

Ian D Gates

List of Publications by Year in descending order

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186
papers

5,147
citations

94433

37
h-index

118850

62
g-index

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all docs

187
docs citations

187
times ranked

3458
citing authors

#	ARTICLE	IF	CITATIONS
1	Methodological framework to find links between life cycle sustainability assessment categories and the UN Sustainable Development Goals based on literature. <i>Journal of Industrial Ecology</i> , 2023, 27, 707-725.	5.5	5
2	A novel Fe-Co double-atom catalyst with high low-temperature activity and strong water-resistant for O ₃ decomposition: A theoretical exploration. <i>Journal of Hazardous Materials</i> , 2022, 421, 126639.	12.4	16
3	Why is it so difficult to replace diesel in Nunavut, Canada?. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 157, 112030.	16.4	7
4	High throughput screening of promising lead-free inorganic halide double perovskites <i>via</i> first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 3460-3469.	2.8	26
5	Exploring the Effects of Ionic Defects on the Stability of CsPbI ₃ with a Deep Learning Potential. <i>ChemPhysChem</i> , 2022, 23, e202100841.	2.1	8
6	Lag times in toe-to-heel air injection (THAI) operations explain underlying heavy oil production mechanisms. <i>Petroleum Science</i> , 2022, 19, 1165-1173.	4.9	5
7	Bitumen and asphaltene derived nanoporous carbon and nickel oxide/carbon composites for supercapacitor electrodes. <i>Scientific Reports</i> , 2022, 12, 4095.	3.3	15
8	A descriptor for the structural stability of organic-inorganic hybrid perovskites based on binding mechanism in electronic structure. <i>Journal of Molecular Modeling</i> , 2022, 28, 80.	1.8	8
9	Three- π -One Alkylamine-Tuned MoO _x for Lab-Scale to Real-Life Aqueous Supercapacitors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	18
10	A Sulfur-Tolerant MOF-Based Single-Atom Fe Catalyst for Efficient Oxidation of NO and Hg ⁰ . <i>Advanced Materials</i> , 2022, 34, e2110123.	21.0	40
11	Rich solvent - Steam assisted gravity drainage (RS-SAGD): An option for clean oil sands recovery processes. <i>Cleaner Engineering and Technology</i> , 2022, 8, 100463.	4.0	6
12	Policy Insights to Accelerate Cleaner Steam-Assisted Gravity Drainage Operations. <i>Energies</i> , 2022, 15, 86.	3.1	2
13	Rational Design of Coordination Bond Connected Metal Organic Frameworks/MXene Hybrids for Efficient Solar Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	56
14	Carbon intensity of in-situ oil sands operations with direct contact steam generation lower than that of once-through steam generation. <i>Journal of Cleaner Production</i> , 2022, 367, 133046.	9.3	4
15	The application of supervised machine learning techniques for multivariate modelling of gas component viscosity: A comparative study. <i>Fuel</i> , 2021, 285, 119146.	6.4	12
16	A machine learning model for predicting multi-stage horizontal well production. <i>Journal of Petroleum Science and Engineering</i> , 2021, 198, 108133.	4.2	15
17	Real-time steam allocation workflow using machine learning for digital heavy oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2021, 199, 108168.	4.2	7
18	An analysis of toe-to-heel air injection for heavy oil production using machine learning. <i>Journal of Petroleum Science and Engineering</i> , 2021, 197, 108109.	4.2	12

