

Tim D Jickells

List of Publications by Year in descending order

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71
papers

12,210
citations

57758

44
h-index

91884

69
g-index

75
all docs

75
docs citations

75
times ranked

11204
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Iron Connections Between Desert Dust, Ocean Biogeochemistry, and Climate. <i>Science</i> , 2005, 308, 67-71.	12.6	2,365
2	Processes and patterns of oceanic nutrient limitation. <i>Nature Geoscience</i> , 2013, 6, 701-710.	12.9	1,627
3	The atmospheric input of trace species to the world ocean. <i>Global Biogeochemical Cycles</i> , 1991, 5, 193-259.	4.9	1,478
4	Atmospheric global dust cycle and iron inputs to the ocean. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	4.9	930
5	Global distribution of atmospheric phosphorus sources, concentrations and deposition rates, and anthropogenic impacts. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	617
6	Nutrient Biogeochemistry of the Coastal Zone. , 1998, 281, 217-222.		471
7	Southern Ocean deep-water carbon export enhanced by natural iron fertilization. <i>Nature</i> , 2009, 457, 577-580.	27.8	338
8	Mineral particle size as a control on aerosol iron solubility. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	214
9	Solubilisation of aerosol trace metals by cloud processing: A laboratory study. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 3281-3287.	3.9	185
10	Atmospheric deposition of nutrients to the Atlantic Ocean. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	173
11	A reevaluation of the magnitude and impacts of anthropogenic atmospheric nitrogen inputs on the ocean. <i>Global Biogeochemical Cycles</i> , 2017, 31, 289-305.	4.9	146
12	Formation of Iron Nanoparticles and Increase in Iron Reactivity in Mineral Dust during Simulated Cloud Processing. <i>Environmental Science & Technology</i> , 2009, 43, 6592-6596.	10.0	140
13	Pyrogenic iron: The missing link to high iron solubility in aerosols. <i>Science Advances</i> , 2019, 5, eaau7671.	10.3	128
14	Iron dissolution kinetics of mineral dust at low pH during simulated atmospheric processing. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 995-1007.	4.9	122
15	Microplastics and nanoplastics in the marine-atmosphere environment. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 393-405.	29.7	121
16	Megacities and Large Urban Agglomerations in the Coastal Zone: Interactions Between Atmosphere, Land, and Marine Ecosystems. <i>Ambio</i> , 2013, 42, 13-28.	5.5	117
17	The Importance of Atmospheric Deposition for Ocean Productivity. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2015, 46, 481-501.	8.3	116
18	The role of the oceans in climate. <i>International Journal of Climatology</i> , 2003, 23, 1127-1159.	3.5	110

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19	Significance of atmospheric-derived fixed nitrogen on productivity of the Sargasso Sea. <i>Nature</i> , 1986, 320, 158-160.	27.8	108
20	What proportion of riverine nutrients reaches the open ocean?. <i>Global Biogeochemical Cycles</i> , 2017, 31, 39-58.	4.9	105
21	Air-borne dust fluxes to a deep water sediment trap in the Sargasso Sea. <i>Global Biogeochemical Cycles</i> , 1998, 12, 311-320.	4.9	101
22	Isotopic evidence for a marine ammonia source. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	97
23	Atmospheric trace metal concentrations, solubility and deposition fluxes in remote marine air over the south-east Atlantic. <i>Marine Chemistry</i> , 2015, 177, 45-56.	2.3	93
24	Estimation of atmospheric nutrient inputs to the Atlantic Ocean from 50°N to 50°S based on large-scale field sampling: Fixed nitrogen and dry deposition of phosphorus. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	91
25	Impacts of Global Change on Ocean Dissolved Organic Carbon (DOC) Cycling. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	91
26	The Atlantic Meridional Transect (AMT) Programme: A contextual view 1995–2005. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1485-1515.	1.4	90
27	Influence of chemical weathering and aging of iron oxides on the potential iron solubility of Saharan dust during simulated atmospheric processing. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	4.9	90
28	Estimation of atmospheric nutrient inputs to the Atlantic Ocean from 50°N to 50°S based on large-scale field sampling: Iron and other dust-associated elements. <i>Global Biogeochemical Cycles</i> , 2013, 27, 755-767.	4.9	88
29	The chemistry of western Atlantic precipitation at the mid-Atlantic coast and on Bermuda. <i>Journal of Geophysical Research</i> , 1982, 87, 11013-11018.	3.3	87
30	Nitrogen deposition to the eastern Atlantic Ocean. The importance of south-easterly flow. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 37-49.	1.6	86
31	Field observations of the ocean-atmosphere exchange of ammonia: Fundamental importance of temperature as revealed by a comparison of high and low latitudes. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	83
32	Carbon on the Northwest European Shelf: Contemporary Budget and Future Influences. <i>Frontiers in Marine Science</i> , 2020, 7, .	2.5	70
33	Biogeochemical value of managed realignment, Humber estuary, UK. <i>Science of the Total Environment</i> , 2006, 371, 19-30.	8.0	68
34	The atmospheric input of nitrogen species to the North Sea. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1993, 45, 53-63.	1.6	67
35	Is the atmosphere really an important source of reactive nitrogen to coastal waters?. <i>Continental Shelf Research</i> , 2005, 25, 2022-2035.	1.8	67
36	Nitrogen deposition to the eastern Atlantic Ocean. The importance of south-easterly flow. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 52, 37.	1.6	63

