

Omid H Ardakani

List of Publications by Year in descending order

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72
papers

1,679
citations

304743

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h-index

302126

39
g-index

90
all docs

90
docs citations

90
times ranked

1359
citing authors

#	ARTICLE	IF	CITATIONS
1	Mercury as a proxy for volcanic emissions in the geologic record. <i>Earth-Science Reviews</i> , 2019, 196, 102880.	9.1	232
2	Petrophysical and geomechanical characteristics of Canadian tight oil and liquid-rich gas reservoirs: I. Pore network and permeability characterization. <i>Fuel</i> , 2015, 153, 664-681.	6.4	196
3	Characterization of organic matter fractions in an unconventional tight gas siltstone reservoir. <i>International Journal of Coal Geology</i> , 2015, 150-151, 296-305.	5.0	113
4	A comparison of shale permeability coefficients derived using multiple non-steady-state measurement techniques: Examples from the Duvernay Formation, Alberta (Canada). <i>Fuel</i> , 2015, 140, 371-387.	6.4	87
5	Effect of thermal maturity on remobilization of molybdenum in black shales. <i>Earth and Planetary Science Letters</i> , 2016, 449, 311-320.	4.4	62
6	Petrophysical and geomechanical characteristics of Canadian tight oil and liquid-rich gas reservoirs: II. Geomechanical property estimation. <i>Fuel</i> , 2015, 153, 682-691.	6.4	59
7	Do all fractions of organic matter contribute equally in shale porosity? A case study from Upper Ordovician Utica Shale, southern Quebec, Canada. <i>Marine and Petroleum Geology</i> , 2018, 92, 794-808.	3.3	57
8	The Silurian Qusaiba Hot Shales of Saudi Arabia: An integrated assessment of thermal maturity. <i>International Journal of Coal Geology</i> , 2016, 159, 107-119.	5.0	52
9	Possible pore structure deformation effects on the shale gas enrichment: An example from the Lower Cambrian shales of the Eastern Upper Yangtze Platform, South China. <i>International Journal of Coal Geology</i> , 2020, 217, 103349.	5.0	52
10	Solid bitumen in the Montney Formation: Diagnostic petrographic characteristics and significance for hydrocarbon migration. <i>International Journal of Coal Geology</i> , 2018, 198, 48-62.	5.0	51
11	Effects of nanoporosity and surface imperfections on solid bitumen reflectance (BRo) measurements in unconventional reservoirs. <i>International Journal of Coal Geology</i> , 2015, 138, 95-102.	5.0	45
12	The influence of rigid matrix minerals on organic porosity and pore size in shale reservoirs: Upper Devonian Duvernay Formation, Alberta, Canada. <i>International Journal of Coal Geology</i> , 2020, 227, 103525.	5.0	38
13	Fracture mineralization and fluid flow evolution: an example from Ordovician–Devonian carbonates, southwestern Ontario, Canada. <i>Geofluids</i> , 2013, 13, 1-20.	0.7	34
14	Hydrocarbon potential and reservoir characteristics of Lower Cretaceous Garbutt Formation, Liard Basin Canada. <i>Fuel</i> , 2017, 209, 274-289.	6.4	34
15	Petrologic and geochemical attributes of fracture-related dolomitization in Ordovician carbonates and their spatial distribution in southwestern Ontario, Canada. <i>Marine and Petroleum Geology</i> , 2013, 43, 409-422.	3.3	32
16	Alteration of organic matter by ion milling. <i>International Journal of Coal Geology</i> , 2016, 163, 123-131.	5.0	31
17	The Upper Ordovician black shales of southern Quebec (Canada) and their significance for naturally occurring hydrocarbons in shallow groundwater. <i>International Journal of Coal Geology</i> , 2016, 158, 44-64.	5.0	30
18	Geochemical and petrographic characterization of the Upper Ordovician Utica Shale, southern Quebec, Canada. <i>International Journal of Coal Geology</i> , 2015, 138, 83-94.	5.0	29

