

Klaus JÃ¼rgens

List of Publications by Year in descending order

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102
papers

8,467
citations

50170

46
h-index

49773

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 2000‰ salinity gradient of the Baltic Sea. <i>ISME Journal</i> , 2011, 5, 1571-1579.	4.4	2,219
2	Predation as a shaping force for the phenotypic and genotypic composition of planktonic bacteria. <i>Antonie Van Leeuwenhoek</i> , 2002, 81, 413-434.	0.7	345
3	Changes in biogenic carbon flow in response to sea surface warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7067-7072.	3.3	235
4	Impact of Violacein-Producing Bacteria on Survival and Feeding of Bacterivorous Nanoflagellates. <i>Applied and Environmental Microbiology</i> , 2004, 70, 1593-1599.	1.4	209
5	Experimental demonstration of chaos in a microbial food web. <i>Nature</i> , 2005, 435, 1226-1229.	13.7	208
6	Particle-Associated Differ from Free-Living Bacteria in Surface Waters of the Baltic Sea. <i>Frontiers in Microbiology</i> , 2015, 6, 1297.	1.5	180
7	Direct and Indirect Effects of Protist Predation on Population Size Structure of a Bacterial Strain with High Phenotypic Plasticity. <i>Applied and Environmental Microbiology</i> , 2006, 72, 78-86.	1.4	147
8	Regulation of bacterial biomass and community structure by metazoan and protozoan predation. <i>Limnology and Oceanography</i> , 2001, 46, 121-134.	1.6	146
9	Active nitrogen-fixing heterotrophic bacteria at and below the chemocline of the central Baltic Sea. <i>ISME Journal</i> , 2013, 7, 1413-1423.	4.4	146
10	Genome and physiology of a model Epsilonproteobacterium responsible for sulfide detoxification in marine oxygen depletion zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 506-510.	3.3	138
11	<i>Epsilonproteobacteria</i> Represent the Major Portion of Chemoautotrophic Bacteria in Sulfidic Waters of Pelagic Redoxclines of the Baltic and Black Seas. <i>Applied and Environmental Microbiology</i> , 2008, 74, 7546-7551.	1.4	131
12	Effect of zooplankton-mediated trophic cascades on marine microbial food web components (bacteria, Tj ETQq0 0,0 rgBT / Overlock 10	1.6	128
13	Cascading predation effects of Daphnia and copepods on microbial food web components. <i>Freshwater Biology</i> , 2003, 48, 2174-2193.	1.2	123
14	High Motility Reduces Grazing Mortality of Planktonic Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 921-929.	1.4	120
15	Feeding rates of macro- and microzooplankton on heterotrophic nanoflagellates. <i>Limnology and Oceanography</i> , 1996, 41, 1833-1839.	1.6	115
16	Salinity Induced Regime Shift in Shallow Brackish Lagoons. <i>Ecosystems</i> , 2007, 10, 48-58.	1.6	110
17	Relevance of a crenarchaeotal subcluster related to <i>Candidatus Nitrosopumilus maritimus</i> to ammonia oxidation in the suboxic zone of the central Baltic Sea. <i>ISME Journal</i> , 2010, 4, 1496-1508.	4.4	110
18	Metagenomic <i>De Novo</i> Assembly of an Aquatic Representative of the Verrucomicrobial Class <i>Spartobacteria</i> . <i>MBio</i> , 2013, 4, e00569-12.	1.8	107

