

Murray R Gray

List of Publications by Year in descending order

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221
papers

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39113

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Structure–Reactivity Relationships for Petroleum Asphaltenes. <i>Energy & Fuels</i> , 2022, 36, 4370-4380.	2.5	18
2	Whatsoever things are true: Hypothesis, artefact, and bias in chemical engineering research. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, 2055-2068.	0.9	4
3	Distributed Properties of Asphaltene Nanoaggregates in Crude Oils: A Review. <i>Energy & Fuels</i> , 2021, 35, 18078-18103.	2.5	37
4	Lessons Learned from a Decade-Long Assessment of Asphaltenes by Ultrahigh-Resolution Mass Spectrometry and Implications for Complex Mixture Analysis. <i>Energy & Fuels</i> , 2021, 35, 16335-16376.	2.5	21
5	Mechanisms of Asphaltene Aggregation: Puzzles and a New Hypothesis. <i>Energy & Fuels</i> , 2020, 34, 9094-9107.	2.5	90
6	Fundamentals of Partial Upgrading of Bitumen. <i>Energy & Fuels</i> , 2019, 33, 6843-6856.	2.5	57
7	Quantitative Modeling of Formation of Asphaltene Nanoaggregates. <i>Energy & Fuels</i> , 2019, 33, 8566-8575.	2.5	12
8	Agglomerate behavior in a recirculating fluidized bed with sheds: Effect of ring baffles. <i>Particology</i> , 2018, 38, 143-151.	2.0	5
9	Agglomerate behavior in a recirculating fluidized bed with sheds: Effect of bed properties. <i>Powder Technology</i> , 2018, 325, 31-41.	2.1	3
10	Determination of Hansen Solubility Parameters of Asphaltene Model Compounds. <i>Energy & Fuels</i> , 2018, 32, 11296-11303.	2.5	31
11	Agglomerate behavior in a recirculating fluidized bed with sheds: Effect of sheds. <i>Advanced Powder Technology</i> , 2018, 29, 1758-1770.	2.0	8
12	Vacuum drying of cyclohexane from solvent-extracted oil sands gangue. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 459-466.	0.9	3
13	A viscosity-conversion model for thermal cracking of heavy oils. <i>Fuel</i> , 2017, 197, 82-90.	3.4	17
14	Transport and removal of a solvent in porous media in the presence of bitumen, a highly viscous solute. <i>Chemical Engineering Science</i> , 2017, 165, 229-239.	1.9	5
15	Influence of hydrophobicity distribution of particle mixtures on emulsion stabilization. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 179-189.	5.0	14
16	Spatially resolved organic coating on clay minerals in bitumen froth revealed by atomic force microscopy adhesion mapping. <i>Fuel</i> , 2017, 191, 283-289.	3.4	23
17	Irreversible Adsorption of Asphaltenes on Kaolinite: Influence of Dehydroxylation. <i>Energy & Fuels</i> , 2017, 31, 9328-9336.	2.5	17
18	Solvent removal from cyclohexane-extracted oil sands gangue. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 408-414.	0.9	16