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19	The Vanishing of Urmia Lake: A Geolimnological Perspective on the Hydrological Imbalance of the World's Second Largest Hypersaline Lake. <i>Handbook of Environmental Chemistry</i> , 2018, , 41-78.	0.4	27
20	Field evidence for coal combustion links the 252 Ma Siberian Traps with global carbon disruption. <i>Geology</i> , 2020, 48, 986-991.	4.4	25
21	Hydrocarbon Recovery from Williston Basin Shale and Mudrock Cores with Supercritical CO ₂ : Part 1. Method Validation and Recoveries from Cores Collected across the Basin. <i>Energy & Fuels</i> , 2019, 33, 6857-6866.	5.1	24
22	A dual-porosity model for evaluating petroleum resource potential in unconventional tight-shale plays with application to Utica Shale, Quebec (Canada). <i>Marine and Petroleum Geology</i> , 2017, 80, 333-348.	3.3	23
23	Effects of organic and mineral matter on reservoir quality in a Middle Triassic mudstone in the Canadian Arctic. <i>International Journal of Coal Geology</i> , 2016, 153, 112-126.	5.0	21
24	The effect of bacterial degradation on bituminite reflectance. <i>International Journal of Coal Geology</i> , 2016, 162, 34-38.	5.0	20
25	Molybdenum speciation tracking hydrocarbon migration in fine-grained sedimentary rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 283, 136-148.	3.9	18
26	Influence of refractory organic matter on source rock hydrocarbon potential: A case study from the Second White Specks and Belle Fourche formations, Alberta, Canada. <i>Marine and Petroleum Geology</i> , 2017, 85, 220-232.	3.3	16
27	Organic petrology and geochemistry of Tournaisian-age Albert Formation oil shales, New Brunswick, Canada. <i>International Journal of Coal Geology</i> , 2019, 205, 43-57.	5.0	16
28	Depositional environment and hydrocarbon potential of the Middle Triassic strata of the Sverdrup Basin, Canada. <i>International Journal of Coal Geology</i> , 2015, 147-148, 71-84.	5.0	15
29	Effects of Entrained Hydrocarbon and Organic-Matter Components on Reservoir Quality of Organic-Rich Shales: Implications for "Sweet Spot" Identification and Enhanced-Oil-Recovery Applications in the Duvernay Formation (Canada). <i>SPE Journal</i> , 2020, 25, 1351-1376.	3.1	14
30	Diagenetic evolution and associated mineralization in Middle Devonian carbonates, southwestern Ontario, Canada. <i>Bulletin of Canadian Petroleum Geology</i> , 2013, 61, 41-58.	0.3	13
31	Core versus cuttings samples for geochemical and petrophysical analysis of unconventional reservoir rocks. <i>Scientific Reports</i> , 2020, 10, 7920.	3.3	13
32	Reconstructing high fidelity digital rock images using deep convolutional neural networks. <i>Scientific Reports</i> , 2022, 12, 4264.	3.3	13
33	Origin of sulfate-rich fluids in the Early Triassic Montney Formation, Western Canadian Sedimentary Basin. <i>Marine and Petroleum Geology</i> , 2020, 114, 104236.	3.3	12
34	Application of paleoporosity and bitumen saturation concepts to tight-gas accumulations containing solid bitumen. <i>International Journal of Coal Geology</i> , 2020, 228, 103547.	5.0	12
35	Petrophysical and Geomechanical Characteristics of Canadian Tight Oil and Liquid-Rich Gas Reservoirs. , 2014, , .		11
36	Simple petrographic grain size analysis of siltstone reservoir rocks: An example from the Montney tight gas reservoir (Western Canada). <i>Fuel</i> , 2016, 166, 253-257.	6.4	10

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37	The Influence of Organics on Supercritical CO ₂ Migration in Organic-Rich Shales. , 2018, , .		10
38	Integrating mud gas and cuttings analyses to understand local CGR variation in the Montney tight gas reservoir. International Journal of Coal Geology, 2018, 197, 42-52.	5.0	10
39	Organic petrography and geochemical characterization of the Upper Cretaceous Second White Specks and Upper Belle Fourche alloformations, west-central Alberta: Analysis of local maturity anomalies. International Journal of Coal Geology, 2019, 203, 60-73.	5.0	10
40	Influence of late-Holocene climate change on the solid-phase speciation and long-term stability of arsenic in sub-Arctic lake sediments. Science of the Total Environment, 2020, 709, 136115.	8.0	10
41	A novel method to estimate mineral compositions of mudrocks: A case study for the Canadian unconventional petroleum systems. Marine and Petroleum Geology, 2016, 73, 322-332.	3.3	9
42	Correlation of zooclast reflectance with Rock-Eval Tmax values within Upper Ordovician Cape Phillips Formation, a potential petroleum source rock from the Canadian Arctic Islands. Fuel, 2018, 227, 165-176.	6.4	9
43	Late Paleocene-middle Eocene hydrocarbon source rock potential in the Arctic Beaufort-Mackenzie Basin. Marine and Petroleum Geology, 2017, 86, 1082-1091.	3.3	8
44	Microbial and thermochemical controlled sulfur cycle in the Early Triassic sediments of the Western Canadian Sedimentary Basin. Journal of the Geological Society, 2021, 178, jgs2020-175.	2.1	8
45	Alternative indicators to assess the distribution characteristics of methane, ethane, and propane derived from petroleum in the Montney Formation, Western Canada. Fuel, 2021, 294, 120524.	6.4	7
46	CO ₂ -Enhanced Oil Recovery Mechanism in Canadian Bakken Shale. Minerals (Basel, Switzerland), 2022, 12, 779.	2.0	7
47	Insight into visible light spectrum changes with increasing reflectance in bituminite and inertinite macerals. Fuel, 2017, 197, 201-208.	6.4	6
48	Dolomite fluorescence Red/Green quotient: A potential new thermal maturity indicator. International Journal of Coal Geology, 2015, 137, 165-171.	5.0	5
49	Geochemical evidence for the internal migration of gas condensate in a major unconventional tight petroleum system. Scientific Reports, 2022, 12, 7931.	3.3	5
50	Mediation of arsenic mobility by organic matter in mining-impacted sediment from sub-Arctic lakes: implications for environmental monitoring in a warming climate. Environmental Earth Sciences, 2022, 81, 137.	2.7	4
51	The Garbutt Formation of Liard Basin, British Columbia: a potential liquids-rich play. Bulletin of Canadian Petroleum Geology, 2017, 65, 279-306.	0.3	3
52	Impact of Entrained Hydrocarbon and Organic Matter Components on Reservoir Quality of Organic-Rich Shales: Implications for Sweet Spot Identification in the Duvernay Formation Canada. , 2018, , .		3
53	Movement of native fluids during scanning electron microscopy imaging of petroliferous siltstones: Evidence from the Montney Formation, western Canada. Fuel, 2021, 290, 120020.	6.4	3
54	Canadian Arctic Oil Shale Resources: A Re-assessment of Potential Ordovician to Carboniferous Oil Shale Deposits. , 2015, , .		2

