

Alexei V Milkov

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68 papers	4,667 citations	33 h-index	68 g-index
68 ext. papers	5,218 ext. citations	4.2 avg, IF	6.22 L-index

#	Paper	IF	Citations
68	Global estimates of hydrate-bound gas in marine sediments: how much is really out there?. <i>Earth-Science Reviews</i> , 2004 , 66, 183-197	10.2	713
67	Worldwide distribution of submarine mud volcanoes and associated gas hydrates. <i>Marine Geology</i> , 2000 , 167, 29-42	3.3	510
66	Three-dimensional distribution of gas hydrate beneath southern Hydrate Ridge: constraints from ODP Leg 204. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 845-862	5.3	235
65	Molecular and stable isotope compositions of natural gas hydrates: A revised global dataset and basic interpretations in the context of geological settings. <i>Organic Geochemistry</i> , 2005 , 36, 681-702	3.1	191
64	Revised genetic diagrams for natural gases based on a global dataset of >20,000 samples. <i>Organic Geochemistry</i> , 2018 , 125, 109-120	3.1	186
63	Free hydrocarbon gas, gas hydrate, and authigenic minerals in chemosynthetic communities of the northern Gulf of Mexico continental slope: relation to microbial processes. <i>Chemical Geology</i> , 2004 , 205, 195-217	4.2	184
62	Thermogenic gas hydrates and hydrocarbon gases in complex chemosynthetic communities, Gulf of Mexico continental slope. <i>Organic Geochemistry</i> , 1999 , 30, 485-497	3.1	181
61	Worldwide distribution and significance of secondary microbial methane formed during petroleum biodegradation in conventional reservoirs. <i>Organic Geochemistry</i> , 2011 , 42, 184-207	3.1	151
60	Economic geology of offshore gas hydrate accumulations and provinces. <i>Marine and Petroleum Geology</i> , 2002 , 19, 1-11	4.7	151
59	Co-existence of gas hydrate, free gas, and brine within the regional gas hydrate stability zone at Hydrate Ridge (Oregon margin): evidence from prolonged degassing of a pressurized core. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 829-843	5.3	146
58	A new estimate of global methane flux from onshore and shallow submarine mud volcanoes to the atmosphere. <i>Environmental Geology</i> , 2004 , 46, 997-1002		137
57	Global gas flux from mud volcanoes: A significant source of fossil methane in the atmosphere and the ocean. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	132
56	Estimate of gas hydrate resource, northwestern Gulf of Mexico continental slope. <i>Marine Geology</i> , 2001 , 179, 71-83	3.3	121
55	Massive vein-filling gas hydrate: relation to ongoing gas migration from the deep subsurface in the Gulf of Mexico. <i>Marine and Petroleum Geology</i> , 2001 , 18, 551-560	4.7	116
54	In situ methane concentrations at Hydrate Ridge, offshore Oregon: New constraints on the global gas hydrate inventory from an active margin. <i>Geology</i> , 2003 , 31, 833-836	5	110
53	Gas hydrate accumulation at the Håkon Mosby Mud Volcano. <i>Geo-Marine Letters</i> , 1999 , 19, 57-67	1.9	99
52	Evidence of subsurface anaerobic biodegradation of hydrocarbons and potential secondary methanogenesis in terrestrial mud volcanoes. <i>Marine and Petroleum Geology</i> , 2009 , 26, 1692-1703	4.7	87

