Klaus JÃ¼rgens

List of Publications by Year
in descending order

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103 papers	8,467 citations	50276 46 h-index	49909 87 g-index
106 all docs	106 docs citations	106 times ranked	9485 citing authors

#	Article	IF	Citations
1	Transitions in bacterial communities along the 2000â€‰km salinity gradient of the Baltic Sea. ISME Journal, 2011, 5, 1571-1579.	9.8	2,219
2	Predation as a shaping force for the phenotypic and genotypic composition of planktonic bacteria. Antonie Van Leeuwenhoek, 2002, 81, 413-434.	1.7	345
3	Changes in biogenic carbon flow in response to sea surface warming. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7067-7072.	7.1	235
4	Impact of Violacein-Producing Bacteria on Survival and Feeding of Bacterivorous Nanoflagellates. Applied and Environmental Microbiology, 2004, 70, 1593-1599.	3.1	209
5	Experimental demonstration of chaos in a microbial food web. Nature, 2005, 435, 1226-1229.	27.8	208
6	Particle-Associated Differ from Free-Living Bacteria in Surface Waters of the Baltic Sea. Frontiers in Microbiology, 2015, 6, 1297.	3.5	180
7	Direct and Indirect Effects of Protist Predation on Population Size Structure of a Bacterial Strain with High Phenotypic Plasticity. Applied and Environmental Microbiology, 2006, 72, 78-86.	3.1	147
8	Regulation of bacterial biomass and community structure by metazoan and protozoan predation. Limnology and Oceanography, 2001, 46, 121-134.	3.1	146
9	Active nitrogen-fixing heterotrophic bacteria at and below the chemocline of the central Baltic Sea. ISME Journal, 2013, 7, 1413-1423.	9.8	146
10	Genome and physiology of a model Epsilonproteobacterium responsible for sulfide detoxification in marine oxygen depletion zones. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 506-510.	7.1	138
11	Epsilonproteobacteria Represent the Major Portion of Chemoautotrophic Bacteria in Sulfidic Waters of Pelagic Redoxclines of the Baltic and Black Seas. Applied and Environmental Microbiology, 2008, 74, 7546-7551.	3.1	131
12	Effect of zooplankton-mediated trophic cascades on marine microbial food web components (bacteria,) Tj ETQq0 0 0 rgBT /Overlock 10	3.1	128
13	Cascading predation effects of Daphnia and copepods on microbial food web components. Freshwater Biology, 2003, 48, 2174-2193.	2.4	123
14	High Motility Reduces Grazing Mortality of Planktonic Bacteria. Applied and Environmental Microbiology, 2005, 71, 921-929.	3.1	120
15	Feeding rates of macroâ€•and microzooplankton on heterotrophic nanoflagellates. Limnology and Oceanography, 1996, 41, 1833-1839.	3.1	115
16	Salinity Induced Regime Shift in Shallow Brackish Lagoons. Ecosystems, 2007, 10, 48-58.	3.4	110
17	Relevance of a crenarchaeotal subcluster related to Candidatus Nitrosopumilus maritimus to ammonia oxidation in the suboxic zone of the central Baltic Sea. ISME Journal, 2010, 4, 1496-1508.	9.8	110
18	Metagenomic De Novo Assembly of an Aquatic Representative of the Verrucomicrobial Class Spartobacteria. MBio, 2013, 4, e00569-12.	4.1	107

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19	Daphnia versus copepod impact on summer phytoplankton: functional compensation at both trophic levels. Oecologia, 2003, 135, 639-647.	2.0	100
20	¹³Câ€isotope analyses reveal that chemolithoautotrophicGammaâ€• andEpsilonproteobacteriafeed a microbial food web in a pelagic redoxcline of the central Baltic Sea. Environmental Microbiology, 2009, 11, 326-337.	3.8	98
