

Gunnar Gerdts

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110
papers

10,215
citations

44
h-index

100
g-index

115
ext. papers

13,602
ext. citations

6
avg, IF

6.61
L-index

#	Paper	IF	Citations
110	Human footprints at hadal depths: interlayer and intralayer comparison of sediment cores from the Kuril Kamchatka trench. <i>Science of the Total Environment</i> , 2022 , 838, 156035	10.2	0
109	Microplastics in two German wastewater treatment plants: Year-long effluent analysis with FTIR and Py-GC/MS.. <i>Science of the Total Environment</i> , 2021 , 817, 152619	10.2	1
108	Microplastics in the Weddell Sea (Antarctica): A Forensic Approach for Discrimination between Environmental and Vessel-Induced Microplastics. <i>Environmental Science & Technology</i> , 2021 , 55, 15900-15911	10.3	6
107	Mycoplankton Biome Structure and Assemblage Processes Differ Along a Transect From the Elbe River Down to the River Plume and the Adjacent Marine Waters. <i>Frontiers in Microbiology</i> , 2021 , 12, 640469	5.7	2
106	Cross-Hemisphere Study Reveals Geographically Ubiquitous, Plastic-Specific Bacteria Emerging from the Rare and Unexplored Biosphere. <i>MSphere</i> , 2021 , 6, e0085120	5	3
105	Paraffin and other petroleum waxes in the southern North Sea. <i>Marine Pollution Bulletin</i> , 2021 , 162, 111807	10.7	3
104	Systematic identification of microplastics in abyssal and hadal sediments of the Kuril Kamchatka trench. <i>Environmental Pollution</i> , 2021 , 269, 116095	9.3	22
103	Comparison and uncertainty evaluation of two centrifugal separators for microplastic sampling. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125482	12.8	6
102	Fish as a winter reservoir for <i>Vibrio</i> spp. in the southern Baltic Sea coast. <i>Journal of Marine Systems</i> , 2021 , 221, 103574	2.7	0
101	Characterizing the multidimensionality of microplastics across environmental compartments. <i>Water Research</i> , 2021 , 202, 117429	12.5	11
100	Dissolved organic compounds with synchronous dynamics share chemical properties and origin. <i>Limnology and Oceanography</i> , 2021 , 66, 4001	4.8	0
99	Microplastic pollution in the Weser estuary and the German North Sea. <i>Environmental Pollution</i> , 2021 , 288, 117681	9.3	8
98	Quantifying microplastic translocation from feed to the fillet in European sea bass <i>Dicentrarchus labrax</i> . <i>Marine Pollution Bulletin</i> , 2020 , 156, 111210	6.7	29
97	Tying up Loose Ends of Microplastic Pollution in the Arctic: Distribution from the Sea Surface through the Water Column to Deep-Sea Sediments at the HAUSGARTEN Observatory. <i>Environmental Science & Technology</i> , 2020 , 54, 4079-4090	10.3	91
96	Toward the Systematic Identification of Microplastics in the Environment: Evaluation of a New Independent Software Tool (siMPle) for Spectroscopic Analysis. <i>Applied Spectroscopy</i> , 2020 , 74, 1127-1138	3.1	62
95	Seasonal Dynamics of Pelagic Mycoplanktonic Communities: Interplay of Taxon Abundance, Temporal Occurrence, and Biotic Interactions. <i>Frontiers in Microbiology</i> , 2020 , 11, 1305	5.7	8
94	The Travelling Particles: Investigating microplastics as possible transport vectors for multidrug resistant <i>E. coli</i> in the Weser estuary (Germany). <i>Science of the Total Environment</i> , 2020 , 720, 137603	10.2	27

