Martin Hovland

List of Publications by Year
in descending order

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90 papers	5,822 citations	94433 37 h-index	82547 72 g-index
94 all docs	94 docs citations	94 times ranked	3706 citing authors

#	Article	IF	Citations
1	Formation of natural gas hydrates in marine sediments: 1. Conceptual model of gas hydrate growth conditioned by host sediment properties. Journal of Geophysical Research, 1999, 104, 22985-23003.	3.3	548
2	The significance of pockmarks to understanding fluid flow processes and geohazards. Geofluids, 2002, 2, 127-136.	0.7	290
3	The geological methane budget at Continental Margins and its influence on climate change. Geofluids, 2002, 2, 109-126.	0.7	283
4	The evidence of shallow gas in marine sediments. Continental Shelf Research, 1992, 12, 1081-1095.	1.8	237
5	Deep water bioherms of the scleractinian coralLophelia pertusa(L.) at 64Â° n on the Norwegian shelf: Structure and associated megafauna. Sarsia, 1995, 80, 145-158.	0.5	231
6	Authigenic carbonate formation at hydrocarbon seeps in continental margin sediments: A comparative study. Deep-Sea Research Part II: Topical Studies in Oceanography, 2007, 54, 1268-1291.	1.4	229
7	Fault-associated seabed mounds (carbonate knolls?) off western Ireland and north-west Australia. Marine and Petroleum Geology, 1994, 11, 232-246.	3.3	188
8	Complex pockmarks with carbonate-ridges off mid-Norway: Products of sediment degassing. Marine Geology, 2005, 218, 191-206.	2.1	184
9	Mud and fluid migration in active mud volcanoes in Azerbaijan. Geo-Marine Letters, 2003, 23, 258-268.	1.1	183
10	On the self-sealing nature of marine seeps. Continental Shelf Research, 2002, 22, 2387-2394.	1.8	131
11	Submarine pingoes: Indicators of shallow gas hydrates in a pockmark at Nyegga, Norwegian Sea. Marine Geology, 2006, 228, 15-23.	2.1	126
12	The structure and geomorphology of the Dashgil mud volcano, Azerbaijan. Geomorphology, 1997, 21, 1-15.	2.6	122
13	Seabed pockmarks associated with deepwater corals off SE Brazilian continental slope, Santos Basin. Marine Geology, 2004, 207, 159-167.	2.1	114
14	Characteristics of two natural gas seepages in the North Sea. Marine and Petroleum Geology, 1985, 2, 319-326.	3.3	113
15	Unit-pockmarks and their potential significance for predicting fluid flow. Marine and Petroleum Geology, 2010, 27, 1190-1199.	3.3	111
16	Ahermatypic Coral Banks off Mid-Norway: Evidence for a Link with Seepage of Light Hydrocarbons. Palaios, 1998, 13, 189.	1.3	102
17	Do carbonate reefs form due to fluid seepage?. Terra Nova, 1990, 2, 8-18.	2.1	91
18	Cold-water coralsâ€"are they hydrocarbon seep related?. Marine Geology, 1997, 137, 159-164.	2.1	90

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19	Comparison and implications from strikingly different authigenic carbonates in a Nyegga complex pockmark, G11, Norwegian Sea. Marine Geology, 2006, 231, 89-102.	2.1	90
20	The morphologies and genesis of mega-pockmarks near the Xisha Uplift, South China Sea. Marine and Petroleum Geology, 2011, 28, 1146-1156.	3.3	89
21	Characteristics of pockmarks in the Norwegian Trench. Marine Geology, 1981, 39, 103-117.	2.1	86
22	Do Norwegian deep-water coral reefs rely on seeping fluids?. Marine Geology, 2003, 198, 83-96.	2.1	83
23	Characteristic features of pockmarks on the North Sea Floor and Scotian Shelf. Sedimentology, 1984, 31, 471-480.	3.1	80
24	A large methane plume east of Bear Island (Barents Sea): implications for the marine methane cycle. Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie, 1995, 84, 59.	1.3	74
25	Gas seepage and assumed mud diapirism in the Italian central Adriatic Sea. Marine and Petroleum Geology, 1989, 6, 161-169.	3.3	71
26	Intracellular Oceanospirillales bacteria inhabit gills of Acesta bivalves. FEMS Microbiology Ecology, 2010, 74, 523-533.	2.7	70
27	Environmental effects of submarine seeping natural gas. Continental Shelf Research, 1992, 12, 1197-1207.	1.8	59
28	The global production of methane from shallow submarine sources. Continental Shelf Research, 1992, 12, 1231-1238.	1.8	57
29	Salt formation associated with sub-surface boiling and supercritical water. Marine and Petroleum Geology, 2006, 23, 855-869.	3.3	55
30	Elongated depressions associated with pockmarks in the Western Slope of the Norwegian Trench. Marine Geology, 1983, 51, 35-46.	2.1	54
31	Hydrocarbon-based communities in the North Sea?. Sarsia, 1989, 74, 29-42.	0.5	52
32	Submarine slide scars and mass movements in Karmsundet and Skudenesfjorden, southwestern Norway: morphology and evolution. Marine Geology, 2000, 167, 147-165.	2.1	47
33	Sub-surface precipitation of salts in supercritical seawater. Basin Research, 2006, 18, 221-230.	2.7	44
34	Sources of methane inferred from pore-water Î´13C of dissolved inorganic carbon in Pockmark G11, offshore Mid-Norway. Chemical Geology, 2010, 275, 127-138.	3.3	44
35	Gas-induced erosion features in the North Sea. Earth Surface Processes and Landforms, 1984, 9, 209-228.	2.5	42
36	Methane and minor oil macro-seep systems â€" Their complexity and environmental significance. Marine Geology, 2012, 332-334, 163-173.	2.1	40