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19	Daphnia versus copepod impact on summer phytoplankton: functional compensation at both trophic levels. <i>Oecologia</i> , 2003, 135, 639-647.	0.9	100
20	¹³ C isotope analyses reveal that chemolithoautotrophic <i>Gamma</i> and <i>Epsilon</i> proteobacteria feed a microbial food web in a pelagic redoxcline of the central Baltic Sea. <i>Environmental Microbiology</i> , 2009, 11, 326-337.	1.8	98
21	Widespread distribution of proteorhodopsins in freshwater and brackish ecosystems. <i>ISME Journal</i> , 2008, 2, 656-662.	4.4	97
22	<i>Sulfurimonas gotlandica</i> sp. nov., a chemoautotrophic and psychrotolerant epsilonproteobacterium isolated from a pelagic redoxcline, and an emended description of the genus <i>Sulfurimonas</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 4141-4148.	0.8	88
23	Bloom of Filamentous Bacteria in a Mesotrophic Lake: Identity and Potential Controlling Mechanism. <i>Applied and Environmental Microbiology</i> , 2004, 70, 6272-6281.	1.4	87
24	Seasonal dynamics of crustacean zooplankton, heterotrophic nanoflagellates and bacteria in a shallow, eutrophic lake. <i>Freshwater Biology</i> , 1995, 33, 27-38.	1.2	83
25	Phylogenetic Signals of Salinity and Season in Bacterial Community Composition Across the Salinity Gradient of the Baltic Sea. <i>Frontiers in Microbiology</i> , 2016, 7, 1883.	1.5	81
26	Measuring unbiased metatranscriptomics in suboxic waters of the central Baltic Sea using a new <i>in situ</i> fixation system. <i>ISME Journal</i> , 2012, 6, 461-470.	4.4	80
27	SUP05 Dominates the Gammaproteobacterial Sulfur Oxidizer Assemblages in Pelagic Redoxclines of the Central Baltic and Black Seas. <i>Applied and Environmental Microbiology</i> , 2013, 79, 2767-2776.	1.4	78
28	Composition and Transformation of Dissolved Organic Matter in the Baltic Sea. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	76
29	Impact of Different <i>In Vitro</i> Electron Donor/Acceptor Conditions on Potential Chemolithoautotrophic Communities from Marine Pelagic Redoxclines. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6664-6672.	1.4	73
30	Impact of warming on phyto-bacterioplankton coupling and bacterial community composition in experimental mesocosms. <i>Environmental Microbiology</i> , 2014, 16, 718-733.	1.8	71
31	Behavioral flexibility in prey selection by bacterivorous nanoflagellates. <i>Limnology and Oceanography</i> , 1995, 40, 1503-1507.	1.6	67
32	Significance of archaeal nitrification in hypoxic waters of the Baltic Sea. <i>ISME Journal</i> , 2015, 9, 1319-1332.	4.4	67
33	High abundance and dark CO ₂ fixation of chemolithoautotrophic prokaryotes in anoxic waters of the Baltic Sea. <i>Limnology and Oceanography</i> , 2008, 53, 14-22.	1.6	65
34	Ecosystem-wide metagenomic binning enables prediction of ecological niches from genomes. <i>Communications Biology</i> , 2020, 3, 119.	2.0	64
35	Structural and functional patterns of bacterial communities in response to protist predation along an experimental productivity gradient. <i>Environmental Microbiology</i> , 2008, 10, 2857-2871.	1.8	63
36	Abundance, Depth Distribution, and Composition of Aerobic Bacteriochlorophyll <i>a</i> -Producing Bacteria in Four Basins of the Central Baltic Sea. <i>Applied and Environmental Microbiology</i> , 2008, 74, 4398-4404.	1.4	63

