

# Fei Chai

## List of Publications by Year in descending order

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Version: 2024-02-01

131  
papers

4,946  
citations

117571

34  
h-index

114418

63  
g-index

143  
all docs

143  
docs citations

143  
times ranked

4336  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron and grazing constraints on primary production in the central equatorial Pacific: An EqPac synthesis. <i>Limnology and Oceanography</i> , 1997, 42, 405-418.	1.6	368
2	A census of eddy activities in the South China Sea during 1993–2007. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	266
3	Kuroshio intrusion and the circulation in the South China Sea. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	259
4	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , 2019, 6, .	1.2	235
5	Assessment of skill and portability in regional marine biogeochemical models: Role of multiple planktonic groups. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	215
6	Future changes in coastal upwelling ecosystems with global warming: The case of the California Current System. <i>Scientific Reports</i> , 2018, 8, 2866.	1.6	121
7	Monitoring ocean biogeochemistry with autonomous platforms. <i>Nature Reviews Earth &amp; Environment</i> , 2020, 1, 315-326.	12.2	114
8	Modeled biogeochemical responses to mesoscale eddies in the South China Sea. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	113
9	Identification of different types of Kuroshio intrusion into the South China Sea. <i>Ocean Dynamics</i> , 2011, 61, 1291-1304.	0.9	112
10	Oceanic eddy formation and propagation southwest of Taiwan. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	100
11	Seascape genetics along a steep cline: using genetic patterns to test predictions of marine larval dispersal. <i>Molecular Ecology</i> , 2010, 19, 3692-3707.	2.0	99
12	Origin and maintenance of a high nitrate condition in the equatorial Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 1031-1064.	0.6	97
13	Decadal-Scale Climate and Ecosystem Interactions in the North Pacific Ocean. <i>Journal of Oceanography</i> , 2004, 60, 163-188.	0.7	91
14	A Model Study of the Seasonal Circulation in the Gulf of Maine. <i>Journal of Physical Oceanography</i> , 2000, 30, 1111-1135.	0.7	86
15	Title is missing!. <i>Journal of Oceanography</i> , 2003, 59, 461-475.	0.7	85
16	An exceptional anticyclonic eddy in the South China Sea in 2010. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 881-897.	1.0	85
17	Meridional overturning circulation in the South China Sea envisioned from the high-resolution global reanalysis data GLBa0.08. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 3012-3028.	1.0	85
18	Apparent enhancement of <sup>234</sup> Th-based particle export associated with anticyclonic eddies. <i>Earth and Planetary Science Letters</i> , 2013, 381, 198-209.	1.8	84

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19	Investigation of hypoxia off the Changjiang Estuary using a coupled model of ROMS-CoSiNE. Progress in Oceanography, 2017, 159, 237-254.	1.5	82
20	Seasonal and interannual variability of carbon cycle in South China Sea: A three-dimensional physical-biogeochemical modeling study. Journal of Oceanography, 2009, 65, 703-720.	0.7	70
21	Weakening of the Kuroshio Intrusion into the South China Sea over the Past Two Decades. Journal of Climate, 2013, 26, 8097-8110.	1.2	70
22	Connections between physical, optical and biogeochemical processes in the Pacific Ocean. Progress in Oceanography, 2014, 122, 30-53.	1.5	68
23	Seasonal and interannual variability of primary and export production in the South China Sea: a three-dimensional physical-biogeochemical model study. ICES Journal of Marine Science, 2009, 66, 420-431.	1.2	65
24	Marine phytoplankton biomass responses to typhoon events in the South China Sea based on physical-biogeochemical model. Ecological Modelling, 2017, 356, 38-47.	1.2	54
25	The variability of chlorophyll-a and its relationship with dynamic factors in the basin of the South China Sea. Journal of Marine Systems, 2019, 200, 103230.	0.9	50
26	Enhanced Chlorophyll Concentrations Induced by Kuroshio Intrusion Fronts in the Northern South China Sea. Geophysical Research Letters, 2017, 44, 11,565.	1.5	49
27	The onshore intrusion of Kuroshio subsurface water from February to July and a mechanism for the intrusion variation. Progress in Oceanography, 2018, 167, 97-115.	1.5	49
28	Seasonal and inter-annual changes in the surface chlorophyll of the South China Sea. Journal of Geophysical Research, 2011, 116, .	3.3	48
29	An Enhanced Ocean Acidification Observing Network: From People to Technology to Data Synthesis and Information Exchange. Frontiers in Marine Science, 2019, 6, .	1.2	48
30	Spatial and temporal variation in chlorophyll a concentration in the Eastern China Seas based on a locally modified satellite dataset. Estuarine, Coastal and Shelf Science, 2019, 220, 220-231.	0.9	43
31	Persistent and energetic bottom-trapped topographic Rossby waves observed in the southern South China Sea. Scientific Reports, 2016, 6, 24338.	1.6	40
32	Interannual to Decadal Variability of Upper-Ocean Salinity in the Southern Indian Ocean and the Role of the Indonesian Throughflow. Journal of Climate, 2019, 32, 6403-6421.	1.2	39
33	Characteristics and mechanisms of the upwelling in the southern Taiwan Strait: a three-dimensional numerical model study. Journal of Oceanography, 2011, 67, 699-708.	0.7	38
34	Spatial and temporal variability in phytoplankton carbon, chlorophyll, and nitrogen in the North Pacific. Journal of Geophysical Research, 2012, 117, .	3.3	38
35	Air-sea CO <sub>2</sub> fluxes in the California Current: Impacts of model resolution and coastal topography. Global Biogeochemical Cycles, 2014, 28, 371-385.	1.9	38
36	Physical drivers of chlorophyll variability in the open South China Sea. Journal of Geophysical Research: Oceans, 2016, 121, 7123-7140.	1.0	38

