Martin Hovland

List of Publications by Citations

91 papers	4,748 citations	35 h-index	68 g-index
94 ext. papers	5,219 ext. citations	3.2 avg, IF	5.49 L-index

#	Paper	IF	Citations
91	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		446
90	Seabed Fluid Flow: The Impact on Geology, Biology and the Marine Environment **2007**,		353
89	The geological methane budget at Continental Margins and its influence on climate change. *Geofluids*, **2002**, 2, 109-126	1.5	248
88	The significance of pockmarks to understanding fluid flow processes and geohazards. *Geofluids*, **2002**, 2, 127-136	1.5	242
87	The evidence of shallow gas in marine sediments. *Continental Shelf Research*, **1992**, 12, 1081-1095	2.4	203
86	Deep water bioherms of the scleractinian coral Lophelia pertusa (L.) at 64°n on the Norwegian shelf: Structure and associated megafauna. *Sarsia*, **1995**, 80, 145-158		187
85	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	2.3	186
84	Fault-associated seabed mounds (carbonate knolls?) off western Ireland and north-west Australia. *Marine and Petroleum Geology*, **1994**, 11, 232-246	4.7	162
83	Complex pockmarks with carbonate-ridges off mid-Norway: Products of sediment degassing. *Marine Geology*, **2005**, 218, 191-206	3.3	161
82	Mud and fluid migration in active mud volcanoes in Azerbaijan. *Geo-Marine Letters*, **2003**, 23, 258-268	1.9	155
81	The structure and geomorphology of the Dashgil mud volcano, Azerbaijan. *Geomorphology*, **1997**, 21, 1-15	4.3	104
80	On the self-sealing nature of marine seeps. *Continental Shelf Research*, **2002**, 22, 2387-2394	2.4	104
79	Submarine pingoes: Indicators of shallow gas hydrates in a pockmark at Nyegga, Norwegian Sea. *Marine Geology*, **2006**, 228, 15-23	3.3	102
78	Characteristics of two natural gas seepages in the North Sea. *Marine and Petroleum Geology*, **1985**, 2, 319-326	4.7	97
77	Unit-pockmarks and their potential significance for predicting fluid flow. *Marine and Petroleum Geology*, **2010**, 27, 1190-1199	4.7	87
76	Seabed pockmarks associated with deepwater corals off SE Brazilian continental slope, Santos Basin. *Marine Geology*, **2004**, 207, 159-167	3.3	86
75	Ahermatypic Coral Banks off Mid-Norway: Evidence for a Link with Seepage of Light Hydrocarbons. *Palaios*, **1998**, 13, 189	1.6	81

74	Comparison and implications from strikingly different authigenic carbonates in a Nyegga complex pockmark, G11, Norwegian Sea. *Marine Geology*, **2006**, 231, 89-102	3.3	76
73	Cold-water corals□are they hydrocarbon seep related?. *Marine Geology*, **1997**, 137, 159-164	3.3	75
72	Do carbonate reefs form due to fluid seepage?. *Terra Nova*, **1990**, 2, 8-18	3	73
71	Characteristics of pockmarks in the Norwegian Trench. *Marine Geology*, **1981**, 39, 103-117	3.3	72
70	Characteristic features of pockmarks on the North Sea Floor and Scotian Shelf. *Sedimentology*, **1984**, 31, 471-480	3.3	68
69	Do Norwegian deep-water coral reefs rely on seeping fluids?. *Marine Geology*, **2003**, 198, 83-96	3.3	67
68	The morphologies and genesis of mega-pockmarks near the Xisha Uplift, South China Sea. *Marine and Petroleum Geology*, **2011**, 28, 1146-1156	4.7	65
67	Gas seepage and assumed mud diapirism in the Italian central Adriatic Sea. *Marine and Petroleum Geology*, **1989**, 6, 161-169	4.7	60
66	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		57
65	Environmental effects of submarine seeping natural gas. *Continental Shelf Research*, **1992**, 12, 1197-1207	2.4	50
64	Intracellular Oceanospirillales bacteria inhabit gills of Acesta bivalves. *FEMS Microbiology Ecology*, **2010**, 74, 523-33	4.3	47
63	Elongated depressions associated with pockmarks in the Western Slope of the Norwegian Trench. *Marine Geology*, **1983**, 51, 35-46	3.3	47
62	The global production of methane from shallow submarine sources. *Continental Shelf Research*, **1992**, 12, 1231-1238	2.4	46
61	Hydrocarbon-based communities in the North Sea?. *Sarsia*, **1989**, 74, 29-42		45
60	Salt formation associated with sub-surface boiling and supercritical water. *Marine and Petroleum Geology*, **2006**, 23, 855-869	4.7	42
59	Submarine slide scars and mass movements in Karmsundet and Skudenesfjorden, southwestern Norway: morphology and evolution. *Marine Geology*, **2000**, 167, 147-165	3.3	41
58	Sub-surface precipitation of salts in supercritical seawater. *Basin Research*, **2006**, 18, 221-230	3.2	40
57	Methane and minor oil macro-seep systems □Their complexity and environmental significance. *Marine Geology*, **2012**, 332-334, 163-173	3.3	35