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55	High-temperature alteration and porosity generation in Upper Ordovician microbial reefs, Hudson Bay intracratonic Basin, Arctic Canada. <i>Sedimentary Geology</i> , 2018, 374, 1-16.	2.1	2
56	Effect of sediment source on source rock hydrocarbon potential; An example from the Kimmeridgian and Tithonian-aged source rocks of the central ridge, off-shore Newfoundland, Canada. <i>Marine and Petroleum Geology</i> , 2021, 127, 104965.	3.3	2
57	Quantitative analysis of statistical properties of organic-rich mudstone using large field-of-view SEM images. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104238.	4.4	2
58	Geochemistry of dolomite fluorescence in response to thermal maturity: An example from Upper Ordovician Utica Shale of southern Québec, Canada. <i>International Journal of Coal Geology</i> , 2020, 231, 103593.	5.0	1
59	Clumped isotope geothermometry of an Ordovician carbonate mound, Hudson Bay Basin. <i>Journal of the Geological Society</i> , 2021, 178, .	2.1	1
60	Multiple Controls on the Accumulation of Organic-Rich Sediments in the Besa River Formation of Liard Basin, British Columbia, Canada. <i>Geofluids</i> , 2021, 2021, 1-18.	0.7	1
61	Geochemistry of the Cretaceous Chinkeh oil from Maxhamish field and Garbutt black shale in the Liard Basin, Canada: Implications for a liquid-rich shale hydrocarbon resource. <i>International Journal of Coal Geology</i> , 2021, 238, 103716.	5.0	1
62	Estimation of original TOC using molybdenum bulk concentration: A case study of the Devonian Muskwa shale in the western Canada sedimentary basin. <i>Marine and Petroleum Geology</i> , 2021, 128, 104991.	3.3	1
63	Compositional Controls on Micro-Scale Fluid Distribution in Tight Rocks: Examples from the Montney Formation (Canada). , 2019, , .		1
64	Molecular and stable carbon isotope geochemistry of mud-gas-derived hydrocarbons and its application for the assessment of low-permeability reservoirs from the Montney Formation, Western Canada. <i>Organic Geochemistry</i> , 2022, 163, 104328.	1.8	1
65	Pore Characterization of Organic-Rich Shales through Application of Topological Data Analysis and Persistent Homology. <i>Energy & Fuels</i> , 2021, 35, 18563-18573.	5.1	1
66	Evidence of Hydrocarbon Generation and Overpressure Development in an Unconventional Reservoir Using Fluid Inclusion and Stable Isotope Analysis From the Early Triassic, Western Canadian Sedimentary Basin. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	1
67	LATEST DEVONIAN DEMISE OF CARBONATE FACTORIES CAUSED BY BASIN-TO-SHELF ANOXIA IN WESTERN LAURENTIA. , 2016, , .		0
68	NATURAL HYDROCARBON MIGRATION PATHWAYS INFERRED FROM INTEGRATED CASE STUDIES IN TWO UNCONVENTIONAL HYDROCARBON PLAYS IN EASTERN CANADA: ESTABLISHING BASE LINES FOR THE FUTURE. , 2016, , .		0
69	DETERMINING MOLYBDENUM SPECIATION TO UNDERSTAND THE DEPOSITIONAL HISTORY OF BLACK SHALES. , 2017, , .		0
70	MERCURY AS A PROXY FOR VOLCANIC EMISSIONS IN THE GEOLOGIC RECORD. , 2019, , .		0
71	Yukon's Carlin-Type Gold Deposits (Rackla Belt, Canada): Main Characteristics and New Insights on Alteration Styles and Geochemistry. <i>Economic Geology</i> , 0, , .	3.8	0
72	Fluid flow and water/rock interaction during the Early Triassic evolution of the western Canada sedimentary basin as revealed by carbonate diagenesis. <i>Marine and Petroleum Geology</i> , 2022, 142, 105765.	3.3	0