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19	Effect of cellulose nanocrystal nanofluid on displacement of oil in a Hele-Shaw cell. Journal of Petroleum Science and Engineering, 2021, 196, 108068.	4.2	8
20	Effects of molecular polarity on the adsorption and desorption behavior of asphaltene model compounds on silica surfaces. Fuel, 2021, 284, 118990.	6.4	25
21	Identifying Reservoir Features via iSOR Response Behaviour. Energies, 2021, 14, 427.	3.1	3
22	Dual Stimuli-Responsive Pickering Emulsions from Novel Magnetic Hydroxyapatite Nanoparticles and Their Characterization Using a Microfluidic Platform. Langmuir, 2021, 37, 1353-1364.	3.5	18
23	Lipase-Immobilized Cellulosic Capsules with Water Absorbency for Enhanced Pickering Interfacial Biocatalysis. Langmuir, 2021, 37, 810-819.	3.5	11
24	Hydrodynamic analysis of nanofluid's convective heat transfer in channels with extended surfaces. Physics of Fluids, 2021, 33, .	4.0	14
25	Cause-effect chains in S-LCA based on DPSIR framework using Markov healthcare model: an application to "working hours" in Canada. International Journal of Life Cycle Assessment, 2021, 26, 936-949.	4.7	8
26	On the ratio of energy produced to energy injected in SAGD: Long-term consequences of early stage operational decisions. Journal of Petroleum Science and Engineering, 2021, 199, 108271.	4.2	8
27	Electrochemical ammonia synthesis via nitrate reduction on Fe single atom catalyst. Nature Communications, 2021, 12, 2870.	12.8	605
28	A Facile Strategy to Prepare Small Water Clusters via Interacting with Functional Molecules. International Journal of Molecular Sciences, 2021, 22, 8250.	4.1	2
29	Time scales for steam injection and bitumen production in steam-assisted gravity drainage. Energy, 2021, 227, 120430.	8.8	11
30	Instilling innovation and entrepreneurship in engineering graduate students: Observations at the University of Calgary. Canadian Journal of Chemical Engineering, 2021, 99, 2195-2204.	1.7	9
31	Evaluation of energy extraction from a geothermal resource in central Alberta, Canada using different well configurations. Geothermics, 2021, 96, 102222.	3.4	11
32	Exploration of in-situ formed MoS _x catalyst for co-hydrodeoxygenation of sawdust and vacuum gas oil in pilot-scale plant. Applied Catalysis B: Environmental, 2021, 297, 120499.	20.2	5
33	Design of (C ₃ N ₂ H ₅)(1-x)CsPbI ₃ as a novel hybrid perovskite with strong stability and excellent photoelectric performance: A theoretical prediction. Solar Energy Materials and Solar Cells, 2021, 233, 111401.	6.2	7
34	CO ₂ adsorption and dissociation on single and double iron atomic molybdenum disulfide catalysts: A DFT study. Fuel, 2021, 305, 121547.	6.4	16
35	Can sustainable ammonia synthesis pathways compete with fossil-fuel based Haber-Bosch processes?. Energy and Environmental Science, 2021, 14, 2535-2548.	30.8	162
36	Methane activation on dual-atom catalysts supported on graphene. Chemical Communications, 2021, 57, 12127-12130.	4.1	6

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37	Ultrastretchable, Adhesive, and Antibacterial Hydrogel with Robust Spinnability for Manufacturing Strong Hydrogel Micro/Nanofibers. <i>Small</i> , 2021, 17, e2103521.	10.0	52
38	Geometric structures, electronic characteristics, stabilities, catalytic activities, and descriptors of graphene-based single-atom catalysts. <i>Nano Materials Science</i> , 2020, 2, 120-131.	8.8	55
39	Theoretical prediction of graphene-based single-atom iron as a novel catalyst for catalytic oxidation of Hg0 by O2. <i>Applied Surface Science</i> , 2020, 508, 145035.	6.1	27
40	A Sensing and Computational Framework for Estimating the Seismic Velocities of Rocks Interacting With the Drill Bit. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 3178-3189.	6.3	7
41	Theoretical study on double-atom catalysts supported with graphene for electroreduction of nitrogen into ammonia. <i>Electrochimica Acta</i> , 2020, 335, 135667.	5.2	62
42	Electrophilic oxygen on defect-rich carbon nanotubes for selective oxidation of cyclohexane. <i>Catalysis Science and Technology</i> , 2020, 10, 332-336.	4.1	30
43	Detailed analysis of Toe-to-Heel Air Injection for heavy oil production. <i>Journal of Petroleum Science and Engineering</i> , 2020, 186, 106704.	4.2	25
44	Thermal Viscous Fingering in Thermal Recovery Processes. <i>Energies</i> , 2020, 13, 4986.	3.1	5
45	Mechanism study on CO2 reforming of methane over platinum cluster doped graphene: A DFT calculation. <i>Molecular Catalysis</i> , 2020, 497, 111205.	2.0	8
46	Heteroatom-Doped Transition Metal Nitrides for CO Electrochemical Reduction: A Density Functional Theory Screening Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26344-26351.	3.1	8
47	Advanced sensing and imaging for efficient energy exploration in complex reservoirs. <i>Energy Reports</i> , 2020, 6, 3104-3118.	5.1	4
48	Apparent Contact Angle around the Periphery of a Liquid Drop on Roughened Surfaces. <i>Scientific Reports</i> , 2020, 10, 8220.	3.3	24
49	Fracturing Gels as Analogs to Understand Fracture Behavior in Shale Gas Reservoirs. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4345-4355.	5.4	4
50	On the adsorption of elemental mercury on single-atom TM (TM=V, Cr, Mn, Co) decorated graphene substrates. <i>Applied Surface Science</i> , 2020, 516, 146037.	6.1	17
51	Bayesian biclustering by dynamics: Algorithm testing, comparison against random agglomeration, and calculation of application specific prior information. <i>MethodsX</i> , 2020, 7, 100897.	1.6	0
52	The effect of coordination environment on the kinetic and thermodynamic stability of single-atom iron catalysts. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3983-3989.	2.8	45
53	Orbital graph convolutional neural network for material property prediction. <i>Physical Review Materials</i> , 2020, 4, .	2.4	64
54	Using computational fluid dynamics (CFD) modeling to understand murine embryonic stem cell aggregate size and pluripotency distributions in stirred suspension bioreactors. <i>Journal of Biotechnology</i> , 2019, 304, 16-27.	3.8	21