93	Potentially human pathogenic <i>Vibrio</i> spp. in a coastal transect: Occurrence and multiple virulence factors. <i>Science of the Total Environment</i> , 2020 , 707, 136113	10.2	13
92	Rapid Identification and Quantification of Microplastics in the Environment by Quantum Cascade Laser-Based Hyperspectral Infrared Chemical Imaging. <i>Environmental Science & Technology</i> , 2020 , 54, 15893-15903	10.3	16
91	Comparison of pyrolysis gas chromatography/mass spectrometry and hyperspectral FTIR imaging spectroscopy for the analysis of microplastics. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 8283-8298	10.4	44
90	Bacterial biofilms colonizing plastics in estuarine waters, with an emphasis on <i>Vibrio</i> spp. and their antibacterial resistance. <i>PLoS ONE</i> , 2020 , 15, e0237704	3.7	22
89	Spatial distribution of microplastics in sediments and surface waters of the southern North Sea. <i>Environmental Pollution</i> , 2019 , 252, 1719-1729	9.3	121
88	The Plastisphere - Uncovering tightly attached plastic "specific" microorganisms. <i>PLoS ONE</i> , 2019 , 14, e0215859	3.7	82
87	Microplastic Pollution in Benthic Midstream Sediments of the Rhine River. <i>Environmental Science & Technology</i> , 2019 , 53, 6053-6062	10.3	90
86	Different stories told by small and large microplastics in sediment - first report of microplastic concentrations in an urban recipient in Norway. <i>Marine Pollution Bulletin</i> , 2019 , 141, 501-513	6.7	83
85	White and wonderful? Microplastics prevail in snow from the Alps to the Arctic. <i>Science Advances</i> , 2019 , 5, eaax1157	14.3	440
84	Bacterial community succession in response to dissolved organic matter released from live jellyfish. <i>Journal of Oceanology and Limnology</i> , 2019 , 37, 1229-1244	1.5	4
83	Using FTIRS as pre-screening method for detection of microplastic in bulk sediment samples. <i>Science of the Total Environment</i> , 2019 , 689, 341-346	10.2	15
82	Library based identification and characterisation of polymers with nano-FTIR and IR-SSNOM imaging. <i>Analytical Methods</i> , 2019 , 11, 5195-5202	3.2	32
81	Bacterial communities associated with scyphomedusae at Helgoland Roads. <i>Marine Biodiversity</i> , 2019 , 49, 1489-1503	1.4	5
80	Arctic sea ice is an important temporal sink and means of transport for microplastic. <i>Nature Communications</i> , 2018 , 9, 1505	17.4	431
79	Recurrent patterns of microdiversity in a temperate coastal marine environment. <i>ISME Journal</i> , 2018 , 12, 237-252	11.9	77
78	Reference database design for the automated analysis of microplastic samples based on Fourier transform infrared (FTIR) spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 5131-5141	4.4	159
77	Mature biofilm communities on synthetic polymers in seawater - Specific or general?. <i>Marine Environmental Research</i> , 2018 , 142, 147-154	3.3	80
76	Comparison of Raman and Fourier Transform Infrared Spectroscopy for the Quantification of Microplastics in the Aquatic Environment. <i>Environmental Science & Technology</i> , 2018 , 52, 13279-13288	10.3	143

