

# Martin Hovland

## List of Publications by Year in descending order

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90  
papers

5,822  
citations

94381

37  
h-index

82499

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. <i>Journal of Geophysical Research</i> , 1999, 104, 22985-23003.	3.3	548
2	The significance of pockmarks to understanding fluid flow processes and geohazards. <i>Geofluids</i> , 2002, 2, 127-136.	0.3	290
3	The geological methane budget at Continental Margins and its influence on climate change. <i>Geofluids</i> , 2002, 2, 109-126.	0.3	283
4	The evidence of shallow gas in marine sediments. <i>Continental Shelf Research</i> , 1992, 12, 1081-1095.	0.9	237
5	Deep water bioherms of the scleractinian coral <i>Lophelia pertusa</i> (L.) at 64° N on the Norwegian shelf: Structure and associated megafauna. <i>Sarsia</i> , 1995, 80, 145-158.	0.5	231
6	Authigenic carbonate formation at hydrocarbon seeps in continental margin sediments: A comparative study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 1268-1291.	0.6	229
7	Fault-associated seabed mounds (carbonate knolls?) off western Ireland and north-west Australia. <i>Marine and Petroleum Geology</i> , 1994, 11, 232-246.	1.5	188
8	Complex pockmarks with carbonate-ridges off mid-Norway: Products of sediment degassing. <i>Marine Geology</i> , 2005, 218, 191-206.	0.9	184
9	Mud and fluid migration in active mud volcanoes in Azerbaijan. <i>Geo-Marine Letters</i> , 2003, 23, 258-268.	0.5	183
10	On the self-sealing nature of marine seeps. <i>Continental Shelf Research</i> , 2002, 22, 2387-2394.	0.9	131
11	Submarine pingoes: Indicators of shallow gas hydrates in a pockmark at Nyegga, Norwegian Sea. <i>Marine Geology</i> , 2006, 228, 15-23.	0.9	126
12	The structure and geomorphology of the Dashgil mud volcano, Azerbaijan. <i>Geomorphology</i> , 1997, 21, 1-15.	1.1	122
13	Seabed pockmarks associated with deepwater corals off SE Brazilian continental slope, Santos Basin. <i>Marine Geology</i> , 2004, 207, 159-167.	0.9	114
14	Characteristics of two natural gas seepages in the North Sea. <i>Marine and Petroleum Geology</i> , 1985, 2, 319-326.	1.5	113
15	Unit-pockmarks and their potential significance for predicting fluid flow. <i>Marine and Petroleum Geology</i> , 2010, 27, 1190-1199.	1.5	111
16	Ahermatypic Coral Banks off Mid-Norway: Evidence for a Link with Seepage of Light Hydrocarbons. <i>Palaios</i> , 1998, 13, 189.	0.6	102
17	Do carbonate reefs form due to fluid seepage?. <i>Terra Nova</i> , 1990, 2, 8-18.	0.9	91
18	Cold-water corals—are they hydrocarbon seep related?. <i>Marine Geology</i> , 1997, 137, 159-164.	0.9	90