56	Sources of methane inferred from pore-water δ13C of dissolved inorganic carbon in Pockmark G11, offshore Mid-Norway. *Chemical Geology*, **2010**, 275, 127-138	4.2	35
55	Methane assimilation and trophic interactions with marine Methylomicrobium in deep-water coral reef sediment off the coast of Norway. *FEMS Microbiology Ecology*, **2008**, 66, 320-30	4.3	33
54	Pockmarks and the Recent geology of the central section of the Norwegian Trench. *Marine Geology*, **1982**, 47, 283-301	3.3	33
53	North Sea Quaternary morphology from seismic and magnetic data: indications for gas hydrates during glaciation?. *Petroleum Geoscience*, **2005**, 11, 331-337	1.9	32
52	Large pockmarks, gas-charged sediments and possible clay diapirs in the Skagerrak. *Marine and Petroleum Geology*, **1991**, 8, 311-316	4.7	32
51	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	2.5	31
50	Gas and fluid injection triggering shallow mud mobilization in the Hordaland Group, North Sea. *Geological Society Special Publication*, **2003**, 216, 139-157	1.7	31
49	Gas-induced erosion features in the North Sea. *Earth Surface Processes and Landforms*, **1984**, 9, 209-228	3.7	31
48	Piercement shale diapirism in the deep-water Vema Dome area, Vøring basin, offshore Norway. *Marine and Petroleum Geology*, **1998**, 15, 191-201	4.7	30
47	Seepage in Isfjorden and its tributary fjords, West Spitsbergen. *Marine Geology*, **2015**, 363, 146-159	3.3	27
46	Hydrocarbon Seeps in Northern Marine Waters: Their Occurrence and Effects. *Palaios*, **1992**, 7, 376	1.6	27
45	Mapping and imaging deep-sea coral reefs off Norway, 1982–2000. *Hydrobiologia*, **2002**, 471, 13-17	2.4	26
44	Suspected gas-associated clay diapirism on the seabed off Mid Norway. *Marine and Petroleum Geology*, **1990**, 7, 267-276	4.7	26
43	Discovery of prolific natural methane seeps at Gullfaks, northern North Sea. *Geo-Marine Letters*, **2007**, 27, 197-201	1.9	25
42	Unit pockmarks associated with Lophelia coral reefs off mid-Norway: more evidence of control by fertilizing bottom currents. *Geo-Marine Letters*, **2012**, 32, 545-554	1.9	24
41	Evidence of fluid seepage in Grønfjorden, Spitsbergen: Implications from an integrated acoustic study of seafloor morphology, marine sediments and tectonics. *Marine Geology*, **2016**, 380, 67-78	3.3	20
40	Are There Commercial Deposits of Methane Hydrates in Ocean Sediments?. *Energy Exploration and Exploitation*, **2000**, 18, 339-347	2.1	20
39	Pockmarks and gas-charged sediments in the eastern Skagerrak. *Continental Shelf Research*, **1992**, 12, 1111-1119	2.4	20