21	Widespread distribution of proteorhodopsins in freshwater and brackish ecosystems. ISME Journal, 2008, 2, 656-662.	9.8	97
22	Sulfurimonas gotlandica sp. nov., a chemoautotrophic and psychrotolerant epsilonproteobacterium isolated from a pelagic redoxcline, and an emended description of the genus Sulfurimonas. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 4141-4148.	1.7	88
23	Bloom of Filamentous Bacteria in a Mesotrophic Lake: Identity and Potential Controlling Mechanism. Applied and Environmental Microbiology, 2004, 70, 6272-6281.	3.1	87
24	Seasonal dynamics of crustacean zooplankton, heterotrophic nanoflagellates and bacteria in a shallow, eutrophic lake. Freshwater Biology, 1995, 33, 27-38.	2.4	83
25	Phylogenetic Signals of Salinity and Season in Bacterial Community Composition Across the Salinity Gradient of the Baltic Sea. Frontiers in Microbiology, 2016, 7, 1883.	3.5	81
26	Measuring unbiased metatranscriptomics in suboxic waters of the central Baltic Sea using a new in situ fixation system. ISME Journal, 2012, 6, 461-470.	9.8	80
27	SUP05 Dominates the Gammaproteobacterial Sulfur Oxidizer Assemblages in Pelagic Redoxclines of the Central Baltic and Black Seas. Applied and Environmental Microbiology, 2013, 79, 2767-2776.	3.1	78
28	Composition and Transformation of Dissolved Organic Matter in the Baltic Sea. Frontiers in Earth Science, 2017, 5, .	1.8	76
29	Impact of Different In Vitro Electron Donor/Acceptor Conditions on Potential Chemolithoautotrophic Communities from Marine Pelagic Redoxclines. Applied and Environmental Microbiology, 2005, 71, 6664-6672.	3.1	73
30	Impact of warming on phytoâ€bacterioplankton coupling and bacterial community composition in experimental mesocosms. Environmental Microbiology, 2014, 16, 718-733.	3.8	71
31	Behavioral flexibility in prey selection by bacterivorous nanoflagellates. Limnology and Oceanography, 1995, 40, 1503-1507.	3.1	67
32	Significance of archaeal nitrification in hypoxic waters of the Baltic Sea. ISME Journal, 2015, 9, 1319-1332.	9.8	67
33	High abundance and dark CO₂ fixation of chemolithoautotrophic prokaryotes in anoxic waters of the Baltic Sea. Limnology and Oceanography, 2008, 53, 14-22.	3.1	65
34	Ecosystem-wide metagenomic binning enables prediction of ecological niches from genomes. Communications Biology, 2020, 3, 119.	4.4	64
35	Structural and functional patterns of bacterial communities in response to protist predation along an experimental productivity gradient. Environmental Microbiology, 2008, 10, 2857-2871.	3.8	63
36	Abundance, Depth Distribution, and Composition of Aerobic Bacteriochlorophyll a -Producing Bacteria in Four Basins of the Central Baltic Sea. Applied and Environmental Microbiology, 2008, 74, 4398-4404.	3.1	63

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37	Confusing Selective Feeding with Differential Digestion in Bacterivorous Nanoflagellates. Journal of Eukaryotic Microbiology, 2001, 48, 425-432.	1.7	61
38	Bacterioneuston Community Structure in the Southern Baltic Sea and Its Dependence on Meteorological Conditions. Applied and Environmental Microbiology, 2011, 77, 3726-3733.	3.1	59
39	Responses of primary productivity to increased temperature and phytoplankton diversity. Journal of Sea Research, 2012, 72, 87-93.	1.6	59
40	Effect of large magnetotactic bacteria with polyphosphate inclusions on the phosphate profile of the suboxic zone in the Black Sea. ISME Journal, 2019, 13, 1198-1208.	9.8	59
