

# 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	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
2	Availability of vitamin B12 and its lower ligand intermediate 1 $\pm$ -ribazole impact prokaryotic and protist communities in oceanic systems. <i>ISME Journal</i> , 2022, 16, 2002-2014.	9.8	12
3	CAZymes in <i>Maribacter dokdonensis</i> 62 $\hat{c}$ 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
4	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
5	A sea change in microbial enzymes: Heterogeneous latitudinal and depth-related gradients in bulk water and particle-associated enzymatic activities from 30 $\hat{S}$ to 59 $\hat{N}$ in the Pacific Ocean. <i>Limnology and Oceanography</i> , 2021, 66, 3489-3507.	3.1	14
6	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
7	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
8	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
9	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
10	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
11	Genomic, metabolic and phenotypic variability shapes ecological differentiation and intraspecies interactions of <i>Alteromonas macleodii</i> . <i>Scientific Reports</i> , 2020, 10, 809.	3.3	48
12	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
13	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
14	Biodegradability of hydrothermally altered deep-sea dissolved organic matter. <i>Marine Chemistry</i> , 2019, 217, 103706.	2.3	6
15	Prokaryotic Diversity and Community Patterns in Antarctic Continental Shelf Sponges. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	74
16	<i>Phaeobacter inhibens</i> controls bacterial community assembly on a marine diatom. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	24
17	Complementary energy acquisition via aerobic anoxygenic photosynthesis and carbon monoxide oxidation by <i>Planktomarina temperata</i> of the <i>Roseobacter</i> group. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	2.7	35
18	Adaptations of <i>Alteromonas</i> sp. 76-1 to Polysaccharide Degradation: A <i>CAZyme</i> Plasmid for Ulvan Degradation and Two Alginolytic Systems. <i>Frontiers in Microbiology</i> , 2019, 10, 504.	3.5	30

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19	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
20	Does the Chemodiversity of Bacterial Exometabolomes Sustain the Chemodiversity of Marine Dissolved Organic Matter?. <i>Frontiers in Microbiology</i> , 2019, 10, 215.	3.5	50
21	Editorial: Molecular Ecology and Genetic Diversity of the Roseobacter Clade. <i>Frontiers in Microbiology</i> , 2018, 9, 1185.	3.5	9
22	Genome sequence of <i>Planktotalea frisia</i> type strain (SH6-1T), a representative of the Roseobacter group isolated from the North Sea during a phytoplankton bloom. <i>Standards in Genomic Sciences</i> , 2018, 13, 7.	1.5	5
23	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
24	<i>Tritonibacter horizontis</i> gen. nov., sp. nov., a member of the Rhodobacteraceae, isolated from the Deepwater Horizon oil spill. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018, 68, 736-744.	1.7	25
25	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
26	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
27	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
28	Marine microbiology: Roommates in space and time. <i>Nature Microbiology</i> , 2017, 2, 17122.	13.3	1
29	Dual function of tropodithietic acid as antibiotic and signaling molecule in global gene regulation of the probiotic bacterium <i>Phaeobacter inhibens</i> . <i>Scientific Reports</i> , 2017, 7, 730.	3.3	57
30	Linking Compositional and Functional Predictions to Decipher the Biogeochemical Significance in DFAA Turnover of Abundant Bacterioplankton Lineages in the North Sea. <i>Microorganisms</i> , 2017, 5, 68.	3.6	36
31	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
32	The Exometabolome of Two Model Strains of the Roseobacter Group: A Marketplace of Microbial Metabolites. <i>Frontiers in Microbiology</i> , 2017, 8, 1985.	3.5	96
33	<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
34	Bacterioplankton Biogeography of the Atlantic Ocean: A Case Study of the Distance-Decay Relationship. <i>Frontiers in Microbiology</i> , 2016, 7, 590.	3.5	45
35	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
36	Dimethylsulfoniopropionate Promotes Process Outgrowth in Neural Cells and Exerts Protective Effects against Tropodithietic Acid. <i>Marine Drugs</i> , 2016, 14, 89.	4.6	10

