

Koen Sabbe

List of Publications by Year in descending order

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92
papers

4,433
citations

94433

37
h-index

123424

61
g-index

96
all docs

96
docs citations

96
times ranked

4226
citing authors

#	ARTICLE	IF	CITATIONS
1	Selection constrains lottery assembly in the microbiomes of closely related diatom species. ISME Communications, 2022, 2, .	4.2	11
2	Optical and biogeochemical properties of diverse Belgian inland and coastal waters. Earth System Science Data, 2022, 14, 2697-2719.	9.9	10
3	Mating type specific transcriptomic response to sex inducing pheromone in the pennate diatom <i>Seminavis robusta</i> . ISME Journal, 2021, 15, 562-576.	9.8	17
4	Diatoms define a novel freshwater biogeography of the Antarctic. Ecography, 2021, 44, 548-560.	4.5	41
5	Effect of pluronic block polymers and N-acetylcysteine culture media additives on growth rate and fatty acid composition of six marine microalgae species. Applied Microbiology and Biotechnology, 2021, 105, 2139-2156.	3.6	2
6	Seasonal Variations in Flocculation and Erosion Affecting the Large Scale Suspended Sediment Distribution in the Scheldt Estuary: The Importance of Biotic Effects. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016805.	2.6	3
7	Mitotic recombination between homologous chromosomes drives genomic diversity in diatoms. Current Biology, 2021, 31, 3221-3232.e9.	3.9	29
8	Extinction of austral diatoms in response to large-scale climate dynamics in Antarctica. Science Advances, 2021, 7, eabh3233.	10.3	10
9	Light intensity and spectral composition drive reproductive success in the marine benthic diatom <i>Seminavis robusta</i> . Scientific Reports, 2021, 11, 17560.	3.3	4
10	Biodegradable, metal-chelating compounds as alternatives to EDTA for cultivation of marine microalgae. Journal of Applied Phycology, 2021, 33, 3519-3537.	2.8	3
11	Changes in chlorophyll concentration and phenology in the North Sea in relation to deoxygenation and sea surface warming. Limnology and Oceanography, 2020, 65, 828-847.	3.1	38
12	Global radiation in a rare biosphere soil diatom. Nature Communications, 2020, 11, 2382.	12.8	43
13	Extending Landsat 8: Retrieval of an Orange contra-Band for Inland Water Quality Applications. Remote Sensing, 2020, 12, 637.	4.0	20
14	The <i>Seminavis robusta</i> genome provides insights into the evolutionary adaptations of benthic diatoms. Nature Communications, 2020, 11, 3320.	12.8	55
15	Marked changes in diatom and dinoflagellate biomass, composition and seasonality in the Belgian Part of the North Sea between the 1970s and 2000s. Science of the Total Environment, 2020, 716, 136316.	8.0	25
16	<i>Leeuwenhoekiella aestuarii</i> sp. nov., isolated from salt-water sediment and first insights in the genomes of <i>Leeuwenhoekiella</i> species. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 1706-1719.	1.7	24
17	Host specificity in diatom-bacteria interactions alleviates antagonistic effects. FEMS Microbiology Ecology, 2019, 95, .	2.7	33
18	<i>N</i> -Acyl Homoserine Lactone Derived Tetramic Acids Impair Photosynthesis in <i>Phaeodactylum tricorutum</i> . ACS Chemical Biology, 2019, 14, 198-203.	3.4	29

