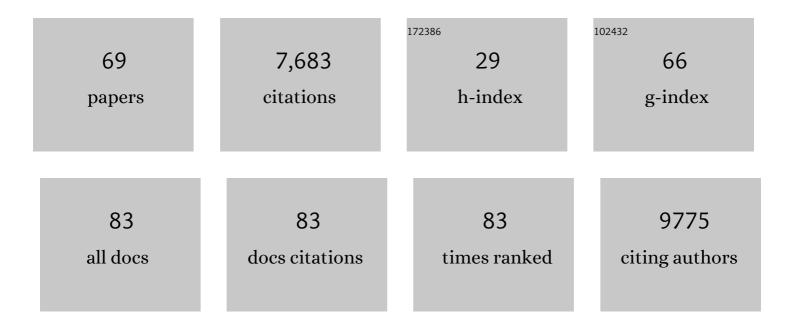
Katsumi Matsumoto

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Characterizing post-industrial changes in the ocean carbon cycle in an Earth system model. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 296.	0.8	28
2	Sensitivity of Steady State, Deep Ocean Dissolved Organic Carbon to Surface Boundary Conditions. Global Biogeochemical Cycles, 2022, 36, .	1.9	2
3	Marine phytoplankton resilience may moderate oligotrophic ecosystem responses and biogeochemical feedbacks to climate change. Limnology and Oceanography, 2022, 67, .	1.6	15
4	Appreciating GBC Reviewers. Global Biogeochemical Cycles, 2022, 36, .	1.9	0
5	MESMO 3: Flexible phytoplankton stoichiometry and refractory dissolved organic matter. Geoscientific Model Development, 2021, 14, 2265-2288.	1.3	4
6	Thank You to Our 2020 Reviewers. Global Biogeochemical Cycles, 2021, 35, e2021GB006998.	1.9	0
7	Drawdown of Atmospheric pCO ₂ Via Variable Particle Flux Stoichiometry in the Ocean Twilight Zone. Geophysical Research Letters, 2021, 48, e2021GL094924.	1.5	2
8	Stability of Marine Organic Matter Respiration Stoichiometry. Geophysical Research Letters, 2020, 47, e2019GL085564.	1.5	13
9	Toward Determining the Spatio-Temporal Variability of Upper-Ocean Ecosystem Stoichiometry From Satellite Remote Sensing. Frontiers in Marine Science, 2020, 7, .	1.2	9
10	Thank You to Our 2019 Reviewers. Global Biogeochemical Cycles, 2020, 34, e2020GB006628.	1.9	0
11	Carbon Export Buffering and CO ₂ Drawdown by Flexible Phytoplankton C:N:P Under Glacial Conditions. Paleoceanography and Paleoclimatology, 2020, 35, e2019PA003823.	1.3	21
12	A meta-analysis on environmental drivers of marine phytoplankton C : N : P. Biogeosciences, 20 2939-2954.	020,17, 1.3	32
13	Shifts in regional production as a driver of future global ocean production stoichiometry. Environmental Research Letters, 2020, 15, 124027.	2.2	4
14	Assessing change in the overturning behavior of the Laurentian Great Lakes using remotely sensed lake surface water temperatures. Remote Sensing of Environment, 2019, 235, 111427.	4.6	31
15	Climate projection of Lake Superior under a future warming scenario. Journal of Limnology, 2019, 78, .	0.3	7
16	The changing ocean and freshwater CO2 system. Fish Physiology, 2019, 37, 1-32.	0.2	16
17	Contrasting Impacts of the South Pacific Split Jet and the Southern Annular Mode Modulation on Southern Ocean Circulation and Biogeochemistry. Paleoceanography and Paleoclimatology, 2018, 33, 2-20.	1.3	10
18	Effects of incorporating age-specific traits of zooplankton into a marine ecosystem model. Ecological Modelling, 2018, 368, 257-264.	1.2	7

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19	Atmospheric ¹⁴ C/ ¹² C changes during the last glacial period from Hulu Cave. Science, 2018, 362, 1293-1297.	6.0	86
20	Modeling nearshore-offshore exchange in Lake Superior. PLoS ONE, 2018, 13, e0193183.	1.1	6
21	Tantalizing evidence for the glacial North Atlantic bottom water. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2794-2796.	3.3	3
22	Buffering of Ocean Export Production by Flexible Elemental Stoichiometry of Particulate Organic Matter. Global Biogeochemical Cycles, 2017, 31, 1528-1542.	1.9	35
23	Controls on biogenic silica burial in the Southern Ocean. Global Biogeochemical Cycles, 2015, 29, 1599-1616.	1.9	35
