

# Gunnar Gerdt

## List of Publications by Year in descending order

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Version: 2024-02-01

113  
papers

16,175  
citations

41344

49  
h-index

22832

112  
g-index

116  
all docs

116  
docs citations

116  
times ranked

15894  
citing authors

#	ARTICLE	IF	CITATIONS
1	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017, 551, 457-463.	27.8	1,942
2	Substrate-Controlled Succession of Marine Bacterioplankton Populations Induced by a Phytoplankton Bloom. <i>Science</i> , 2012, 336, 608-611.	12.6	1,304
3	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.	11.3	1,002
4	White and wonderful? Microplastics prevail in snow from the Alps to the Arctic. <i>Science Advances</i> , 2019, 5, eaax1157.	10.3	790
5	Arctic sea ice is an important temporal sink and means of transport for microplastic. <i>Nature Communications</i> , 2018, 9, 1505.	12.8	670
6	High Quantities of Microplastic in Arctic Deep-Sea Sediments from the HAUSGARTEN Observatory. <i>Environmental Science &amp; Technology</i> , 2017, 51, 11000-11010.	10.0	630
7	Dangerous hitchhikers? Evidence for potentially pathogenic <i>Vibrio</i> spp. on microplastic particles. <i>Marine Environmental Research</i> , 2016, 120, 1-8.	2.5	629
8	Plastic ingestion by pelagic and demersal fish from the North Sea and Baltic Sea. <i>Marine Pollution Bulletin</i> , 2016, 102, 134-141.	5.0	470
9	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.	1.5	414
10	Recurring patterns in bacterioplankton dynamics during coastal spring algae blooms. <i>ELife</i> , 2016, 5, e11888.	6.0	414
11	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, 478-492.	2.7	376
12	Microplastic concentrations in beach sediments along the German Baltic coast. <i>Marine Pollution Bulletin</i> , 2015, 99, 216-229.	5.0	365
13	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.	3.7	342
14	Enzymatic Purification of Microplastics in Environmental Samples. <i>Environmental Science &amp; Technology</i> , 2017, 51, 14283-14292.	10.0	338
15	An automated approach for microplastics analysis using focal plane array (FPA) FTIR microscopy and image analysis. <i>Analytical Methods</i> , 2017, 9, 1499-1511.	2.7	320
16	Methodology Used for the Detection and Identification of Microplastics – A Critical Appraisal. , 2015, , 201-227.		278
17	Comparison of Raman and Fourier Transform Infrared Spectroscopy for the Quantification of Microplastics in the Aquatic Environment. <i>Environmental Science &amp; Technology</i> , 2018, 52, 13279-13288.	10.0	251
18	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.	9.8	244

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19	Isolation of Novel Pelagic Bacteria from the German Bight and Their Seasonal Contributions to Surface Picoplankton. <i>Applied and Environmental Microbiology</i> , 2001, 67, 5134-5142.	3.1	238
20	Species-Specific Bacterial Communities in the Phycosphere of Microalgae?. <i>Microbial Ecology</i> , 2007, 53, 683-699.	2.8	233
21	Helgoland Roads, North Sea: 45 Years of Change. <i>Estuaries and Coasts</i> , 2010, 33, 295-310.	2.2	198
22	Spatial distribution of microplastics in sediments and surface waters of the southern North Sea. <i>Environmental Pollution</i> , 2019, 252, 1719-1729.	7.5	190
23	The ocean sampling day consortium. <i>GigaScience</i> , 2015, 4, 27.	6.4	185
24	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 &amp; Technology</i> , 2020, 54, 4079-4090.	10.0	183
25	The Plastisphere – Uncovering tightly attached plastic –specific microorganisms. <i>PLoS ONE</i> , 2019, 14, e0215859.	2.5	168
26	Small Changes in pH Have Direct Effects on Marine Bacterial Community Composition: A Microcosm Approach. <i>PLoS ONE</i> , 2012, 7, e47035.	2.5	152
27	Microplastic Pollution in Benthic Midstream Sediments of the Rhine River. <i>Environmental Science &amp; Technology</i> , 2019, 53, 6053-6062.	10.0	150
28	Mature biofilm communities on synthetic polymers in seawater - Specific or general?. <i>Marine Environmental Research</i> , 2018, 142, 147-154.	2.5	147
29	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.	5.0	138
30	Recurrent patterns of microdiversity in a temperate coastal marine environment. <i>ISME Journal</i> , 2018, 12, 237-252.	9.8	135
31	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.	2.2	130
32	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.	3.7	112
33	Bacterial community dynamics during the winter–spring transition in the North Sea. <i>FEMS Microbiology Ecology</i> , 2007, 59, 622-637.	2.7	111
34	Bacterial communities associated with four ctenophore genera from the German Bight (North Sea). <i>FEMS Microbiology Ecology</i> , 2015, 91, 1-11.	2.7	108
35	Microplastics in oceans. <i>Marine Pollution Bulletin</i> , 2011, 62, 1589-1591.	5.0	99
36	Seasonal Dynamics and Modeling of a <i>Vibrio</i> Community in Coastal Waters of the North Sea. <i>Microbial Ecology</i> , 2012, 63, 543-551.	2.8	95