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55	Reducing the Energy and Steam Consumption of SAGD Through Cyclic Solvent Co-Injection. <i>Energies</i> , 2019, 12, 3860.	3.1	14
56	A working method for estimating dynamic shear velocity in the montney formation. <i>MethodsX</i> , 2019, 6, 1876-1893.	1.6	4
57	Metal-Organic Frameworks: 2D and 3D Metal-Organic Framework at the Oil/Water Interface: A Case Study of Copper Benzenedicarboxylate (Adv. Mater. Interfaces 2/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970015.	3.7	0
58	Conformance Control for SAGD Using Oil-in-Water Emulsions in Heterogeneous Oil Sands Reservoirs. , 2019, , .		5
59	On naphthenic acids removal from crude oil and oil sands process-affected water. <i>Fuel</i> , 2019, 253, 1229-1246.	6.4	67
60	Non-condensable gas Co-Injection with steam for oil sands recovery. <i>Energy</i> , 2019, 179, 736-746.	8.8	26
61	Integrated approach for fracture characterization of hydraulically stimulated volume in tight gas reservoir. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 2429-2440.	2.4	5
62	Methane activation by a single iron atom supported on graphene: Impact of substrates. <i>Molecular Catalysis</i> , 2019, 469, 40-47.	2.0	31
63	Study of conformance control in oil sands by oil-in-water emulsion injection using heterogeneous parallel-sandpack models. <i>Fuel</i> , 2019, 244, 335-351.	6.4	30
64	Release of sugars and fatty acids from heavy oil biodegradation by common hydrolytic enzymes. <i>Scientific Reports</i> , 2019, 9, 15584.	3.3	4
65	Kinetic Modeling of Ozone Decomposition and Peroxone Oxidation of Toluene in an Aqueous Phase Using <i>ab Initio</i> Calculations. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 22934-22941.	3.7	8
66	On multistage hydraulic fracturing in tight gas reservoirs: Montney Formation, Alberta, Canada. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 1127-1141.	4.2	53
67	2D and 3D Metal-Organic Framework at the Oil/Water Interface: A Case Study of Copper Benzenedicarboxylate. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801139.	3.7	25
68	Cleaner production from Steam-Assisted Gravity Drainage using seismic-based automated control. <i>Journal of Cleaner Production</i> , 2019, 209, 1139-1151.	9.3	6
69	Real-time multivariable model predictive control for steam-assisted gravity drainage. <i>AIChE Journal</i> , 2018, 64, 3034-3041.	3.6	5
70	Microemulsion phase formation at oil-cellulose microcrystal suspension interfaces. <i>Cellulose</i> , 2018, 25, 1625-1636.	4.9	3
71	Interactions of Biodegradable Ionic Liquids with a Model Naphthenic Acid. <i>Scientific Reports</i> , 2018, 8, 176.	3.3	9
72	Computational Study on the Absorption Mechanisms of SO ₂ by Ionic Liquids. <i>ChemistrySelect</i> , 2018, 3, 4330-4338.	1.5	3

