

# Heidi M Sosik

## List of Publications by Year in descending order

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72  
papers

5,772  
citations

87888

38  
h-index

98798

67  
g-index

77  
all docs

77  
docs citations

77  
times ranked

6851  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Massive Phytoplankton Blooms Under Arctic Sea Ice. <i>Science</i> , 2012, 336, 1408-1408.	12.6	606
3	Automated taxonomic classification of phytoplankton sampled with imaging flow cytometry. <i>Limnology and Oceanography: Methods</i> , 2007, 5, 204-216.	2.0	341
4	A submersible imaging flow instrument to analyze nano and microplankton: Imaging FlowCytobot. <i>Limnology and Oceanography: Methods</i> , 2007, 5, 195-203.	2.0	322
5	An Ocean-Colour Time Series for Use in Climate Studies: The Experience of the Ocean-Colour Climate Change Initiative (OC-CCI). <i>Sensors</i> , 2019, 19, 4285.	3.8	239
6	Globally Consistent Quantitative Observations of Planktonic Ecosystems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	234
7	Phytoplankton blooms beneath the sea ice in the Chukchi sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 105, 1-16.	1.4	187
8	FIRST HARMFUL DINOPHYSIS (DINOPHYCEAE, DINOPHYSIALES) BLOOM IN THE U.S. IS REVEALED BY AUTOMATED IMAGING FLOW CYTOMETRY1. <i>Journal of Phycology</i> , 2010, 46, 66-75.	2.3	151
9	An automated submersible flow cytometer for analyzing pico- and nanophytoplankton: FlowCytobot. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2003, 50, 301-315.	1.4	116
10	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems. <i>Ecological Applications</i> , 2018, 28, 749-760.	3.8	116
11	Light absorption by phytoplankton, photosynthetic pigments and detritus in the California Current System. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1995, 42, 1717-1748.	1.4	111
12	Envisioning a Marine Biodiversity Observation Network. <i>BioScience</i> , 2013, 63, 350-361.	4.9	96
13	Chlorophyll fluorescence from single cells: Interpretation of flow cytometric signals. <i>Limnology and Oceanography</i> , 1989, 34, 1749-1761.	3.1	93
14	Effects of iron enrichment on phytoplankton in the Southern Ocean during late summer: active fluorescence and flow cytometric analyses. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 3181-3200.	1.4	91
15	Primary productivity and its regulation in the Pacific Sector of the Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2003, 50, 533-558.	1.4	89
16	Absorption, fluorescence, and quantum yield for growth in nitrogen-limited <i>Dunaliella tertiolecta</i> . <i>Limnology and Oceanography</i> , 1991, 36, 910-921.	3.1	85
17	Growth rates of coastal phytoplankton from time series measurements with a submersible flow cytometer. <i>Limnology and Oceanography</i> , 2003, 48, 1756-1765.	3.1	85
18	DIEL VARIATIONS IN OPTICAL PROPERTIES OF MICROMONAS PUSILLA (PRASINOPHYCEAE)1. <i>Journal of Phycology</i> , 2002, 38, 1132-1142.	2.3	83