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37	Coupling and Decoupling of High Biomass Phytoplankton Production and Hypoxia in a Highly Dynamic Coastal System: The Changjiang (Yangtze River) Estuary. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	36
38	Iron flux induced by Haida eddies in the Gulf of Alaska. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	34
39	Environmental influences on the interannual variation and spatial distribution of Peruvian anchovy ( <i>Engraulis ringens</i> ) population dynamics from 1991 to 2007: A three-dimensional modeling study. <i>Ecological Modelling</i> , 2013, 264, 64-82.	1.2	32
40	Eddies Affect Subsurface Phytoplankton and Oxygen Distributions in the North Pacific Subtropical Gyre. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087037.	1.5	32
41	Summer nitrogenous nutrient transport and its fate in the Taiwan Strait: A coupled physical–biological modeling approach. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4184-4200.	1.0	31
42	Dynamical processes within an anticyclonic eddy revealed from Argo floats. <i>Geophysical Research Letters</i> , 2015, 42, 2342-2350.	1.5	31
43	Impacts of mesoscale eddies in the South China Sea on biogeochemical cycles. <i>Ocean Dynamics</i> , 2015, 65, 1335-1352.	0.9	30
44	Summertime Oxygen Depletion and Acidification in Bohai Sea, China. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	30
45	Modulation of decadal oscillation on surface chlorophyll in the Kuroshio Extension. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 187-199.	1.0	29
46	Impact of mesoscale eddies on chlorophyll variability off the coast of Chile. <i>PLoS ONE</i> , 2018, 13, e0203598.	1.1	29
47	A limited effect of sub-tropical typhoons on phytoplankton dynamics. <i>Biogeosciences</i> , 2021, 18, 849-859.	1.3	29
48	Size-fractionated nitrogen uptake measurements in the equatorial Pacific and confirmation of the low Si-high-nitrate low-chlorophyll condition. <i>Global Biogeochemical Cycles</i> , 2007, 21, n/a-n/a.	1.9	28
49	Seasonal and interannual variation of physical and biological processes during 1994–2001 in the Sea of Japan/East Sea: A three-dimensional physical–biogeochemical modeling study. <i>Journal of Marine Systems</i> , 2009, 78, 265-277.	0.9	27
50	Physical and biological controls on the summer chlorophyll bloom to the east of Vietnam. <i>Journal of Oceanography</i> , 2014, 70, 323-328.	0.7	27
51	San Francisco Bay nutrients and plankton dynamics as simulated by a coupled hydrodynamic-ecosystem model. <i>Continental Shelf Research</i> , 2018, 161, 29-48.	0.9	27
52	Olfaction Contributes to Pelagic Navigation in a Coastal Shark. <i>PLoS ONE</i> , 2016, 11, e0143758.	1.1	25
53	Impact of improved light calculations on predicted phytoplankton growth and heating in an idealized upwelling–downwelling channel geometry. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 875-892.	1.0	24
54	The origins of the anomalous warming in the California coastal ocean and San Francisco Bay during 2014–2016. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 7537-7557.	1.0	24