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19	Comparison and implications from strikingly different authigenic carbonates in a Nyegga complex pockmark, G11, Norwegian Sea. <i>Marine Geology</i> , 2006, 231, 89-102.	0.9	90
20	The morphologies and genesis of mega-pockmarks near the Xisha Uplift, South China Sea. <i>Marine and Petroleum Geology</i> , 2011, 28, 1146-1156.	1.5	89
21	Characteristics of pockmarks in the Norwegian Trench. <i>Marine Geology</i> , 1981, 39, 103-117.	0.9	86
22	Do Norwegian deep-water coral reefs rely on seeping fluids?. <i>Marine Geology</i> , 2003, 198, 83-96.	0.9	83
23	Characteristic features of pockmarks on the North Sea Floor and Scotian Shelf. <i>Sedimentology</i> , 1984, 31, 471-480.	1.6	80
24	A large methane plume east of Bear Island (Barents Sea): implications for the marine methane cycle. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1995, 84, 59.	1.3	74
25	Gas seepage and assumed mud diapirism in the Italian central Adriatic Sea. <i>Marine and Petroleum Geology</i> , 1989, 6, 161-169.	1.5	71
26	Intracellular Oceanospirillales bacteria inhabit gills of <i>Acesta</i> bivalves. <i>FEMS Microbiology Ecology</i> , 2010, 74, 523-533.	1.3	70
27	Environmental effects of submarine seeping natural gas. <i>Continental Shelf Research</i> , 1992, 12, 1197-1207.	0.9	59
28	The global production of methane from shallow submarine sources. <i>Continental Shelf Research</i> , 1992, 12, 1231-1238.	0.9	57
29	Salt formation associated with sub-surface boiling and supercritical water. <i>Marine and Petroleum Geology</i> , 2006, 23, 855-869.	1.5	55
30	Elongated depressions associated with pockmarks in the Western Slope of the Norwegian Trench. <i>Marine Geology</i> , 1983, 51, 35-46.	0.9	54
31	Hydrocarbon-based communities in the North Sea?. <i>Sarsia</i> , 1989, 74, 29-42.	0.5	52
32	Submarine slide scars and mass movements in Karmsundet and Skudenesfjorden, southwestern Norway: morphology and evolution. <i>Marine Geology</i> , 2000, 167, 147-165.	0.9	47
33	Sub-surface precipitation of salts in supercritical seawater. <i>Basin Research</i> , 2006, 18, 221-230.	1.3	44
34	Sources of methane inferred from pore-water $\delta^{13}C$ of dissolved inorganic carbon in Pockmark G11, offshore Mid-Norway. <i>Chemical Geology</i> , 2010, 275, 127-138.	1.4	44
35	Gas-induced erosion features in the North Sea. <i>Earth Surface Processes and Landforms</i> , 1984, 9, 209-228.	1.2	42
36	Methane and minor oil macro-seep systems – Their complexity and environmental significance. <i>Marine Geology</i> , 2012, 332-334, 163-173.	0.9	40

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37	Pockmarks and the Recent geology of the central section of the Norwegian Trench. <i>Marine Geology</i> , 1982, 47, 283-301.	0.9	39
38	Methane assimilation and trophic interactions with marine Methylomicrobium in deep-water coral reef sediment off the coast of Norway. <i>FEMS Microbiology Ecology</i> , 2008, 66, 320-330.	1.3	39
39	Large pockmarks, gas-charged sediments and possible clay diapirs in the Skagerrak. <i>Marine and Petroleum Geology</i> , 1991, 8, 311-316.	1.5	38
40	Gas and fluid injection triggering shallow mud mobilization in the Hordaland Group, North Sea. <i>Geological Society Special Publication</i> , 2003, 216, 139-157.	0.8	36
41	Insight into the microbial community structure of a Norwegian deep-water coral reef environment. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 1554-1563.	0.6	36
42	Diversity of deep-water coral-associated bacteria and comparison across depth gradients. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	36
43	Piercement shale diapirism in the deep-water Vema Dome area, VÅring basin, offshore Norway. <i>Marine and Petroleum Geology</i> , 1998, 15, 191-201.	1.5	35
44	North Sea Quaternary morphology from seismic and magnetic data: indications for gas hydrates during glaciation?. <i>Petroleum Geoscience</i> , 2005, 11, 331-337.	0.9	35
45	Seepage in Isfjorden and its tributary fjords, West Spitsbergen. <i>Marine Geology</i> , 2015, 363, 146-159.	0.9	34
46	Suspected gas-associated clay diapirism on the seabed off Mid Norway. <i>Marine and Petroleum Geology</i> , 1990, 7, 267-276.	1.5	32
47	Hydrocarbon Seeps in Northern Marine Waters: Their Occurrence and Effects. <i>Palaios</i> , 1992, 7, 376.	0.6	31
48	Mapping and imaging deep-sea coral reefs off Norway, 1982â€“2000. <i>Hydrobiologia</i> , 2002, 471, 13-17.	1.0	30
49	Discovery of prolific natural methane seeps at Gullfaks, northern North Sea. <i>Geo-Marine Letters</i> , 2007, 27, 197-201.	0.5	30
50	Evidence of fluid seepage in GrÅnfjorden, Spitsbergen: Implications from an integrated acoustic study of seafloor morphology, marine sediments and tectonics. <i>Marine Geology</i> , 2016, 380, 67-78.	0.9	29
51	First documentation of seismic stratigraphy and depositional signatures of Zhongsha atoll (Macclesfield Bank), South China Sea. <i>Marine and Petroleum Geology</i> , 2020, 117, 104349.	1.5	28
52	Unit pockmarks associated with Lophelia coral reefs off mid-Norway: more evidence of control by â€fertilizingâ€™ bottom currents. <i>Geo-Marine Letters</i> , 2012, 32, 545-554.	0.5	26
53	Formation of linear planform chimneys controlled by preferential hydrocarbon leakage and anisotropic stresses in faulted fine-grained sediments, offshore Angola. <i>Solid Earth</i> , 2018, 9, 1437-1468.	1.2	26
54	Are There Commercial Deposits of Methane Hydrates in Ocean Sediments?. <i>Energy Exploration and Exploitation</i> , 2000, 18, 339-347.	1.1	21