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73	An in-situ process to consolidate oil sands mine tailings. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3295-3305.	6.7	4
74	Non-Newtonian rheology in suspension cell cultures significantly impacts bioreactor shear stress quantification. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2101-2113.	3.3	23
75	On methane emissions from shale gas development. <i>Energy</i> , 2018, 152, 594-600.	8.8	32
76	Novel insights on the impact of top water on Steam-Assisted Gravity Drainage in a point bar reservoir. <i>International Journal of Energy Research</i> , 2018, 42, 616-632.	4.5	5
77	Predictive Modeling of Energy and Emissions from Shale Gas Development. <i>Environmental Science & Technology</i> , 2018, 52, 14547-14555.	10.0	4
78	Determination of stimulated reservoir volume and anisotropic permeability using analytical modelling of microseismic and hydraulic fracturing parameters. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 58, 234-240.	4.4	8
79	Pad-scale control improves SAGD performance. <i>Petroleum</i> , 2018, 4, 318-328.	2.8	10
80	Nanoparticle localization in blood vessels: dependence on fluid shear stress, flow disturbances, and flow-induced changes in endothelial physiology. <i>Nanoscale</i> , 2018, 10, 15249-15261.	5.6	50
81	Identification of Nanocellulose Retention Characteristics in Porous Media. <i>Nanomaterials</i> , 2018, 8, 547.	4.1	20
82	Co-immobilization of cellulase and lysozyme on amino-functionalized magnetic nanoparticles: An activity-tunable biocatalyst for extraction of lipids from microalgae. <i>Bioresource Technology</i> , 2018, 263, 317-324.	9.6	60
83	Thermal oil recovery from fractured reservoirs: Energy and emissions intensities. <i>Energy</i> , 2018, 155, 29-34.	8.8	19
84	Comparison of Electronic and Physicochemical Properties between Imidazolium-Based and Pyridinium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6771-6780.	2.6	11
85	Modeling solvent enhanced gravity drainage from a single matrix block in fractured oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2017, 152, 555-563.	4.2	6
86	Insights on Heat Transfer at the Top of Steam Chambers in SAGD. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.1	3
87	On the fluid mechanics of slotted liners in horizontal wells. <i>Chemical Engineering Science</i> , 2017, 164, 23-33.	3.8	7
88	Steam injection gravity drainage as a follow-up process for cyclic steam stimulation. <i>Journal of Petroleum Science and Engineering</i> , 2017, 153, 268-282.	4.2	12
89	CO ₂ -based heavy oil recovery processes for post-CHOPS reservoirs. <i>Journal of CO₂ Utilization</i> , 2017, 19, 238-246.	6.8	31
90	A new kinetic model for non-equilibrium dissolved gas ex-solution from static heavy oil. <i>Fuel</i> , 2017, 204, 12-22.	6.4	21