75	An automated approach for microplastics analysis using focal plane array (FPA) FTIR microscopy and image analysis. <i>Analytical Methods</i> , 2017 , 9, 1499-1511	3.2	224
74	A communal catalogue reveals Earth@ multiscale microbial diversity. <i>Nature</i> , 2017 , 551, 457-463	50.4	1076
73	High Quantities of Microplastic in Arctic Deep-Sea Sediments from the HAUSGARTEN Observatory. <i>Environmental Science & Technology</i> , 2017 , 51, 11000-11010	10.3	434
72	Enzymatic Purification of Microplastics in Environmental Samples. <i>Environmental Science & Technology</i> , 2017 , 51, 14283-14292	10.3	225
71	Identification of microplastic in effluents of waste water treatment plants using focal plane array-based micro-Fourier-transform infrared imaging. <i>Water Research</i> , 2017 , 108, 365-372	12.5	652
70	Mikroplastik in der Umwelt. <i>Chemie in Unserer Zeit</i> , 2017 , 51, 402-412	0.2	17
69	Combined Carbohydrates Support Rich Communities of Particle-Associated Marine Bacterioplankton. <i>Frontiers in Microbiology</i> , 2017 , 8, 65	5.7	16
68	Impacts of a reduction in seawater pH mimicking ocean acidification on the structure and diversity of mycoplankton communities. <i>Aquatic Microbial Ecology</i> , 2017 , 79, 221-233	1.1	11
67	Mikroplastik im Meer 2017 , 135-142		0
66	Plastic ingestion by pelagic and demersal fish from the North Sea and Baltic Sea. <i>Marine Pollution Bulletin</i> , 2016 , 102, 134-41	6.7	342
65	Recurring patterns in bacterioplankton dynamics during coastal spring algae blooms. <i>ELife</i> , 2016 , 5, e11888	11.8	193
64	Short-Term Dynamics of North Sea Bacterioplankton-Dissolved Organic Matter Coherence on Molecular Level. <i>Frontiers in Microbiology</i> , 2016 , 7, 321	5.7	34
63	Dangerous hitchhikers? Evidence for potentially pathogenic <i>Vibrio</i> spp. on microplastic particles. <i>Marine Environmental Research</i> , 2016 , 120, 1-8	3.3	383
62	Spatiotemporal variation of the bacterioplankton community in the German Bight: from estuarine to offshore regions. <i>Helgoland Marine Research</i> , 2016 , 70,	1.8	12
61	Methodology Used for the Detection and Identification of Microplastics A Critical Appraisal 2015 , 201-227		169
60	Microplastic concentrations in beach sediments along the German Baltic coast. <i>Marine Pollution Bulletin</i> , 2015 , 99, 216-29	6.7	251
59	The ocean sampling day consortium. <i>GigaScience</i> , 2015 , 4, 27	7.6	126
58	VibrioBase: A MALDI-TOF MS database for fast identification of <i>Vibrio</i> spp. that are potentially pathogenic in humans. <i>Systematic and Applied Microbiology</i> , 2015 , 38, 16-25	4.2	46

57	Annual dynamics of North Sea bacterioplankton: seasonal variability superimposes short-term variation. <i>FEMS Microbiology Ecology</i> , 2015 , 91, fiv099	4.3	26
56	Structural composition and temporal variation of the ciliate community in relation to environmental factors at Helgoland Roads, North Sea. <i>Journal of Sea Research</i> , 2015 , 101, 19-30	1.9	9
55	Spatial distribution of marine airborne bacterial communities. <i>MicrobiologyOpen</i> , 2015 , 4, 475-90	3.4	42
54	Bacterial communities associated with four ctenophore genera from the German Bight (North Sea). <i>FEMS Microbiology Ecology</i> , 2015 , 91, 1-11	4.3	67
53	Focal plane array detector-based micro-Fourier-transform infrared imaging for the analysis of microplastics in environmental samples. <i>Environmental Chemistry</i> , 2015 , 12, 563	3.2	292
52	Population analysis of <i>Vibrio parahaemolyticus</i> originating from different geographical regions demonstrates a high genetic diversity. <i>BMC Microbiology</i> , 2014 , 14, 59	4.5	17
51	Spatial and seasonal variation in diversity and structure of microbial biofilms on marine plastics in Northern European waters. <i>FEMS Microbiology Ecology</i> , 2014 , 90, 478-92	4.3	236
50	Temporal and spatial distribution patterns of potentially pathogenic <i>Vibrio</i> spp. at recreational beaches of the German north sea. <i>Microbial Ecology</i> , 2013 , 65, 1052-67	4.4	63
49	The microbiome of North Sea copepods. <i>Helgoland Marine Research</i> , 2013 , 67, 757-773	1.8	20
48	Distinct seasonal growth patterns of the bacterium <i>Planktotalea frisia</i> in the North Sea and specific interaction with phytoplankton algae. <i>FEMS Microbiology Ecology</i> , 2013 , 86, 185-99	4.3	11
47	Geo-Chip analysis reveals reduced functional diversity of the bacterial community at a dumping site for dredged Elbe sediment. <i>Marine Pollution Bulletin</i> , 2013 , 77, 113-22	6.7	4
46	Comparison of molecular species identification for North Sea calanoid copepods (Crustacea) using proteome fingerprints and DNA sequences. <i>Molecular Ecology Resources</i> , 2013 , 13, 862-76	8.4	67
45	Study on the effects of near-future ocean acidification on marine yeasts: a microcosm approach. <i>Helgoland Marine Research</i> , 2013 , 67, 607-621	1.8	6
44	Marine fungi may benefit from ocean acidification. <i>Aquatic Microbial Ecology</i> , 2013 , 69, 59-67	1.1	22
43	Effect of elevated CO ₂ on the dynamics of particle-attached and free-living bacterioplankton communities in an Arctic fjord. <i>Biogeosciences</i> , 2013 , 10, 181-191	4.6	24
42	Composition and dynamics of biostimulated indigenous oil-degrading microbial consortia from the Irish, North and Mediterranean Seas: a mesocosm study. <i>FEMS Microbiology Ecology</i> , 2012 , 81, 520-36	4.3	27
41	Seasonal dynamics and modeling of a <i>Vibrio</i> community in coastal waters of the North Sea. <i>Microbial Ecology</i> , 2012 , 63, 543-51	4.4	65
40	Effects of salinity, temperature and nutrients on growth, cellular characteristics and yessotoxin production of <i>Protoceratium reticulatum</i> . <i>Harmful Algae</i> , 2012 , 15, 59-70	5.3	26