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55	Geological controls on shallow gas distribution and seafloor seepage in an Arctic fjord of Spitsbergen, Norway. <i>Marine and Petroleum Geology</i> , 2019, 107, 237-254.	1.5	21
56	Pockmarks and gas-charged sediments in the eastern Skagerrak. <i>Continental Shelf Research</i> , 1992, 12, 1111-1119.	0.9	20
57	Deep-rooted piercement structures in deep sedimentary basins – Manifestations of supercritical water generation at depth?. <i>Journal of Geochemical Exploration</i> , 2006, 89, 157-160.	1.5	20
58	Origin of salt giants in abyssal serpentinite systems. <i>International Journal of Earth Sciences</i> , 2017, 106, 2595-2608.	0.9	20
59	High diversity of microplankton surrounds deep-water coral reef in the Norwegian Sea. <i>FEMS Microbiology Ecology</i> , 2012, 82, 75-89.	1.3	16
60	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. <i>Marine and Petroleum Geology</i> , 2018, 92, 128-148.	1.5	16
61	Downslope-shifting pockmarks: interplay between hydrocarbon leakage, sedimentations, currents and slope –s topography. <i>International Journal of Earth Sciences</i> , 2018, 107, 2907-2929.	0.9	16
62	Geomorphological, geophysical, and geochemical evidence of fluid flow through the seabed. <i>Journal of Geochemical Exploration</i> , 2003, 78-79, 287-291.	1.5	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 –Wilson cycles –: A review Part 1: Towards a new understanding. <i>Marine and Petroleum Geology</i> , 2018, 92, 987-1009.	1.5	14
66	Norwegian deep –water coral reefs: cultivation and molecular analysis of planktonic microbial communities. <i>Environmental Microbiology</i> , 2015, 17, 3597-3609.	1.8	13
67	A submerged beach between Norway and Ekofisk in the North Sea. <i>Marine Geology</i> , 1981, 43, M19-M28.	0.9	12
68	Buried Hydrothermal Systems: The Potential Role of Supercritical Water, –ScriW –, in Various Geological Processes and Occurrences in the Sub-Surface. <i>American Journal of Analytical Chemistry</i> , 2014, 05, 128-139.	0.3	11
69	Anomalous depressions in the northern Yellow Sea Basin: Evidences for their evolution processes. <i>Marine and Petroleum Geology</i> , 2017, 84, 179-194.	1.5	10
70	Tertiary intrusives in western Skagerrak?. <i>Marine Geology</i> , 1987, 78, 175-182.	0.9	7
71	Magma –serpentinite interaction as the origin of diatremes: a case study from the Hyblean Plateau (southeastern Sicily). <i>International Journal of Earth Sciences</i> , 2016, 105, 1371-1385.	0.9	7
72	Endozoicomonadaceae symbiont in gills of <i>Acesta</i> clam encodes genes for essential nutrients and polysaccharide degradation. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	7

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73	Red Sea Salt Formationsâ€™A Result of Hydrothermal Processes. Springer Earth System Sciences, 2015, , 187-203.	0.1	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.	1.5	4
76	Numerical Modeling of Supercritical â€™Out-Saltingâ€™™ in the â€™Atlantis 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.	0.9	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.	1.5	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.	0.9	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.	1.5	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