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55	Modeling carbon and silicon cycling in the equatorial Pacific. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 496-520.	0.6	23
56	The regulation of equatorial Pacific new production and pCO <sub>2</sub> by silicate-limited diatoms. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 477-492.	0.6	23
57	Development, implementation, and validation of a modeling system for the San Francisco Bay and Estuary. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 194, 40-56.	0.9	23
58	Seasonal variability of the carbon export in the central South China Sea. <i>Ocean Dynamics</i> , 2019, 69, 955-966.	0.9	23
59	Variability of the Pacific North Equatorial Current and its implications on Japanese eel ( <i>Anguilla</i> ) Tj ETQq1 1 0.784314 rgBT /Overlook	0.9	21
60	The ocean-atmosphere interaction over a summer upwelling system in the South China Sea. <i>Journal of Marine Systems</i> , 2020, 208, 103360.	0.9	21
61	Seasonal and Interannual Variability in the Sea Surface Temperature Front in the Eastern Pacific Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016356.	1.0	21
62	Modeling the mesoscale eddy field in the Gulf of Alaska. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2012, 63, 102-117.	0.6	20
63	Triple check: Observations verify structural realism of an ocean ecosystem model. <i>Geophysical Research Letters</i> , 2013, 40, 1367-1372.	1.5	20
64	Green Sturgeon Distribution in the Pacific Ocean Estimated from Modeled Oceanographic Features and Migration Behavior. <i>PLoS ONE</i> , 2012, 7, e45852.	1.1	19
65	HSP90B1 overexpression predicts poor prognosis in NSCLC patients. <i>Tumor Biology</i> , 2016, 37, 14321-14328.	0.8	19
66	Modeling the long-term variability of phytoplankton functional groups and primary productivity in the South China Sea. <i>Journal of Oceanography</i> , 2013, 69, 527-544.	0.7	17
67	Seasonal variability and mechanisms regulating chlorophyll distribution in mesoscale eddies in the South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 5329-5347.	1.0	17
68	Spatiotemporal Features of Intraseasonal Oceanic Variability in the Philippine Sea From Mooring Observations and Numerical Simulations. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 4874-4887.	1.0	17
69	Mesoscale and Submesoscale Contributions to High Sea Surface Chlorophyll in Subtropical Gyres. <i>Geophysical Research Letters</i> , 2019, 46, 13217-13226.	1.5	17
70	On contributions by wind-induced mixing and eddy pumping to interannual chlorophyll variability during different ENSO phases in the northern South China Sea. <i>Limnology and Oceanography</i> , 2019, 64, 503-514.	1.6	17
71	Record-Breaking Sea Surface Temperatures in the Yellow and East China Seas. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015883.	1.0	17
72	Simulation of export production and biological pump structure in the South China Sea. <i>Geo-Marine Letters</i> , 2014, 34, 541-554.	0.5	16