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37	Confusing Selective Feeding with Differential Digestion in Bacterivorous Nanoflagellates. <i>Journal of Eukaryotic Microbiology</i> , 2001, 48, 425-432.	0.8	61
38	Bacterioneuston Community Structure in the Southern Baltic Sea and Its Dependence on Meteorological Conditions. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3726-3733.	1.4	59
39	Responses of primary productivity to increased temperature and phytoplankton diversity. <i>Journal of Sea Research</i> , 2012, 72, 87-93.	0.6	59
40	Effect of large magnetotactic bacteria with polyphosphate inclusions on the phosphate profile of the suboxic zone in the Black Sea. <i>ISME Journal</i> , 2019, 13, 1198-1208.	4.4	59
41	Quantitative Distributions of <i>Epsilonproteobacteria</i> and a <i>Sulfurimonas</i> Subgroup in Pelagic Redoxclines of the Central Baltic Sea. <i>Applied and Environmental Microbiology</i> , 2007, 73, 7155-7161.	1.4	58
42	Diversity and abundance of "Pelagibacteriales" (SAR11) in the Baltic Sea salinity gradient. <i>Systematic and Applied Microbiology</i> , 2014, 37, 601-604.	1.2	58
43	N and O Isotope Fractionation in Nitrate during Chemolithoautotrophic Denitrification by <i>Sulfurimonas gotlandica</i> . <i>Environmental Science & Technology</i> , 2014, 48, 13229-13237.	4.6	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. <i>FEMS Microbiology Ecology</i> , 2010, 74, 32-41.	1.3	54
45	Uncoupling of Bacterial and Terrigenous Dissolved Organic Matter Dynamics in Decomposition Experiments. <i>PLoS ONE</i> , 2014, 9, e93945.	1.1	54
46	BARM and BalticMicrobeDB, a reference metagenome and interface to meta-omic data for the Baltic Sea. <i>Scientific Data</i> , 2018, 5, 180146.	2.4	54
47	Protist diversity in suboxic and sulfidic waters of the Black Sea. <i>Environmental Microbiology</i> , 2011, 13, 2939-2956.	1.8	50
48	Acidification and warming affect prominent bacteria in two seasonal phytoplankton bloom mesocosms. <i>Environmental Microbiology</i> , 2016, 18, 4579-4595.	1.8	49
49	Hypoxia and nitrogen processing in the Baltic Sea water column. <i>Limnology and Oceanography</i> , 2012, 57, 325-337.	1.6	48
50	Mixotrophic Phytoflagellate Bacterivory Field Measurements Strongly Biased by Standard Approaches: A Case Study. <i>Frontiers in Microbiology</i> , 2017, 8, 1398.	1.5	48
51	Tight Coupling of <i>Glaciecola</i> spp. and Diatoms during Cold-Water Phytoplankton Spring Blooms. <i>Frontiers in Microbiology</i> , 2017, 8, 27.	1.5	47
52	A Salinity Threshold Separating Fungal Communities in the Baltic Sea. <i>Frontiers in Microbiology</i> , 2019, 10, 680.	1.5	47
53	Dispersal Modifies the Diversity and Composition of Active Bacterial Communities in Response to a Salinity Disturbance. <i>Frontiers in Microbiology</i> , 2018, 9, 2188.	1.5	45
54	Seasonal and Successional Influences on Bacterial Community Composition Exceed That of Protozoan Grazing in River Biofilms. <i>Applied and Environmental Microbiology</i> , 2012, 78, 2013-2024.	1.4	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. <i>Frontiers in Microbiology</i> , 2018, 9, 236.	1.5	44
56	Linking denitrifier community structure and prevalent biogeochemical parameters in the pelagial of the central Baltic Proper (Baltic Sea). <i>FEMS Microbiology Ecology</i> , 2006, 57, 260-271.	1.3	43
57	Rapid Daphnia-mediated changes in microbial community structure: an experimental study. <i>FEMS Microbiology Ecology</i> , 2002, 42, 137-149.	1.3	42
58	Phenotypic variation in <i>Pseudomonas</i> sp. CM10 determines microcolony formation and survival under protozoan grazing. <i>FEMS Microbiology Ecology</i> , 2002, 39, 57-65.	1.3	40
59	Cascading trophic interactions in the littoral zone: an enclosure experiment in shallow Lake Stigsholm, Denmark. <i>Fundamental and Applied Limnology</i> , 2002, 153, 533-555.	0.4	40
60	Predation-mediated shifts in size distribution of microbial biomass and activity during detritus decomposition. <i>Oikos</i> , 2000, 91, 29-40.	1.2	39
61	Unveiling Trophic Functions of Uncultured Protist Taxa by Incubation Experiments in the Brackish Baltic Sea. <i>PLoS ONE</i> , 2012, 7, e41970.	1.1	38
62	Chemolithoautotrophic denitrification of epsilonproteobacteria in marine pelagic redox gradients. <i>Environmental Microbiology</i> , 2013, 15, 1505-1513.	1.8	38
63	Chemoautotrophic growth of ammonia-oxidizing Thaumarchaeota enriched from a pelagic redox gradient in the Baltic Sea. <i>Frontiers in Microbiology</i> , 2014, 5, 786.	1.5	38
64	Bacteria-flagellate coupling in microcosm experiments in the Central Atlantic Ocean. <i>Journal of Experimental Marine Biology and Ecology</i> , 2000, 245, 127-147.	0.7	37
65	Toxicity of violacein-producing bacteria fed to bacterivorous freshwater plankton. <i>Limnology and Oceanography</i> , 2009, 54, 1343-1352.	1.6	35
66	Distribution of the uncultured protist MAST4 in the Indian Ocean, Drake Passage and Mediterranean Sea assessed by real-time quantitative PCR. <i>Environmental Microbiology</i> , 2009, 11, 397-408.	1.8	34
67	Impact of protist grazing on a key bacterial group for biogeochemical cycling in Baltic Sea pelagic oxic/anoxic interfaces. <i>Environmental Microbiology</i> , 2013, 15, 1580-1594.	1.8	33
68	Temperature and nutrient stoichiometry interactively modulate organic matter cycling in a pelagic algal-bacterial community. <i>Limnology and Oceanography</i> , 2011, 56, 599-610.	1.6	32
69	Experimental insights into the importance of ecologically dissimilar bacteria to community assembly along a salinity gradient. <i>Environmental Microbiology</i> , 2018, 20, 1170-1184.	1.8	32
70	Zonation of bacterioplankton communities along aging upwelled water in the northern Benguela upwelling. <i>Frontiers in Microbiology</i> , 2015, 6, 621.	1.5	29
71	Ecologically relevant choanoflagellates collected from hypoxic water masses of the Baltic Sea have untypical mitochondrial cristae. <i>BMC Microbiology</i> , 2012, 12, 271.	1.3	28
72	Comparative analysis of the fecal bacterial community of five harbor seals (<i>Phoca vitulina</i>). <i>MicrobiologyOpen</i> , 2016, 5, 782-792.	1.2	28

