

# Meinhard Simon

## List of Publications by Year in descending order

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98  
papers

7,346  
citations

57758

44  
h-index

58581

82  
g-index

103  
all docs

103  
docs citations

103  
times ranked

6663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intense hydrolytic enzyme activity on marine aggregates and implications for rapid particle dissolution. <i>Nature</i> , 1992, 359, 139-142.	27.8	889
2	Marine diatom species harbour distinct bacterial communities. <i>Environmental Microbiology</i> , 2005, 7, 860-873.	3.8	526
3	Phylogenomics of <i>Rhodobacteraceae</i> reveals evolutionary adaptation to marine and non-marine habitats. <i>ISME Journal</i> , 2017, 11, 1483-1499.	9.8	283
4	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
5	A newly discovered <i>Roseobacter</i> cluster in temperate and polar oceans. <i>Nature</i> , 2004, 427, 445-448.	27.8	233
6	Reclassification of <i>Roseobacter gallaeciensis</i> Ruiz-Ponte et al. 1998 as <i>Phaeobacter gallaeciensis</i> gen. nov., comb. nov., description of <i>Phaeobacter inhibens</i> sp. nov., reclassification of <i>Ruegeria algicola</i> (Lafay et al. 1995) Uchino et al. 1999 as <i>Marinovum algicola</i> gen. nov., comb. nov., and emended descriptions of the genera <i>Roseobacter</i> , <i>Ruegeria</i> and <i>Leisingera</i> . <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2006, 56, 1293-1304.	1.7	231
7	An improved method for counting bacteria from sediments and turbid environments by epifluorescence microscopy. <i>Environmental Microbiology</i> , 2005, 7, 961-968.	3.8	226
8	Biogeochemistry of dissolved organic matter in an anoxic intertidal creek bank. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 418-434.	3.9	218
9	Antibiotic Production by a <i>Roseobacter</i> Clade-Affiliated Species from the German Wadden Sea and Its Antagonistic Effects on Indigenous Isolates. <i>Applied and Environmental Microbiology</i> , 2004, 70, 2560-2565.	3.1	207
10	Inefficient microbial production of refractory dissolved organic matter in the ocean. <i>Nature Communications</i> , 2015, 6, 7422.	12.8	166
11	Deciphering associations between dissolved organic molecules and bacterial communities in a pelagic marine system. <i>ISME Journal</i> , 2016, 10, 1717-1730.	9.8	155
12	Co-occurrence Analysis of Microbial Taxa in the Atlantic Ocean Reveals High Connectivity in the Free-Living Bacterioplankton. <i>Frontiers in Microbiology</i> , 2016, 7, 649.	3.5	152
13	<i>Phaeobacter gallaeciensis</i> genomes from globally opposite locations reveal high similarity of adaptation to surface life. <i>ISME Journal</i> , 2012, 6, 2229-2244.	9.8	143
14	Antagonistic activity of bacteria isolated from organic aggregates of the German Wadden Sea. <i>FEMS Microbiology Ecology</i> , 2004, 47, 387-396.	2.7	141
15	Growth phase-dependent global protein and metabolite profiles of <i>Phaeobacter gallaeciensis</i> strain DSM 17395, a member of the marine <i>Roseobacter</i> clade. <i>Proteomics</i> , 2009, 9, 3677-3697.	2.2	128
16	Distribution of <i>Roseobacter</i> RCA and SAR11 lineages in the North Sea and characteristics of an abundant RCA isolate. <i>ISME Journal</i> , 2011, 5, 8-19.	9.8	125
17	Volatiles Released by a <i>Streptomyces</i> Species Isolated from the North Sea. <i>Chemistry and Biodiversity</i> , 2005, 2, 837-865.	2.1	115
18	Impact of a phytoplankton bloom on the diversity of the active bacterial community in the southern North Sea as revealed by metatranscriptomic approaches. <i>FEMS Microbiology Ecology</i> , 2014, 87, 378-389.	2.7	113