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19	Thermal Niche Differentiation in the Benthic Diatom <i>Cylindrotheca closterium</i> (Bacillariophyceae) Complex. <i>Frontiers in Microbiology</i> , 2019, 10, 1395.	3.5	21
20	Diatom-Bacteria Interactions Modulate the Composition and Productivity of Benthic Diatom Biofilms. <i>Frontiers in Microbiology</i> , 2019, 10, 1255.	3.5	59
21	Tolerance of pennate diatoms (Bacillariophyceae) to experimental freezing: comparison of polar and temperate strains. <i>Phycologia</i> , 2019, 58, 382-392.	1.4	32
22	Uncertainty in global downwelling plane irradiance estimates from sintered polytetrafluoroethylene plaque radiance measurements. <i>Applied Optics</i> , 2019, 58, 4497.	1.8	13
23	Behavioural versus physiological photoprotection in epipelagic and epipsammic benthic diatoms. <i>European Journal of Phycology</i> , 2018, 53, 146-155.	2.0	30
24	Expanding the toolbox for cryopreservation of marine and freshwater diatoms. <i>Scientific Reports</i> , 2018, 8, 4279.	3.3	24
25	Seasonal changes in the biochemical fate of carbon fixed by benthic diatoms in intertidal sediments. <i>Limnology and Oceanography</i> , 2018, 63, 550-569.	3.1	11
26	Indications of Dynamic Effects on Scaling Relationships Between Channel Sinuosity and Vegetation Patch Size Across a Salt Marsh Platform. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 2714-2731.	2.8	19
27	Incomplete Reproductive Isolation Between Genetically Distinct Sympatric Clades of the Pennate Model Diatom <i>Seminavis robusta</i> . <i>Protist</i> , 2018, 169, 569-583.	1.5	19
28	Nematodes stimulate biomass accumulation in a multispecies diatom biofilm. <i>Marine Environmental Research</i> , 2018, 140, 78-89.	2.5	31
29	Selective and context-dependent effects of chemical stress across trophic levels at the basis of marine food webs. <i>Ecological Applications</i> , 2018, 28, 1342-1353.	3.8	6
30	Marine phytoplankton community composition data from the Belgian part of the North Sea, 1968–2010. <i>Scientific Data</i> , 2018, 5, 180126.	5.3	8
31	Impact of <i>Acanthamoeba</i> Cysts on Stress Resistance of <i>Salmonella enterica</i> Serovar Typhimurium, <i>Yersinia enterocolitica</i> 4/O:3, <i>Listeria monocytogenes</i> 1/2a, and <i>Escherichia coli</i> O:26. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	7
32	Different response-effect trait relationships underlie contrasting responses to two chemical stressors. <i>Journal of Ecology</i> , 2017, 105, 1598-1609.	4.0	15
33	Contrasting NPQ dynamics and xanthophyll cycling in a motile and a non-motile intertidal benthic diatom. <i>Limnology and Oceanography</i> , 2017, 62, 1466-1479.	3.1	32
34	Synergistic Interactions within a Multispecies Biofilm Enhance Individual Species Protection against Grazing by a Pelagic Protozoan. <i>Frontiers in Microbiology</i> , 2017, 8, 2649.	3.5	52
35	Biodiversity increases functional and compositional resistance, but decreases resilience in phytoplankton communities. <i>Ecology</i> , 2016, 97, 3433-3440.	3.2	63
36	Per capita interactions and stress tolerance drive stress-induced changes in biodiversity effects on ecosystem functions. <i>Nature Communications</i> , 2016, 7, 12486.	12.8	54

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37	A sex-inducing pheromone triggers cell cycle arrest and mate attraction in the diatom <i>Seminavis robusta</i> . <i>Scientific Reports</i> , 2016, 6, 19252.	3.3	76
38	Bacterial and eukaryotic biodiversity patterns in terrestrial and aquatic habitats in the S�r Rondane Mountains, Dronning Maud Land, East Antarctica. <i>FEMS Microbiology Ecology</i> , 2016, 92, fiw041.	2.7	30
39	Transmission electron microscopy sample preparation protocols for the ultrastructural study of cysts of free-living protozoa. <i>BioTechniques</i> , 2015, 58, 181-188.	1.8	10
40	Protozoan Cysts Act as a Survival Niche and Protective Shelter for Foodborne Pathogenic Bacteria. <i>Applied and Environmental Microbiology</i> , 2015, 81, 5604-5612.	3.1	40
41	Temporal dynamics in a shallow coastal benthic food web: Insights from fatty acid biomarkers and their stable isotopes. <i>Marine Environmental Research</i> , 2015, 108, 55-68.	2.5	19
42	Stressor�induced biodiversity gradients: revisiting biodiversity�ecosystem functioning relationships. <i>Oikos</i> , 2015, 124, 677-684.	2.7	22
43	Growth form defines physiological photoprotective capacity in intertidal benthic diatoms. <i>ISME Journal</i> , 2015, 9, 32-45.	9.8	98
44	A Doubling of Microphytobenthos Biomass Coincides with a Tenfold Increase in Denitrifier and Total Bacterial Abundances in Intertidal Sediments of a Temperate Estuary. <i>PLoS ONE</i> , 2015, 10, e0126583.	2.5	43
45	The Link between Microbial Diversity and Nitrogen Cycling in Marine Sediments Is Modulated by Macrofaunal Bioturbation. <i>PLoS ONE</i> , 2015, 10, e0130116.	2.5	50
46	Interactions between Benthic Copepods, Bacteria and Diatoms Promote Nitrogen Retention in Intertidal Marine Sediments. <i>PLoS ONE</i> , 2014, 9, e111001.	2.5	27
47	Diatom feeding across trophic guilds in tidal flat nematodes, and the importance of diatom cell size. <i>Journal of Sea Research</i> , 2014, 92, 125-133.	1.6	41
48	Assessing the impact of beach nourishment on the intertidal food web through the development of a mechanistic�envelope model. <i>Journal of Applied Ecology</i> , 2014, 51, 1304-1313.	4.0	6
49	Absence of a Medieval Climate Anomaly, Little Ice Age and twentieth century warming in Skarvsnes, L�tzow Holm Bay, East Antarctica. <i>Antarctic Science</i> , 2014, 26, 585-598.	0.9	18
50	Molecular Evidence for Distinct Antarctic Lineages in the Cosmopolitan Terrestrial Diatoms <i>Pinnularia borealis</i> and <i>Hantzschia amphioxys</i> . <i>Protist</i> , 2013, 164, 101-115.	1.5	83
51	Metabolomics Enables the Structure Elucidation of a Diatom Sex Pheromone. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 854-857.	13.8	122
52	Heterothallic sexual reproduction in the model diatom <i>Cylindrotheca</i> . <i>European Journal of Phycology</i> , 2013, 48, 93-105.	2.0	28
53	Tolerance of resting cells of freshwater and terrestrial benthic diatoms to experimental desiccation and freezing is habitat-dependent. <i>Phycologia</i> , 2013, 52, 246-255.	1.4	71
54	Revision of the genus <i>Navicula</i> s.s. (Bacillariophyceae) in inland waters of the Sub-Antarctic and Antarctic with the description of five new species. <i>Phycologia</i> , 2011, 50, 281-297.	1.4	41