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73	Success of chemolithoautotrophic SUP05 and <i>Sulfurimonas</i> GD17 cells in pelagic Baltic Sea redox zones is facilitated by their lifestyles as <i>K</i> and <i>r</i> -strategists. <i>Environmental Microbiology</i> , 2017, 19, 2495-2506.	1.8	26
74	Microbial plankton abundance and heterotrophic activity across the Central Atlantic Ocean. <i>Progress in Oceanography</i> , 2008, 79, 83-94.	1.5	25
75	Distribution of the verrucomicrobial clade <i>Spartobacteria</i> along a salinity gradient in the Baltic Sea. <i>Environmental Microbiology Reports</i> , 2014, 6, 625-630.	1.0	25
76	Cultivation and isolation of N ₂ -fixing bacteria from suboxic waters in the Baltic Sea. <i>FEMS Microbiology Ecology</i> , 2014, 88, 358-371.	1.3	24
77	Rising bubbles enhance the gelatinous nature of the air-sea interface. <i>Limnology and Oceanography</i> , 2019, 64, 2358-2372.	1.6	23
78	Acetate-utilizing bacteria at an oxic-anoxic interface in the Baltic Sea. <i>FEMS Microbiology Ecology</i> , 2013, 85, 251-261.	1.3	22
79	Biogeochemical functioning of the Baltic Sea. <i>Earth System Dynamics</i> , 2022, 13, 633-685.	2.7	22
80	Digestion of bacterial macromolecules by a mixotrophic flagellate, <i>Ochromonas</i> sp., compared with that by two heterotrophic flagellates, <i>Spumella pudica</i> and <i>Bodo saltans</i> . <i>European Journal of Protistology</i> , 2001, 37, 155-166.	0.5	20
81	Distribution of <i>actA</i> and <i>Actinorhodopsin</i> genes in Baltic Sea salinity gradients indicates adaptation of facultative freshwater photoheterotrophs to brackish waters. <i>Environmental Microbiology</i> , 2014, 16, 586-597.	1.8	19
82	Metatranscriptomic data reveal the effect of different community properties on multifunctional redundancy. <i>Molecular Ecology</i> , 2017, 26, 6813-6826.	2.0	18
83	Ice formation and growth shape bacterial community structure in Baltic Sea drift ice. <i>FEMS Microbiology Ecology</i> , 2015, 91, 1-13.	1.3	17
84	Environment not dispersal limitation drives clonal composition of Arctic <i>Daphnia</i> in a recently deglaciated area. <i>Molecular Ecology</i> , 2016, 25, 5830-5842.	2.0	17
85	Sampling and Processing Methods Impact Microbial Community Structure and Potential Activity in a Seasonally Anoxic Fjord: Saanich Inlet, British Columbia. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	16
86	Impact of a Major Inflow Event on the Composition and Distribution of Bacterioplankton Communities in the Baltic Sea. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	12
87	High viral abundance as a consequence of low viral decay in the Baltic Sea redoxcline. <i>PLoS ONE</i> , 2017, 12, e0178467.	1.1	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. <i>Hydrobiologia</i> , 2017, 799, 65-81.	1.0	10
90	Culturing Heterotrophic Protists from the Baltic Sea: Mostly the "Usual Suspects" but a Few Novelties as Well. <i>Journal of Eukaryotic Microbiology</i> , 2017, 64, 153-163.	0.8	10

