	57
99	On the formation and properties of asphaltene nanoaggregates and clusters by DC-conductivity and centrifugation. <i>Fuel</i> , 2011, 90, 2480-2490.	3.4	118
100	Comparing Laser Desorption/Laser Ionization Mass Spectra of Asphaltenes and Model Compounds. <i>Energy & Fuels</i> , 2010, 24, 3589-3594.	2.5	60
101	The Modified Yen Model. <i>Energy & Fuels</i> , 2010, 24, 2179-2207.	2.5	955
102	A Simple Relation between Solubility Parameters and Densities for Live Reservoir Fluids. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 2964-2969.	1.0	24
103	Compound class oil fingerprinting techniques using comprehensive two-dimensional gas chromatography (GC _A -GC). <i>Organic Geochemistry</i> , 2010, 41, 1026-1035.	0.9	71
104	Combining biomarker and bulk compositional gradient analysis to assess reservoir connectivity. <i>Organic Geochemistry</i> , 2010, 41, 812-821.	0.9	66
105	On the Nanofiltration of Asphaltene Solutions, Crude Oils, and Emulsions. <i>Energy & Fuels</i> , 2010, 24, 5028-5037.	2.5	32
106	Surface Chemistry and Spectroscopy of UG8 Asphaltene Langmuir Film, Part 1. <i>Langmuir</i> , 2010, 26, 15257-15264.	1.6	24
107	Surface Chemistry and Spectroscopy of UG8 Asphaltene Langmuir Film, Part 2. <i>Langmuir</i> , 2010, 26, 15265-15271.	1.6	23
108	Theoretical Treatment of Asphaltene Gradients in the Presence of GOR Gradients. <i>Energy & Fuels</i> , 2010, 24, 3942-3949.	2.5	106

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109	Asphaltene Nanoaggregates Measured in a Live Crude Oil by Centrifugation. Energy & Fuels, 2009, 23, 4460-4469.	2.5	81
110	Nanoaggregates of Asphaltenes in a Reservoir Crude Oil and Reservoir Connectivity. Energy & Fuels, 2009, 23, 1178-1188.	2.5	121
111	Rebuttal to Strausz et al. Regarding Time-Resolved Fluorescence Depolarization of Asphaltenes. Energy & Fuels, 2009, 23, 2845-2854.	2.5	30
112	Asphaltene Molecular-Mass Distribution Determined by Two-Step Laser Mass Spectrometry. Energy & Fuels, 2009, 23, 1162-1168.	2.5	125
113	Critical Nanoaggregate Concentration of Asphaltenes by Direct-Current (DC) Electrical Conductivity. Energy & Fuels, 2009, 23, 1201-1208.	2.5	113
114	Asphaltene Nanoaggregates Studied by Centrifugation. Energy & Fuels, 2009, 23, 1194-1200.	2.5	146
115	Measured and Simulated Electronic Absorption and Emission Spectra of Asphaltenes. Energy & Fuels, 2009, 23, 1169-1177.	2.5	73
116	Real Time Integration of Reservoir Modeling and Formation Testing. , 2009, , .		22
117	Visible-Near-Infrared Spectroscopy by Downhole Fluid Analysis Coupled with Comprehensive Two-Dimensional Gas Chromatography To Address Oil Reservoir Complexity. Energy & Fuels, 2008, 22, 496-503.	2.5	31
118	Two-Step Laser Mass Spectrometry of Asphaltenes. Journal of the American Chemical Society, 2008, 130, 7216-7217.	6.6	177
119	Contrasting Perspective on Asphaltene Molecular Weight. This Comment vs the Overview of A. A. Herod, K. D. Bartle, and R. Kandiyoti. Energy & Fuels, 2008, 22, 1765-1773.	2.5	159
120	New Downhole-Fluid-Analysis Tool for Improved Reservoir Characterization. SPE Reservoir Evaluation and Engineering, 2008, 11, 1107-1116.	1.1	31
121	Asphaltene Gravitational Gradient in a Deepwater Reservoir as Determined by Downhole Fluid Analysis. , 2007, , .		21
122	Predicting Downhole Fluid Analysis Logs to Investigate Reservoir Connectivity. , 2007, , .		19