24	Ventilation and dissolved oxygen cycle in L ake S uperior: Insights from a numerical model. Geochemistry, Geophysics, Geosystems, 2015, 16, 3097-3110.	1.0	9
25	Linkage of deep sea rapid acidification process and extinction of benthic foraminifera in the deep sea at the <scp>P</scp> aleocene/ <scp>E</scp> ocene transition. Island Arc, 2015, 24, 301-316.	0.5	7
26	Different mechanisms of silicic acid leakage and their biogeochemical consequences. Paleoceanography, 2014, 29, 238-254.	3.0	25
27	Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison. Journal of Climate, 2013, 26, 5782-5809.	1.2	208
28	Decoupled Response of Ocean Acidification to Variations in Climate Sensitivity. Journal of Climate, 2013, 26, 1764-1771.	1.2	5
29	MESMO 2: a mechanistic marine silica cycle and coupling to a simple terrestrial scheme. Geoscientific Model Development, 2013, 6, 477-494.	1.3	21
30	Carbon dioxide and climate impulse response functions for the computation of greenhouse gas metrics: a multi-model analysis. Atmospheric Chemistry and Physics, 2013, 13, 2793-2825.	1.9	517
31	Atmospheric Δ ¹⁴ C reduction in simulations of Atlantic overturning circulation shutdown. Global Biogeochemical Cycles, 2013, 27, 296-304.	1.9	39
32	Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. Climate of the Past, 2013, 9, 1111-1140.	1.3	157
33	A three-dimensional model of Lake Superior with ice and biogeochemistry. Journal of Great Lakes Research, 2012, 38, 61-71.	0.8	29
34	Stability of the Atlantic meridional overturning circulation: A model intercomparison. Geophysical Research Letters, 2012, 39, .	1.5	185
35	The role of shelf nutrients on glacialâ€interglacial CO ₂ : A negative feedback. Global Biogeochemical Cycles, 2012, 26, .	1.9	16
36	Causal mechanisms of the deep chlorophyll maximum in Lake Superior: A numerical modeling investigation. Journal of Great Lakes Research, 2012, 38, 504-513.	0.8	28

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37	Small eddies observed in Lake Superior using SAR and sea surface temperature imagery. Journal of Great Lakes Research, 2012, 38, 786-797.	0.8	20
38	Past daily light cycle recorded in the strontium/calcium ratios of giant clam shells. Nature Communications, 2012, 3, 761.	5.8	80
39	Southern Ocean wind response to North Atlantic cooling and the rise in atmospheric CO ₂ : Modeling perspective and paleoceanographic implications. Paleoceanography, 2011, 26, .	3.0	119
40	The RCP greenhouse gas concentrations and their extensions from 1765 to 2300. Climatic Change, 2011, 109, 213-241.	1.7	2,948
41	Effects of sea ice on atmospheric <i>p</i> CO ₂ : A revised view and implications for glacial and future climates. Journal of Geophysical Research, 2010, 115, .	3.3	24
42	The role of ocean transport in the uptake of anthropogenic CO ₂ . Biogeosciences, 2009, 6, 375-390.	1.3	93
43	Influence of export rain ratio changes on atmospheric CO2 and sedimentary calcite preservation. Journal of Oceanography, 2009, 65, 209-221.	0.7	8
44	Atmospheric Lifetime of Fossil Fuel Carbon Dioxide. Annual Review of Earth and Planetary Sciences, 2009, 37, 117-134.	4.6	627
45	Response of deepâ€sea CaCO ₃ sedimentation to Atlantic meridional overturning circulation shutdown. Journal of Geophysical Research, 2008, 113, .	3.3	29
46	A corollary to the silicic acid leakage hypothesis. Paleoceanography, 2008, 23, .	3.0	45
47	Climate and carbon cycle changes under the overshoot scenario. Global and Planetary Change, 2008, 62, 164-172.	1.6	14