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91	A metatranscriptomics-based assessment of small-scale mixing of sulfidic and oxic waters on redoxcline prokaryotic communities. <i>Environmental Microbiology</i> , 2018, 21, 584-602.	1.8	10
92	Pyruvate utilization by a chemolithoautotrophic epsilonproteobacterial key player of pelagic Baltic Sea redoxclines. <i>FEMS Microbiology Ecology</i> , 2014, 87, 770-779.	1.3	9
93	Factors Affecting Preference Responses of the Freshwater Ciliate <i>Uronema nigricans</i> to Bacterial Prey. <i>Journal of Eukaryotic Microbiology</i> , 2009, 56, 188-193.	0.8	8
94	Massisteria marina has a sister: Massisteria voersi sp. nov., a rare species isolated from coastal waters of the Baltic Sea. <i>European Journal of Protistology</i> , 2015, 51, 299-310.	0.5	8
95	Nitrogen Flow in Diazotrophic Cyanobacterium <i>Aphanizomenon flos-aquae</i> Is Altered by Cyanophage Infection. <i>Frontiers in Microbiology</i> , 2020, 11, 2010.	1.5	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. <i>Frontiers in Marine Science</i> , 2018, 5, .	1.2	7
98	Abundance-Occupancy Relationships Along Taxonomic Ranks Reveal a Consistency of Niche Differentiation in Marine Bacterioplankton With Distinct Lifestyles. <i>Frontiers in Microbiology</i> , 2021, 12, 690712.	1.5	7
99	Impact of dissolved inorganic carbon concentrations and pH on growth of the chemolithoautotrophic epsilonproteobacterium <i>Sulfurimonas gotlandica</i> GD1 ^T . <i>MicrobiologyOpen</i> , 2014, 3, 80-88.	1.2	6
100	Dynamics of halocarbons in coastal surface waters during short term mesocosm experiments. <i>Environmental Chemistry</i> , 2015, 12, 515.	0.7	5
101	Uneven host cell growth causes lysogenic virus induction in the Baltic Sea. <i>PLoS ONE</i> , 2019, 14, e0220716.	1.1	4
102	Rapid Daphnia-mediated changes in microbial community structure: an experimental study. , 0, .		2