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37	Pockmarks and the Recent geology of the central section of the Norwegian Trench. Marine Geology, 1982, 47, 283-301.	2.1	39
38	Methane assimilation and trophic interactions with marine Methylomicrobium in deep-water coral reef sediment off the coast of Norway. FEMS Microbiology Ecology, 2008, 66, 320-330.	2.7	39
39	Large pockmarks, gas-charged sediments and possible clay diapirs in the Skagerrak. Marine and Petroleum Geology, 1991, 8, 311-316.	3.3	38
40	Gas and fluid injection triggering shallow mud mobilization in the Hordaland Group, North Sea. Geological Society Special Publication, 2003, 216, 139-157.	1.3	36
41	Insight into the microbial community structure of a Norwegian deep-water coral reef environment. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1554-1563.	1.4	36
42	Diversity of deep-water coral-associated bacteria and comparison across depth gradients. FEMS Microbiology Ecology, 2019, 95, .	2.7	36
43	Piercement shale diapirism in the deep-water Vema Dome area, VÃ¸ring basin, offshore Norway. Marine and Petroleum Geology, 1998, 15, 191-201.	3.3	35
44	North Sea Quaternary morphology from seismic and magnetic data: indications for gas hydrates during glaciation?. Petroleum Geoscience, 2005, 11, 331-337.	1.5	35
45	Seepage in Isfjorden and its tributary fjords, West Spitsbergen. Marine Geology, 2015, 363, 146-159.	2.1	34
46	Suspected gas-associated clay diapirism on the seabed off Mid Norway. Marine and Petroleum Geology, 1990, 7, 267-276.	3.3	32
47	Hydrocarbon Seeps in Northern Marine Waters: Their Occurrence and Effects. Palaios, 1992, 7, 376.	1.3	31
48	Mapping and imaging deep-sea coral reefs off Norway, 1982â€“2000. Hydrobiologia, 2002, 471, 13-17.	2.0	30
49	Discovery of prolific natural methane seeps at Gullfaks, northern North Sea. Geo-Marine Letters, 2007, 27, 197-201.	1.1	30
50	Evidence of fluid seepage in GrÃ¸nfjorden, Spitsbergen: Implications from an integrated acoustic study of seafloor morphology, marine sediments and tectonics. Marine Geology, 2016, 380, 67-78.	2.1	29
51	First documentation of seismic stratigraphy and depositional signatures of Zhongsha atoll (Macclesfield Bank), South China Sea. Marine and Petroleum Geology, 2020, 117, 104349.	3.3	28
52	Unit pockmarks associated with Lophelia coral reefs off mid-Norway: more evidence of control by â€˜fertilizingâ€™ bottom currents. Geo-Marine Letters, 2012, 32, 545-554.	1.1	26
53	Formation of linear planform chimneys controlled by preferential hydrocarbon leakage and anisotropic stresses in faulted fine-grained sediments, offshore Angola. Solid Earth, 2018, 9, 1437-1468.	2.8	26
54	Are There Commercial Deposits of Methane Hydrates in Ocean Sediments?. Energy Exploration and Exploitation, 2000, 18, 339-347.	2.3	21