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19	Adsorption of asphaltenes on kaolinite as an irreversible process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 504, 280-286.	2.3	40
20	Influence of hydrothermal treatment on filterability of fine solids in bitumen froth. <i>Fuel</i> , 2016, 180, 314-323.	3.4	18
21	Role of water and fine solids in onset of coke formation during bitumen cracking. <i>Fuel</i> , 2016, 166, 152-156.	3.4	13
22	Sorption equilibrium and kinetics for cyclohexane, toluene, and water on Athabasca oil sands solids. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 220-230.	0.9	11
23	Characterization of Fine Solids in Athabasca Bitumen Froth before and after Hydrothermal Treatment. <i>Energy & Fuels</i> , 2016, 30, 1965-1971.	2.5	13
24	Role of Liquid Concentration in Coke Yield from Model Vacuum Residueâ€“Coke Agglomerates. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9089-9096.	1.8	3
25	Scalable, Chromatography-Free Synthesis of Alkyl-Tethered Pyrene-Based Materials. Application to First-Generation â€œArchipelago Modelâ€•Asphaltene Compounds. <i>Journal of Organic Chemistry</i> , 2015, 80, 1719-1726.	1.7	9
26	Agglomerate behavior in a recirculating fluidized bed with sheds: Effect of agglomerate properties. <i>Powder Technology</i> , 2015, 275, 263-272.	2.1	14
27	Performance of Solvent Mixtures for Non-aqueous Extraction of Alberta Oil Sands. <i>Energy & Fuels</i> , 2015, 29, 2261-2267.	2.5	46
28	Binary Solvents with Ethanol for Effective Bitumen Displacement at Solvent/Mineral Interfaces. <i>Energy & Fuels</i> , 2015, 29, 4222-4226.	2.5	7
29	Addition Reactions of Olefins to Asphaltene Model Compounds. <i>Energy & Fuels</i> , 2015, 29, 1494-1502.	2.5	18
30	Catalytic Hydrodenitrogenation of Asphaltene Model Compounds. <i>Energy & Fuels</i> , 2015, 29, 6724-6733.	2.5	7
31	Steroid-Derived Naphthoquinoline Asphaltene Model Compounds: Hydriodic Acid Is the Active Catalyst in I_2 -Promoted Multicomponent Cyclocondensation Reactions. <i>Organic Letters</i> , 2015, 17, 5930-5933.	2.4	13
32	Dependence of onset time for mesophase formation on operating parameters during catalytic hydroconversion of Athabasca vacuum residue. <i>Fuel Processing Technology</i> , 2015, 130, 165-171.	3.7	5
33	Thiophene mitigates high temperature fouling of metal surfaces in oil refining. <i>Fuel</i> , 2015, 139, 411-424.	3.4	15
34	Unconventional Oil and Gas. , 2014, , 95-116.		11
35	Study of Cyclohexane Diffusion in Athabasca Asphaltenes. <i>Energy & Fuels</i> , 2014, 28, 1004-1011.	2.5	12
36	Binary Interactions in Coke Formation from Model Compounds and Asphaltenes. <i>Energy & Fuels</i> , 2014, 28, 1692-1700.	2.5	5

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37	Evaluating steady-state and time-resolved fluorescence as a tool to study the behavior of asphaltene in toluene. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 917-928.	1.6	19
38	Monte Carlo Simulation of Asphaltenes and Products from Thermal Cracking. <i>Energy & Fuels</i> , 2014, 28, 2352-2364.	2.5	6
39	On correlating water solubility in ill-defined hydrocarbons. <i>Fuel</i> , 2014, 134, 644-658.	3.4	18
40	Migration of Fine Solids into Product Bitumen from Solvent Extraction of Alberta Oilsands. <i>Energy & Fuels</i> , 2014, 28, 2925-2932.	2.5	37
41	Elucidation of structural information achievable for asphaltenes via collision-activated dissociation of their molecular ions in MSn experiments: A model compound study. <i>Fuel</i> , 2014, 133, 106-114.	3.4	36
42	The phase behavior of Athabasca bitumen+toluene+water ternary mixtures. <i>Fluid Phase Equilibria</i> , 2014, 370, 75-84.	1.4	40
43	New Vanadium Compounds in Venezuela Heavy Crude Oil Detected by Positive-ion Electrospray Ionization Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Scientific Reports</i> , 2014, 4, 5373.	1.6	44
44	Suppression of Addition Reactions during Thermal Cracking Using Hydrogen and Sulfided Iron Catalyst. <i>Energy & Fuels</i> , 2013, 27, 6637-6645.	2.5	32
45	Effect of Asphaltene Stability on Fouling at Delayed Coking Process Furnace Conditions. <i>Energy & Fuels</i> , 2013, 27, 1856-1864.	2.5	13
46	Joint Industrial Case Study for Asphaltene Deposition. <i>Energy & Fuels</i> , 2013, 27, 1899-1908.	2.5	56
47	Density functional theory investigation of the effect of axial coordination and annelation on the absorption spectroscopy of nickel(II) and vanadyl porphyrins relevant to bitumen and crude oils. <i>Canadian Journal of Chemistry</i> , 2013, 91, 872-878.	0.6	21
48	Phase behavior of Athabasca bitumen+water mixtures at high temperature and pressure. <i>Journal of Supercritical Fluids</i> , 2013, 77, 142-152.	1.6	69
49	Volume of mixing and solubility of water in Athabasca bitumen at high temperature and pressure. <i>Fluid Phase Equilibria</i> , 2013, 358, 203-211.	1.4	48
50	Kinetics of Vapor-Phase Cracking of Bitumen-Derived Heavy Gas Oil. <i>Energy & Fuels</i> , 2013, 27, 2999-3005.	2.5	5
51	Characterization of Asphaltene Building Blocks by Cracking under Favorable Hydrogenation Conditions. <i>Energy & Fuels</i> , 2013, 27, 1817-1829.	2.5	69
52	Study of Asphaltene Adsorption on Kaolinite by X-ray Photoelectron Spectroscopy and Time-of-Flight Secondary Ion Mass Spectroscopy. <i>Energy & Fuels</i> , 2013, 27, 2465-2473.	2.5	53
53	Separation and Characterization of Vanadyl Porphyrins in Venezuela Orinoco Heavy Crude Oil. <i>Energy & Fuels</i> , 2013, 27, 2874-2882.	2.5	98
54	Use of a Microstructured Mixer for Reaction Kinetics of Thermal Cracking. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4011-4016.	1.8	0