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19	Tropodithietic Acid Production in <i>Phaeobacter gallaeciensis</i> Is Regulated by N-Acyl Homoserine Lactone-Mediated Quorum Sensing. <i>Journal of Bacteriology</i> , 2011, 193, 6576-6585.	2.2	103
20	Bacterial community dynamics during polysaccharide degradation at contrasting sites in the Southern and Atlantic Oceans. <i>Environmental Microbiology</i> , 2015, 17, 3822-3831.	3.8	103
21	Benthic-pelagic coupling of nutrients and dissolved organic matter composition in an intertidal sandy beach. <i>Marine Chemistry</i> , 2015, 176, 150-163.	2.3	102
22	Adaptation of an abundant <i>Roseobacter</i> RCA organism to pelagic systems revealed by genomic and transcriptomic analyses. <i>ISME Journal</i> , 2015, 9, 371-384.	9.8	96
23	The Exometabolome of Two Model Strains of the <i>Roseobacter</i> Group: A Marketplace of Microbial Metabolites. <i>Frontiers in Microbiology</i> , 2017, 8, 1985.	3.5	96
24	Different utilization of alginate and other algal polysaccharides by marine <i>Alteromonas macleodii</i> ecotypes. <i>Environmental Microbiology</i> , 2015, 17, 3857-3868.	3.8	89
25	Phylogeny of Proteobacteria and Bacteroidetes from oxic habitats of a tidal flat ecosystem. <i>FEMS Microbiology Ecology</i> , 2005, 54, 351-365.	2.7	88
26	Identification and biosynthesis of tropone derivatives and sulfur volatiles produced by bacteria of the marine <i>Roseobacter</i> clade. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 234-246.	2.8	87
27	Distribution of <i>Roseobacter</i> RCA and SAR11 lineages and distinct bacterial communities from the subtropics to the Southern Ocean. <i>Environmental Microbiology</i> , 2009, 11, 2164-2178.	3.8	85
28	Rhodobacteraceae on the marine brown alga <i>Fucus spiralis</i> are abundant and show physiological adaptation to an epiphytic lifestyle. <i>Systematic and Applied Microbiology</i> , 2017, 40, 370-382.	2.8	83
29	Low diversity of planktonic bacteria in the tropical ocean. <i>Scientific Reports</i> , 2016, 6, 19054.	3.3	80
30	Biphasic cellular adaptations and ecological implications of <i>Alteromonas macleodii</i> degrading a mixture of algal polysaccharides. <i>ISME Journal</i> , 2019, 13, 92-103.	9.8	74
31	Prokaryotic Diversity and Community Patterns in Antarctic Continental Shelf Sponges. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	74
32	Large-Scale <sup>13</sup> C Flux Profiling Reveals Conservation of the Entner-Doudoroff Pathway as a Glycolytic Strategy among Marine Bacteria That Use Glucose. <i>Applied and Environmental Microbiology</i> , 2015, 81, 2408-2422.	3.1	73
33	Physical and biogeochemical controls of microaggregate dynamics in a tidally affected coastal ecosystem. <i>Limnology and Oceanography</i> , 2006, 51, 847-859.	3.1	71
34	Diversity and community composition of particle-associated and free-living bacteria in mesopelagic and bathypelagic Southern Ocean water masses: Evidence of dispersal limitation in the Bransfield Strait. <i>Limnology and Oceanography</i> , 2017, 62, 1080-1095.	3.1	71
35	Use of dissolved combined and free amino acids by planktonic bacteria in Lake Constance. <i>Limnology and Oceanography</i> , 1993, 38, 1521-1531.	3.1	70
36	Production of macroaggregates from dissolved exopolymeric substances (EPS) of bacterial and diatom origin. <i>FEMS Microbiology Ecology</i> , 2005, 53, 255-264.	2.7	70

