

Nicole Poulsen

List of Publications by Year in descending order

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papers

4,211
citations

304743

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395702

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43
all docs

43
docs citations

43
times ranked

4518
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	Diatomsâ€™ From Cell Wall Biogenesis to Nanotechnology. <i>Annual Review of Genetics</i> , 2008, 42, 83-107.	7.6	376
3	Biosilica formation in diatoms: Characterization of native silaffin-2 and its role in silica morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12075-12080.	7.1	308
4	MOLECULAR GENETIC MANIPULATION OF THE DIATOM THALASSIOSIRA PSEUDONANA (BACILLARIOPHYCEAE). <i>Journal of Phycology</i> , 2006, 42, 1059-1065.	2.3	240
5	A Systematic Screen to Discover and Analyze Apicoplast Proteins Identifies a Conserved and Essential Protein Import Factor. <i>PLoS Pathogens</i> , 2011, 7, e1002392.	4.7	221
6	Silica Morphogenesis by Alternative Processing of Silaffins in the Diatom <i>Thalassiosira pseudonana</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 42993-42999.	3.4	219
7	A new molecular tool for transgenic diatoms. <i>FEBS Journal</i> , 2005, 272, 3413-3423.	4.7	206
8	Nanopatterned protein microrings from a diatom that direct silica morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3175-3180.	7.1	175
9	Bioenabled Synthesis of Rutile (TiO ₂) at Ambient Temperature and Neutral pH. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7239-7243.	13.8	116
10	Silica Immobilization of an Enzyme through Genetic Engineering of the Diatom <i>Thalassiosira pseudonana</i> . <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1843-1846.	13.8	100
11	Bioenabled Surfaceâ€Mediated Growth of Titania Nanoparticles. <i>Advanced Materials</i> , 2008, 20, 3274-3279.	21.0	64
12	Protein-Mediated Layer-by-Layer Syntheses of Freestanding Microscale Titania Structures with Biologically Assembled 3-D Morphologies. <i>Chemistry of Materials</i> , 2009, 21, 5704-5710.	6.7	62
13	Biochemical Composition and Assembly of Biosilica-associated Insoluble Organic Matrices from the Diatom <i>Thalassiosira pseudonana</i> . <i>Journal of Biological Chemistry</i> , 2016, 291, 4982-4997.	3.4	62
14	Phylogenetic Diversity of Parabasalian Symbionts from Termites, Including the Phylogenetic Position of <i>Pseudotrypanosoma</i> and <i>Trichonympha</i> . <i>Journal of Eukaryotic Microbiology</i> , 1998, 45, 643-650.	1.7	61
15	Live Diatom Silica Immobilization of Multimeric and Redox-Active Enzymes. <i>Applied and Environmental Microbiology</i> , 2012, 78, 211-218.	3.1	58
16	Pentalysine Clusters Mediate Silica Targeting of Silaffins in <i>Thalassiosira pseudonana</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 20100-20109.	3.4	57
17	Isolation and biochemical characterization of underwater adhesives from diatoms. <i>Biofouling</i> , 2014, 30, 513-523.	2.2	56
18	The <i>Seminavis robusta</i> genome provides insights into the evolutionary adaptations of benthic diatoms. <i>Nature Communications</i> , 2020, 11, 3320.	12.8	55

#	ARTICLE	IF	CITATIONS
19	Identification of peptides capable of inducing the formation of titania but not silica via a subtractive bacteriophage display approach. <i>Journal of Materials Chemistry</i> , 2008, 18, 3871.	6.7	35
20	Protein-Enabled Synthesis of Monodisperse Titania Nanoparticles On and Within Polyelectrolyte Matrices. <i>Advanced Functional Materials</i> , 2009, 19, 2303-2311.	14.9	31
21	Identification of proteins in the adhesive trails of the diatom <i>Amphora coffeaeformis</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20190196.	4.0	29
22	A Tyrosine-Rich Cell Surface Protein in the Diatom <i>Amphora coffeaeformis</i> Identified through Transcriptome Analysis and Genetic Transformation. <i>PLoS ONE</i> , 2014, 9, e110369.	2.5	29
23	Biom mineralization as a Paradigm of Directional Solidification: A Physical Model for Molluscan Shell Ultrastructural Morphogenesis. <i>Advanced Materials</i> , 2018, 30, e1803855.	21.0	27
24	Establishing super-resolution imaging for proteins in diatom biosilica. <i>Scientific Reports</i> , 2016, 6, 36824.	3.3	23
25	Genetically Programmed Regioselective Immobilization of Enzymes in Biosilica Microparticles. <i>Advanced Functional Materials</i> , 2020, 30, 2000442.	14.9	22
26	Characterization of an Endoplasmic Reticulum-associated Silaffin Kinase from the Diatom <i>Thalassiosira pseudonana</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 1166-1176.	3.4	19
27	Mating type specific transcriptomic response to sex inducing pheromone in the pennate diatom <i>Seminavis robusta</i> . <i>ISME Journal</i> , 2021, 15, 562-576.	9.8	17
28	Diurnal transcript profiling of the diatom <i>Seminavis robusta</i> reveals adaptations to a benthic lifestyle. <i>Plant Journal</i> , 2021, 107, 315-336.	5.7	15
29	Biochemistry and Molecular Genetics of Silica Biom mineralization in Diatoms. , 0, , 43-58.		12
30	Shedding light on silica biom mineralization by comparative analysis of the silica-associated proteomes from three diatom species. <i>Plant Journal</i> , 2022, 110, 1700-1716.	5.7	12
31	Chitin synthase localization in the diatom <i>Thalassiosira pseudonana</i> . <i>BMC Materials</i> , 2020, 2, .	6.8	9
32	Diatom Adhesion and Motility. , 2022, , 367-393.		5
33	Biosilica Nanofabrication in Diatoms: The Structures and Properties of Regulatory Silaffins. <i>Materials Research Society Symposia Proceedings</i> , 2005, 873, 1.	0.1	0
34	Super-Resolution Imaging Reveals Protein-Templated Patterns for Biosilica Formation. <i>Biophysical Journal</i> , 2017, 112, 147a.	0.5	0
35	Using Correlative Superresolution Fluorescence and Electron Microscopy to Unravel Diatom Morphogenesis. <i>Biophysical Journal</i> , 2020, 118, 148a-149a.	0.5	0
36	Characterization of a novel kinase involved in biom mineralization of diatom silica. <i>FASEB Journal</i> , 2010, 24, 1b186.	0.5	0