Ray Boswell

List of Publications by Citations

83 papers	4,741 citations	35 h-index	68 g-index
93 ext. papers	5,564 ext. citations	5.1 avg, IF	5.93 L-index

#	Paper	IF	Citations
83	Current perspectives on gas hydrate resources. *Energy and Environmental Science*, **2011**, 4, 1206-1215	35.4	820
82	Engineering. Is gas hydrate energy within reach?. *Science*, **2009**, 325, 957-8	33.3	285
81	Toward Production From Gas Hydrates: Current Status, Assessment of Resources, and Simulation-Based Evaluation of Technology and Potential. *SPE Reservoir Evaluation and Engineering*, **2009**, 12, 745-771	2.3	263
80	Subsurface gas hydrates in the northern Gulf of Mexico. *Marine and Petroleum Geology*, **2012**, 34, 4-30	4.7	210
79	Challenges, Uncertainties, and Issues Facing Gas Production From Gas-Hydrate Deposits. *SPE Reservoir Evaluation and Engineering*, **2011**, 14, 76-112	2.3	195
78	The Iġnik Sikumi Field Experiment, Alaska North Slope: Design, Operations, and Implications for CO2□CH4 Exchange in Gas Hydrate Reservoirs. *Energy & Fuels*, **2017**, 31, 140-153	4.1	164
77	Methane Hydrates in Nature□Current Knowledge and Challenges. *Journal of Chemical & Engineering Data*, **2015**, 60, 319-329	2.8	158
76	Regional long-term production modeling from a single well test, Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope. *Marine and Petroleum Geology*, **2011**, 28, 493-501	4.7	143
75	Permafrost-associated natural gas hydrate occurrences on the Alaska North Slope. *Marine and Petroleum Geology*, **2011**, 28, 279-294	4.7	138
74	Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope: Overview of scientific and technical program. *Marine and Petroleum Geology*, **2011**, 28, 295-310	4.7	136
73	Geologic implications of gas hydrates in the offshore of India: Results of the National Gas Hydrate Program Expedition 01. *Marine and Petroleum Geology*, **2014**, 58, 3-28	4.7	121
72	Review of progress in evaluating gas hydrate drilling hazards. *Marine and Petroleum Geology*, **2012**, 34, 209-223	4.7	114
71	Scientific results from Gulf of Mexico Gas Hydrates Joint Industry Project Leg 1 drilling: Introduction and overview. *Marine and Petroleum Geology*, **2008**, 25, 819-829	4.7	98
70	India National Gas Hydrate Program Expedition 02 Summary of Scientific Results: Gas hydrate systems along the eastern continental margin of India. *Marine and Petroleum Geology*, **2019**, 108, 39-142	4.7	95
69	Preliminary report on the commercial viability of gas production from natural gas hydrates. *Energy Economics*, **2009**, 31, 815-823	8.3	86
68	Occurrence and nature of □Bottom simulating reflectors□ in the northern Gulf of Mexico. *Marine and Petroleum Geology*, **2012**, 34, 31-40	4.7	84
67	Geologic implications of gas hydrates in the offshore of India: Krishna□Godavari Basin, Mahanadi Basin, Andaman Sea, Kerala□Konkan Basin. *Marine and Petroleum Geology*, **2014**, 58, 29-98	4.7	82