51	Gas hydrate systems at Hydrate Ridge offshore Oregon inferred from molecular and isotopic properties of hydrate-bound and void gases. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 1007-1026	5.5	85
50	Thermogenic vent gas and gas hydrate in the Gulf of Mexico slope: Is gas hydrate decomposition significant?. <i>Geology</i> , 2001 , 29, 107	5	80
49	Thickness of the gas hydrate stability zone, Gulf of Mexico continental slope. <i>Marine and Petroleum Geology</i> , 2000 , 17, 981-991	4.7	78
48	Preliminary assessment of resources and economic potential of individual gas hydrate accumulations in the Gulf of Mexico continental slope. <i>Marine and Petroleum Geology</i> , 2003 , 20, 111-128	4.7	70
47	Geological, geochemical, and microbial processes at the hydrate-bearing Høkon Mosby mud volcano: a review. <i>Chemical Geology</i> , 2004 , 205, 347-366	4.2	65
46	Methane emission from mud volcanoes in eastern Azerbaijan. <i>Geology</i> , 2004 , 32, 465	5	62
45	Gas venting and subsurface charge in the Green Canyon area, Gulf of Mexico continental slope: evidence of a deep bacterial methane source?. <i>Organic Geochemistry</i> , 2003 , 34, 1455-1464	3.1	53
44	Geochemical evidence of secondary microbial methane from very slight biodegradation of undersaturated oils in a deep hot reservoir. <i>Geology</i> , 2007 , 35, 455	5	52
43	Methanogenic biodegradation of petroleum in the West Siberian Basin (Russia): Significance for formation of giant Cenomanian gas pools. <i>AAPG Bulletin</i> , 2010 , 94, 1485-1541	2.5	49
42	Non-cracked oil in ultra-deep high-temperature reservoirs in the Tarim basin, China. <i>Marine and Petroleum Geology</i> , 2018 , 89, 252-262	4.7	40
41	Did geologic emissions of methane play any role in Quaternary climate change?. <i>Global and Planetary Change</i> , 2008 , 61, 79-88	4.2	40
40	Mud volcanoes discovered offshore Sicily. <i>Marine Geology</i> , 2003 , 199, 1-6	3.3	40
39	Two-dimensional modeling of gas hydrate decomposition in the northwestern Gulf of Mexico: significance to global change assessment. <i>Global and Planetary Change</i> , 2003 , 36, 31-46	4.2	38
38	Ethane enrichment and propane depletion in subsurface gases indicate gas hydrate occurrence in marine sediments at southern Hydrate Ridge offshore Oregon. <i>Organic Geochemistry</i> , 2004 , 35, 1067-1080	3.1	37
37	Geochemistry of shale gases from around the world: Composition, origins, isotope reversals and rollovers, and implications for the exploration of shale plays. <i>Organic Geochemistry</i> , 2020 , 143, 103997	3.1	35
36	Sea-floor terrains of Høkon Mosby Mud Volcano as surveyed by deep-tow video and still photography. <i>Geo-Marine Letters</i> , 1999 , 19, 38-47	1.9	35
35	Compartmentalization and time-lapse geochemical reservoir surveillance of the Horn Mountain oil field, deep-water Gulf of Mexico. <i>AAPG Bulletin</i> , 2007 , 91, 847-876	2.5	33
34	Geochemical evidence of rapid hydrocarbon venting from a seafloor-piercing mud diapir, Gulf of Mexico continental shelf. <i>Marine Geology</i> , 2003 , 198, 319-329	3.3	31

33	Exclusion of 2-methylbutane (isopentane) during crystallization of structure II gas hydrate in sea-floor sediment, Gulf of Mexico. <i>Organic Geochemistry</i> , 2000 , 31, 1257-1262	3.1	31
32	Gas hydrate and crude oil from the Mississippi Fan Foldbelt, downdip Gulf of Mexico Salt Basin: significance to petroleum system. <i>Organic Geochemistry</i> , 2001 , 32, 999-1008	3.1	27
31	Risk tables for less biased and more consistent estimation of probability of geological success (PoS) for segments with conventional oil and gas prospective resources. <i>Earth-Science Reviews</i> , 2015 , 150, 453-476	10.2	26
30	Formation and preservation of a giant petroleum accumulation in superdeep carbonate reservoirs in the southern Halahatang oil field area, Tarim Basin, China. <i>AAPG Bulletin</i> , 2019 , 103, 1703-1743	2.5	22
29	Diamondoids as tracers of late gas charge in oil reservoirs: Example from the Tazhong area, Tarim Basin, China. <i>Fuel</i> , 2019 , 253, 998-1017	7.1	17
28	Stability of Thermogenic Gas Hydrate in the Gulf of Mexico: Constraints on Models of Climate Change. <i>Geophysical Monograph Series</i> , 2013 , 131-143	1.1	17
27	Using global isotopic data to constrain the role of shale gas production in recent increases in atmospheric methane. <i>Scientific Reports</i> , 2020 , 10, 4199	4.9	16
26	Global Distribution of Mud Volcanoes and Their Significance in Petroleum Exploration as a Source of Methane in the Atmosphere and Hydrosphere and as a Geohazard 2005 , 29-34		16
25	Global methane emission through mud volcanoes and its past and present impact on the Earth's climate – comment. <i>International Journal of Earth Sciences</i> , 2005 , 94, 490-492	2.2	16
24	Deepest oil in Asia: Characteristics of petroleum system in the Tarim basin, China. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 199, 108246	4.4	16
23	Web-based machine learning tool that determines the origin of natural gases. <i>Computers and Geosciences</i> , 2020 , 145, 104595	4.5	13
22	Integrate instead of ignoring: Base rate neglect as a common fallacy of petroleum explorers. <i>AAPG Bulletin</i> , 2017 , 101, 1905-1916	2.5	9
21	Geochemistry of Petroleum Gases and Liquids from the Inhassoro, Pande and Temane Fields Onshore Mozambique. <i>Geosciences (Switzerland)</i> , 2017 , 7, 33	2.7	8
20	Comment on “Gas hydrate growth, methane transport, and chloride enrichment at the southern summit of Hydrate Ridge, Cascadia margin off Oregon” by Torres et al. [Earth Planet. Sci. Lett. 226 (2004) 225–241]. <i>Earth and Planetary Science Letters</i> , 2005 , 239, 162-167	5.3	8
19	Secondary Microbial Gas 2018 , 1-10		7
18	Turning dry holes from disasters to exploration wisdom: Decision tree to determine the key failure mode for segments in conventional petroleum prospects. <i>AAPG Bulletin</i> , 2020 , 104, 449-475	2.5	7
17	Thickness matters: Influence of dolerite sills on the thermal maturity of surrounding rocks in a coal bed methane play in Botswana. <i>Marine and Petroleum Geology</i> , 2020 , 111, 219-229	4.7	7
16	Comprehensive Molecular Compositions and Origins of DB301 Crude Oil from Deep Strata, Tarim Basin, China. <i>Energy & Fuels</i> , 2020 , 34, 6799-6810	4.1	6

