

Bank M Beszteri

List of Publications by Year in descending order

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49
papers

5,055
citations

257450

24
h-index

223800

46
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51
all docs

51
docs citations

51
times ranked

6295
citing authors

#	ARTICLE	IF	CITATIONS
1	The Phaeodactylum genome reveals the evolutionary history of diatom genomes. <i>Nature</i> , 2008, 456, 239-244.	27.8	1,458
2	The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. <i>PLoS Biology</i> , 2014, 12, e1001889.	5.6	885
3	The Ectocarpus genome and the independent evolution of multicellularity in brown algae. <i>Nature</i> , 2010, 465, 617-621.	27.8	774
4	Genomic Footprints of a Cryptic Plastid Endosymbiosis in Diatoms. <i>Science</i> , 2009, 324, 1724-1726.	12.6	370
5	High-resolution SAR11 ecotype dynamics at the Bermuda Atlantic Time-series Study site by phylogenetic placement of pyrosequences. <i>ISME Journal</i> , 2013, 7, 1322-1332.	9.8	191
6	PHENOTYPIC VARIATION AND GENOTYPIC DIVERSITY IN A PLANKTONIC POPULATION OF THE TOXIGENIC MARINE DINOFLAGELLATE ALEXANDRIUM TAMARENSE (DINOPHYCEAE)1. <i>Journal of Phycology</i> , 2010, 46, 18-32.	2.3	102
7	Ribosomal DNA Sequence Variation among Sympatric Strains of the <i>Cyclotella meneghiniana</i> Complex (Bacillariophyceae) Reveals Cryptic Diversity. <i>Protist</i> , 2005, 156, 317-333.	1.5	100
8	The model marine diatom <i>Thalassiosira pseudonana</i> likely descended from a freshwater ancestor in the genus <i>Cyclotella</i> . <i>BMC Evolutionary Biology</i> , 2011, 11, 125.	3.2	83
9	Implications of life-history transitions on the population genetic structure of the toxigenic marine dinoflagellate <i>Alexandrium tamarense</i> . <i>Molecular Ecology</i> , 2009, 18, 2122-2133.	3.9	66
10	Average genome size: a potential source of bias in comparative metagenomics. <i>ISME Journal</i> , 2010, 4, 1075-1077.	9.8	64
11	Novel Insights into Evolution of Protistan Polyketide Synthases through Phylogenomic Analysis. <i>Protist</i> , 2008, 159, 21-30.	1.5	63
12	<i>Thalassiosira</i> species (Bacillariophyceae, Thalassiosirales) in the North Sea at Helgoland (German Bight) and Sylt (North Frisian Wadden Sea) – a first approach to assessing diversity. <i>European Journal of Phycology</i> , 2007, 42, 271-288.		61
13	Conventional and geometric morphometric studies of valve ultrastructural variation in two closely related <i>Cyclotella</i> species (Bacillariophyta). <i>European Journal of Phycology</i> , 2005, 40, 89-103.	2.0	59
14	An assessment of cryptic genetic diversity within the <i>Cyclotella meneghiniana</i> species complex (Bacillariophyta) based on nuclear and plastid genes, and amplified fragment length polymorphisms. <i>European Journal of Phycology</i> , 2007, 42, 47-60.	2.0	58
15	A new class of ice-binding proteins discovered in a salt-stress-induced cDNA library of the psychrophilic diatom <i>Fragilariopsis cylindrus</i> (Bacillariophyceae). <i>European Journal of Phycology</i> , 2008, 43, 423-433.	2.0	56
16	Utility of Amplified Fragment Length Polymorphisms (AFLP) to Analyse Genetic Structures within the <i>Alexandrium tamarense</i> Species Complex. <i>Protist</i> , 2004, 155, 169-179.	1.5	51
17	SHERPA: an image segmentation and outline feature extraction tool for diatoms and other objects. <i>BMC Bioinformatics</i> , 2014, 15, 218.	2.6	44
18	STAMP: Extensions to the STADEN sequence analysis package for high throughput interactive microsatellite marker design. <i>BMC Bioinformatics</i> , 2009, 10, 41.	2.6	40