48	First description of the Minnesota Earth System Model for Ocean biogeochemistry (MESMO 1.0). Geoscientific Model Development, 2008, 1, 1-15.	1.3	36
49	Paleoceanography of the northwestern Pacific during the Albian. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 254, 477-491.	1.0	3
50	Impact of circulation on export production, dissolved organic matter, and dissolved oxygen in the ocean: Results from Phase II of the Ocean Carbonâ€cycle Model Intercomparison Project (OCMIPâ€2). Global Biogeochemical Cycles, 2007, 21, .	1.9	211
51	Effect of temperature-dependent organic carbon decay on atmospheric pCO2. Journal of Geophysical Research, 2007, 112, .	3.3	27
52	Biologyâ€mediated temperature control on atmospheric <i>p</i> CO ₂ and ocean biogeochemistry. Geophysical Research Letters, 2007, 34, .	1.5	78
53	Radiocarbonâ \in based circulation age of the world oceans. Journal of Geophysical Research, 2007, 112, .	3.3	173
54	Model simulations of carbon sequestration in the northwest Pacific by patch fertilization. Journal of Oceanography, 2006, 62, 887-902.	0.7	6

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55	Model Simulations of Carbon Sequestration in the Northwest Pacific by Direct Injection. Journal of Oceanography, 2005, 61, 747-760.	0.7	5
56	How accurate is the estimation of anthropogenic carbon in the ocean? An evaluation of the ΔC* method. Global Biogeochemical Cycles, 2005, 19, .	1.9	101
57	Oceanic ventilation and biogeochemical cycling: Understanding the physical mechanisms that produce realistic distributions of tracers and productivity. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	1.9	108
58	Evaluation of ocean carbon cycle models with data-based metrics. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	168
59	Persistence of Gulf Stream separation during the Last Glacial Period: Implications for current separation theories. Journal of Geophysical Research, 2003, 108, .	3.3	29
60	A new estimate of the CaCO3to organic carbon export ratio. Global Biogeochemical Cycles, 2002, 16, 54-1-54-12.	1.9	175
61	Silicic acid leakage from the Southern Ocean: A possible explanation for glacial atmosphericpCO2. Global Biogeochemical Cycles, 2002, 16, 5-1-5-23.	1.9	239
62	A switch from Si(OH)4to NO3â^'depletion in the glacial Southern Ocean. Geophysical Research Letters, 2002, 29, 5-1.	1.5	294
63	Interior hydrography and circulation of the glacial Pacific Ocean. Quaternary Science Reviews, 2002, 21, 1693-1704.	1.4	161
64	Similar glacial and Holocene Southern Ocean hydrography. Paleoceanography, 2001, 16, 445-454.	3.0	45
65	Can deep ocean carbonate preservation history inferred from atmospheric pCO2 account for 14C and %CaCO3 profiles on the Ontong–Java Plateau?. Earth and Planetary Science Letters, 2001, 192, 319-329.	1.8	3
66	Similar glacial and Holocene deep water circulation inferred from southeast Pacific benthic foraminiferal carbon isotope composition. Paleoceanography, 1999, 14, 149-163.	3.0	77
67	Radiocarbon age differences between coexisting foraminiferal species. Paleoceanography, 1999, 14, 431-436.	3.0	48
68	Modeled Glacial North Atlantic ice-rafted debris pattern and its sensitivity to various boundary conditions. Paleoceanography, 1997, 12, 271-280.	3.0	15
69	An iceberg drift and decay model to compute the ice-rafted debris and iceberg meltwater flux: Application to the interglacial North Atlantic. Paleoceanography, 1996, 11, 729-742.	3.0	22