41	Quantitative Distributions of Epsilonproteobacteria and a Sulfurimonas Subgroup in Pelagic Redoxclines of the Central Baltic Sea. Applied and Environmental Microbiology, 2007, 73, 7155-7161.	3.1	58
42	Diversity and abundance of â€œPelagibacteralesâ€•(SAR11) in the Baltic Sea salinity gradient. Systematic and Applied Microbiology, 2014, 37, 601-604.	2.8	58
43	N and O Isotope Fractionation in Nitrate during Chemolithoautotrophic Denitrification by Sulfurimonas gotlandica. Environmental Science & Technology, 2014, 48, 13229-13237.	10.0	58
44	Diversity of active chemolithoautotrophic prokaryotes in the sulfidic zone of a Black Sea pelagic redoxcline as determined by rRNA-based stable isotope probing. FEMS Microbiology Ecology, 2010, 74, 32-41.	2.7	54
45	Uncoupling of Bacterial and Terrigenous Dissolved Organic Matter Dynamics in Decomposition Experiments. PLoS ONE, 2014, 9, e93945.	2.5	54
46	BARM and BalticMicrobeDB, a reference metagenome and interface to meta-omic data for the Baltic Sea. Scientific Data, 2018, 5, 180146.	5.3	54
47	Protist diversity in suboxic and sulfidic waters of the Black Sea. Environmental Microbiology, 2011, 13, 2939-2956.	3.8	50
48	Acidification and warming affect prominent bacteria in two seasonal phytoplankton bloom mesocosms. Environmental Microbiology, 2016, 18, 4579-4595.	3.8	49
49	Hypoxia and nitrogen processing in the Baltic Sea water column. Limnology and Oceanography, 2012, 57, 325-337.	3.1	48
50	Mixotrophic Phytoflagellate Bacterivory Field Measurements Strongly Biased by Standard Approaches: A Case Study. Frontiers in Microbiology, 2017, 8, 1398.	3.5	48
51	Tight Coupling of Glaciecola spp. and Diatoms during Cold-Water Phytoplankton Spring Blooms. Frontiers in Microbiology, 2017, 8, 27.	3.5	47
52	A Salinity Threshold Separating Fungal Communities in the Baltic Sea. Frontiers in Microbiology, 2019, 10, 680.	3.5	47
53	Dispersal Modifies the Diversity and Composition of Active Bacterial Communities in Response to a Salinity Disturbance. Frontiers in Microbiology, 2018, 9, 2188.	3.5	45
54	Seasonal and Successional Influences on Bacterial Community Composition Exceed That of Protozoan Grazing in River Biofilms. Applied and Environmental Microbiology, 2012, 78, 2013-2024.	3.1	44

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55	Benthic Bacterial Community Composition in the Oligohaline-Marine Transition of Surface Sediments in the Baltic Sea Based on rRNA Analysis. Frontiers in Microbiology, 2018, 9, 236.	3.5	44
56	Linking denitrifier community structure and prevalent biogeochemical parameters in the pelagial of the central Baltic Proper (Baltic Sea). FEMS Microbiology Ecology, 2006, 57, 260-271.	2.7	43
57	Rapid Daphnia-mediated changes in microbial community structure: an experimental study. FEMS Microbiology Ecology, 2002, 42, 137-149.	2.7	42
58	Phenotypic variation in Pseudomonas sp. CM10 determines microcolony formation and survival under protozoan grazing. FEMS Microbiology Ecology, 2002, 39, 57-65.	2.7	40
59	Cascading trophic interactions in the littoral zone: an enclosure experiment in shallow Lake Stigsholm, Denmark. Fundamental and Applied Limnology, 2002, 153, 533-555.	0.7	40
60	Predation-mediated shifts in size distribution of microbial biomass and activity during detritus decomposition. Oikos, 2000, 91, 29-40.	2.7	39
61	Unveiling Trophic Functions of Uncultured Protist Taxa by Incubation Experiments in the Brackish Baltic Sea. PLoS ONE, 2012, 7, e41970.	2.5	38
62	Chemolithoautotrophic denitrification of epsilonproteobacteria in marine pelagic redox gradients. Environmental Microbiology, 2013, 15, 1505-1513.	3.8	38
