

# Stefano Ciavatta

## List of Publications by Year in descending order

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44  
papers

1,508  
citations

331670

21  
h-index

330143

37  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2292  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogeochemical Model Optimization by Using Satellite-Derived Phytoplankton Functional Type Data and BGC-Argo Observations in the Northern South China Sea. <i>Remote Sensing</i> , 2022, 14, 1297.	4.0	3
2	The impact of ocean biogeochemistry on physics and its consequences for modelling shelf seas. <i>Ocean Modelling</i> , 2022, 172, 101976.	2.4	6
3	Pacific oyster ( <i>Crassostrea gigas</i> ) growth modelling and indicators for offshore aquaculture in Europe under climate change uncertainty. <i>Aquaculture</i> , 2021, 532, 736116.	3.5	6
4	Towards a Multi-Platform Assimilative System for North Sea Biogeochemistry. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016649.	2.6	10
5	Assessment of a regional physical-biogeochemical stochastic ocean model. Part 2: Empirical consistency. <i>Ocean Modelling</i> , 2021, 160, 101770.	2.4	2
6	Sensing the ocean biological carbon pump from space: A review of capabilities, concepts, research gaps and future developments. <i>Earth-Science Reviews</i> , 2021, 217, 103604.	9.1	38
7	Reanalysis in Earth System Science: Toward Terrestrial Ecosystem Reanalysis. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000715.	23.0	24
8	Copernicus Marine Service Ocean State Report, Issue 4. <i>Journal of Operational Oceanography</i> , 2020, 13, S1-S172.	1.2	47
9	Improved Representation of Underwater Light Field and Its Impact on Ecosystem Dynamics: A Study in the North Sea. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016122.	2.6	15
10	Sensitivity of Modeled CO <sub>2</sub> Air-Sea Flux in a Coastal Environment to Surface Temperature Gradients, Surfactants, and Satellite Data Assimilation. <i>Remote Sensing</i> , 2020, 12, 2038.	4.0	5
11	Satellite Ocean Colour: Current Status and Future Perspective. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	156
12	Ecoregions in the Mediterranean Sea Through the Reanalysis of Phytoplankton Functional Types and Carbon Fluxes. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6737-6759.	2.6	16
13	Model-Observations Synergy in the Coastal Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	34
14	The Influence of Temperature and Community Structure on Light Absorption by Phytoplankton in the North Atlantic. <i>Sensors</i> , 2019, 19, 4182.	3.8	15
15	Synthesis of Ocean Observations Using Data Assimilation for Operational, Real-Time and Reanalysis Systems: A More Complete Picture of the State of the Ocean. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	60
16	Advancing Marine Biogeochemical and Ecosystem Reanalyses and Forecasts as Tools for Monitoring and Managing Ecosystem Health. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	62
17	Sensitivity of the simulated Oxygen Minimum Zone to biogeochemical processes at an oligotrophic site in the Arabian Sea. <i>Ecological Modelling</i> , 2018, 372, 12-23.	2.5	9
18	Assimilation of Ocean-Color Plankton Functional Types to Improve Marine Ecosystem Simulations. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 834-854.	2.6	38