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37	Bloom forming <i>Alexandrium ostenfeldii</i> (Dinophyceae) in shallow waters of the Åland Archipelago, Northern Baltic Sea. <i>Harmful Algae</i> , 2009, 8, 318-328.	4.8	92
38	Comparison of molecular species identification for <i>North Sea</i> calanoid copepods ( <i>Crustacea</i> ) using proteome fingerprints and <i>DNA</i> sequences. <i>Molecular Ecology Resources</i> , 2013, 13, 862-876.	4.8	89
39	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, 1052-1067.	2.8	85
40	Characterizing the multidimensionality of microplastics across environmental compartments. <i>Water Research</i> , 2021, 202, 117429.	11.3	79
41	Bacterial diversity in the breadcrumb sponge <i>Halichondria panicea</i> (Pallas). <i>FEMS Microbiology Ecology</i> , 2006, 56, 102-118.	2.7	77
42	Characteristic profiles of Ciguatera toxins in different strains of <i>Gambierdiscus</i> spp.. <i>Toxicon</i> , 2010, 56, 731-738.	1.6	68
43	<i>VibrioBase</i> : 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.	2.8	66
44	Spatial distribution of marine airborne bacterial communities. <i>MicrobiologyOpen</i> , 2015, 4, 475-490.	3.0	64
45	Rapid Identification and Quantification of Microplastics in the Environment by Quantum Cascade Laser-Based Hyperspectral Infrared Chemical Imaging. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15893-15903.	10.0	62
46	Overview of key phytoplankton toxins and their recent occurrence in the North and Baltic Seas. <i>Environmental Toxicology</i> , 2005, 20, 1-17.	4.0	60
47	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.	2.5	58
48	Quantifying microplastic translocation from feed to the fillet in European sea bass <i>Dicentrarchus labrax</i> . <i>Marine Pollution Bulletin</i> , 2020, 156, 111210.	5.0	56
49	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.	8.0	56
50	Bacteria of the Genus <i>Roseobacter</i> Associated with the Toxic Dinoflagellate <i>Prorocentrum lima</i> . <i>Protist</i> , 1998, 149, 347-357.	1.5	55
51	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.	1.7	54
52	Temporal Variability of Coastal Planctomycetes Clades at Kabeltonne Station, North Sea. <i>Applied and Environmental Microbiology</i> , 2011, 77, 5009-5017.	3.1	52
53	Library based identification and characterisation of polymers with nano-FTIR and IR-sSNOM imaging. <i>Analytical Methods</i> , 2019, 11, 5195-5202.	2.7	52
54	The founding charter of the Genomic Observatories Network. <i>GigaScience</i> , 2014, 3, 2.	6.4	51