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55	Dispersion of Asphaltene Nanoaggregates and the Role of Rayleigh Scattering in the Absorption of Visible Electromagnetic Radiation by These Nanoaggregates. <i>Energy & Fuels</i> , 2013, 27, 680-693.	2.5	25
56	Occlusion of Polyaromatic Compounds in Asphaltene Precipitates Suggests Porous Nanoaggregates. <i>Energy & Fuels</i> , 2013, 27, 1748-1751.	2.5	32
57	Solvent screening for non-aqueous extraction of Alberta oil sands. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 1153-1160.	0.9	65
58	Effect of Chemical Structure on the Cracking and Coking of Archipelago Model Compounds Representative of Asphaltenes. <i>Energy & Fuels</i> , 2012, 26, 1828-1843.	2.5	34
59	In Situ Observation of Mesophase Formation and Coalescence in Catalytic Hydroconversion of Vacuum Residue Using a Stirred Hot-Stage Reactor. <i>Energy & Fuels</i> , 2012, 26, 3167-3178.	2.5	26
60	Density Functional Theory Investigation of the Contributions of π - π Stacking and Hydrogen-Bonding Interactions to the Aggregation of Model Asphaltene Compounds. <i>Energy & Fuels</i> , 2012, 26, 2727-2735.	2.5	113
61	Heterogeneity of Asphaltene Deposits on Gold Surfaces in Organic Phase Using Atomic Force Microscopy. <i>Energy & Fuels</i> , 2012, 26, 2891-2898.	2.5	13
62	Depolarized Light Scattering for Study of Heavy Oil and Mesophase Formation Mechanisms. <i>Energy & Fuels</i> , 2012, 26, 5408-5420.	2.5	24
63	Kinetics and Properties of Asphaltene Adsorption on Surfaces. <i>Energy & Fuels</i> , 2012, 26, 1009-1018.	2.5	57
64	Minimization of Coke in Thermal Cracking of Athabasca Vacuum Residue in a High-Temperature Short-Residence Time Continuous Flow Aerosol Reactor. <i>Energy & Fuels</i> , 2012, 26, 6292-6299.	2.5	15
65	Thermal Cracking of Substituted Cholestane-Benzoquinoline Asphaltene Model Compounds. <i>Energy & Fuels</i> , 2012, 26, 3592-3603.	2.5	20
66	Incorporation of steroidal biomarkers into petroleum model compounds. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 597-606.	0.9	15
67	The EmhABC efflux pump decreases the efficiency of phenanthrene biodegradation by <i>Pseudomonas fluorescens</i> strain LP6a. <i>Applied Microbiology and Biotechnology</i> , 2012, 95, 757-766.	1.7	10
68	Electrocatalytic hydrogenation of aromatic compounds in ionic liquid solutions over WS ₂ -on-glassy carbon and Raney nickel cathodes. <i>Fuel</i> , 2012, 93, 415-422.	3.4	13
69	Membrane Diffusion Measurements Do Not Detect Exchange between Asphaltene Aggregates and Solution Phase. <i>Energy & Fuels</i> , 2011, 25, 509-523.	2.5	56
70	Influence of Depressurization and Cooling on the Formation and Development of Mesophase. <i>Energy & Fuels</i> , 2011, 25, 5541-5548.	2.5	15
71	Regular Solution Theories Are Not Appropriate for Model Compounds for Petroleum Asphaltenes. <i>Energy & Fuels</i> , 2011, 25, 737-746.	2.5	19
72	Corrosion-Fouling of 316 Stainless Steel and Pure Iron by Hot Oil. <i>Energy & Fuels</i> , 2011, 25, 4540-4551.	2.5	19