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37	Biogeography and phylogenetic diversity of a cluster of exclusively marine myxobacteria. ISME Journal, 2012, 6, 1260-1272.	9.8	67
38	Composition of humic acid-degrading estuarine and marine bacterial communities. FEMS Microbiology Ecology, 2012, 80, 45-63.	2.7	62
39	Sources and sinks of dissolved free amino acids and protein in a large and deep mesotrophic lake. Limnology and Oceanography, 2001, 46, 644-654.	3.1	59
40	Dual function of tropodithietic acid as antibiotic and signaling molecule in global gene regulation of the probiotic bacterium <i>Phaeobacter inhibens</i> . Scientific Reports, 2017, 7, 730.	3.3	57
41	Diversity and abundance of Gram positive bacteria in a tidal flat ecosystem. Environmental Microbiology, 2007, 9, 1810-1822.	3.8	55
42	<i>Planktomarina temperata</i> gen. nov., sp. nov., belonging to the globally distributed RCA cluster of the marine <i>Roseobacter</i> clade, isolated from the German Wadden Sea. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 4207-4217.	1.7	55
43	Comparative genome analysis and genome-guided physiological analysis of <i>Roseobacter litoralis</i> . BMC Genomics, 2011, 12, 324.	2.8	54
44	Does the Chemodiversity of Bacterial Exometabolomes Sustain the Chemodiversity of Marine Dissolved Organic Matter?. Frontiers in Microbiology, 2019, 10, 215.	3.5	50
45	Genomic, metabolic and phenotypic variability shapes ecological differentiation and intraspecies interactions of <i>Alteromonas macleodii</i> . Scientific Reports, 2020, 10, 809.	3.3	48
46	Bacterial Consumption of Humic and Non-Humic Low and High Molecular Weight DOM and the Effect of Solar Irradiation on the Turnover of Labile DOM in the Southern Ocean. Microbial Ecology, 2005, 50, 90-101.	2.8	45
47	Bacterioplankton Biogeography of the Atlantic Ocean: A Case Study of the Distance-Decay Relationship. Frontiers in Microbiology, 2016, 7, 590.	3.5	45
48	A novel roseobacter phage possesses features of podoviruses, siphoviruses, prophages and gene transfer agents. Scientific Reports, 2016, 6, 30372.	3.3	43
49	Bacterioplankton turnover of dissolved free monosaccharides in a mesotrophic lake. Limnology and Oceanography, 1999, 44, 1862-1870.	3.1	41
50	Physiological diversity of <i>Roseobacter</i> clade bacteria co-occurring during a phytoplankton bloom in the North Sea. Systematic and Applied Microbiology, 2013, 36, 39-48.	2.8	41
51	Response of bacterial communities from California coastal waters to alginate particles and an alginolytic <i>Alteromonas macleodii</i> strain. Environmental Microbiology, 2016, 18, 4369-4377.	3.8	40
52	Different coupling of dissolved amino acid, protein, and carbohydrate turnover to heterotrophic picoplankton production in the Southern Ocean in austral summer and fall. Limnology and Oceanography, 2007, 52, 85-95.	3.1	37
53	Biogeography and environmental genomics of the <i>Roseobacter</i> -affiliated pelagic CHAB-I-5 lineage. Nature Microbiology, 2016, 1, 16063.	13.3	36
54	Linking Compositional and Functional Predictions to Decipher the Biogeochemical Significance in DFAA Turnover of Abundant Bacterioplankton Lineages in the North Sea. Microorganisms, 2017, 5, 68.	3.6	36