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19	Repositories for Taxonomic Data: Where We Are and What is Missing. <i>Systematic Biology</i> , 2020, 69, 1231-1253.	5.6	38
20	Morphologic and genetic characterization of <i>Onchocerca lupi</i> infecting dogs. <i>Veterinary Parasitology</i> , 2001, 102, 309-319.	1.8	37
21	Putative Monofunctional Type I Polyketide Synthase Units: A Dinoflagellate-Specific Feature?. <i>PLoS ONE</i> , 2012, 7, e48624.	2.5	36
22	PhyloGena a user-friendly system for automated phylogenetic annotation of unknown sequences. <i>Bioinformatics</i> , 2007, 23, 793-801.	4.1	31
23	rRNA and rDNA based assessment of sea ice protist biodiversity from the central Arctic Ocean. <i>European Journal of Phycology</i> , 2016, 51, 31-46.	2.0	31
24	The biogeographic differentiation of algal microbiomes in the upper ocean from pole to pole. <i>Nature Communications</i> , 2021, 12, 5483.	12.8	29
25	Phylogeny of six naviculoid diatoms based on 18S rDNA sequences.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2001, 51, 1581-1586.	1.7	28
26	Deep learning-based diatom taxonomy on virtual slides. <i>Scientific Reports</i> , 2020, 10, 14416.	3.3	26
27	Bacterial activities in the sediment of Lake Velencei, Hungary. <i>Hydrobiologia</i> , 2003, 506-509, 721-728.	2.0	24
28	Expressed sequence tag-derived polymorphic SSR markers for <i>Fucus serratus</i> and amplification in other species of <i>Fucus</i> . <i>Molecular Ecology Resources</i> , 2009, 9, 168-170.	4.8	22
29	Large-Scale Permanent Slide Imaging and Image Analysis for Diatom Morphometrics. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 330.	2.5	20
30	Potential effects of climate change on the distribution range of the main silicate sinker of the Southern Ocean. <i>Ecology and Evolution</i> , 2014, 4, 3147-3161.	1.9	19
31	The <i>Ectocarpus</i> Genome and Brown Algal Genomics. <i>Advances in Botanical Research</i> , 2012, 64, 141-184.	1.1	18
32	<i>In situ</i> expression of eukaryotic ice-binding proteins in microbial communities of Arctic and Antarctic sea ice. <i>ISME Journal</i> , 2015, 9, 2537-2540.	9.8	18
33	Morphometry of the diatom <i>Fragilariopsis kerguelensis</i> from Southern Ocean sediment: High-throughput measurements show second morphotype occurring during glacials. <i>Marine Micropaleontology</i> , 2018, 143, 70-79.	1.2	18
34	A complete digitization of German herbaria is possible, sensible and should be started now. <i>Research Ideas and Outcomes</i> , 0, 6, .	1.0	18
35	Adaptive divergence across Southern Ocean gradients in the pelagic diatom <i>Fragilariopsis kerguelensis</i> . <i>Molecular Ecology</i> , 2020, 29, 4913-4924.	3.9	15
36	The role of zinc in the adaptive evolution of polar phytoplankton. <i>Nature Ecology and Evolution</i> , 2022, 6, 965-978.	7.8	14

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37	First Evidence of the Toxin Domoic Acid in Antarctic Diatom Species. <i>Toxins</i> , 2021, 13, 93.	3.4	12
38	Quantitative comparison of taxa and taxon concepts in the diatom genus <i>Fragilariopsis</i> : a case study on using slide scanning, multiexpert image annotation, and image analysis in taxonomy. <i>Journal of Phycology</i> , 2018, 54, 703-719.	2.3	10
39	Temporal changes in size distributions of the Southern Ocean diatom <i>Fragilariopsis kerguelensis</i> through high-throughput microscopy of sediment trap samples. <i>Diatom Research</i> , 2019, 34, 133-147.	1.2	10
40	Data storage and data re-use in taxonomy—the need for improved storage and accessibility of heterogeneous data. <i>Organisms Diversity and Evolution</i> , 2020, 20, 1-8.	1.6	10
41	Bacterial diversity in the bottom boundary layer of the inner continental shelf of Oregon, USA. <i>Aquatic Microbial Ecology</i> , 2011, 64, 15-25.	1.8	10
42	<i>Shionodiscus gaarderae</i> sp. nov. (Thalassiosirales, Thalassiosiraceae), a bloom-producing diatom from the southwestern Atlantic Ocean, and emendation of <i>Shionodiscus bioculatus</i> var. <i>bioculatus</i> . <i>Diatom Research</i> , 2018, 33, 25-37.	1.2	9
43	Biogeographic differentiation between two morphotypes of the Southern Ocean diatom <i>Fragilariopsis kerguelensis</i> . <i>Polar Biology</i> , 2019, 42, 1369-1376.	1.2	7
44	Morphology and distribution of <i>Navicula schmassmannii</i> and its transfer to genus <i>Humidophila</i> . <i>Studia Botanica Hungarica</i> , 2015, 46, 25-41.	0.2	7
45	Epiphytic diatom community structure and richness is determined by macroalgal host and location in the South Shetland Islands (Antarctica). <i>PLoS ONE</i> , 2021, 16, e0250629.	2.5	6
46	Both hydrology and physicochemistry influence diatom morphometry. <i>Diatom Research</i> , 2020, 35, 315-326.	1.2	4
47	Label-Free Raman Microspectroscopy for Identifying Prokaryotic Virocells. <i>MSystems</i> , 2022, 7, e0150521.	3.8	3
48	Scanning electron microscopic investigation of <i>Vanhoeffenus antarcticus</i> Heiden from type material. <i>Diatom Research</i> , 2015, 30, 55-64.	1.2	0
49	Erratum for Monsees et al., “Label-Free Raman Microspectroscopy for Identifying Prokaryotic Virocells” <i>MSystems</i> , 2022, , e0016222.	3.8	0