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73	Formation of Archipelago Structures during Thermal Cracking Implicates a Chemical Mechanism for the Formation of Petroleum Asphaltenes. <i>Energy & Fuels</i> , 2011, 25, 2130-2136.	2.5	100
74	Quantitative Evidence for Bridged Structures in Asphaltenes by Thin Film Pyrolysis. <i>Energy & Fuels</i> , 2011, 25, 3581-3589.	2.5	90
75	Supramolecular Assembly Model for Aggregation of Petroleum Asphaltenes. <i>Energy & Fuels</i> , 2011, 25, 3125-3134.	2.5	385
76	Adhesion to the hydrocarbon phase increases phenanthrene degradation by <i>Pseudomonas fluorescens</i> LP6a. <i>Biodegradation</i> , 2011, 22, 485-496.	1.5	29
77	Molecular- and cultivation-based analyses of microbial communities in oil field water and in microcosms amended with nitrate to control H ₂ S production. <i>Applied Microbiology and Biotechnology</i> , 2011, 89, 2027-2038.	1.7	32
78	Influence of adhesion on aerobic biodegradation and bioremediation of liquid hydrocarbons. <i>Applied Microbiology and Biotechnology</i> , 2011, 92, 653-675.	1.7	90
79	Carbon disulfide reagent allows the characterization of nonpolar analytes by atmospheric pressure chemical ionization mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1924-1928.	0.7	29
80	Effectiveness and mobility of catalysts for gasification of bitumen coke. <i>Fuel</i> , 2011, 90, 120-125.	3.4	86
81	Kinetics of catalytic steam gasification of bitumen coke. <i>Fuel</i> , 2011, 90, 1285-1291.	3.4	58
82	Stability of agglomerates made from fluid coke at ambient temperature. <i>Powder Technology</i> , 2011, 209, 53-64.	2.1	22
83	Predicting agglomerate fragmentation and agglomerate material survival in fluidized beds. <i>Powder Technology</i> , 2011, 210, 87-102.	2.1	13
84	Selective Sorting of Cargo Proteins into Bacterial Membrane Vesicles. <i>Journal of Biological Chemistry</i> , 2011, 286, 1269-1276.	1.6	280
85	Coke yield and heat transfer in reaction of liquid-solids agglomerates of Athabasca vacuum residue. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 48-54.	0.9	10
86	Evaluation of co-volume mixing rules for bitumen liquid density and bubble pressure estimation. <i>Fluid Phase Equilibria</i> , 2010, 293, 87-100.	1.4	16
87	Application of atomic force microscopy in bacterial research. <i>Scanning</i> , 2010, 32, 74-96.	0.7	73
88	Molecular Structures of Asphaltenes Based on the Dissociation Reactions of Their Ions in Mass Spectrometry. <i>Energy & Fuels</i> , 2010, 24, 5548-5559.	2.5	115
89	Chemistry and Association of Vanadium Compounds in Heavy Oil and Bitumen, and Implications for Their Selective Removal. <i>Energy & Fuels</i> , 2010, 24, 2795-2808.	2.5	191
90	Comparing Laser Desorption/Laser Ionization Mass Spectra of Asphaltenes and Model Compounds. <i>Energy & Fuels</i> , 2010, 24, 3589-3594.	2.5	60

