

Gunnar Gerdts

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7598835/gunnar-gerdts-publications-by-citations.pdf>

Version: 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	A communal catalogue reveals Earth@ multiscale microbial diversity. <i>Nature</i> , 2017 , 551, 457-463	50.4	1076
109	Substrate-controlled succession of marine bacterioplankton populations induced by a phytoplankton bloom. <i>Science</i> , 2012 , 336, 608-11	33.3	846
108	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
107	White and wonderful? Microplastics prevail in snow from the Alps to the Arctic. <i>Science Advances</i> , 2019 , 5, eaax1157	14.3	440
106	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
105	Arctic sea ice is an important temporal sink and means of transport for microplastic. <i>Nature Communications</i> , 2018 , 9, 1505	17.4	431
104	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
103	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
102	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
101	Microplastic concentrations in beach sediments along the German Baltic coast. <i>Marine Pollution Bulletin</i> , 2015 , 99, 216-29	6.7	251
100	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
99	Enzymatic Purification of Microplastics in Environmental Samples. <i>Environmental Science & Technology</i> , 2017 , 51, 14283-14292	10.3	225
98	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
97	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
96	Recurring patterns in bacterioplankton dynamics during coastal spring algae blooms. <i>ELife</i> , 2016 , 5, e11888	8.9	193
95	The complete genome sequence of the algal symbiont <i>Dinoroseobacter shibae</i> : a hitchhiker@ guide to life in the sea. <i>ISME Journal</i> , 2010 , 4, 61-77	11.9	187
94	Species-specific bacterial communities in the phycosphere of microalgae?. <i>Microbial Ecology</i> , 2007 , 53, 683-99	4.4	179

93	Methodology Used for the Detection and Identification of Microplastics: A Critical Appraisal 2015 , 201-227		169
92	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
91	Helgoland Roads, North Sea: 45 Years of Change. <i>Estuaries and Coasts</i> , 2010 , 33, 295-310	2.8	146
90	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
89	The ocean sampling day consortium. <i>GigaScience</i> , 2015 , 4, 27	7.6	126
88	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
87	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
86	Bacterial community dynamics during the winter-spring transition in the North Sea. <i>FEMS Microbiology Ecology</i> , 2007 , 59, 622-37	4.3	102
85	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
84	Microplastic Pollution in Benthic Midstream Sediments of the Rhine River. <i>Environmental Science & Technology</i> , 2019 , 53, 6053-6062	10.3	90
83	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
82	The Plastisphere - Uncovering tightly attached plastic "specific" microorganisms. <i>PLoS ONE</i> , 2019 , 14, e0215859	3.7	82
81	Mature biofilm communities on synthetic polymers in seawater - Specific or general?. <i>Marine Environmental Research</i> , 2018 , 142, 147-154	3.3	80
80	Recurrent patterns of microdiversity in a temperate coastal marine environment. <i>ISME Journal</i> , 2018 , 12, 237-252	11.9	77
79	Bloom forming <i>Alexandrium ostenfeldii</i> (Dinophyceae) in shallow waters of the Land Archipelago, Northern Baltic Sea. <i>Harmful Algae</i> , 2009 , 8, 318-328	5.3	75
78	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
77	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
76	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

75	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
74	Bacterial diversity in the breadcrumb sponge <i>Halichondria panicea</i> (Pallas). <i>FEMS Microbiology Ecology</i> , 2006 , 56, 102-18	4.3	63
73	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
72	Characteristic profiles of Ciguatera toxins in different strains of <i>Gambierdiscus</i> spp. <i>Toxicon</i> , 2010 , 56, 731-8	2.8	57
71	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
70	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
69	Temporal variability of coastal Planctomycetes clades at Kabeltonne station, North Sea. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 5009-17	4.8	45
68	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	4.4	44
67	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
66	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
65	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
64	Bacteria of the Genus <i>Roseobacter</i> Associated with the Toxic Dinoflagellate <i>Prorocentrum lima</i> . <i>Protist</i> , 1998 , 149, 347-57	2.5	43
63	In vitro transformation of PSP toxins by different shellfish tissues. <i>Harmful Algae</i> , 2007 , 6, 308-316	5.3	43
62	Spatial distribution of marine airborne bacterial communities. <i>MicrobiologyOpen</i> , 2015 , 4, 475-90	3.4	42
61	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
60	Impacts of cultivation of marine diatoms on the associated bacterial community. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 3117-20	4.8	36
59	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
58	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