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19	Physiological and ecological drivers of early spring blooms of a coastal phytoplankter. <i>Science</i> , 2016, 354, 326-329.	12.6	80
20	Flow cytometric determination of size and complex refractive index for marine particles: comparison with independent and bulk estimates. <i>Applied Optics</i> , 2003, 42, 526.	2.1	78
21	New Approaches and Technologies for Observing Harmful Algal Blooms. <i>Oceanography</i> , 2005, 18, 210-227.	1.0	76
22	Parasitic infection of the diatom <i>Guinardia delicatula</i> , a recurrent and ecologically important phenomenon on the New England Shelf. <i>Marine Ecology - Progress Series</i> , 2014, 503, 1-10.	1.9	72
23	Continuous automated imaging-in-flow cytometry for detection and early warning of <i>Karenia brevis</i> blooms in the Gulf of Mexico. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6896-6902.	5.3	66
24	Phytoplankton and iron limitation of photosynthetic efficiency in the Southern Ocean during late summer. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2002, 49, 1195-1216.	1.4	63
25	Distance maps to estimate cell volume from two-dimensional plankton images. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 278-288.	2.0	60
26	Diel size distributions reveal seasonal growth dynamics of a coastal phytoplankter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9852-9857.	7.1	58
27	Phytoplankton assemblage structure in and around a massive under-ice bloom in the Chukchi Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 105, 30-41.	1.4	57
28	EFFECTS OF TEMPERATURE ON GROWTH, LIGHT ABSORPTION, AND QUANTUM YIELD IN <i>DUNALIELLA TERTIOLECTA</i> (CHLOROPHYCEAE)1. <i>Journal of Phycology</i> , 1994, 30, 833-840.	2.3	56
29	A compilation of global bio-optical in situ data for ocean-colour satellite applications. <i>Earth System Science Data</i> , 2016, 8, 235-252.	9.9	56
30	Cryptic coloration and mirrored sides as camouflage strategies in near-surface pelagic habitats: Implications for foraging and predator avoidance. <i>Limnology and Oceanography</i> , 2003, 48, 1277-1288.	3.1	54
31	Contributions of phytoplankton and other particles to inherent optical properties in New England continental shelf waters. <i>Limnology and Oceanography</i> , 2003, 48, 2377-2391.	3.1	51
32	Ocean Time Series Observations of Changing Marine Ecosystems: An Era of Integration, Synthesis, and Societal Applications. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	50
33	Phytoplankton photosynthetic characteristics from fluorescence induction assays of individual cells. <i>Limnology and Oceanography</i> , 1996, 41, 1253-1263.	3.1	49
34	Rapid growth and concerted sexual transitions by a bloom of the harmful dinoflagellate <i>Alexandrium fundyense</i> (Dinophyceae). <i>Limnology and Oceanography</i> , 2015, 60, 2059-2078.	3.1	49
35	BIOMAPER-II: an integrated instrument platform for coupled biological and physical measurements in coastal and oceanic regimes. <i>IEEE Journal of Oceanic Engineering</i> , 2002, 27, 700-716.	3.8	47
36	Sixty Years of Sverdrup: A Retrospective of Progress in the Study of Phytoplankton Blooms. <i>Oceanography</i> , 2014, 27, 222-235.	1.0	47

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37	Automatic plankton quantification using deep features. <i>Journal of Plankton Research</i> , 2019, 41, 449-463.	1.8	45
38	Temporal and vertical variability in optical properties of New England shelf waters during late summer and spring. <i>Journal of Geophysical Research</i> , 2001, 106, 9455-9472.	3.3	44
39	A Framework for a Marine Biodiversity Observing Network Within Changing Continental Shelf Seascapes. <i>Oceanography</i> , 2014, 27, 18-23.	1.0	43
40	A compilation of global bio-optical in situ data for ocean-colour satellite applications – version two. <i>Earth System Science Data</i> , 2019, 11, 1037-1068.	9.9	43
41	Diatoms favor their younger daughters. <i>Limnology and Oceanography</i> , 2012, 57, 1572-1578.	3.1	37
42	Diversity of <i>Synechococcus</i> at the Martha's Vineyard Coastal Observatory: Insights from Culture Isolations, Clone Libraries, and Flow Cytometry. <i>Microbial Ecology</i> , 2016, 71, 276-289.	2.8	32
43	Mesoscale variability in intact and ghost colonies of <i>Phaeocystis antarctica</i> in the Ross Sea: Distribution and abundance. <i>Journal of Marine Systems</i> , 2017, 166, 97-107.	2.1	31
44	ILTER – The International Long-Term Ecological Research Network as a Platform for Global Coastal and Ocean Observation. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	31
45	Feature-based classification of optical water types in the Northwest Atlantic based on satellite ocean color data. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	30
46	Flow Cytometry in Phytoplankton Research. , 2010, , 171-185.		30
47	Inversion of spectral absorption coefficients to infer phytoplankton size classes, chlorophyll concentration, and detrital matter. <i>Applied Optics</i> , 2015, 54, 5805.	2.1	28
48	Machine learning techniques to characterize functional traits of plankton from image data. <i>Limnology and Oceanography</i> , 2022, 67, 1647-1669.	3.1	28
49	Complexities of bloom dynamics in the toxic dinoflagellate <i>Alexandrium fundyense</i> revealed through DNA measurements by imaging flow cytometry coupled with species-specific rRNA probes. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2014, 103, 185-198.	1.4	27
50	Integrated Observations and Informatics Improve Understanding of Changing Marine Ecosystems. <i>Frontiers in Marine Science</i> , 2018, 5, .	2.5	27
51	Photosynthetic characteristics of marine phytoplankton from pump-during-probe fluorometry of individual cells at sea. , 1999, 37, 1-13.		25
52	Imaging FlowCytobot modified for high throughput by inline acoustic focusing of sample particles. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 867-874.	2.0	25
53	Seasonal and interannual correlations between right-whale distribution and calving success and chlorophyll concentrations in the Gulf of Maine, USA. <i>Marine Ecology - Progress Series</i> , 2009, 394, 289-302.	1.9	25
54	PHYLOGENETIC ANALYSIS OF BRACHIDINIUM CAPITATUM (DINOPHYCEAE) FROM THE GULF OF MEXICO INDICATES MEMBERSHIP IN THE KARENACEAE1. <i>Journal of Phycology</i> , 2011, 47, 366-374.	2.3	23