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91	Computational and Experimental Study of the Structure, Binding Preferences, and Spectroscopy of Nickel(II) and Vanadyl Porphyrins in Petroleum. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2180-2188.	1.2	55
92	Structures of Water Molecules at Solvent/Silica Interfaces. <i>Langmuir</i> , 2010, 26, 16397-16400.	1.6	15
93	Measurement of Cracking Kinetics of Pure Model Compounds by Thermogravimetric Analysis. <i>Energy & Fuels</i> , 2010, 24, 3998-4004.	2.5	19
94	Flocculation of Silica Particles from a Model Oil Solution: Effect of Adsorbed Asphaltenes. <i>Energy & Fuels</i> , 2010, 24, 3616-3623.	2.5	21
95	Electrocatalytic hydrogenation of 2-cyclohexen-1-one in a high sulfur environment using a carbon-supported nanostructured tungsten sulfide catalyst. <i>Catalysis Communications</i> , 2010, 12, 314-317.	1.6	10
96	Observation of Liquid Crystals in Heavy Petroleum Fractions. <i>Energy & Fuels</i> , 2010, 24, 4327-4332.	2.5	49
97	Sulfide persistence in oil field waters amended with nitrate and acetate. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2009, 36, 1499-1511.	1.4	22
98	Analysis of Asphaltenes and Asphaltene Model Compounds by Laser-Induced Acoustic Desorption/Fourier Transform Ion Cyclotron Resonance Mass Spectrometry. <i>Energy & Fuels</i> , 2009, 23, 5564-5570.	2.5	118
99	Competitive Adsorption of Toluene and <i>n</i> -Alkanes at Binary Solution/Silica Interfaces. <i>Journal of Physical Chemistry C</i> , 2009, 113, 20355-20359.	1.5	36
100	Water Enhances the Aggregation of Model Asphaltenes in Solution via Hydrogen Bonding. <i>Energy & Fuels</i> , 2009, 23, 3687-3693.	2.5	66
101	Physics in the oil sands of Alberta. <i>Physics Today</i> , 2009, 62, 31-35.	0.3	40
102	Separation of Petroporphyrins from Asphaltenes by Chemical Modification and Selective Affinity Chromatography. <i>Energy & Fuels</i> , 2009, 23, 2600-2605.	2.5	35
103	Analysis of Force Interactions between AFM Tips and Hydrophobic Bacteria Using DLVO Theory. <i>Langmuir</i> , 2009, 25, 6968-6976.	1.6	96
104	Two different mechanisms for adhesion of Gram-negative bacterium, <i>Pseudomonas fluorescens</i> LP6a, to an oil-water interface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 62, 36-41.	2.5	58
105	Aerobic biotransformation of decalin (decahydronaphthalene) by <i>Rhodococcus</i> spp.. <i>Biodegradation</i> , 2008, 19, 785-794.	1.5	7
106	Rejuvenation of Residue Hydroconversion Catalysts by H-donor Solvents. <i>Catalysis Letters</i> , 2008, 125, 69-75.	1.4	6
107	Role of Pressure in Coking of Thin Films of Bitumen. <i>Canadian Journal of Chemical Engineering</i> , 2008, 85, 773-780.	0.9	9
108	Mechanical properties of hexadecane-water interfaces with adsorbed hydrophobic bacteria. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 62, 273-279.	2.5	34