66	Physical properties of sediment from the Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope. *Marine and Petroleum Geology*, **2011**, 28, 361-380	4.7	76
65	Occurrence of gas hydrate in Oligocene Frio sand: Alaminos Canyon Block 818: Northern Gulf of Mexico. *Marine and Petroleum Geology*, **2009**, 26, 1499-1512	4.7	75
64	Architecture of gas-hydrate-bearing sands from Walker Ridge 313, Green Canyon 955, and Alaminos Canyon 21: Northern deepwater Gulf of Mexico. *Marine and Petroleum Geology*, **2012**, 34, 134-149	4.7	69
63	Prospecting for marine gas hydrate resources. *Interpretation*, **2016**, 4, SA13-SA24	1.4	61
62	Resource potential of methane hydrate coming into focus. *Journal of Petroleum Science and Engineering*, **2007**, 56, 9-13	4.4	60
61	Geologic controls on gas hydrate occurrence in the Mount Elbert prospect, Alaska North Slope. *Marine and Petroleum Geology*, **2011**, 28, 589-607	4.7	56
60	Gas hydrate resource potential in the Terrebonne Basin, Northern Gulf of Mexico. *Marine and Petroleum Geology*, **2012**, 34, 150-168	4.7	55
59	Examination of core samples from the Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope: Effects of retrieval and preservation. *Marine and Petroleum Geology*, **2011**, 28, 381-393	4.7	54
58	Evaluation of the performance of the oceanic hydrate accumulation at site NGHP-02-09 in the Krishna-Godavari Basin during a production test and during single and multi-well production scenarios. *Marine and Petroleum Geology*, **2019**, 108, 660-696	4.7	53
57	Formation pressure testing at the Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope: Operational summary, history matching, and interpretations. *Marine and Petroleum Geology*, **2011**, 28, 478-492	4.7	52
56	Numerical simulations of depressurization-induced gas production from an interbedded turbidite gas hydrate-bearing sedimentary section in the offshore India: Site NGHP-02-16 (Area-B). *Marine and Petroleum Geology*, **2019**, 108, 619-638	4.7	51
55	India National Gas Hydrate Program Expedition 02 summary of scientific results: Numerical simulation of reservoir response to depressurization. *Marine and Petroleum Geology*, **2019**, 108, 154-166	4.7	46
54	X-ray computed-tomography imaging of gas migration in water-saturated sediments: From capillary invasion to conduit opening. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	44
53	Numerical simulations of depressurization-induced gas production from gas hydrates using 3-D heterogeneous models of L-Pad, Prudhoe Bay Unit, North Slope Alaska. *Journal of Natural Gas Science and Engineering*, **2016**, 35, 1336-1352	4.6	42
52	India National Gas Hydrate Program Expedition 02 summary of scientific results: Evaluation of natural gas-hydrate-bearing pressure cores. *Marine and Petroleum Geology*, **2019**, 108, 143-153	4.7	41
51	Mount Elbert Gas Hydrate Stratigraphic Test Well, Alaska North Slope: Coring operations, core sedimentology, and lithostratigraphy. *Marine and Petroleum Geology*, **2011**, 28, 311-331	4.7	40
50	An international code comparison study on coupled thermal, hydrologic and geomechanical processes of natural gas hydrate-bearing sediments. *Marine and Petroleum Geology*, **2020**, 120, 104566	4.7	39
49	Natural Gas Hydrates Energy Resource Potential and Associated Geologic Hazards **2009**,		39

48	High-resolution seismic characterization of the gas and gas hydrate system at Green Canyon 955, Gulf of Mexico, USA. *Marine and Petroleum Geology*, **2017**, 82, 220-237	4.7	35
47	Toward Production From Gas Hydrates: Assessment of Resources, Technology and Potential **2008**,		35
46	Numerical simulations of sand migration during gas production in hydrate-bearing sands interbedded with thin mud layers at site NGHP-02-16. *Marine and Petroleum Geology*, **2019**, 108, 639-647	4.7	35
45	Simulations of Variable Bottomhole Pressure Regimes to Improve Production from the Double-Unit Mount Elbert, Milne Point Unit, North Slope Alaska Hydrate Deposit. *Energy & Fuels*, **2011**, 25, 1077-1091	4.7	33
44	Alaska North Slope regional gas hydrate production modeling forecasts. *Marine and Petroleum Geology*, **2011**, 28, 460-477	4.7	31
43	An Investigation of Hydrate Formation in Unsaturated Sediments Using X-Ray Computed Tomography. *Journal of Geophysical Research: Solid Earth*, **2019**, 124, 3335-3349	3.6	29
42	National Gas Hydrate Program expedition 02: Identification of gas hydrate prospects in the Krishna-Godavari Basin, offshore India. *Marine and Petroleum Geology*, **2019**, 108, 167-184	4.7	27
41	Assessing the geomechanical stability of interbedded hydrate-bearing sediments under gas production by depressurization at NGHP-02 Site 16. *Marine and Petroleum Geology*, **2019**, 108, 648-659	4.7	27
40	Gulf of Mexico Gas Hydrate Joint Industry Project Leg II: Logging-While-Drilling Operations and Challenges **2010**,		27
39	Key aspects of numerical analysis of gas hydrate reservoir performance: Alaska North Slope Prudhoe Bay Unit [illegible]-Pad[illegible]hydrate accumulation. *Journal of Natural Gas Science and Engineering*, **2018**, 51, 37-43	4.6	26
38	Evaluation of Long-Term Gas-Hydrate-Production Testing Locations on the Alaska North Slope. *SPE Reservoir Evaluation and Engineering*, **2012**, 15, 243-264	2.3	25
37	Natural Gas Hydrates **2020**, 111-131		19
36	Methane Hydrates **2014**, 159-178		18
35	Gas Hydrates as a Potential Energy Source: State of Knowledge and Challenges **2013**, 977-1033		16
34	Multiple physical properties of gas hydrate-bearing sediments recovered from Alaska North Slope 2018 Hydrate-01 Stratigraphic Test Well. *Marine and Petroleum Geology*, **2021**, 123, 104748	4.7	14
33	Gulf of Mexico Gas Hydrate Joint Industry Project Leg II: Initial Results from the Green Canyon 955 Site **2010**,		11
32	Scientific Objectives of the Gulf of Mexico Gas Hydrate JIP Leg II Drilling **2008**,		11
31	Pressure coring a Gulf of Mexico deep-water turbidite gas hydrate reservoir: Initial results from The University of Texas[illegible]Gulf of Mexico 2-1 (UT-GOM2-1) Hydrate Pressure Coring Expedition. *AAPG Bulletin*, **2020**, 104, 1847-1876	2.5	10