123	Asphaltene Molecular Size by Fluorescence Correlation Spectroscopy. Energy & Fuels, 2007, 21, 2875-2882.	2.5	95
124	Asphaltene Molecular Size and Weight by Time-Resolved Fluorescence Depolarization. , 2007, , 17-62.		48
125	Molecular-Weight Distributions of Coal and Petroleum Asphaltenes from Laser Desorption/Ionization Experiments. Energy & Fuels, 2007, 21, 2863-2868.	2.5	150
126	The Colloidal Structure of Crude Oil and the Structure of Oil Reservoirs. Energy & Fuels, 2007, 21, 2785-2794.	2.5	177

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127	Polycyclic Aromatic Hydrocarbons of Asphaltenes Analyzed by Molecular Orbital Calculations with Optical Spectroscopy. <i>Energy & Fuels</i> , 2007, 21, 256-265.	2.5	134
128	Electronic Absorption Edge of Crude Oils and Asphaltenes Analyzed by Molecular Orbital Calculations with Optical Spectroscopy. <i>Energy & Fuels</i> , 2007, 21, 944-952.	2.5	98
129	Rebuttal to comment by professors Herod, Kandiyoti, and Bartle on "Molecular size and weight of asphaltene and asphaltene solubility fractions from coals, crude oils and bitumen". <i>Fuel</i> , 2007, 86, 309-312.	3.4	46
130	Diffusivity of coal and petroleum asphaltene monomers by fluorescence correlation spectroscopy. <i>Fuel</i> , 2007, 86, 2016-2020.	3.4	53
131	Identification and quantification of alkene-based drilling fluids in crude oils by comprehensive two-dimensional gas chromatography with flame ionization detection. <i>Journal of Chromatography A</i> , 2007, 1148, 100-107.	1.8	58
132	Carbon X-ray Raman Spectroscopy of PAHs and Asphaltenes. , 2007, , 139-155.		8
133	Sulfur Chemical Moieties in Carbonaceous Materials. , 2007, , 157-188.		3
134	Diffusivity of Asphaltene Molecules by Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2006, 110, 8093-8097.	1.1	146
135	Oil Reservoir Characterization via Crude Oil Analysis by Downhole Fluid Analysis in Oil Wells with Visible-Near-Infrared Spectroscopy and by Laboratory Analysis with Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2006, 20, 2448-2456.	2.5	37
136	Molecular size and weight of asphaltene and asphaltene solubility fractions from coals, crude oils and bitumen. <i>Fuel</i> , 2006, 85, 1-11.	3.4	234
137	Coarse and Ultra-Fine Scale Compartmentalization by Downhole Fluid Analysis. , 2005, , .		19
138	Nanoaggregates and Structure-Function Relations in Asphaltenes. <i>Energy & Fuels</i> , 2005, 19, 1282-1289.	2.5	173
139	Surface Activity of an Amphiphilic Association Structure. <i>Journal of Dispersion Science and Technology</i> , 2005, 26, 513-515.	1.3	17
140	Sulfur Speciation in Different Kerogens by XANES Spectroscopy. <i>Energy & Fuels</i> , 2005, 19, 1971-1976.	2.5	72
141	High-Ultrasonic Determination of the Critical Nanoaggregate Concentration of Asphaltenes and the Critical Micelle Concentration of Standard Surfactants. <i>Langmuir</i> , 2005, 21, 2728-2736.	1.6	251
142	X-Ray Raman Spectroscopy-A New Tool to Study Local Structure of Aromatic Hydrocarbons and Asphaltenes. <i>Petroleum Science and Technology</i> , 2004, 22, 863-875.	0.7	25
143	Molecular Weight Measurement of UG8 Asphaltene Using APCI Mass Spectroscopy. <i>Petroleum Science and Technology</i> , 2004, 22, 787-798.	0.7	62
144	Carbon K-edge X-ray Raman spectroscopy supports simple, yet powerful description of aromatic hydrocarbons and asphaltenes. <i>Chemical Physics Letters</i> , 2003, 369, 184-191.	1.2	85