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109	Hydrophobic bacteria at the hexadecane-water interface: Examination of micrometre-scale interfacial properties. <i>Colloids and Surfaces B: Biointerfaces</i> , 2008, 67, 59-66.	2.5	32
110	Modeling of mass transfer and thermal cracking during the coking of Athabasca residues. <i>Chemical Engineering Science</i> , 2008, 63, 1683-1691.	1.9	25
111	Effect of agglomerate properties on agglomerate stability in fluidized beds. <i>Chemical Engineering Science</i> , 2008, 63, 4245-4256.	1.9	35
112	Associative π - π Interactions of Condensed Aromatic Compounds with Vanadyl or Nickel Porphyrin Complexes Are Not Observed in the Organic Phase. <i>Energy & Fuels</i> , 2008, 22, 2465-2469.	2.5	41
113	Pyrene Derivatives of 2,2'-Bipyridine as Models for Asphaltenes: Synthesis, Characterization, and Supramolecular Organization. <i>Energy & Fuels</i> , 2008, 22, 715-720.	2.5	52
114	Pyrolytic Decarboxylation and Cracking of Stearic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 5328-5336.	1.8	93
115	Atomic Force Microscopy Measurement of Heterogeneity in Bacterial Surface Hydrophobicity. <i>Langmuir</i> , 2008, 24, 4944-4951.	1.6	77
116	Potential Microbial Enhanced Oil Recovery Processes: A Critical Analysis. , 2008, , .		54
117	Agglomeration and Deposition of Coke during Cracking of Petroleum Vacuum Residue. <i>Energy & Fuels</i> , 2007, 21, 1205-1211.	2.5	17
118	Selectivity among organic sulfur compounds in one- and two-liquid-phase cultures of <i>Rhodococcus</i> sp. strain JVH1. <i>Biodegradation</i> , 2007, 18, 473-480.	1.5	17
119	Sulfur from benzothiophene and alkylbenzothiophenes supports growth of <i>Rhodococcus</i> sp. strain JVH1. <i>Biodegradation</i> , 2007, 18, 541-549.	1.5	21
120	Hexabenzocoronene Model Compounds for Asphaltene Fractions: Synthesis & Characterization. <i>Energy & Fuels</i> , 2006, 20, 2439-2447.	2.5	48
121	Agglomerate stability in fluidized beds of glass beads and silica sand. <i>Powder Technology</i> , 2006, 165, 115-127.	2.1	55
122	Mutations in the Central Cavity and Periplasmic Domain Affect Efflux Activity of the Resistance-Nodulation-Division Pump EmhB from <i>Pseudomonas fluorescens</i> cLP6a. <i>Journal of Bacteriology</i> , 2006, 188, 115-123.	1.0	33
123	Measurement of Vacuum Residue and Asphaltene Fluid Properties at Process Conditions. <i>Journal of the Japan Petroleum Institute</i> , 2005, 48, 181-188.	0.4	6
124	Association Behavior of Pyrene Compounds as Models for Asphaltenes. <i>Energy & Fuels</i> , 2005, 19, 1268-1271.	2.5	53
125	Fluid Properties of Asphaltenes at 310-530 °C. <i>Energy & Fuels</i> , 2005, 19, 2026-2033.	2.5	10
126	Use of a Novel Fluorinated Organosulfur Compound To Isolate Bacteria Capable of Carbon-Sulfur Bond Cleavage. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1487-1493.	1.4	35