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55	Systematic identification of microplastics in abyssal and hadal sediments of the Kuril Kamchatka trench. <i>Environmental Pollution</i> , 2021, 269, 116095.	7.5	51
56	Practical application of self-organizing maps to interrelate biodiversity and functional data in NGS-based metagenomics. <i>ISME Journal</i> , 2011, 5, 918-928.	9.8	50
57	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, 3187-3197.	3.1	49
58	Impacts of Cultivation of Marine Diatoms on the Associated Bacterial Community. <i>Applied and Environmental Microbiology</i> , 2007, 73, 3117-3120.	3.1	48
59	Short-Term Dynamics of North Sea Bacterioplankton-Dissolved Organic Matter Coherence on Molecular Level. <i>Frontiers in Microbiology</i> , 2016, 7, 321.	3.5	48
60	Microplastics in the Weddell Sea (Antarctica): A Forensic Approach for Discrimination between Environmental and Vessel-Induced Microplastics. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15900-15911.	10.0	47
61	In vitro transformation of PSP toxins by different shellfish tissues. <i>Harmful Algae</i> , 2007, 6, 308-316.	4.8	45
62	Annual dynamics of North Sea bacterioplankton: seasonal variability superimposes short-term variation. <i>FEMS Microbiology Ecology</i> , 2015, 91, fiv099.	2.7	45
63	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.	3.1	44
64	Microbial consortia in mesocosm bioremediation trial using oil sorbents, slow-release fertilizer and bioaugmentation. <i>FEMS Microbiology Ecology</i> , 2009, 69, 288-300.	2.7	44
65	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.	1.4	42
66	Microplastics in two German wastewater treatment plants: Year-long effluent analysis with FTIR and Py-GC/MS. <i>Science of the Total Environment</i> , 2022, 817, 152619.	8.0	42
67	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.	1.3	37
68	<i>Pseudoalteromonas</i> spp. phages, a significant group of marine bacteriophages in the North Sea. <i>Aquatic Microbial Ecology</i> , 2002, 27, 233-239.	1.8	34
69	Erratum to Bacterial diversity in toxic <i>Alexandrium tamarensis</i> blooms off the Orkney Isles and the Firth of Forth. <i>Helgoland Marine Research</i> , 2004, 58, 93-103.	1.3	33
70	Microplastic pollution in the Weser estuary and the German North Sea. <i>Environmental Pollution</i> , 2021, 288, 117681.	7.5	33
71	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.	4.8	32
72	Simultaneous analysis of different algal toxins by LC-MS. <i>Chromatographia</i> , 2002, 55, 673-680.	1.3	31

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73	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.	1.9	31
74	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.	2.7	30
75	CONTRIBUTION OF THE CLASS CRYPTOPHYCEAE TO PHYTOPLANKTON STRUCTURE IN THE GERMAN BIGHT. <i>Journal of Phycology</i> , 2010, 46, 1152-1160.	2.3	29
76	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, 520-536.	2.7	29
77	The microbiome of North Sea copepods. <i>Helgoland Marine Research</i> , 2013, 67, 757-773.	1.3	29
78	Combined Carbohydrates Support Rich Communities of Particle-Associated Marine Bacterioplankton. <i>Frontiers in Microbiology</i> , 2017, 08, 65.	3.5	28
79	Marine fungi may benefit from ocean acidification. <i>Aquatic Microbial Ecology</i> , 2013, 69, 59-67.	1.8	27
80	Effect of elevated CO <sub>2</sub> on the dynamics of particle-attached and free-living bacterioplankton communities in an Arctic fjord. <i>Biogeosciences</i> , 2013, 10, 181-191.	3.3	26
81	FISH and chips: Marine bacterial communities analyzed by flow cytometry based on microfluidics. <i>Journal of Microbiological Methods</i> , 2006, 64, 232-240.	1.6	25
82	Are spirochetes converted in biological systems? A study. <i>Toxicon</i> , 2008, 51, 934-940.	1.6	24
83	Comparison and uncertainty evaluation of two centrifugal separators for microplastic sampling. <i>Journal of Hazardous Materials</i> , 2021, 414, 125482.	12.4	24
84	Neuroactive compounds produced by bacteria from the marine sponge <i>Halichondria panicea</i> : activation of the neuronal NMDA receptor. <i>Environmental Toxicology and Pharmacology</i> , 1998, 6, 125-133.	4.0	23
85	A Mesocosm Study of the Changes in Marine Flagellate and Ciliate Communities in a Crude Oil Bioremediation Trial. <i>Microbial Ecology</i> , 2010, 60, 180-191.	2.8	23
86	Population analysis of <i>Vibrio parahaemolyticus</i> originating from different geographical regions demonstrates a high genetic diversity. <i>BMC Microbiology</i> , 2014, 14, 59.	3.3	23
87	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.	8.0	23
88	Seasonal Dynamics of Pelagic Mycoplanktonic Communities: Interplay of Taxon Abundance, Temporal Occurrence, and Biotic Interactions. <i>Frontiers in Microbiology</i> , 2020, 11, 1305.	3.5	23
89	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.	8.0	22
90	A polyphasic approach for the differentiation of environmental <i>Vibrio</i> isolates from temperate waters. <i>FEMS Microbiology Ecology</i> , 2011, 75, 145-162.	2.7	21