63	Chemoautotrophic growth of ammonia-oxidizing Thaumarchaeota enriched from a pelagic redox gradient in the Baltic Sea. Frontiers in Microbiology, 2014, 5, 786.	3.5	38
64	Bacteriaâ€“flagellate coupling in microcosm experiments in the Central Atlantic Ocean. Journal of Experimental Marine Biology and Ecology, 2000, 245, 127-147.	1.5	37
65	Toxicity of violacein-producing bacteria fed to bacterivorous freshwater plankton. Limnology and Oceanography, 2009, 54, 1343-1352.	3.1	35
66	Distribution of the uncultured protist MASTâ€4 in the Indian Ocean, Drake Passage and Mediterranean Sea assessed by realâ€time quantitative PCR. Environmental Microbiology, 2009, 11, 397-408.	3.8	34
67	Impact of protist grazing on a key bacterial group for biogeochemical cycling in <scp>B</scp>altic <scp>S</scp>ea pelagic oxic/anoxic interfaces. Environmental Microbiology, 2013, 15, 1580-1594.	3.8	33
68	Temperature and nutrient stoichiometry interactively modulate organic matter cycling in a pelagic algalâ€“bacterial community. Limnology and Oceanography, 2011, 56, 599-610.	3.1	32
69	Experimental insights into the importance of ecologically dissimilar bacteria to community assembly along a salinity gradient. Environmental Microbiology, 2018, 20, 1170-1184.	3.8	32
70	Zonation of bacterioplankton communities along aging upwelled water in the northern Benguela upwelling. Frontiers in Microbiology, 2015, 6, 621.	3.5	29
71	Ecologically relevant choanoflagellates collected from hypoxic water masses of the Baltic Sea have untypical mitochondrial cristae. BMC Microbiology, 2012, 12, 271.	3.3	28
72	Comparative analysis of the fecal bacterial community ofÂfive harbor seals (Phoca vitulina). MicrobiologyOpen, 2016, 5, 782-792.	3.0	28

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73	Success of chemolithoautotrophic SUP05 and Sulfurimonas GD17 cells in pelagic Baltic Sea redox zones is facilitated by their lifestyles as Kâ€ and râ€strategists. Environmental Microbiology, 2017, 19, 2495-2506.	3.8	26
74	Microbial plankton abundance and heterotrophic activity across the Central Atlantic Ocean. Progress in Oceanography, 2008, 79, 83-94.	3.2	25
75	Distribution of the verrucomicrobial clade <scp>S</scp>partobacteria along a salinity gradient in the <scp>B</scp>altic Sea. Environmental Microbiology Reports, 2014, 6, 625-630.	2.4	25
76	Cultivation and isolation of N₂-fixing bacteria from suboxic waters in the Baltic Sea. FEMS Microbiology Ecology, 2014, 88, 358-371.	2.7	24
77	Rising bubbles enhance the gelatinous nature of the airâ€“sea interface. Limnology and Oceanography, 2019, 64, 2358-2372.	3.1	23
78	Acetate-utilizing bacteria at an oxic-anoxic interface in the Baltic Sea. FEMS Microbiology Ecology, 2013, 85, 251-261.	2.7	22
79	Biogeochemical functioning of the Baltic Sea. Earth System Dynamics, 2022, 13, 633-685.	7.1	22
80	Digestion of bacterial macromolecules by a mixotrophic flagellate, Ochromonas sp., compared with that by two heterotrophic flagellates, Spumella pudica and Bodo saltans. European Journal of Protistology, 2001, 37, 155-166.	1.5	20
81	Distribution of <scp>acI</scp>â€<scp>A</scp>ctinorhodopsin genes in <scp>B</scp>altic <scp>S</scp>ea salinity gradients indicates adaptation of facultative freshwater photoheterotrophs to brackish waters. Environmental Microbiology, 2014, 16, 586-597.	3.8	19
82	Metatranscriptomic data reveal the effect of different community properties on multifunctional redundancy. Molecular Ecology, 2017, 26, 6813-6826.	3.9	18