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127	Saturable, Energy-Dependent Uptake of Phenanthrene in Aqueous Phase by Mycobacterium sp. Strain RJGII-135. Applied and Environmental Microbiology, 2004, 70, 363-369.	1.4	61
128	Pyridine adsorption and reaction on Mo(110) and C/Ni-Mo(110): experiment and modeling. Surface Science, 2004, 569, 193-206.	0.8	10
129	Stabilization of Oil-Water Emulsions by Hydrophobic Bacteria. Applied and Environmental Microbiology, 2004, 70, 6333-6336.	1.4	166
130	Quantitative Molecular Representation and Sequential Optimization of Athabasca Asphaltenes. Energy & Fuels, 2004, 18, 1377-1384.	2.5	202
131	Inhibition and Deactivation of Hydrodenitrogenation (HDN) Catalysts by Narrow-Boiling Fractions of Athabasca Coker Gas Oil. Energy & Fuels, 2004, 18, 539-546.	2.5	31
132	Melting and Fluid Behavior of Asphaltene Films at 200-500 °C. Energy & Fuels, 2004, 18, 1419-1423.	2.5	28
133	Fluid Properties at Coking Process Conditions. Industrial & Engineering Chemistry Research, 2004, 43, 2929-2935.	1.8	23
134	Kinetics of Cracking and Devolatilization during Coking of Athabasca Residues. Industrial & Engineering Chemistry Research, 2004, 43, 5438-5445.	1.8	51
135	Kinetics of Hydrocracking and Hydrotreating of Coker and Oilsands Gas Oils. Petroleum Science and Technology, 2003, 21, 997-1015.	0.7	20
136	Coking Kinetics of Asphaltenes as a Function of Chemical Structure. Energy & Fuels, 2003, 17, 1048-1056.	2.5	51
137	Trapping of Aromatic Compounds during Coking of Athabasca Vacuum Residue. Energy & Fuels, 2003, 17, 282-284.	2.5	2
138	Measurement of Adhesive Forces during Coking of Athabasca Vacuum Residue. Industrial & Engineering Chemistry Research, 2003, 42, 3549-3554.	1.8	5
139	Consistency of Asphaltene Chemical Structures with Pyrolysis and Coking Behavior. Energy & Fuels, 2003, 17, 1566-1569.	2.5	110
140	Liquid-Phase Behavior during the Cracking of Asphaltenes. Industrial & Engineering Chemistry Research, 2003, 42, 4101-4108.	1.8	31
141	Identification and Characterization of the emhABC Efflux System for Polycyclic Aromatic Hydrocarbons in Pseudomonas fluorescens cLP6a. Journal of Bacteriology, 2003, 185, 6233-6240.	1.0	69
142	Transport and Reaction Processes in Bioremediation of Organic Contaminants. 1. Review of Bacterial Degradation and Transport. International Journal of Chemical Reactor Engineering, 2003, 1, .	0.6	16
143	Measurement of Efficiency of Distribution of Liquid Feed in a Gas-Solid Fluidized Bed Reactor. International Journal of Chemical Reactor Engineering, 2003, 1, .	0.6	15
144	Dibenzyl Sulfide Metabolism by White Rot Fungi. Applied and Environmental Microbiology, 2003, 69, 1320-1324.	1.4	51

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145	Hydrotreating Chemistry of Model Products from Bioprocessing of Carbazoles. <i>Energy & Fuels</i> , 2002, 16, 1076-1086.	2.5	14
146	Quality of Distillates from Repeated Recycle of Residue. <i>Energy & Fuels</i> , 2002, 16, 477-484.	2.5	54
147	Kinetics of Solvent Interactions with Asphaltenes during Coke Formation. <i>Energy & Fuels</i> , 2002, 16, 148-154.	2.5	65
148	Role of Chain Reactions and Olefin Formation in Cracking, Hydroconversion, and Coking of Petroleum and Bitumen Fractions. <i>Energy & Fuels</i> , 2002, 16, 756-766.	2.5	137
149	Selective transport and accumulation of alkanes by <i>Rhodococcus erythropolis</i> S+14He. <i>Biotechnology and Bioengineering</i> , 2002, 80, 650-659.	1.7	49
150	Pressure buildup in gas-liquid flow through packed beds due to deposition of fine particles. <i>Canadian Journal of Chemical Engineering</i> , 2002, 80, 346-354.	0.9	41
151	Fundamentals of bitumen coking processes analogous to granulations: A critical review. <i>Canadian Journal of Chemical Engineering</i> , 2002, 80, 393-401.	0.9	57
152	Kinetics of biodegradation of mixtures of polycyclic aromatic hydrocarbons. <i>Applied Microbiology and Biotechnology</i> , 2002, 60, 361-366.	1.7	46
153	Use of ¹³ C Tracers to Determine Mass-Transfer Limitations on Thermal Cracking of Thin Films of Bitumen. <i>Energy & Fuels</i> , 2001, 15, 1087-1093.	2.5	17
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