

Herman Hummel

List of Publications by Year in descending order

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95
papers

2,409
citations

172386

29
h-index

254106

43
g-index

99
all docs

99
docs citations

99
times ranked

2810
citing authors

#	ARTICLE	IF	CITATIONS
1	Food intake of <i>Macoma balthica</i> (mollusca) in relation to seasonal changes in its potential food on a tidal flat in the Dutch Wadden Sea. <i>Journal of Sea Research</i> , 1985, 19, 52-76.	1.0	120
2	Meta-analysis of multidecadal biodiversity trends in Europe. <i>Nature Communications</i> , 2020, 11, 3486.	5.8	115
3	Geographic and seasonal patterns and limits on the adaptive response to temperature of European <i>Mytilus</i> spp. and <i>Macoma balthica</i> populations. <i>Oecologia</i> , 2007, 154, 23-34.	0.9	89
4	Protected Area management: Fusion and confusion with the ecosystem services approach. <i>Science of the Total Environment</i> , 2019, 651, 2432-2443.	3.9	69
5	Comparison of PCBs and PAHs levels in European coastal waters using mussels from the <i>Mytilus edulis</i> complex as biomonitors. <i>Oceanologia</i> , 2015, 57, 196-211.	1.1	65
6	Distribution of <i>Mytilus</i> taxa in European coastal areas as inferred from molecular markers. <i>Journal of Sea Research</i> , 2011, 65, 224-234.	0.6	59
7	Survival in air of the blue mussel <i>Mytilus edulis</i> L. as a sensitive response to pollution-induced environmental stress. <i>Journal of Experimental Marine Biology and Ecology</i> , 1993, 170, 179-195.	0.7	57
8	Trace Metals and Variations of Antioxidant Enzymes in Arctic Bivalve Populations. <i>Archives of Environmental Contamination and Toxicology</i> , 1998, 35, 594-601.	2.1	57
9	Comparison of the performances of two biotic indices based on the MacroBen database. <i>Marine Ecology - Progress Series</i> , 2009, 382, 297-311.	0.9	57
10	Response of the blue mussel <i>Mytilus edulis</i> L. following exposure to PAHs or contaminated sediment. <i>Marine Environmental Research</i> , 1995, 39, 169-173.	1.1	56
11	Marine and coastal ecosystem services on the science-policy-practice nexus: challenges and opportunities from 11 European case studies. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2017, 13, 51-67.	2.9	55
12	Epidemiology of <i>Bonamia ostreae</i> infecting European flat oysters <i>Ostrea edulis</i> from Lake Grevelingen, The Netherlands. <i>Marine Ecology - Progress Series</i> , 2010, 409, 131-142.	0.9	54
13	A comparative assessment of heavy metal accumulation in soft parts and byssus of mussels from subarctic, temperate, subtropical and tropical marine environments. <i>Environmental Pollution</i> , 2006, 139, 70-78.	3.7	48
14	Metallothioneins in Arctic Bivalves. <i>Ecotoxicology and Environmental Safety</i> , 1998, 41, 96-102.	2.9	47
15	Comparison of Chemical Speciation of Copper in the Oosterschelde and Westerschelde Estuaries, The Netherlands. <i>Estuarine, Coastal and Shelf Science</i> , 1996, 42, 629-643.	0.9	44
16	A comparative study on the relation between copper and condition in marine bivalves and the relation with copper in the sediment. <i>Aquatic Toxicology</i> , 1997, 38, 165-181.	1.9	44
17	Spatial and seasonal differences in the PCB content of the mussel <i>Mytilus edulis</i> . <i>Science of the Total Environment</i> , 1990, 92, 155-163.	3.9	42
18	The respiratory capacity of marine mussels (<i>Mytilus galloprovincialis</i>) in relation to the high temperature threshold. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 153, 399-402.	0.8	39