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55	Complementary energy acquisition via aerobic anoxygenic photosynthesis and carbon monoxide oxidation by <i>Planktomarina temperata</i> of the Roseobacter group. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	35
56	<i>Planktotalea frisia</i> gen. nov., sp. nov., isolated from the southern North Sea. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 1619-1624.	1.7	34
57	Description of <i>Octadecabacter temperatus</i> sp. nov., isolated from the southern North Sea, emended descriptions of the genus <i>Octadecabacter</i> and its species and reclassification of <i>Octadecabacter jejudonensis</i> Park and Yoon 2014 as <i>Pseudooctadecabacter jejudonensis</i> gen. nov., comb. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2015, 65, 1967-1974.	1.7	31
58	Composition of Total and Cell-Proliferating Bacterioplankton Community in Early Summer in the North Sea – Roseobacters Are the Most Active Component. <i>Frontiers in Microbiology</i> , 2017, 8, 1771.	3.5	30
59	Adaptations of <i>Alteromonas</i> sp. 76-1 to Polysaccharide Degradation: A CAZyme Plasmid for Ulvan Degradation and Two Algolytic Systems. <i>Frontiers in Microbiology</i> , 2019, 10, 504.	3.5	30
60	Cobaviruses – a new globally distributed phage group infecting <i>Rhodobacteraceae</i> in marine ecosystems. <i>ISME Journal</i> , 2019, 13, 1404-1421.	9.8	26
61	<i>Pelagimonas varians</i> gen. nov., sp. nov., isolated from the southern North Sea. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 835-843.	1.7	25
62	<i>Tritonibacter horizontis</i> gen. nov., sp. nov., a member of the <i>Rhodobacteraceae</i> , isolated from the Deepwater Horizon oil spill. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 736-744.	1.7	25
63	Tidal dynamics of dissolved and particulate matter and bacteria in a tidal flat ecosystem in spring and fall. <i>Limnology and Oceanography</i> , 2004, 49, 2212-2222.	3.1	24
64	<i>Phaeobacter inhibens</i> controls bacterial community assembly on a marine diatom. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	24
65	Significant bacterial transformation of riverine humic matter detected by pyrolysis GC-MS in serial chemostat experiments. <i>Marine Chemistry</i> , 2013, 149, 23-31.	2.3	22
66	<i>Phaeobacter porticola</i> sp. nov., an antibiotic-producing bacterium isolated from a sea harbour. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 2153-2159.	1.7	22
67	Coupling of epipelagic and mesopelagic heterotrophic picoplankton production to phytoplankton biomass in the Antarctic polar frontal region. <i>Limnology and Oceanography</i> , 2004, 49, 1035-1043.	3.1	21
68	Putative degraders of low-density polyethylene-derived compounds are ubiquitous members of plastic-associated bacterial communities in the marine environment. <i>Environmental Microbiology</i> , 2020, 22, 4779-4793.	3.8	21
69	Differential decomposition of humic acids by marine and estuarine bacterial communities at varying salinities. <i>Biogeochemistry</i> , 2012, 111, 331-346.	3.5	20
70	Significance of gene variants for the functional biogeography of the near-surface Atlantic Ocean microbiome. <i>Nature Communications</i> , 2022, 13, 456.	12.8	18
71	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
72	Substrate Use of <i>Pseudovibrio</i> sp. Growing in Ultra-Oligotrophic Seawater. <i>PLoS ONE</i> , 2015, 10, e0121675.	2.5	17

