Marc Picheral

List of Publications by Year
in descending order

40 papers	10,406 citations	147566 31 h-index	288905 40 g-index
41 all docs	41 docs citations	41 times ranked	11305 citing authors

#	Article	IF	Citations
1	<scp>The Underwater Vision Profiler 6: an imaging sensor of particle size spectra and plankton, for autonomous and cabled platforms</scp>. Limnology and Oceanography: Methods, 2022, 20, 115-129.	1.0	42
2	Traitâ€based approach using in situ copepod images reveals contrasting ecological patterns across an Arctic ice melt zone. Limnology and Oceanography, 2021, 66, 1155-1167.	1.6	30
3	The MALINA oceanographic expedition: how do changes in ice cover, permafrost and UV radiation impact biodiversity and biogeochemical fluxes in the Arctic Ocean?. Earth System Science Data, 2021, 13, 1561-1592.	3.7	11
4	Green Edge ice camp campaigns: understanding the processes controlling the under-ice Arctic phytoplankton spring bloom. Earth System Science Data, 2020, 12, 151-176.	3.7	32
5	Globally Consistent Quantitative Observations of Planktonic Ecosystems. Frontiers in Marine Science, 2019, 6, .	1.2	234
6	Communityâ€Level Responses to Iron Availability in Open Ocean Plankton Ecosystems. Global Biogeochemical Cycles, 2019, 33, 391-419.	1.9	76
7	Light color acclimation is a key process in the global ocean distribution of Synechococcus cyanobacteria. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2010-E2019.	3.3	91
8	A global ocean atlas of eukaryotic genes. Nature Communications, 2018, 9, 373.	5.8	297
9	Particulate matter flux interception in oceanic mesoscale eddies by the polychaete Poeobius sp.. Limnology and Oceanography, 2018, 63, 2093-2109.	1.6	39
10	Longitudinal contrast in turbulence along a â€‰âˆ¼â€‰19Â°â€‰S section in the Pacific and its consequences for biogeochemical fluxes. Biogeosciences, 2018, 15, 7485-7504.	1.3	5
11	Diazotrophic <i>Trichodesmium</i> impact on UVâ€“Vis radiance and pigment composition in the western tropical South Pacific. Biogeosciences, 2018, 15, 5249-5269.	1.3	17
12	In situ imaging reveals the biomass of giant protists in the global ocean. Nature, 2016, 532, 504-507.	13.7	210
13	The wineglass effect shapes particle export to the deep ocean in mesoscale eddies. Geophysical Research Letters, 2016, 43, 9791-9800.	1.5	34
14	Ecogenomics and potential biogeochemical impacts of globally abundant ocean viruses. Nature, 2016, 537, 689-693.	13.7	629
15	Plankton networks driving carbon export in the oligotrophic ocean. Nature, 2016, 532, 465-470.	13.7	670
16	Determinants of community structure in the global plankton interactome. Science, 2015, 348, 1262073.	6.0	842
17	Patterns and ecological drivers of ocean viral communities. Science, 2015, 348, 1261498.	6.0	617
18	Structure and function of the global ocean microbiome. Science, 2015, 348, 1261359.	6.0	2,137

#	Article	IF	Citations
19	Eukaryotic plankton diversity in the sunlit ocean. Science, 2015, 348, 1261605.	6.0	1,551
20	Environmental characteristics of Agulhas rings affect interocean plankton transport. Science, 2015, 348, 1261447.	6.0	158
21	Comprehensive Model of Annual Plankton Succession Based on the Whole-Plankton Time Series Approach. PLoS ONE, 2015, 10, e0119219.	1.1	37
22	An empirical assessment of the consistency of taxonomic identifications. Marine Biology Research, 2014, 10, 73-84.	0.3	44
23	The characteristics of particulate absorption, scattering and attenuation coefficients in the surface ocean; Contribution of the Tara Oceans expedition. Methods in Oceanography, 2013, 7, 52-62.	1.5	76
24	Mesozooplankton and particulate matter responses to a deep-water frontal system in the southern California Current System. Journal of Plankton Research, 2012, 34, 815-827.	0.8	99
25	Optical imaging of mesopelagic particles indicates deep carbon flux beneath a natural iron-fertilized bloom in the Southern Ocean. Limnology and Oceanography, 2011, 56, 1130-1140.	1.6	34
26	Zooplankton long-term changes in the NW Mediterranean Sea: Decadal periodicity forced by winter hydrographic conditions related to large-scale atmospheric changes?. Journal of Marine Systems, 2011, 87, 216-226.	0.9	84
27	The Underwater Vision Profiler 5: An advanced instrument for high spatial resolution studies of particle size spectra and zooplankton. Limnology and Oceanography: Methods, 2010, 8, 462-473.	1.0	255
28	Digital zooplankton image analysis using the ZooScan integrated system. Journal of Plankton Research, 2010, 32, 285-303.	0.8	417
29	Effects of phytoplankton community on production, size, and export of large aggregates: A worldâ€ocean analysis. Limnology and Oceanography, 2009, 54, 1951-1963.	1.6	216
30	Effects of frontal processes on marine aggregate dynamics and fluxes: An interannual study in a permanent geostrophic front (NW Mediterranean). Journal of Marine Systems, 2008, 70, 1-20.	0.9	43
31	Relationship between particle size distribution and flux in the mesopelagic zone. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1364-1374.	0.6	138
32	Global zoogeography of fragile macrozooplankton in the upper 100â€“1000 m inferred from the underwater video profiler. ICES Journal of Marine Science, 2008, 65, 433-442.	1.2	41
33	Vertical distribution of aggregates (>110 Âµm) and mesoscale activity in the northeastern Atlantic: Effects on the deep vertical export of surface carbon. Limnology and Oceanography, 2007, 52, 7-18.	1.6	36
34	Effect of natural iron fertilization on carbon sequestration in the Southern Ocean. Nature, 2007, 446, 1070-1074.	13.7	707
35	Enumeration, measurement, and identification of net zooplankton samples using the ZOOSCAN digital imaging system. ICES Journal of Marine Science, 2004, 61, 518-525.	1.2	178
36	Four-year study of large-particle vertical distribution (0â€“1000m) in the NW Mediterranean in relation to hydrology, phytoplankton, and vertical flux. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2143-2162.	0.6	70

#	Article	IF	Citations
37	Physicalâ€“biological coupling in the Strait of Gibraltar. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 4115-4130.	0.6	81
38	Small-scale temporal variations in biogeochemical features in the Strait of Gibraltar, Mediterranean sideâ€”the role of NACW and the interface oscillation. Journal of Marine Systems, 2001, 30, 207-220.	0.9	22
39	Diel variation in the vertical distribution of particulate matter (>0.15mm) in the NW Mediterranean Sea investigated with the Underwater Video Profiler. Deep-Sea Research Part I: Oceanographic Research Papers, 2000, 47, 505-531.	0.6	64
40	Vertical distributions of macroplankton and micronekton in the Ligurian and Tyrrhenian seas (northwestern Mediterranean). Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 1998, 21, 655-676.	0.7	41