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91	Modeling geomechanical properties in the montney formation, Alberta, Canada. International Journal of Rock Mechanics and Minings Sciences, 2017, 96, 94-105.	5.8	20
92	Unveiling the Causes of Fingering in Steam-Assisted Heavy Oil Recovery - Linear Instability Analysis and Numerical Simulation. , 2017, , .		0
93	Molecular interactions between 1-butyl-3-methylimidazolium tetrafluoroborate and model naphthenic acids: A DFT study. Journal of Molecular Liquids, 2017, 243, 462-471.	4.9	26
94	Reactions of hydroxyl radicals with benzoic acid and benzoate. RSC Advances, 2017, 7, 35776-35785.	3.6	41
95	On fingering of steam chambers in steam-assisted heavy oil recovery. AIChE Journal, 2016, 62, 1364-1381.	3.6	7
96	A simple dilation-recompaction model for hydraulic fracturing. Journal of Unconventional Oil and Gas Resources, 2016, 16, 62-75.	3.5	10
97	On the physics of cyclic steam stimulation. Energy, 2016, 115, 969-985.	8.8	48
98	Assessment of reservoir heterogeneity by using produced water chemistry in SAGD. International Journal of Energy Research, 2016, 40, 1367-1380.	4.5	3
99	Phased Heating and Solvent Injection to Enhance Recovery of Heavy Oil and Bitumen. , 2016, , .		2
100	On the Performance of SAGD in Athabasca Point Bar Deposit Reservoir With Top Water. , 2016, , .		0
101	Development of a multiscale microbial kinetics coupled gas transport model for the simulation of biogenic coalbed methane production. Fuel, 2016, 167, 188-198.	6.4	28
102	Drained/Undrained Zones Boundary in Steam-Assisted Gravity Drainage Process. , 2015, , .		0
103	An evaluation of enhanced oil recovery strategies for a heavy oil reservoir after cold production with sand. International Journal of Energy Research, 2015, 39, 1355-1365.	4.5	15
104	Impact of Flow Control Devices on SAGD Performance from Less Heterogeneous to Strongly Heterogeneous Reservoirs. , 2015, , .		5
105	Stochastic proxy modelling for coalbed methane production using orthogonal polynomials—Corresponding author, email:vprasad@ualberta.ca. Financial support from Carbon Management Canada and the Natural Sciences and Engineering Research Council of Canada is gratefully acknowledged. IFAC-PapersOnLine, 2015, 48, 88-93.	0.9	1
106	Unconventional Heavy Oil Growth and Global Greenhouse Gas Emissions. Environmental Science & Technology, 2015, 49, 8824-8832.	10.0	28
107	Modelling of Cold Heavy Oil Production with Sand (CHOPS) using a fluidized sand algorithm. Fuel, 2015, 158, 937-947.	6.4	26
108	On hot water flooding strategies for thin heavy oil reservoirs. Fuel, 2015, 153, 559-568.	6.4	30

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109	Impact of biofilm on bacterial transport and deposition in porous media. Journal of Contaminant Hydrology, 2015, 183, 109-120.	3.3	18
110	Model-Predictive-Control (MPC) of Steam Trap Subcool in Steam-Assisted Gravity Drainage (SAGD). IFAC-PapersOnLine, 2015, 48, 539-544.	0.9	10
111	Prediction of steam-assisted gravity drainage steam to oil ratio from reservoir characteristics. Energy, 2015, 93, 1663-1670.	8.8	31
112	Using bacterial bioluminescence to evaluate the impact of biofilm on porous media hydraulic properties. Journal of Microbiological Methods, 2015, 109, 84-92.	1.6	16
113	A review of pyrolysis, aquathermolysis, and oxidation of Athabasca bitumen. Fuel Processing Technology, 2015, 131, 270-289.	7.2	112
114	Low-temperature oxidation of Lloydminster heavy oil: Kinetic study and product sequence estimation. Fuel, 2014, 115, 534-538.	6.4	62
115	Thermal recovery strategies for thin heavy oil reservoirs. Fuel, 2014, 117, 431-441.	6.4	118
116	A new reaction model for low temperature oxidation of heavy oil: Experiments and numerical modeling. Energy, 2014, 64, 419-428.	8.8	68
117	Energy efficiency and emissions intensity of SAGD. Fuel, 2014, 115, 706-713.	6.4	135
118	On in situ hydrogen sulfide evolution and catalytic scavenging in steam-based oil sands recovery processes. Energy, 2014, 64, 1035-1043.	8.8	6
119	Orientation of a pad of SAGD well pairs in an Athabasca point bar deposit affects performance. Marine and Petroleum Geology, 2014, 54, 37-46.	3.3	20
120	On the Stability of the Edge of a Steam-Assisted-Gravity-Drainage Steam Chamber. SPE Journal, 2014, 19, 280-288.	3.1	12
121	A new reaction model for aquathermolysis of Athabasca bitumen. Canadian Journal of Chemical Engineering, 2013, 91, 475-482.	1.7	47
122	Practical process design for in situ gasification of bitumen. Applied Energy, 2013, 107, 281-296.	10.1	63
123	Optimized solvent-aided steam-flooding strategy for recovery of thin heavy oil reservoirs. Fuel, 2013, 112, 50-59.	6.4	77
124	Kinetic Studies of a Novel CO ₂ Gasification Method Using Coal from Deep Unmineable Seams. Industrial & Engineering Chemistry Research, 2013, 52, 14787-14797.	3.7	30
125	SAGD well orientation in point bar oil sand deposit affects performance. Engineering Geology, 2013, 157, 79-92.	6.3	34
126	Effect of gap and flow orientation on two-phase flow in an oil-wet gap: Relative permeability curves and flow structures. International Journal of Multiphase Flow, 2013, 57, 78-87.	3.4	15