83	Ice formation and growth shape bacterial community structure in Baltic Sea drift ice. FEMS Microbiology Ecology, 2015, 91, 1-13.	2.7	17
84	Environment not dispersal limitation drives clonal composition of Arctic Daphnia in a recently deglaciated area. Molecular Ecology, 2016, 25, 5830-5842.	3.9	17
85	Sampling and Processing Methods Impact Microbial Community Structure and Potential Activity in a Seasonally Anoxic Fjord: Saanich Inlet, British Columbia. Frontiers in Marine Science, 2019, 6, .	2.5	16
86	Impact of a Major Inflow Event on the Composition and Distribution of Bacterioplankton Communities in the Baltic Sea. Frontiers in Marine Science, 2018, 5, .	2.5	12
87	High viral abundance as a consequence of low viral decay in the Baltic Sea redoxcline. PLoS ONE, 2017, 12, e0178467.	2.5	12
88	The pelagic food web. , 2017, , 281-332.		10
89	Effects of artificial thermocline deepening on sedimentation rates and microbial processes in the sediment. Hydrobiologia, 2017, 799, 65-81.	2.0	10
90	Culturing Heterotrophic Protists from the Baltic Sea: Mostly the â€œUsual Suspectsâ€•but a Few Novelties as Well. Journal of Eukaryotic Microbiology, 2017, 64, 153-163.	1.7	10

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91	A metatranscriptomicsâ€based assessment of smallâ€scale mixing of sulfidic and oxic waters on redoxcline prokaryotic communities. Environmental Microbiology, 2018, 21, 584-602.	3.8	10
92	Pyruvate utilization by a chemolithoautotrophic epsilonproteobacterial key player of pelagic Baltic Sea redoxclines. FEMS Microbiology Ecology, 2014, 87, 770-779.	2.7	9
93	Factors Affecting Preference Responses of the Freshwater Ciliate Uronema nigricans to Bacterial Prey. Journal of Eukaryotic Microbiology, 2009, 56, 188-193.	1.7	8
94	Massisteria marina has a sister: Massisteria voersi sp. nov., a rare species isolated from coastal waters of the Baltic Sea. European Journal of Protistology, 2015, 51, 299-310.	1.5	8
95	Nitrogen Flow in Diazotrophic Cyanobacterium Aphanizomenon flos-aquae Is Altered by Cyanophage Infection. Frontiers in Microbiology, 2020, 11, 2010.	3.5	8
96	Predation on Bacteria and Bacterial Resistance Mechanisms: Comparative Aspects Among Different Predator Groups in Aquatic Systems. , 2006, , 57-92.		7
97	Phyto- and Bacterioplankton During Early Spring Conditions in the Baltic Sea and Response to Short-Term Experimental Warming. Frontiers in Marine Science, 2018, 5, .	2.5	7
98	Abundance-Occupancy Relationships Along Taxonomic Ranks Reveal a Consistency of Niche Differentiation in Marine Bacterioplankton With Distinct Lifestyles. Frontiers in Microbiology, 2021, 12, 690712.	3.5	7
99	Impact of dissolved inorganic carbon concentrations and pH on growth of the chemolithoautotrophic epsilonproteobacterium <scp>S</scp>ulfurimonas gotlandica GD1^T. MicrobiologyOpen, 2014, 3, 80-88.	3.0	6
100	Dynamics of halocarbons in coastal surface waters during short term mesocosm experiments. Environmental Chemistry, 2015, 12, 515.	1.5	5
101	Uneven host cell growth causes lysogenic virus induction in the Baltic Sea. PLoS ONE, 2019, 14, e0220716.	2.5	4
102	Phenotypic variation in Pseudomonas sp. CM10 determines microcolony formation and survival under protozoan grazing. FEMS Microbiology Ecology, 2002, 39, 57-65.	2.7	2
103	Rapid Daphnia-mediated changes in microbial community structure: an experimental study. FEMS Microbiology Ecology, 2002, 42, 137-149.	2.7	2