39	Substrate-controlled succession of marine bacterioplankton populations induced by a phytoplankton bloom. <i>Science</i> , 2012 , 336, 608-11	33.3	846
38	Small changes in pH have direct effects on marine bacterial community composition: a microcosm approach. <i>PLoS ONE</i> , 2012 , 7, e47035	3.7	103
37	A polyphasic approach for the differentiation of environmental <i>Vibrio</i> isolates from temperate waters. <i>FEMS Microbiology Ecology</i> , 2011 , 75, 145-62	4.3	19
36	Practical application of self-organizing maps to interrelate biodiversity and functional data in NGS-based metagenomics. <i>ISME Journal</i> , 2011 , 5, 918-28	11.9	43
35	Occurrence of <i>Vibrio parahaemolyticus</i> and <i>Vibrio alginolyticus</i> in the German Bight over a seasonal cycle. <i>Antonie Van Leeuwenhoek</i> , 2011 , 100, 291-307	2.1	43
34	Accumulation and Depuration of Yessotoxin in Two Bivalves. <i>Journal of Shellfish Research</i> , 2011 , 30, 167-175	5	
33	Temporal variability of coastal Planctomycetes clades at Kabeltonne station, North Sea. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5009-17	4.8	45
32	The complete genome sequence of the algal symbiont <i>Dinoroseobacter shibae</i> : a hitchhiker's guide to life in the sea. <i>ISME Journal</i> , 2010 , 4, 61-77	11.9	187
31	Characteristic profiles of Ciguatera toxins in different strains of <i>Gambierdiscus</i> spp. <i>Toxicon</i> , 2010 , 56, 731-8	2.8	57
30	Constitutive expression of the proteorhodopsin gene by a flavobacterium strain representative of the proteorhodopsin-producing microbial community in the North Sea. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 3187-97	4.8	43
29	Spirochetes in Crystalline Styles of Marine Bivalves: Group-Specific PCR Detection and 16S rRNA Sequence Analysis. <i>Journal of Shellfish Research</i> , 2010 , 29, 1069-1075	1	11
28	A mesocosm study of the changes in marine flagellate and ciliate communities in a crude oil bioremediation trial. <i>Microbial Ecology</i> , 2010 , 60, 180-91	4.4	17
27	Comparison of different DNA-extraction techniques to investigate the bacterial community of marine copepods. <i>Helgoland Marine Research</i> , 2010 , 64, 331-342	1.8	9
26	Helgoland Roads, North Sea: 45 Years of Change. <i>Estuaries and Coasts</i> , 2010 , 33, 295-310	2.8	146
25	CONTRIBUTION OF THE CLASS CRYPTOPHYCEAE TO PHYTOPLANKTON STRUCTURE IN THE GERMAN BIGHT1. <i>Journal of Phycology</i> , 2010 , 46, 1152-1160	3	25
24	Populations of heavy fuel oil-degrading marine microbial community in presence of oil sorbent materials. <i>Journal of Applied Microbiology</i> , 2009 , 107, 590-605	4.7	38
23	Microbial consortia in mesocosm bioremediation trial using oil sorbents, slow-release fertilizer and bioaugmentation. <i>FEMS Microbiology Ecology</i> , 2009 , 69, 288-300	4.3	34
22	Bloom forming <i>Alexandrium ostenfeldii</i> (Dinophyceae) in shallow waters of the Band Archipelago, Northern Baltic Sea. <i>Harmful Algae</i> , 2009 , 8, 318-328	5.3	75