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127	Image Analysis Method for Evaluating Heterogeneous Growth and Differentiation of Embryonic Stem Cell Cultures. ACS Symposium Series, 2013, , 165-181.	0.5	0
128	New gas material balance to quantify biogenic gas generation rates from shallow organic-matter-rich shales. Fuel, 2013, 104, 443-451.	6.4	18
129	A new kinetic model for pyrolysis of Athabasca bitumen. Canadian Journal of Chemical Engineering, 2013, 91, 889-901.	1.7	27
130	Kinetic Models for Low Temperature Oxidation Subranges based on Reaction Products. , 2013, , .		9
131	Innovation, Motivation, and Fear: A Novel Perspective for Unconventional Oil. , 2013, , .		0
132	SAGD Pad Performance in an Ultra-Defined Athabasca Point Bar Deposit. , 2013, , .		0
133	Optimization of a Vertical-Horizontal Heavy Oil Thermal Operation by using Automated Field-scale Control. , 2013, , .		0
134	A New Thermogeomechanical Theory for Gravity Drainage in Steam-Assisted Gravity Drainage. SPE Journal, 2013, 18, 736-742.	3.1	7
135	Understanding the Convection Heat-Transfer Mechanism in the Steam-Assisted-Gravity-Drainage Process. SPE Journal, 2013, 18, 1202-1216.	3.1	30
136	Simulation Analysis of Steam-Based EOR Using MultiObjects Grosmont Models. , 2013, , .		1
137	Smart Pad Reservoir Production Machine for Oil Sands SAGD Operations. , 2013, , .		1
138	Solvent-aided Steam-flooding Strategy Optimization in Thin Heavy Oil Reservoirs. , 2013, , .		2
139	A Basis for Automated Control of Steam Trap Subcool in SAGD. SPE Journal, 2012, 17, 680-686.	3.1	26
140	Reservoir Simulation of Steam Fracturing in Early-Cycle Cyclic Steam Stimulation. SPE Reservoir Evaluation and Engineering, 2012, 15, 676-687.	1.8	26
141	Monitoring of SAGD Steam-Chamber Conformance by Using White-Noise-Reflection Processes. SPE Journal, 2012, 17, 1246-1254.	3.1	2
142	Impact of Different SAGD Well Configurations (Dover SAGD Phase B Case Study). Journal of Canadian Petroleum Technology, 2012, 51, 32-45.	2.3	15
143	Detailed Study of Low-Temperature Oxidation of an Alaska Heavy Oil. Energy & Fuels, 2012, 26, 1592-1597.	5.1	37
144	New thermal-reactive reservoir engineering model predicts hydrogen sulfide generation in Steam Assisted Gravity Drainage. Journal of Petroleum Science and Engineering, 2012, 94-95, 100-111.	4.2	37