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19	Uniform variation in genetic traits of a marine bivalve related to starvation, pollution and geographic clines. <i>Journal of Experimental Marine Biology and Ecology</i> , 1995, 191, 133-150.	0.7	38
20	Growth and longevity of <i>Mytilus edulis</i> (L.) from northeast Europe. <i>Marine Biology Research</i> , 2007, 3, 155-167.	0.3	37
21	Genetic composition of cultured and wild mussels <i>Mytilus</i> from The Netherlands and transfers from Ireland and Great Britain. <i>Aquaculture</i> , 2009, 287, 292-296.	1.7	36
22	An energy budget for a <i>Macoma balthica</i> (mollusca) population living on a tidal flat in the Dutch Wadden Sea. <i>Journal of Sea Research</i> , 1985, 19, 84-92.	1.0	35
23	Genetic variability and relationships for populations of <i>Cerastoderma edule</i> and of the <i>C. Glaucum</i> complex. <i>Journal of Sea Research</i> , 1994, 33, 81-89.	1.0	35
24	Is benthic food web structure related to diversity of marine macrobenthic communities?. <i>Estuarine, Coastal and Shelf Science</i> , 2012, 108, 76-86.	0.9	35
25	A comparison of the degree of implementation of marine biodiversity indicators by European countries in relation to the Marine Strategy Framework Directive (MSFD). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2015, 95, 1519-1531.	0.4	35
26	Free amino acids in the clam <i>Macoma balthica</i> L. (Bivalvia, Mollusca) from brackish waters of the southern Baltic Sea. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2003, 134, 579-592.	0.8	34
27	Bacterial growth of the marine sponge <i>Halichondria panicea</i> induced by reduced waterflow rate. <i>Marine Ecology - Progress Series</i> , 1988, 42, 195-198.	0.9	33
28	The respiratory performance and survival of the bivalve <i>Macoma balthica</i> (L.) at the southern limit of its distribution area: a translocation experiment. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000, 251, 85-102.	0.7	32
29	Relationship between PCB concentrations and reproduction in mussels <i>mytilus edulis</i> . <i>Marine Environmental Research</i> , 1989, 28, 489-493.	1.1	31
30	What Is Marine Biodiversity? Towards Common Concepts and Their Implications for Assessing Biodiversity Status. <i>Frontiers in Marine Science</i> , 2016, 3, .	1.2	30
31	Relations between free copper and salinity, dissolved and particulate organic carbon in the Oosterschelde and Westerschelde, Netherlands. <i>Journal of Sea Research</i> , 1998, 40, 193-203.	0.6	29
32	Abnormal features of <i>Macoma balthica</i> (Bivalvia) in the Baltic Sea: alerting symptoms of environmental adversity?. <i>Marine Pollution Bulletin</i> , 2004, 49, 17-22.	2.3	29
33	Genetic traits in the bivalve <i>Mytilus</i> from Europe, with an emphasis on Arctic populations. <i>Polar Biology</i> , 2001, 24, 44-52.	0.5	28
34	<i>Macoma balthica</i> in Spain, a few decades back in climate history. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 344, 161-169.	0.7	28
35	Title is missing!. <i>Hydrobiologia</i> , 1997, 355, 127-138.	1.0	27
36	Distribution of Dissolved and Labile Particulate Trace Metals in the Overlying Bottom Water in the Vistula River Plume (Southern Baltic Sea). <i>Marine Pollution Bulletin</i> , 2001, 42, 967-980.	2.3	27

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37	Glacial history of the European marine mussels <i>Mytilus</i> , inferred from distribution of mitochondrial DNA lineages. <i>Heredity</i> , 2014, 113, 250-258.	1.2	27
38	Food intake and growth in <i>Macoma balthica</i> (mollusca) in the laboratory. <i>Journal of Sea Research</i> , 1985, 19, 77-83.	1.0	26
39	Physiological responses of <i>Macoma balthica</i> to copper pollution in the Baltic. <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 1999, 22, 431-439.	0.7	25
40	MacroBen integrated database on benthic invertebrates of European continental shelves: a tool for large-scale analysis across Europe. <i>Marine Ecology - Progress Series</i> , 2009, 382, 225-238.	0.9	25
41	Sensitivity to stress of the estuarine bivalve <i>Macoma balthica</i> from areas between the Netherlands and its southern limits (Gironde). <i>Journal of Sea Research</i> , 1996, 35, 315-321.	0.6	24
42	Ecophysiological and Genetic Traits of the Baltic Clam <i>Macoma balthica</i> in the Baltic: Differences between Populations in the Gdansk Bay Due to Acclimatization or Genetic Adaptation?. <i>International Review of Hydrobiology</i> , 2000, 85, 621-637.	0.5	24
43	Comparison of trace metal bioavailabilities in European coastal waters using mussels from <i>Mytilus edulis</i> complex as biomonitors. <i>Environmental Monitoring and Assessment</i> , 2010, 166, 461-476.	1.3	24
44	Variation in genetic traits of the lugworm <i>Arenicola marina</i> : temperature related expression of mitochondrial allozymes?. <i>Marine Ecology - Progress Series</i> , 1997, 159, 189-195.	0.9	24
45	Ecosystem services in European protected areas: Ambiguity in the views of scientists and managers?. <i>PLoS ONE</i> , 2017, 12, e0187143.	1.1	23
46	The glycogen content in stressed marine bivalves: The initial absence of a decrease. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1989, 94, 729-733.	0.2	22
47	Ecological evaluation of an experimental beneficial use scheme for dredged sediment disposal in shallow tidal waters. <i>Marine Pollution Bulletin</i> , 2011, 62, 99-108.	2.3	22
48	Metal sources to the Baltic clam <i>Macoma balthica</i> (Mollusca: Bivalvia) in the southern Baltic Sea (the Tj ETQq0 0 0 rgBT / Overlock 10 Tf	1.9	19
49	Data integration for European marine biodiversity research: creating a database on benthos and plankton to study large-scale patterns and long-term changes. <i>Hydrobiologia</i> , 2010, 644, 1-13.	1.0	19
50	Free amino acids as a biochemical indicator of stress in the estuarine bivalve <i>Macoma balthica</i> . <i>Science of the Total Environment</i> , 1996, 188, 233-241.	3.9	18
51	Glacial refugium versus range limit: Conservation genetics of <i>Macoma Balthica</i> , a key species in the Bay of Biscay (France). <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 432-433, 73-82.	0.7	18
52	Genetic diversity of European populations of the invasive soft-shell clam <i>Mya arenaria</i> (Bivalvia). <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2004, 84, 1051-1056.	0.4	17
53	Trace metals in suspended particulate matter and sediments from the Severnaya Dvina estuary, Russian Arctic. <i>Polar Record</i> , 2001, 37, 249-256.	0.4	16
54	The effects of prolonged emersion and submersion by tidal manipulation on marine macrobenthos. <i>Hydrobiologia</i> , 1994, 282-283, 219-234.	1.0	15