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91	Cross-Hemisphere Study Reveals Geographically Ubiquitous, Plastic-Specific Bacteria Emerging from the Rare and Unexplored Biosphere. <i>MSphere</i> , 2021, 6, e0085120.	2.9	20
92	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.	0.9	18
93	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, 185-199.	2.7	17
94	Spatiotemporal variation of the bacterioplankton community in the German Bight: from estuarine to offshore regions. <i>Helgoland Marine Research</i> , 2016, 70, .	1.3	17
95	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.	1.8	16
96	The travelling particles: community dynamics of biofilms on microplastics transferred along a salinity gradient. <i>ISME Communications</i> , 2022, 2, .	4.2	15
97	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.	1.3	11
98	Comparison of different DNA-extraction techniques to investigate the bacterial community of marine copepods. <i>Helgoland Marine Research</i> , 2010, 64, 331-342.	1.3	11
99	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.	1.6	10
100	Bacterial communities associated with scyphomedusae at Helgoland Roads. <i>Marine Biodiversity</i> , 2019, 49, 1489-1503.	1.0	10
101	A fast fluorimetric assay (FFA) for the detection of saxitoxin in natural phytoplankton samples. <i>Marine Ecology - Progress Series</i> , 2002, 230, 29-34.	1.9	8
102	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.	8.0	8
103	Accumulation and Depuration of Yessotoxin in Two Bivalves. <i>Journal of Shellfish Research</i> , 2011, 30, 167-175.	0.9	7
104	Study on the effects of near-future ocean acidification on marine yeasts: a microcosm approach. <i>Helgoland Marine Research</i> , 2013, 67, 607-621.	1.3	7
105	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.	3.5	7
106	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, 113-122.	5.0	6
107	Bacterial community succession in response to dissolved organic matter released from live jellyfish. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 1229-1244.	1.3	5
108	Paraffin and other petroleum waxes in the southern North Sea. <i>Marine Pollution Bulletin</i> , 2021, 162, 111807.	5.0	5

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109	Dissolved organic compounds with synchronous dynamics share chemical properties and origin. <i>Limnology and Oceanography</i> , 2021, 66, 4001-4016.	3.1	5
110	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.	2.1	2
111	Mikroplastikmüll im Meer. , 2017, , 135-142.		1
112	Glass ionomer shade selection using a porcelain shade guide. <i>Journal of Prosthetic Dentistry</i> , 1992, 67, 280-281.	2.8	0
113	Phylogenetic analysis of selected toxic and non-toxic bacterial strains isolated from the toxic dinoflagellate <i>Alexandrium tamarense</i> . <i>FEMS Microbiology Ecology</i> , 1997, 24, 251-257.	2.7	0