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37	Response of bacterial communities from California coastal waters to alginate particles and an alginolytic <i>Alteromonas macleodii</i> strain. <i>Environmental Microbiology</i> , 2016, 18, 4369-4377.	3.8	40
38	A novel roseobacter phage possesses features of podoviruses, siphoviruses, prophages and gene transfer agents. <i>Scientific Reports</i> , 2016, 6, 30372.	3.3	43
39	Low diversity of planktonic bacteria in the tropical ocean. <i>Scientific Reports</i> , 2016, 6, 19054.	3.3	80
40	Biogeography and environmental genomics of the Roseobacter-affiliated pelagic CHAB-I-5 lineage. <i>Nature Microbiology</i> , 2016, 1, 16063.	13.3	36
41	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
42	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
43	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
44	Cytotoxic Effects of Tropodithietic Acid on Mammalian Clonal Cell Lines of Neuronal and Glial Origin. <i>Marine Drugs</i> , 2015, 13, 7113-7123.	4.6	9
45	Substrate Use of <i>Pseudovibrio</i> sp. Growing in Ultra-Oligotrophic Seawater. <i>PLoS ONE</i> , 2015, 10, e0121675.	2.5	17
46	Inefficient microbial production of refractory dissolved organic matter in the ocean. <i>Nature Communications</i> , 2015, 6, 7422.	12.8	166
47	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
48	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
49	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
50	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
51	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
52	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
53	Biogeochemistry of dissolved organic matter in an anoxic intertidal creek bank. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 418-434.	3.9	218
54	Temperature effects on aggregation during a spring diatom bloom. <i>Limnology and Oceanography</i> , 2014, 59, 2089-2100.	3.1	7

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55	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
56	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
57	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
58	Physiological diversity of <i>Roseobacter</i> clade bacteria co-occurring during a phytoplankton bloom in the North Sea. <i>Systematic and Applied Microbiology</i> , 2013, 36, 39-48.	2.8	41
59	<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
60	<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. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 4207-4217.	1.7	55
61	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
62	Biogeography and phylogenetic diversity of a cluster of exclusively marine myxobacteria. <i>ISME Journal</i> , 2012, 6, 1260-1272.	9.8	67
63	<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
64	Differential decomposition of humic acids by marine and estuarine bacterial communities at varying salinities. <i>Biogeochemistry</i> , 2012, 111, 331-346.	3.5	20
65	<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
66	Composition of humic acid-degrading estuarine and marine bacterial communities. <i>FEMS Microbiology Ecology</i> , 2012, 80, 45-63.	2.7	62
67	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
68	Comparative genome analysis and genome-guided physiological analysis of <i>Roseobacter litoralis</i> . <i>BMC Genomics</i> , 2011, 12, 324.	2.8	54
69	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
70	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
71	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
72	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

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73	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
74	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
75	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
76	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
77	Short-term dynamics of bacterial communities in a tidally affected coastal ecosystem. <i>FEMS Microbiology Ecology</i> , 2008, 66, 306-319.	2.7	15
78	Different coupling of dissolved amino acid, protein, and carbohydrate turnover to heterotrophic picoplankton production in the Southern Ocean in austral summer and fall. <i>Limnology and Oceanography</i> , 2007, 52, 85-95.	3.1	37
79	Diversity and abundance of Gram positive bacteria in a tidal flat ecosystem. <i>Environmental Microbiology</i> , 2007, 9, 1810-1822.	3.8	55
80	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
81	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
82	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
83	Marine diatom species harbour distinct bacterial communities. <i>Environmental Microbiology</i> , 2005, 7, 860-873.	3.8	526
84	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
85	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
86	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. <i>Microbial Ecology</i> , 2005, 50, 90-101.	2.8	45
87	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
88	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
89	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
90	A newly discovered <i>Roseobacter</i> cluster in temperate and polar oceans. <i>Nature</i> , 2004, 427, 445-448.	27.8	233

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91	Antagonistic activity of bacteria isolated from organic aggregates of the German Wadden Sea. FEMS Microbiology Ecology, 2004, 47, 387-396.	2.7	141
92	Coupling of epipelagic and mesopelagic heterotrophic picoplankton production to phytoplankton biomass in the Antarctic polar frontal region. Limnology and Oceanography, 2004, 49, 1035-1043.	3.1	21
93	A new sampling device for microaggregates in turbid aquatic systems. Limnology and Oceanography: Methods, 2004, 2, 387-397.	2.0	7
94	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
95	Bacterioplankton turnover of dissolved free monosaccharides in a mesotrophic lake. Limnology and Oceanography, 1999, 44, 1862-1870.	3.1	41
96	Use of dissolved combined and free amino acids by planktonic bacteria in Lake Constance. Limnology and Oceanography, 1993, 38, 1521-1531.	3.1	70
97	Intense hydrolytic enzyme activity on marine aggregates and implications for rapid particle dissolution. Nature, 1992, 359, 139-142.	27.8	889
98	Composition and Biogeography of Planktonic Pro- and Eukaryotic Communities in the Atlantic Ocean: Primer Choice Matters. Frontiers in Microbiology, 0, 13, .	3.5	5