30	Gulf of Mexico Gas Hydrate Joint Industry Project Leg II: Results From the Alaminos Canyon 21 Site **2010**,		9
29	Challenges, Uncertainties and Issues Facing Gas Production from Hydrate Deposits in Geologic Systems **2010**,		9
28	Numerical Simulations of Depressurization-Induced Gas Hydrate Reservoir (B1 Sand) Response at the Prudhoe Bay Unit Kuparuk 7-11-12 Pad on the Alaska North Slope. *Energy & Fuels*, **2022**, 36, 2542-2560	4.1	9
27	Review of Past Gas Production Attempts from Subsurface Gas Hydrate Deposits and Necessity of Long-Term Production Testing. *Energy & Fuels*,	4.1	9
26	Development of Deepwater Natural Gas Hydrates **2019**,		8
25	Evaluation of Long-Term Gas Hydrate Production Testing Locations on the Alaska North Slope **2011** ,		7
24	Special Session - Gas Hydrates: Gulf of Mexico Gas Hydrates Joint Industry Project: Overview of Leg II LWD Results **2010**,		7
23	Planning and Operations of the Hydrate 01 Stratigraphic Test Well, Prudhoe Bay Unit, Alaska North Slope. *Energy & Fuels*, **2022**, 36, 3016-3039	4.1	7
22	Tropidocaris salsiusculus, a new rhinocaridid (Crustacea: Phyllocarida) from the Upper Devonian Hampshire Formation of West Virginia. *Journal of Paleontology*, **1986**, 60, 379-383	1.1	6
21	Permeability Measurement and Prediction with Nuclear Magnetic Resonance Analysis of Gas Hydrate-Bearing Sediments Recovered from Alaska North Slope 2018 Hydrate-01 Stratigraphic Test Well. *Energy & Fuels*, **2022**, 36, 2515-2529	4.1	6
20	New Insights into the Occurrence and Implications of Mobile Water in Gas Hydrate Systems. *Energy & Fuels*, **2022**, 36, 2447-2461	4.1	6
19	Preliminary Evaluation of the Production Potential of Recently Discovered Hydrate Deposits in the Gulf of Mexico **2010**,		5
18	Stratigraphic expression of basement fault zones in northern West Virginia. *Bulletin of the Geological Society of America*, **1988**, 100, 1988-1998	3.9	5
17	Initial Results of Gulf of Mexico Gas Hydrate Joint Industry Project Leg II Logging-While-Drilling Operations **2009**, 31-60		5
16	Scientific Results of the Hydrate-01 Stratigraphic Test Well Program, Western Prudhoe Bay Unit, Alaska North Slope. *Energy & Fuels*,	4.1	5
15	Developments in Marine Gas Hydrate Exploration **2014**,		4
14	Gulf of Mexico Gas Hydrate Joint Industry Project Leg II: LWD Logging Program Design, Data Acquisition and Evaluation **2010**,		4
13	Gulf of Mexico Gas Hydrates Joint Industry Project Leg II: Results from the Walker Ridge 313 Site **2010**,		4

12	2. Motivations for the Geophysical Investigation of Gas Hydrates **2010**, 23-32		4
11	DAS 3DVSP survey at Stratigraphic Test Well (Hydrate-01) **2021**,		4
10	Gas Hydrate Saturation Estimates, Gas Hydrate Occurrence, and Reservoir Characteristics Based on Well Log Data from the Hydrate-01 Stratigraphic Test Well, Alaska North Slope. *Energy & Fuels*, **2022**, 36, 3040-3050	4.1	4
9	Gulf of Mexico Gas Hydrates Joint Industry Project Leg II: Results from the Walker Ridge 313 Site		3
8	Appalachian Basin Low-Permeability Sandstone Reservoir Characterizations		2
7	UT-GOM2-1 Hydrate Pressure Coring Expedition (Chapter 2. Expedition Methods) **2018**,		2
6	UT-GOM2-1 Hydrate Pressure Coring Expedition Summary (Chapter 1. Expedition Summary) **2018**,		2
5	Introduction to special section: Exploration and characterization of gas hydrates. *Interpretation*, **2016**, 4, SAi-SAii	1.4	2
4	The Research Path to Determining the Resource Potential of Marine Gas Hydrates **2008**,		1
3	Alaska North Slope Terrestrial Gas Hydrate Systems: Insights from Scientific Drilling **2022**, 195-206		1
2	Pore-scale observations of natural hydrate-bearing sediments via pressure core sub-coring and micro-CT scanning.. *Scientific Reports*, **2022**, 12, 3471	4.9	0
1	A Review of the Exploration, Discovery and Characterization of Highly Concentrated Gas Hydrate Accumulations in Coarse-Grained Reservoir Systems Along the Eastern Continental Margin of India **2022**, 139-154		