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55	Diatom Hotspots Driven by Western Boundary Current Instability. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091943.	4.0	19
56	Analysis of apparent optical properties and ocean color models using measurements of seawater constituents in New England continental shelf surface waters. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	18
57	Bio-optical discrimination of diatoms from other phytoplankton in the surface ocean: Evaluation and refinement of a model for the Northwest Atlantic. <i>Remote Sensing of Environment</i> , 2018, 217, 126-143.	11.0	18
58	Satellite detection of dinoflagellate blooms off California by UV reflectance ratios. <i>Elementa</i> , 2021, 9, .	3.2	18
59	A fluorescence-activated cell sorting subsystem for the Imaging FlowCytobot. <i>Limnology and Oceanography: Methods</i> , 2017, 15, 94-102.	2.0	16
60	Dynamics and functional diversity of the smallest phytoplankton on the Northeast US Shelf. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12215-12221.	7.1	16
61	Microzooplankton community structure investigated with imaging flow cytometry and automated live-cell staining. <i>Marine Ecology - Progress Series</i> , 2016, 550, 65-81.	1.9	16
62	Phytoplankton light absorption in the deep chlorophyll maximum layer of the Black Sea. <i>European Journal of Remote Sensing</i> , 2019, 52, 123-136.	3.5	15
63	Seasons of <i>Syn</i> . <i>Limnology and Oceanography</i> , 2020, 65, 1085-1102.	3.1	15
64	Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part III: Demonstration. <i>Applied Spectroscopy</i> , 2013, 67, 640-647.	2.2	12
65	A Regional, Early Spring Bloom of <i>Phaeocystis pouchetii</i> on the New England Continental Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, .	2.6	10
66	Resonance control of acoustic focusing systems through an environmental reference table and impedance spectroscopy. <i>PLoS ONE</i> , 2018, 13, e0207532.	2.5	6
67	Seasonal environmental variability drives microdiversity within a coastal <i>Synechococcus</i> population. <i>Environmental Microbiology</i> , 2021, 23, 4689-4705.	3.8	6
68	Ephemeral Surface Chlorophyll Enhancement at the New England Shelf Break Driven by Ekman Restratification. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	2.6	6
69	<i>Pump-during-probe fluorometry of phytoplankton: group-specific photosynthetic characteristics from individual cell analysis</i> . , 1997, 2963, 840.		2
70	Twilight Zone Observation Network: A Distributed Observation Network for Sustained, Real-Time Interrogation of the Ocean's Twilight Zone. <i>Marine Technology Society Journal</i> , 2021, 55, 92-93.	0.4	2
71	Phytoplankton hotspot prediction with an unsupervised spatial community model. , 2017, , .		1
72	Gaussian-Dirichlet Random Fields for Inference over High Dimensional Categorical Observations. , 2020, , .		1