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145	Molecular size of asphaltene fractions obtained from residuum hydrotreatment. Fuel, 2003, 82, 1075-1084.	3.4	135
146	Molecular Size of Asphaltene Solubility Fractions. Energy & Fuels, 2003, 17, 498-503.	2.5	133
147	Probing Order in Asphaltenes and Aromatic Ring Systems by HRTEM. Energy & Fuels, 2002, 16, 490-496.	2.5	134
148	Near-Infrared Spectral Analysis of Gas Mixtures. Applied Spectroscopy, 2002, 56, 593-598.	1.2	30
149	Near-Infrared Compositional Analysis of Gas and Condensate Reservoir Fluids at Elevated Pressures and Temperatures. Applied Spectroscopy, 2002, 56, 1615-1620.	1.2	53
150	The Overriding Chemical Principles that Define Asphaltenes. Energy & Fuels, 2001, 15, 972-978.	2.5	216
151	MOLECULAR SIZE AND STRUCTURE OF ASPHALTENES. Petroleum Science and Technology, 2001, 19, 219-230.	0.7	52
152	Gas-Oil Ratio of Live Crude Oils Determined by Near-Infrared Spectroscopy. Applied Spectroscopy, 2001, 55, 197-201.	1.2	60
153	Real-Time Determination of Filtrate Contamination During Openhole Wireline Sampling by Optical Spectroscopy. , 2000, , .		87
154	Molecular Size and Structure of Asphaltenes from Various Sources. Energy & Fuels, 2000, 14, 677-684.	2.5	763
155	Linearity of Near-Infrared Spectra of Alkanes. Applied Spectroscopy, 2000, 54, 624-629.	1.2	31
156	X-ray Raman Spectroscopy of Carbon in Asphaltene: Light Element Characterization with Bulk Sensitivity. Analytical Chemistry, 2000, 72, 2609-2612.	3.2	67
157	Asphaltene Molecular Size and Structure. Journal of Physical Chemistry A, 1999, 103, 11237-11245.	1.1	476
158	Determination of Sulfur Species in Asphaltene, Resin, and Oil Fractions of Crude Oils. Applied Spectroscopy, 1998, 52, 1522-1525.	1.2	46
159	Optical Interrogation of Aromatic Moieties in Crude Oils and Asphaltenes. , 1998, , 21-77.		35
160	Quantum Yields of Crude Oils. Applied Spectroscopy, 1996, 50, 1563-1568.	1.2	112
161	Small Population of One to Three Fused-Aromatic Ring Moieties in Asphaltenes. Energy & Fuels, 1996, 10, 623-630.	2.5	59
162	Visible and Near-Infrared Fluorescence of Crude Oils. Applied Spectroscopy, 1995, 49, 754-764.	1.2	106

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163	Fluorescence Lifetime Studies of Crude Oils. <i>Applied Spectroscopy</i> , 1994, 48, 977-984.	1.2	102
164	Nitrogen chemistry of kerogens and bitumens from x-ray absorption near-edge structure spectroscopy. <i>Energy & Fuels</i> , 1993, 7, 1128-1134.	2.5	47
165	Determination of the nitrogen chemical structures in petroleum asphaltene using XANES spectroscopy. <i>Journal of the American Chemical Society</i> , 1993, 115, 252-258.	6.6	210
166	First Observation of the Urbach Tail in a Multicomponent Organic System. <i>Applied Spectroscopy</i> , 1992, 46, 354-356.	1.2	42
167	The Electronic Absorption Edge of Petroleum. <i>Applied Spectroscopy</i> , 1992, 46, 1405-1411.	1.2	101
168	Determination of the chemical environment of sulphur in petroleum asphaltene by X-ray absorption spectroscopy. <i>Fuel</i> , 1992, 71, 53-57.	3.4	133
169	CONNECTIVITY, ASPHALTENE, MOLECULES, ASPHALTENE GRADIENTS AND CO2 GRADIENTS IN A BRAZILIAN CARBONATE PRESALT FIELD. , 0, , .		8
170	DIVERSE FLUID GRADIENTS ASSOCIATED WITH BIODEGRADATION OF CRUDE OIL. , 0, , .		4