57	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
56	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
55	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
54	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
53	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
52	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
51	Simultaneous analysis of different algal toxins by LC-MS. <i>Chromatographia</i> , 2002 , 55, 673-680	2.1	27
50	Annual dynamics of North Sea bacterioplankton: seasonal variability superimposes short-term variation. <i>FEMS Microbiology Ecology</i> , 2015 , 91, fiv099	4.3	26
49	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
48	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
47	CONTRIBUTION OF THE CLASS CRYPTOPHYCEAE TO PHYTOPLANKTON STRUCTURE IN THE GERMAN BIGHT1. <i>Journal of Phycology</i> , 2010 , 46, 1152-1160	3	25
46	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
45	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
44	Marine fungi may benefit from ocean acidification. <i>Aquatic Microbial Ecology</i> , 2013 , 69, 59-67	1.1	22
43	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
42	<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
41	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
40	Systematic identification of microplastics in abyssal and hadal sediments of the Kuril Kamchatka trench. <i>Environmental Pollution</i> , 2021 , 269, 116095	9.3	22

39	The microbiome of North Sea copepods. <i>Helgoland Marine Research</i> , 2013 , 67, 757-773	1.8	20
38	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, 125-33	5.8	20
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	Are spirochetes converted in biological systems?--A study. <i>Toxicon</i> , 2008 , 51, 934-40	2.8	19
35	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
34	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
33	Mikroplastik in der Umwelt. <i>Chemie in Unserer Zeit</i> , 2017 , 51, 402-412	0.2	17
32	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
31	Combined Carbohydrates Support Rich Communities of Particle-Associated Marine Bacterioplankton. <i>Frontiers in Microbiology</i> , 2017 , 8, 65	5.7	16
30	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
29	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
28	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
27	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
26	Distinct seasonal growth patterns of the bacterium <i>Planctotalea frisia</i> in the North Sea and specific interaction with phytoplankton algae. <i>FEMS Microbiology Ecology</i> , 2013 , 86, 185-99	4.3	11
25	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
24	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
23	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
22	Characterizing the multidimensionality of microplastics across environmental compartments. <i>Water Research</i> , 2021 , 202, 117429	12.5	11

21	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
20	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
19	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
18	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
17	Microplastic pollution in the Weser estuary and the German North Sea. <i>Environmental Pollution</i> , 2021 , 288, 117681	9.3	8
16	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
15	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
14	Comparison and uncertainty evaluation of two centrifugal separators for microplastic sampling. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125482	12.8	6
13	Accumulation and Depuration of Yessotoxin in Two Bivalves. <i>Journal of Shellfish Research</i> , 2011 , 30, 167-175	5	5
12	Bacterial communities associated with scyphomedusae at Helgoland Roads. <i>Marine Biodiversity</i> , 2019 , 49, 1489-1503	1.4	5
11	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
10	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
9	Cross-Hemisphere Study Reveals Geographically Ubiquitous, Plastic-Specific Bacteria Emerging from the Rare and Unexplored Biosphere. <i>MSphere</i> , 2021 , 6, e0085120	5	3
8	Paraffin and other petroleum waxes in the southern North Sea. <i>Marine Pollution Bulletin</i> , 2021 , 162, 111807	10.7	3
7	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
6	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
5	Mikroplastik im Meer 2017 , 135-142		0
4	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

3	Dissolved organic compounds with synchronous dynamics share chemical properties and origin. <i>Limnology and Oceanography</i> , 2021 , 66, 4001	4.8	o
2	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	o
1	Glass ionomer shade selection using a porcelain shade guide. <i>Journal of Prosthetic Dentistry</i> , 1992 , 67, 280-1	4	