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73	Volume transport through the Taiwan Strait and the effect of synoptic events. <i>Continental Shelf Research</i> , 2014, 88, 117-125.	0.9	16
74	A Sixteen-year Decline in Dissolved Oxygen in the Central California Current. <i>Scientific Reports</i> , 2018, 8, 7290.	1.6	16
75	Seasonal variability of SST fronts and winds on the southeastern continental shelf of Brazil. <i>Ocean Dynamics</i> , 2019, 69, 1387-1399.	0.9	16
76	Evaluation of Ocean Color Remote Sensing Algorithms for Diffuse Attenuation Coefficients and Optical Depths with Data Collected on BGC-Argo Floats. <i>Remote Sensing</i> , 2020, 12, 2367.	1.8	16
77	Impact of Atmospheric Deposition on Carbon Export to the Deep Ocean in the Subtropical Northwest Pacific. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089640.	1.5	16
78	Physical and biological controls on the latitudinal asymmetry of surface nutrients and pCO <sub>2</sub> in the central and eastern equatorial Pacific. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	15
79	Seasonal and interannual variability of oceanic carbon cycling in the western and central tropical-subtropical Pacific: A physical-biogeochemical modeling study. <i>Journal of Oceanography</i> , 2009, 65, 689-701.	0.7	15
80	Evaluating the Roles of Wind- and Buoyancy Flux-Induced Mixing on Phytoplankton Dynamics in the Northern and Central South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 680-702.	1.0	15
81	Decadal variability of nutrients and biomass in the southern region of Kuroshio Extension. <i>Progress in Oceanography</i> , 2020, 188, 102441.	1.5	15
82	A spectral mixture model analysis of the Kuroshio variability and the water exchange between the Kuroshio and the East China Sea. <i>Chinese Journal of Oceanology and Limnology</i> , 2011, 29, 446-459.	0.7	14
83	Seasonal dynamics of physical and biological processes in the central California Current System: A modeling study. <i>Ocean Dynamics</i> , 2014, 64, 1137-1152.	0.9	14
84	Examining features of enhanced phytoplankton biomass in the Bay of Bengal using a coupled physical-biological model. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5112-5133.	1.0	14
85	Southern Ocean carbon export efficiency in relation to temperature and primary productivity. <i>Scientific Reports</i> , 2020, 10, 13494.	1.6	14
86	Enhanced Winter Carbon Export Observed by BGC-Argo in the Northwest Pacific Ocean. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089847.	1.5	14
87	A model study of the Copper River plume and its effects on the northern Gulf of Alaska. <i>Ocean Dynamics</i> , 2014, 64, 241-258.	0.9	13
88	Does spatial variation in environmental conditions affect recruitment? A study using a 3-D model of Peruvian anchovy. <i>Progress in Oceanography</i> , 2015, 138, 417-430.	1.5	13
89	Variability of the Pacific North Equatorial Current from 1993 to 2012 based on a 1/8° Pacific model simulation. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2382-2400.	1.0	13
90	Increased Eddy Activity in the Northeastern Pacific during 1993–2011. <i>Journal of Climate</i> , 2018, 31, 387-399.	1.2	13

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91	Far-Field Impacts of a Super Typhoon on Upper Ocean Phytoplankton Dynamics. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	13
92	Frontal variability and its impact on chlorophyll in the Arabian Sea. <i>Journal of Marine Systems</i> , 2021, 218, 103545.	0.9	13
93	Variability of oceanic carbon cycle in the North Pacific from seasonal to decadal scales. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5270-5288.	1.0	11
94	Transport patterns of Pacific sardine <i>Sardinops sagax</i> eggs and larvae in the California Current System. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2015, 100, 127-139.	0.6	11
95	The interannual variabilities of chlorophyll and nutrients in San Francisco Bay: a modeling study. <i>Ocean Dynamics</i> , 2020, 70, 1169-1186.	0.9	11
96	Remote sensing linear trends of the Gulf Stream from 1993 to 2016. <i>Ocean Dynamics</i> , 2020, 70, 701-712.	0.9	11
97	Australian fire nourishes ocean phytoplankton bloom. <i>Science of the Total Environment</i> , 2022, 807, 150775.	3.9	11
98	An analytical phytoplankton model and its application in the tidal freshwater James River. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 224, 228-244.	0.9	10
99	Biological Response to the Interaction of a Mesoscale Eddy and the River Plume in the Northern South China Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017244.	1.0	10
100	Roles of Iron Limitation in Phytoplankton Dynamics in the Western and Eastern Subarctic Pacific. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	10
101	Estimating iron and aluminum removal rates in the eastern equatorial Pacific Ocean using a box model approach. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 311-324.	0.6	9
102	Seasonal and spatial variability of surface chlorophyll inside mesoscale eddies in the South China Sea. <i>Aquatic Ecosystem Health and Management</i> , 2016, 19, 250-259.	0.3	9
103	Influence of multi-scale dynamics on the vertical nitrate distribution around the Kuroshio Extension: An investigation based on BGC-Argo and satellite data. <i>Progress in Oceanography</i> , 2021, 193, 102543.	1.5	9
104	Salinity effects on the 2014 warm "Blob" in the Northeast Pacific. <i>Acta Oceanologica Sinica</i> , 2019, 38, 24-34.	0.4	8
105	Rectification of the Intraseasonal SST Variability by the Diurnal Cycle of SST Revealed by the Global Tropical Moored Buoy Array. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	8
106	The Combined Effects of Increased pCO <sub>2</sub> and Warming on a Coastal Phytoplankton Assemblage: From Species Composition to Sinking Rate. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	8
107	Impact of mesoscale eddies on the source funnel of sediment trap measurements in the South China Sea. <i>Progress in Oceanography</i> , 2021, 194, 102566.	1.5	8
108	Seasonal and Daily-scale Photoacclimation Modulating the Phytoplankton Chlorophyll-Carbon Coupling Relationship in the Mid-Latitude Northwest Pacific. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017717.	1.0	8