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55	A time-calibrated multi-gene phylogeny of the diatom genus <i>Pinnularia</i> . <i>Molecular Phylogenetics and Evolution</i> , 2011, 61, 866-879.	2.7	45
56	Limits to gene flow in a cosmopolitan marine planktonic diatom. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12952-12957.	7.1	206
57	Tolerance of benthic diatoms from temperate aquatic and terrestrial habitats to experimental desiccation and temperature stress. <i>Phycologia</i> , 2010, 49, 309-324.	1.4	100
58	FOUR NEW NON-MARINE DIATOM TAXA FROM THE SUBANTARCTIC AND ANTARCTIC REGIONS. <i>Diatom Research</i> , 2010, 25, 431-443.	1.2	35
59	Lack of population genetic structuring in the marine planktonic diatom <i>Pseudo-nitzschia pungens</i> (Bacillariophyceae) in a heterogeneous area in the Southern Bight of the North Sea. <i>Marine Biology</i> , 2009, 156, 1149-1158.	1.5	36
60	Complementarity effects drive positive diversity effects on biomass production in experimental benthic diatom biofilms. <i>Journal of Ecology</i> , 2009, 97, 1075-1082.	4.0	77
61	ECOLOGICAL DIFFERENTIATION BETWEEN SYMPATRIC PSEUDOCRYPTIC SPECIES IN THE ESTUARINE BENTHIC DIATOM <i>NAVICULA PHYLLEPTA</i> (BACILLARIOPHYCEAE). <i>Journal of Phycology</i> , 2009, 45, 1278-1289.	2.3	82
62	Ground-truthing Late Ordovician climate models using the paleobiogeography of graptolites. <i>Paleoceanography</i> , 2009, 24, .	3.0	47
63	Morphological, genetic and mating diversity within the widespread bioindicator <i>Nitzschia palea</i> (Bacillariophyceae). <i>Phycologia</i> , 2009, 48, 443-459.	1.4	129
64	Late Quaternary climatic changes in southern Chile, as recorded in a diatom sequence of Lago Puyehue (40°S). <i>Journal of Paleolimnology</i> , 2008, 39, 219-235.	1.6	27
65	The Belgian sandy beach ecosystem: a review. <i>Marine Ecology</i> , 2008, 29, 171-185.	1.1	28
66	Physiological and Transcriptomic Evidence for a Close Coupling between Chloroplast Ontogeny and Cell Cycle Progression in the Pennate Diatom <i>Seminavis robusta</i> . <i>Plant Physiology</i> , 2008, 148, 1394-1411.	4.8	65
67	THE SYSTEMATICS OF A SMALL SPINELESS DESMODESMUS SPECIES, D. <i>COSTATO-GRANULATUS</i> (SPHAEROPLEALES, CHLOROPHYCEAE), BASED ON ITS 2 rDNA SEQUENCE ANALYSES AND CELL WALL MORPHOLOGY. <i>Journal of Phycology</i> , 2007, 43, 378-396.	2.3	62
68	OOGAMOUS REPRODUCTION, WITH TWO-STEP AUXOSPORULATION, IN THE CENTRIC DIATOM <i>THALASSIOSIRA PUNCTIGERA</i> (BACILLARIOPHYTA). <i>Journal of Phycology</i> , 2006, 42, 845-858.	2.3	30
69	USING QUANTITATIVE PCR TO DETERMINE THE DISTRIBUTION OF A SEMICRYPTIC BENTHIC DIATOM, <i>NAVICULA PHYLLEPTA</i> (BACILLARIOPHYCEAE). <i>Journal of Phycology</i> , 2006, 42, 1142-1154.	2.3	43
70	Beach nourishment: an ecologically sound coastal defence alternative? A review. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2006, 16, 419-435.	2.0	169
71	Relative sea-level history from the Lambert Glacier region, East Antarctica, and its relation to deglaciation and Holocene glacier readvance. <i>Quaternary Research</i> , 2005, 63, 45-52.	1.7	67
72	Late Quaternary climate-driven environmental change in the Larsemann Hills, East Antarctica, multi-proxy evidence from a lake sediment core. <i>Quaternary Research</i> , 2005, 64, 83-99.	1.7	99