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55	Geological controls on shallow gas distribution and seafloor seepage in an Arctic fjord of Spitsbergen, Norway. Marine and Petroleum Geology, 2019, 107, 237-254.	3.3	21
56	Pockmarks and gas-charged sediments in the eastern Skagerrak. Continental Shelf Research, 1992, 12, 1111-1119.	1.8	20
57	Deep-rooted piercement structures in deep sedimentary basins â€" Manifestations of supercritical water generation at depth?. Journal of Geochemical Exploration, 2006, 89, 157-160.	3.2	20
58	Origin of salt giants in abyssal serpentinite systems. International Journal of Earth Sciences, 2017, 106, 2595-2608.	1.8	20
59	High diversity of microplankton surrounds deep-water coral reef in the Norwegian Sea. FEMS Microbiology Ecology, 2012, 82, 75-89.	2.7	16
60	Large salt accumulations as a consequence of hydrothermal processes associated with â€˜Wilson cyclesâ€™: A review, Part 2: Application of a new salt-forming model on selected cases. Marine and Petroleum Geology, 2018, 92, 128-148.	3.3	16
61	Downslope-shifting pockmarks: interplay between hydrocarbon leakage, sedimentations, currents and slopeâ€™s topography. International Journal of Earth Sciences, 2018, 107, 2907-2929.	1.8	16
62	Geomorphological, geophysical, and geochemical evidence of fluid flow through the seabed. Journal of Geochemical Exploration, 2003, 78-79, 287-291.	3.2	15
63	Pockmark-associated coral reefs at the Kristin field off Mid-Norway. , 2005, , 623-632.		15
64	Recently formed methane- derived carbonates from the North Sea floor. , 1985, , 263-266.		15
65	Large salt accumulations as a consequence of hydrothermal processes associated with â€˜Wilson cyclesâ€™: A review Part 1: Towards a new understanding. Marine and Petroleum Geology, 2018, 92, 987-1009.	3.3	14
66	Norwegian deepâ€water coral reefs: cultivation and molecular analysis of planktonic microbial communities. Environmental Microbiology, 2015, 17, 3597-3609.	3.8	13
67	A submerged beach between Norway and Ekofisk in the North Sea. Marine Geology, 1981, 43, M19-M28.	2.1	12
68	Buried Hydrothermal Systems: The Potential Role of Supercritical Water,â€œScriWâ€; in Various Geological Processes and Occurrences in the Sub-Surface. American Journal of Analytical Chemistry, 2014, 05, 128-139.	0.9	11
69	Anomalous depressions in the northern Yellow Sea Basin: Evidences for their evolution processes. Marine and Petroleum Geology, 2017, 84, 179-194.	3.3	10
70	Tertiary intrusives in western Skagerrak?. Marine Geology, 1987, 78, 175-182.	2.1	7
71	Magmaâ€“serpentinite interaction as the origin of diatremes: a case study from the Hyblean Plateau (southeastern Sicily). International Journal of Earth Sciences, 2016, 105, 1371-1385.	1.8	7
72	Endozoicomonadaceae symbiont in gills of Acesta clam encodes genes for essential nutrients and polysaccharide degradation. FEMS Microbiology Ecology, 2021, 97, .	2.7	7

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73	Red Sea Salt Formationsâ€"A Result of Hydrothermal Processes. Springer Earth System Sciences, 2015, , 187-203.	0.2	7
74	THE FORMATION OF POCKMARKS AND THEIR POTENTIAL INFLUENCE ON OFFSHORE CONSTRUCTION. Doboku Gakkai Ronbunshu, 1987, 1987, 13-22.	0.2	4
75	Role of deep-sourced fluids on the initiation and growth of isolated carbonate build-ups. Marine and Petroleum Geology, 2019, 105, 141-157.	3.3	4
76	Numerical Modeling of Supercritical â€˜Out-Saltingâ€™ in the â€œAtlantis II Deepâ€•(Red Sea) Hydrothermal System. The Open Geology Journal, 2007, 1, 1-6.	0.4	4
77	TERRA BOOK. Terra Nova, 1989, 1, 100-101.	2.1	3
78	Occurrence and implications of large Lophelia-reefs offshore Mid Norway. Norwegian Petroleum Society Special Publications, 2005, , 265-270.	0.1	3
79	Organisms: The only cause of scattering layers?. Eos, 1988, 69, 760.	0.1	2
80	Gas, fire, and water. Eos, 1999, 80, 552-552.	0.1	2
81	Baseline and Environmental Monitoring in Deep Water â€“ A New Approach. , 2004, , .		2
82	Hydrothermal saltâ€"but how much?. Marine and Petroleum Geology, 2008, 25, 203-204.	3.3	2
83	Two Decades of Community Research on Gas in Shallow Marine Sediments. Eos, 2011, 92, 128-128.	0.1	2
84	A coast-parallel depression, possibly caused by gas migration, off western Norway. Marine Geology, 1982, 50, M11-M20.	2.1	1
85	The effects of shallow gas in the Skagerrak surficial sediments. Gff, 1992, 114, 242-243.	0.4	1
86	The Geomorphology and Nature of Seabed Seepage Processes. , 2012, , .		1
87	Salt-formation in rifting and subduction (Wilson cycles): Reply to Alijan Aftabi and Habibeh Atapour on their comments to our two articles. Marine and Petroleum Geology, 2019, 100, 554-558.	3.3	1
88	4. Characteristics of Marine Methane Macroseeps. , 2013, , 63-82.		0
89	Salt Formation, Accumulation, and Expulsion Processes During Ocean Riftingâ€"New Insight Gained from the Red Sea. , 2019, , 233-257.		0
90	Marine Life Associated with Offshore Drilling, Pipelines, and Platforms. , 2012, , 235-256.		0