38	Deep-rooted piercement structures in deep sedimentary basins Manifestations of supercritical water generation at depth?. *Journal of Geochemical Exploration*, **2006**, 89, 157-160	3.8	17
37	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	3.3	17
36	Origin of salt giants in abyssal serpentinite systems. *International Journal of Earth Sciences*, **2017**, 106, 2595-2608	2.2	16
35	High diversity of microplankton surrounds deep-water coral reef in the Norwegian Sea. *FEMS Microbiology Ecology*, **2012**, 82, 75-89	4.3	15
34	Geomorphological, geophysical, and geochemical evidence of fluid flow through the seabed. *Journal of Geochemical Exploration*, **2003**, 78-79, 287-291	3.8	14
33	Recently formed methane- derived carbonates from the North Sea floor **1985**, 263-266		13
32	Downslope-shifting pockmarks: interplay between hydrocarbon leakage, sedimentations, currents and slopes topography. *International Journal of Earth Sciences*, **2018**, 107, 2907-2929	2.2	13
31	A submerged beach between Norway and Ekofisk in the North Sea. *Marine Geology*, **1981**, 43, M19-M28	3.3	12
30	Pockmark-associated coral reefs at the Kristin field off Mid-Norway **2005**, 623-632		12
29	Norwegian deep-water coral reefs: cultivation and molecular analysis of planktonic microbial communities. *Environmental Microbiology*, **2015**, 17, 3597-609	5.2	10
28	Buried Hydrothermal Systems: The Potential Role of Supercritical Water, ScriW in Various Geological Processes and Occurrences in the Sub-Surface. *American Journal of Analytical Chemistry*, **2014**, 05, 128-139	0.7	10
27	Large salt accumulations as a consequence of hydrothermal processes associated with Wilson cycles A review, Part 2: Application of a new salt-forming model on selected cases. *Marine and Petroleum Geology*, **2018**, 92, 128-148	4.7	9
26	Geological controls on shallow gas distribution and seafloor seepage in an Arctic fjord of Spitsbergen, Norway. *Marine and Petroleum Geology*, **2019**, 107, 237-254	4.7	8
25	Diversity of deep-water coral-associated bacteria and comparison across depth gradients. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	8
24	First documentation of seismic stratigraphy and depositional signatures of Zhongsha atoll (Macclesfield Bank), South China Sea. *Marine and Petroleum Geology*, **2020**, 117, 104349	4.7	7
23	Large salt accumulations as a consequence of hydrothermal processes associated with Wilson cycles A review Part 1: Towards a new understanding. *Marine and Petroleum Geology*, **2018**, 92, 987-1009	4.7	7
22	Anomalous depressions in the northern Yellow Sea Basin: Evidences for their evolution processes. *Marine and Petroleum Geology*, **2017**, 84, 179-194	4.7	6
21	Magma 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	2.2	6

20	Tertiary intrusives in western Skagerrak?. *Marine Geology*, **1987**, 78, 175-182	3.3	6
19	Potential Influence of Gas-induced Erosion on Seabed Installations **1984**, 255-263		4
18	Role of deep-sourced fluids on the initiation and growth of isolated carbonate build-ups. *Marine and Petroleum Geology*, **2019**, 105, 141-157	4.7	3
17	THE FORMATION OF POCKMARKS AND THEIR POTENTIAL INFLUENCE ON OFFSHORE CONSTRUCTION. *Doboku Gakkai Ronbunshu*, **1987**, 1987, 13-22		3
16	Red Sea Salt Formations: A Result of Hydrothermal Processes. *Springer Earth System Sciences*, **2015**, 187-203	0.3	3
15	Hydrothermal salt: But how much?. *Marine and Petroleum Geology*, **2008**, 25, 203-204	4.7	2
14	Baseline and Environmental Monitoring in deep water - a new approach **2004**,		2
13	Occurrence and implications of large Lophelia-reefs offshore Mid Norway. *Norwegian Petroleum Society Special Publications*, **2005**, 265-270		2
12	Gas, fire, and water. *Eos*, **1999**, 80, 552	1.5	2
11	TERRA BOOK. *Terra Nova*, **1989**, 1, 100-101	3	2
10	The Geomorphology and Nature of Seabed Seepage Processes **2012**,		1
9	Two Decades of Community Research on Gas in Shallow Marine Sediments. *Eos*, **2011**, 92, 128-128	1.5	1
8	A coast-parallel depression, possibly caused by gas migration, off western Norway. *Marine Geology*, **1982**, 50, M11-M20	3.3	1
7	Endozoicomonadaceae symbiont in gills of Acesta clam encodes genes for essential nutrients and polysaccharide degradation. *FEMS Microbiology Ecology*, **2021**, 97,	4.3	1
6	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	4.7	1
5	Organisms: The only cause of scattering layers?. *Eos*, **1988**, 69, 760	1.5	0
4	4. Characteristics of Marine Methane Macroseeps **2013**, 63-82		
3	The effects of shallow gas in the Skagerrak surficial sediments. *Gff*, **1992**, 114, 242-243		

List of Publications

2 Marine Life Associated with Offshore Drilling, Pipelines, and Platforms **2012**, 235-256

1 Salt Formation, Accumulation, and Expulsion Processes During Ocean Rifting: New Insight Gained from the Red Sea **2019**, 233-257