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73	Late Holocene changes in ultraviolet radiation penetration recorded in an East Antarctic lake. <i>Journal of Paleolimnology</i> , 2005, 34, 191-202.	1.6	31
74	Sexual reproduction, mating system, chloroplast dynamics and abrupt cell size reduction in <i>Pseudo-nitzschia pungens</i> from the North Sea (Bacillariophyta). <i>European Journal of Phycology</i> , 2005, 40, 379-395.	2.0	71
75	Apomixis in <i>Achnanthes</i> (Bacillariophyceae); development of a model system for diatom reproductive biology. <i>European Journal of Phycology</i> , 2004, 39, 327-341.	2.0	34
76	Evidence for constant and highly specific active food selection by benthic ciliates in mixed diatoms assemblages. <i>Limnology and Oceanography</i> , 2004, 49, 58-68.	3.1	39
77	Salinity, depth and the structure and composition of microbial mats in continental Antarctic lakes. <i>Freshwater Biology</i> , 2004, 49, 296-319.	2.4	104
78	Late Quaternary deglaciation and climate history of the Larsemann Hills (East Antarctica). <i>Journal of Quaternary Science</i> , 2004, 19, 361-375.	2.1	67
79	New <i>Gomphonema</i> (Bacillariophyta) species from Tasmania. <i>Phycologia</i> , 2004, 43, 427-444.	1.4	24
80	Experimental Studies on Sexual Reproduction in Diatoms. <i>International Review of Cytology</i> , 2004, 237, 91-154.	6.2	248
81	Quantifying habitat-specific diatom production: A critical assessment using morphological and biogeochemical markers in Antarctic marine and lake sediments. <i>Limnology and Oceanography</i> , 2004, 49, 1528-1539.	3.1	20
82	Title is missing!. <i>Journal of Paleolimnology</i> , 2003, 30, 195-215.	1.6	67
83	Benthic diatom flora of freshwater and saline lakes in the Larsemann Hills and Rauer Islands, East Antarctica. <i>Antarctic Science</i> , 2003, 15, 227-248.	0.9	171
84	New species of <i>Fragilariforma</i> (Bacillariophyceae) from New Zealand and Australia. <i>New Zealand Journal of Botany</i> , 2003, 41, 535-554.	1.1	25
85	SEXUAL REPRODUCTION, MATING SYSTEM, AND PROTOPLAST DYNAMICS OF SEMINAVIS (BACILLARIOPHYCEAE) 1. <i>Journal of Phycology</i> , 2002, 38, 1004-1019.	2.3	93
86	Six new <i>Actinella</i> (Bacillariophyta) species from Papua New Guinea, Australia and New Zealand: further evidence for widespread diatom endemism in the Australasian region. <i>European Journal of Phycology</i> , 2001, 36, 321-340.	2.0	75
87	Dynamics and trophic roles of heterotrophic protists in the plankton of a freshwater tidal estuary. <i>Hydrobiologia</i> , 2000, 432, 25-36.	2.0	28
88	EFFECTS OF DEPTH, SALINITY, AND SUBSTRATE ON THE INVERTEBRATE COMMUNITY OF A FLUCTUATING TROPICAL LAKE. <i>Ecology</i> , 2000, 81, 164-182.	3.2	106
89	New and little-known <i>Fallacia</i> species (Bacillariophyta) from brackish and marine intertidal sandy sediments in Northwest Europe and North America. <i>Phycologia</i> , 1999, 38, 8-22.	1.4	18
90	<i>Eunophora</i> gen. nov. (Bacillariophyta) from Tasmania and New Zealand: description and comparison with <i>Eunotia</i> and amphoroid diatoms. <i>European Journal of Phycology</i> , 1998, 33, 95-111.	2.0	73

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91	Five new freshwater species of <i>Biremis</i> (Bacillariophyta) from Tasmania. <i>Phycologia</i> , 1997, 36, 91-102.	1.4	24
92	Taxonomy, morphology and ecology of some widespread representatives of the diatom genus <i>Opephora</i> . <i>European Journal of Phycology</i> , 1995, 30, 235-249.	2.0	38