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55	The effects of extended periods of drainage and submersion on condition and mortality of benthic animals. <i>Journal of Experimental Marine Biology and Ecology</i> , 1986, 103, 251-266.	0.7	14
56	Mortality of intertidal benthic animals after a period of prolonged emersion. <i>Journal of Experimental Marine Biology and Ecology</i> , 1988, 121, 247-254.	0.7	14
57	The Decline and Restoration of a Coastal Lagoon (Lake Veere) in the Dutch Delta. <i>Estuaries and Coasts</i> , 2010, 33, 1261-1278.	1.0	14
58	Geographic patterns of biodiversity in European coastal marine benthos. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2017, 97, 507-523.	0.4	14
59	Biological geography of the European seas: results from the MacroBen database. <i>Marine Ecology - Progress Series</i> , 2009, 382, 265-278.	0.9	14
60	Distribution patterns of macrofaunal species diversity in subtidal soft sediments: biodiversity-productivity relationships from the MacroBen database. <i>Marine Ecology - Progress Series</i> , 2009, 382, 253-264.	0.9	14
61	Salinity-related growth rates in populations of the European clam <i>Macoma balthica</i> and in field transplant experiments along the Baltic Sea salinity gradient. <i>Marine and Freshwater Behaviour and Physiology</i> , 2009, 42, 157-166.	0.4	13
62	Macroecology of the European soft sediment benthos: insights from the MacroBen database. <i>Marine Ecology - Progress Series</i> , 2009, 382, 287-296.	0.9	13
63	The effect of polluted sediment on the gonadal development and embryogenesis of bivalves. <i>Science of the Total Environment</i> , 1996, 187, 231-236.	3.9	12
64	Growth in the bivalve <i>Macoma balthica</i> from its northern to its southern distribution limit: a discontinuity in North Europe because of genetic adaptations in Arctic populations?. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 1998, 120, 133-141.	0.8	12
65	$\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ variations in organic matter pools, <i>Mytilus</i> spp. and <i>Macoma balthica</i> along the European Atlantic coast. <i>Marine Biology</i> , 2013, 160, 541-552.	0.7	12
66	Free amino acid concentrations in <i>Mytilus edulis</i> L. From different locations in the southwestern part of the Netherlands: Their possible significance as a biochemical stress indicator. <i>Comparative Biochemistry and Physiology A, Comparative Physiology</i> , 1989, 93, 413-417.	0.7	11
67	Short and mid-term effects of cockle dredging on non-target macrobenthic species: a before-after control-impact experiment on a tidal mudflat in the Oosterschelde (The Netherlands). <i>Marine Ecology</i> , 2011, 32, 117-129.	0.4	11
68	Consistent patterns of spatial variability between NE Atlantic and Mediterranean rocky shores. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2017, 97, 539-547.	0.4	11
69	Historic developments in macrozoobenthos of the Rhine-Meuse estuary: From a tidal inlet to a freshwater lake. <i>Estuarine, Coastal and Shelf Science</i> , 2008, 76, 95-110.	0.9	10
70	Fluctuating and Directional Asymmetry of the Blue Mussel (<i>Mytilus edulis</i>): Improving Methods of Morphological Analysis to Explore Species Performance at the Northern Border of Its Range. <i>Symmetry</i> , 2015, 7, 488-514.	1.1	10
71	Essence of the patterns of cover and richness of intertidal hard bottom communities: a pan-European study. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2017, 97, 525-538.	0.4	10
72	The role of physical variables in biodiversity patterns of intertidal macroalgae along European coasts. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2017, 97, 549-560.	0.4	10