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145	Mass Transfer Limitations in Embryoid Bodies during Human Embryonic Stem Cell Differentiation. Cells Tissues Organs, 2012, 196, 34-47.	2.3	129
146	Real time monitoring of biofilm development under flow conditions in porous media. Biofouling, 2012, 28, 937-951.	2.2	11
147	Impact of intraformational water zones on SAGD performance. Journal of Petroleum Science and Engineering, 2012, 82-83, 187-197.	4.2	20
148	On SAGD in Oil Sands Reservoirs With No Caprock and Top Water Zone. Journal of Canadian Petroleum Technology, 2011, 50, 21-33.	2.3	12
149	Evolution of In Situ Oil Sands Recovery Technology: What Happened and What's New?. , 2011, , .		9
150	Interfacial Stability of In-Situ Bitumen Thermal Solvent Recovery Processes. SPE Journal, 2011, 16, 55-64.	3.1	36
151	A new approach to model the spatiotemporal development of biofilm phase in porous media. Environmental Microbiology, 2011, 13, 3010-3023.	3.8	10
152	Stability of the edge of a SAGD steam chamber in a bitumen reservoir. Chemical Engineering Science, 2011, 66, 1802-1809.	3.8	27
153	Potential for hydrogen generation from in situ combustion of Athabasca bitumen. Fuel, 2011, 90, 2254-2265.	6.4	60
154	Reactive Thermal Reservoir Simulation: Hydrogen Sulphide Production in SAGD. , 2011, , .		13
155	Convection at the Edge of a Steam-Assisted-Gravity-Drainage Steam Chamber. SPE Journal, 2011, 16, 503-512.	3.1	63
156	Effect of Fracture and Flow Orientation on Two-Phase Flow in an Oil-Wet Fracture: Relative Permeability Curves and Flow Structures. , 2010, , .		7
157	Support-Vector Regression for Permeability Prediction in a Heterogeneous Reservoir: A Comparative Study. SPE Reservoir Evaluation and Engineering, 2010, 13, 485-495.	1.8	38
158	Steam-Solvent Coupling at the Chamber Edge in an In Situ Bitumen Recovery Process. , 2010, , .		20
159	Reservoir Simulation of Steam Fracturing in Early Cycle Cyclic Steam Stimulation. , 2010, , .		3
160	On the Relationship between Completion Design, Reservoir Characteristics, and Steam Conformance Achieved in Steam-based Recovery Processes such as SAGD. , 2010, , .		9
161	The velocity and shape of convected elongated liquid drops in narrow gaps. Journal of Petroleum Science and Engineering, 2010, 72, 67-77.	4.2	7
162	On the Impact of Permeability Heterogeneity on SAGD Steam Chamber Growth. Natural Resources Research, 2010, 19, 151-164.	4.7	42

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163	On the Capability of Support Vector Machines to Classify Lithology from Well Logs. Natural Resources Research, 2010, 19, 125-139.	4.7	86
164	Support vector regression for porosity prediction in a heterogeneous reservoir: A comparative study. Computers and Geosciences, 2010, 36, 1494-1503.	4.2	127
165	Multiphase flow at the edge of a steam chamber. Canadian Journal of Chemical Engineering, 2010, 88, 312-321.	1.7	34
166	Solvent-aided Steam-Assisted Gravity Drainage in thin oil sand reservoirs. Journal of Petroleum Science and Engineering, 2010, 74, 138-146.	4.2	65
167	Impact of steam trap control on performance of steam-assisted gravity drainage. Journal of Petroleum Science and Engineering, 2010, 75, 215-222.	4.2	37
168	A support vector machine algorithm to classify lithofacies and model permeability in heterogeneous reservoirs. Engineering Geology, 2010, 114, 267-277.	6.3	180
169	Interfacial Stability and Displacement Efficiency in Thermal Solvent Processes. , 2010, , .		4
170	A Comprehensive Kinetic Theory to Model Thermolysis, Aquathermolysis, Gasification, Combustion, and Oxidation of Athabasca Bitumen. , 2010, , .		12
171	Impact of Oil-Water Relative Permeability Curves on SAGD Behaviour. , 2010, , .		10
172	22. The Impact of Oil Viscosity Heterogeneity on Production from Heavy Oil and Bitumen Reservoirs: Geotailoring Recovery Processes to Compositionally Graded Reservoirs. , 2010, , 265-273.		4
173	Combustion Kinetics of Athabasca Bitumen from 1D Combustion Tube Experiments. Natural Resources Research, 2009, 18, 193-211.	4.7	58
174	Design of Hybrid Steam-In Situ Combustion Bitumen Recovery Processes. Natural Resources Research, 2009, 18, 213-233.	4.7	46
175	Innovative Data-Driven Permeability Prediction in a Heterogeneous Reservoir. , 2009, , .		18
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