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73	Sweet spheres: succession and <i>CAZyme</i> expression of marine bacterial communities colonizing a mix of alginate and pectin particles. <i>Environmental Microbiology</i> , 2021, 23, 3130-3148.	3.8	17
74	Short-term dynamics of bacterial communities in a tidally affected coastal ecosystem. <i>FEMS Microbiology Ecology</i> , 2008, 66, 306-319.	2.7	15
75	A sea change in microbial enzymes: Heterogeneous latitudinal and depth-related gradients in bulk water and particle-associated enzymatic activities from 30°S to 59°N in the Pacific Ocean. <i>Limnology and Oceanography</i> , 2021, 66, 3489-3507.	3.1	14
76	CAZymes in <i>Maribacter dokdonensis</i> 62-1 From the Patagonian Shelf: Genomics and Physiology Compared to Related Flavobacteria and a Co-occurring <i>Alteromonas</i> Strain. <i>Frontiers in Microbiology</i> , 2021, 12, 628055.	3.5	13
77	The Microbiome of the Medicinal Plants <i>Achillea millefolium</i> L. and <i>Hamamelis virginiana</i> L.. <i>Frontiers in Microbiology</i> , 2021, 12, 696398.	3.5	13
78	Genome sequence of <i>Phaeobacter daeponensis</i> type strain (DSM 23529T), a facultatively anaerobic bacterium isolated from marine sediment, and emendation of <i>Phaeobacter daeponensis</i> . <i>Standards in Genomic Sciences</i> , 2013, 9, 142-159.	1.5	12
79	Availability of vitamin B12 and its lower ligand intermediate $\hat{\pm}$ -ribazole impact prokaryotic and protist communities in oceanic systems. <i>ISME Journal</i> , 2022, 16, 2002-2014.	9.8	12
80	Spatio-temporal dynamics of suspended matter properties and bacterial communities in the back-barrier tidal flat system of Spiekeroog Island. <i>Ocean Dynamics</i> , 2009, 59, 277-290.	2.2	11
81	Dimethylsulfoniopropionate Promotes Process Outgrowth in Neural Cells and Exerts Protective Effects against Tropicodithietic Acid. <i>Marine Drugs</i> , 2016, 14, 89.	4.6	10
82	Surface selection, adhesion, and retention behavior of marine bacteria on synthetic organic surfaces using self-assembled monolayers and atomic force microscopy. <i>Ocean Dynamics</i> , 2009, 59, 305-315.	2.2	9
83	Cytotoxic Effects of Tropicodithietic Acid on Mammalian Clonal Cell Lines of Neuronal and Glial Origin. <i>Marine Drugs</i> , 2015, 13, 7113-7123.	4.6	9
84	Editorial: Molecular Ecology and Genetic Diversity of the Roseobacter Clade. <i>Frontiers in Microbiology</i> , 2018, 9, 1185.	3.5	9
85	Genome sequence and emended description of <i>Leisingera nanhaiensis</i> strain DSM 24252T isolated from marine sediment. <i>Standards in Genomic Sciences</i> , 2014, 9, 585-601.	1.5	8
86	Microbial Growth and Organic Matter Cycling in the Pacific Ocean Along a Latitudinal Transect Between Subarctic and Subantarctic Waters. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	8
87	A new sampling device for microaggregates in turbid aquatic systems. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 387-397.	2.0	7
88	Cultivable bacteria from bulk water, aggregates, and surface sediments of a tidal flat ecosystem. <i>Ocean Dynamics</i> , 2009, 59, 291-304.	2.2	7
89	Temperature effects on aggregation during a spring diatom bloom. <i>Limnology and Oceanography</i> , 2014, 59, 2089-2100.	3.1	7
90	Lipidomic Analysis of Roseobacters of the Pelagic RCA Cluster and Their Response to Phosphorus Limitation. <i>Frontiers in Microbiology</i> , 2020, 11, 552135.	3.5	7

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91	Distinct biogeographic patterns of bacterioplankton composition and single-cell activity between the subtropics and Antarctica. <i>Environmental Microbiology</i> , 2018, 20, 3100-3108.	3.8	6
92	Biodegradability of hydrothermally altered deep-sea dissolved organic matter. <i>Marine Chemistry</i> , 2019, 217, 103706.	2.3	6
93	Genome sequence of <i>Planktotalea frisia</i> type strain (SH6-1T), a representative of the <i>Roseobacter</i> group isolated from the North Sea during a phytoplankton bloom. <i>Standards in Genomic Sciences</i> , 2018, 13, 7.	1.5	5
94	Biogeochemical thallium cycling during a mesocosm phytoplankton spring bloom: Biotic versus abiotic drivers. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 313, 257-276.	3.9	5
95	Composition and Biogeography of Planktonic Pro- and Eukaryotic Communities in the Atlantic Ocean: Primer Choice Matters. <i>Frontiers in Microbiology</i> , 0, 13, .	3.5	5
96	Distinct relationships between fluorescence in situ hybridization and 16S rRNA gene- and amplicon-based sequencing data of bacterioplankton lineages. <i>Systematic and Applied Microbiology</i> , 2019, 42, 126000.	2.8	3
97	Closed Genome Sequence of <i>Octadecabacter temperatus</i> SB1, the First Mesophilic Species of the Genus <i>Octadecabacter</i> . <i>Genome Announcements</i> , 2015, 3, .	0.8	2
98	Marine microbiology: Roommates in space and time. <i>Nature Microbiology</i> , 2017, 2, 17122.	13.3	1