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73	Large-scale studies of the European benthos: the MacroBen database. <i>Marine Ecology - Progress Series</i> , 2009, 382, 221-224.	0.9	10
74	Effects on the benthic fauna of embanking an intertidal flat area (the Markiezaat, Eastern Scheldt) Tj ETQq0 0 0 rgBT/Overlokk 10 Tf 50	1.0	10
75	Geographical patterns of dominant bivalves and a polychaete in Europe: no metapopulations in the marine coastal zone?. <i>Helgoland Marine Research</i> , 2003, 56, 247-251.	1.3	9
76	Differential cold-shock resistance among acclimated European mussel populations. <i>Marine and Freshwater Behaviour and Physiology</i> , 2007, 40, 233-245.	0.4	9
77	On the identity of broad-shelled mussels (Mollusca, Bivalvia, Mytilus) from the Dutch delta region. <i>Contributions To Zoology</i> , 2011, 80, 95-106.	0.2	8
78	Sensitivity to stress in the bivalve <i>Macoma balthica</i> from the most northern (Arctic) to the most southern (French) populations: low sensitivity in Arctic populations because of genetic adaptations?. , 1997, , 127-138.		8
79	Expected effects of the use of the Oosterschelde storm surge barrier on the survival of the intertidal fauna: Part 1â€”The effects of prolonged emersion. <i>Marine Environmental Research</i> , 1989, 27, 215-227.	1.1	7
80	Evaluation of free amino acids as a biochemical indicator of metal pollution. <i>Marine Environmental Research</i> , 1994, 38, 303-312.	1.1	7
81	Variation in genetic traits of the Baltic clam <i>Macoma balthica</i> from a tidal gradient in the subarctic. <i>Polar Biology</i> , 1998, 19, 342-347.	0.5	7
82	Predation by crustaceans on native and non-native Baltic clams. <i>Aquatic Biology</i> , 2009, 6, 15-24.	0.5	7
83	Expected effects of the use of the Oosterschelde storm surge barrier on the survival of the intertidal fauna: Part 2â€”The effects of protracted tidal cycles. <i>Marine Environmental Research</i> , 1989, 27, 229-239.	1.1	6
84	Seasonal and tidal changes in the length of the crystalline style intertidally living <i>Macoma balthica</i> (Mollusca, Bivalvia). <i>Marine Biology</i> , 1988, 98, 529-534.	0.7	4
85	Title is missing!. <i>Hydrobiologia</i> , 1998, 373/374, 297-310.	1.0	3
86	Long-term patterns in the establishment, expansion and decline of invading macrozoobenthic species in the brackish and marine waters of <scp>S</scp>outhwest <scp>N</scp>etherlands. <i>Marine Ecology</i> , 2014, 35, 50-55.	0.4	3
87	First description of epizoid ciliates (Sessilida Stein, 1933) onÂBathyporeia LindstrÃ¶m, 1855 (Peracarida,) Tj ETQq1_1_0.784314 rgBT /O	0.1	2
88	The Reproduction of the Anemone <i>Sagartia troglodytes</i> (PRICE): No Influence of Tidal Manipulation. <i>Marine Ecology</i> , 1991, 12, 35-40.	0.4	1
89	Vertical gradients for particulate Cu fractions in estuarine water over tidal flats. , 1999, 405, 149-161.		1
90	Is <i>Corophium Multisetosum</i> Stock, 1952 an Exotic Invasive Species in Europe? Distribution, Habitat, and Recent Observations in the Netherlands. <i>Crustaceana</i> , 2011, 84, 975-1011.	0.1	1

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91	Introduction to the Proceedings of the 49th European Marine Biology Symposium. Journal of the Marine Biological Association of the United Kingdom, 2015, 95, 1517-1517.	0.4	1
92	Patterns in macrozoobenthic assemblages indicate the state of the environment: insights from the Rhine-Meuse estuary. Marine Ecology - Progress Series, 2011, 436, 29-50.	0.9	1
93	A bottom-up practitioner-derived set of Essential Variables for Protected Area management. Environmental and Sustainability Indicators, 2022, 14, 100179.	1.7	1
94	50 years of the European Marine Biology symposium – a continuing success story. Journal of the Marine Biological Association of the United Kingdom, 2017, 97, 463-464.	0.4	0
95	Influence of the level of oxygenation in sediment and water on copper bioavailability to marine bivalves: laboratory experiments and translocation experiments in the field. , 1998, , 297-310.		0