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109	Impacts of the unique landfall Typhoons Damrey on chlorophyll-a in the Yellow Sea off Jiangsu Province, China. <i>Regional Studies in Marine Science</i> , 2020, 39, 101394.	0.4	7
110	Light Regulation of Phytoplankton Growth in San Francisco Bay Studied Using a 3D Sediment Transport Model. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	7
111	A 1/8° coupled biochemical-physical Indian Ocean Regional Model: Physical results and validation. <i>Ocean Dynamics</i> , 2015, 65, 1121-1142.	0.9	6
112	The sources and transport of iron in the North Pacific and its impact on marine ecosystems. <i>Atmospheric and Oceanic Science Letters</i> , 2019, 12, 30-34.	0.5	6
113	Production of dissolved organic carbon in the South China Sea: A modeling study. <i>Science China Earth Sciences</i> , 2022, 65, 351-364.	2.3	6
114	Satellite bio-optical and altimeter comparisons of phytoplankton blooms induced by natural and artificial iron addition in the Gulf of Alaska. <i>Remote Sensing of Environment</i> , 2014, 145, 38-46.	4.6	5
115	Performance of fish-habitat classifiers based on derived predictors from a coupled biophysical model. <i>Journal of Marine Systems</i> , 2018, 186, 105-114.	0.9	5
116	Freshwater Transport in the Scotian Shelf and Its Impacts on the Gulf of Maine Salinity. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	5
117	Numerical investigation of the control factors driving Zhe-Min Coastal Current. <i>Acta Oceanologica Sinica</i> , 2022, 41, 127-138.	0.4	5
118	Toward deeper development of Biogeochemical-Argo floats. <i>Atmospheric and Oceanic Science Letters</i> , 2018, 11, 287-290.	0.5	4
119	Buoyancy Effect on the Winter South China Sea Western Boundary Current. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6871-6885.	1.0	4
120	Development of a new sediment flux model “ Application in Chesapeake Bay. <i>Progress in Oceanography</i> , 2020, 185, 102332.	1.5	4
121	Remote Estimation of Sea Surface Nitrate in the California Current System From Satellite Ocean Color Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-17.	2.7	4
122	Quantifying the Atmospheric CO <sub>2</sub> Forcing Effect on Surface Ocean pCO <sub>2</sub> in the North Pacific Subtropical Gyre in the Past Two Decades. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	4
123	Impact of Transmission Scheme of Visible Solar Radiation on Temperature and Mixing in the Upper Water Column With Inputs for Transmission Derived From Ocean Color Remote Sensing. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2020JC016080.	1.0	3
124	Episodic subduction patches in the western North Pacific identified from BGC-Argo float data. <i>Biogeosciences</i> , 2021, 18, 5539-5554.	1.3	3
125	Modeled Dynamics of Physical and Biological Processes in the Central California Current System From 1993 to 2016. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015664.	1.0	2
126	Exploring Variability of Trichodesmium Photophysiology Using Multi-Excitation Wavelength Fast Repetition Rate Fluorometry. <i>Frontiers in Microbiology</i> , 2022, 13, 813573.	1.5	2



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127	Long-term trend of oceanic surface carbon in the Northwest Pacific from 1958 to 2017. <i>Acta Oceanologica Sinica</i> , 2022, 41, 90-98.	0.4	2
128	Progress and Planning in Understanding Ocean Acidification. <i>Eos</i> , 2019, 100, .	0.1	1
129	Editorialâ€™The 6th International Workshop on Modeling the Ocean (IWMO 2014). <i>Ocean Dynamics</i> , 2017, 67, 317-319.	0.9	0
130	International Silica Cycle Workshop held in Hangzhou. <i>Acta Oceanologica Sinica</i> , 2018, 37, 129-129.	0.4	0
131	The 3rd workshop on sediment dynamics of muddy coasts and estuaries: An introduction and synthesis. <i>Estuarine, Coastal and Shelf Science</i> , 2020, 245, 106994.	0.9	0