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19	Modelling mixotrophic functional diversity and implications for ecosystem function. <i>Journal of Plankton Research</i> , 2018, 40, 627-642.	1.8	47
20	The Assimilation of Phytoplankton Functional Types for Operational Forecasting in the Northwest European Shelf. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5230-5247.	2.6	35
21	Uncertainty in Ocean-Color Estimates of Chlorophyll for Phytoplankton Groups. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	71
22	ERSEM15.06: a generic model for marine biogeochemistry and the ecosystem dynamics of the lower trophic levels. <i>Geoscientific Model Development</i> , 2016, 9, 1293-1339.	3.6	196
23	An Objective Framework to Test the Quality of Candidate Indicators of Good Environmental Status. <i>Frontiers in Marine Science</i> , 2016, 3, .	2.5	38
24	Decadal reanalysis of biogeochemical indicators and fluxes in the North West European shelf sea ecosystem. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 1824-1845.	2.6	54
25	Decrease in diatom palatability contributes to bloom formation in the Western English Channel. <i>Progress in Oceanography</i> , 2015, 137, 484-497.	3.2	19
26	Modelling the Stoichiometric Regulation of C-Rich Toxins in Marine Dinoflagellates. <i>PLoS ONE</i> , 2015, 10, e0139046.	2.5	15
27	Assimilation of remotely-sensed optical properties to improve marine biogeochemistry modelling. <i>Progress in Oceanography</i> , 2014, 127, 74-95.	3.2	44
28	Modelling dissolved oxygen and benthic algae dynamics in a coastal ecosystem by exploiting real-time monitoring data. <i>Estuarine, Coastal and Shelf Science</i> , 2013, 119, 17-30.	2.1	12
29	Sequential variations of phytoplankton growth and mortality in an NPZ model: A remote-sensing-based assessment. <i>Journal of Marine Systems</i> , 2012, 92, 16-29.	2.1	19
30	Can ocean color assimilation improve biogeochemical hindcasts in shelf seas?. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	49
31	Exploring the long-term and interannual variability of biogeochemical variables in coastal areas by means of a data assimilation approach. <i>Estuarine, Coastal and Shelf Science</i> , 2011, 91, 411-422.	2.1	7
32	Response of the Venice Lagoon Ecosystem to Natural and Anthropogenic Pressures over the Last 50 Years. <i>Marine Science</i> , 2010, , 483-511.	0.5	60
33	GLOBAL UNCERTAINTY AND SENSITIVITY ANALYSIS OF A FOOD-WEB BIOACCUMULATION MODEL. <i>Environmental Toxicology and Chemistry</i> , 2009, 28, 718.	4.3	20
34	Estimation of phytoplanktonic production and system respiration from data collected by a real-time monitoring network in the Lagoon of Venice. <i>Ecological Modelling</i> , 2008, 212, 28-36.	2.5	30
35	Global Uncertainty and Sensitivity Analysis of a food web bioaccumulation model. <i>Environmental Toxicology and Chemistry</i> , 2007, preprint, 1.	4.3	0
36	Order and chaos in the natural world. <i>International Journal of Ecodynamics</i> , 2007, 1, 339-347.	0.4	2

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37	A comparison between the uncertainties in model parameters and in forcing functions: its application to a 3D water-quality model. <i>Environmental Modelling and Software</i> , 2005, 20, 981-989.	4.5	47
38	The seasonal distribution of dissolved inorganic nitrogen and phosphorous in the lagoon of Venice: A numerical analysis. <i>Environment International</i> , 2005, 31, 1031-1039.	10.0	9
39	Fault detection in a real-time monitoring network for water quality in the lagoon of Venice (Italy). <i>Water Science and Technology</i> , 2004, 50, 51-58.	2.5	16
40	Long-term changes of inorganic nutrients in the Lagoon of Venice (Italy). <i>Journal of Marine Systems</i> , 2004, 51, 179-189.	2.1	33
41	Seasonal and spatial variability of water quality parameters in the lagoon of Venice. <i>Journal of Marine Systems</i> , 2004, 51, 7-18.	2.1	69
42	Fault detection in a real-time monitoring network for water quality in the lagoon of Venice (Italy). <i>Water Science and Technology</i> , 2004, 50, 51-8.	2.5	5
43	The Extended Kalman Filter (EKF) as a tool for the assimilation of high frequency water quality data. <i>Ecological Modelling</i> , 2003, 170, 227-235.	2.5	41
44	Sensitivity analysis as a tool for the implementation of a water quality regulation based on the Maximum Permissible Loads policy. <i>Reliability Engineering and System Safety</i> , 2003, 79, 239-244.	8.9	11