21	Influence of nutrients, temperature, light and salinity on the occurrence of <i>Paralia sulcata</i> at Helgoland Roads, North Sea. <i>Aquatic Biology</i> , 2009 , 7, 185-197	2	35
20	Are spirocides converted in biological systems?--A study. <i>Toxicon</i> , 2008 , 51, 934-40	2.8	19
19	Consuming algal products: trophic interactions of bacteria and a diatom species determined by RNA stable isotope probing. <i>Helgoland Marine Research</i> , 2008 , 62, 283-287	1.8	11
18	In vitro transformation of PSP toxins by different shellfish tissues. <i>Harmful Algae</i> , 2007 , 6, 308-316	5.3	43
17	Bacterial community dynamics during the winter-spring transition in the North Sea. <i>FEMS Microbiology Ecology</i> , 2007 , 59, 622-37	4.3	102
16	Species-specific bacterial communities in the phycosphere of microalgae?. <i>Microbial Ecology</i> , 2007 , 53, 683-99	4.4	179
15	Impacts of cultivation of marine diatoms on the associated bacterial community. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3117-20	4.8	36
14	FISH and chips: marine bacterial communities analyzed by flow cytometry based on microfluidics. <i>Journal of Microbiological Methods</i> , 2006 , 64, 232-40	2.8	22
13	Phylogenetic analysis of selected toxic and non-toxic bacterial strains isolated from the toxic dinoflagellate <i>Alexandrium tamarense</i> . <i>FEMS Microbiology Ecology</i> , 2006 , 24, 251-257	4.3	19
12	Bacterial diversity in the breadcrumb sponge <i>Halichondria panicea</i> (Pallas). <i>FEMS Microbiology Ecology</i> , 2006 , 56, 102-18	4.3	63
11	Overview of key phytoplankton toxins and their recent occurrence in the North and Baltic Seas. <i>Environmental Toxicology</i> , 2005 , 20, 1-17	4.2	49
10	Erratum to Bacterial diversity in toxic <i>Alexandrium tamarense</i> blooms off the Orkney Isles and the Firth of Forth. <i>Helgoland Marine Research</i> , 2004 , 58, 93-103	1.8	30
9	40-year long-term study of microbial parameters near Helgoland (German Bight, North Sea): historical view and future perspectives. <i>Helgoland Marine Research</i> , 2004 , 58, 230-242	1.8	26
8	Diarrhetic shellfish toxicity in relation to the abundance of <i>Dinophysis</i> spp. in the German Bight near Helgoland. <i>Marine Ecology - Progress Series</i> , 2003 , 259, 93-102	2.6	25
7	Simultaneous analysis of different algal toxins by LC-MS. <i>Chromatographia</i> , 2002 , 55, 673-680	2.1	27
6	<i>Pseudoalteromonas</i> spp. phages, a significant group of marine bacteriophages in the North Sea. <i>Aquatic Microbial Ecology</i> , 2002 , 27, 233-239	1.1	22
5	A fast fluorimetric assay (FFA) for the detection of saxitoxin in natural phytoplankton samples. <i>Marine Ecology - Progress Series</i> , 2002 , 230, 29-34	2.6	8
4	Isolation of novel pelagic bacteria from the German bight and their seasonal contributions to surface picoplankton. <i>Applied and Environmental Microbiology</i> , 2001 , 67, 5134-42	4.8	204

- 3 Bacteria of the Genus Roseobacter Associated with the Toxic Dinoflagellate *Prorocentrum lima*.
Protist, **1998**, 149, 347-57 2.5 43
- 2 Neuroactive compounds produced by bacteria from the marine sponge *Halichondria panicea*:
activation of the neuronal NMDA receptor. *Environmental Toxicology and Pharmacology*, **1998**, 6, 125-33 5.8 20
- 1 Glass ionomer shade selection using a porcelain shade guide. *Journal of Prosthetic Dentistry*, **1992**,
67, 280-1 4