15	New approaches to distinguish shale-sourced and coal-sourced gases in petroleum systems. <i>Organic Geochemistry</i> , 2021 , 158, 104271	3.1	4
14	Reporting the expected exploration outcome: When, why and how the probability of geological success and success-case volumes for the well differ from those for the prospect. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 204, 108754	4.4	4
13	Sea Floor Vents, Seeps, and Gas Hydrate: Relation to Flux Rate from the Deep Gulf of Mexico Petroleum System 2001 , 489-506		3
12	FORECASTING ABILITIES OF INDIVIDUAL PETROLEUM EXPLORERS: PRELIMINARY FINDINGS FROM CROWDSOURCED PROSPECT ASSESSMENTS. <i>Journal of Petroleum Geology</i> , 2020 , 43, 383-400	1.9	3
11	Breathing new life into postmortem analysis: Identification of key failure modes for conventional petroleum segments offshore New Zealand. <i>Marine and Petroleum Geology</i> , 2020 , 122, 104618	4.7	3
10	Gas Venting and Gas Hydrate Stability in the Northwestern Gulf of Mexico Slope: Significance to Sediment Deformation 2002 ,		2
9	Origin of Shale Gases from Around the World: Implications for Exploration 2019 ,		2
8	Secondary Microbial Gas 2020 , 613-622		1
7	Petroleum exploration portfolios generated with different optimization approaches: Lessons for decision-makers. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 110459	4.4	1
6	Pre-drill Assessments and Drilling Outcomes in Mexico in 2018–2022 and Historical Experience from Norway and the Netherlands: Lessons Learned and Recommendations for Future Petroleum Exploration. <i>Natural Resources Research</i> ,	4.9	1
5	Molecular hydrogen in surface and subsurface natural gases: Abundance, origins and ideas for deliberate exploration. <i>Earth-Science Reviews</i> , 2022 , 230, 104063	10.2	1
4	Co-existence of gas hydrate, free gas, and brine within the regional gas hydrate stability zone at Hydrate Ridge (Oregon margin): evidence from prolonged degassing of a pressurized core. <i>Earth and Planetary Science Letters</i> , 2004 , 222, 829-829	5.3	0
3	Machine Learning Can Assign Geologic Basin to Produced Water Samples Using Major Ion Geochemistry. <i>Natural Resources Research</i> ,1	4.9	0
2	Assessing the sealing quality of submarine mass transport complexes and deposits. <i>Marine and Petroleum Geology</i> , 2022 , 105748	4.7	0
1	Reply to the comment by Iyer and Schmid on “Thickness matters: Influence of dolerite sills on the thermal maturity of surrounding rocks in a coal bed methane play in Botswana” by Bulguroglu, M.E., Milkov, A.V., <i>Marine and Petroleum Geology</i> 111 (2020), 219-229. <i>Marine and Petroleum Geology</i> , 2020 , 115, 104300	4.7	