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37	Nutrient Fluxes Through the Humber Estuary—Past, Present and Future. <i>Ambio</i> , 2000, 29, 130-135.	5.5	63
38	Western Pacific atmospheric nutrient deposition fluxes, their impact on surface ocean productivity. <i>Global Biogeochemical Cycles</i> , 2014, 28, 712-728.	4.9	63
39	Reviews and syntheses: the GESAMP atmospheric iron deposition model intercomparison study. <i>Biogeosciences</i> , 2018, 15, 6659-6684.	3.3	63
40	Atmospheric inputs of trace metals to the northeast Atlantic Ocean: the importance of southeasterly flow. <i>Marine Chemistry</i> , 2001, 76, 319-330.	2.3	62
41	Aerosol organic nitrogen over the remote Atlantic Ocean. <i>Atmospheric Environment</i> , 2010, 44, 1887-1893.	4.1	60
42	The role of organic matter in controlling copper speciation in precipitation. <i>Atmospheric Environment</i> , 1996, 30, 3959-3966.	4.1	59
43	Atmospheric transport of trace elements and nutrients to the oceans. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150286.	3.4	57
44	Organic Nitrogen in Precipitation: Real Problem or Sampling Artefact?. <i>Scientific World Journal</i> , The, 2001, 1, 230-237.	2.1	56
45	The role of iron sources and transport for Southern Ocean productivity. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014, 87, 82-94.	1.4	52
46	Estimation of the Atmospheric Flux of Nutrients and Trace Metals to the Eastern Tropical North Atlantic Ocean*. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 4029-4045.	1.7	49
47	Atmospheric nitrogen inputs into the North Sea: effect on productivity. <i>Continental Shelf Research</i> , 2003, 23, 1743-1755.	1.8	48
48	Spatial extent and historical context of North Sea oxygen depletion in August 2010. <i>Biogeochemistry</i> , 2013, 113, 53-68.	3.5	46
49	Impact of atmospheric deposition on the contrasting iron biogeochemistry of the North and South Atlantic Ocean. <i>Global Biogeochemical Cycles</i> , 2013, 27, 1096-1107.	4.9	45
50	Ocean processes at the Antarctic continental slope. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130047.	3.4	45
51	Atmospheric input of nitrogen into the North Sea: ANICE project overview. <i>Continental Shelf Research</i> , 2001, 21, 2073-2094.	1.8	41
52	Atmospheric deposition of soluble trace elements along the Atlantic Meridional Transect (AMT). <i>Progress in Oceanography</i> , 2017, 158, 41-51.	3.2	40
53	Changing atmospheric acidity as a modulator of nutrient deposition and ocean biogeochemistry. <i>Science Advances</i> , 2021, 7, .	10.3	39
54	Ammonium accumulation during a silicate-limited diatom bloom indicates the potential for ammonia emission events. <i>Marine Chemistry</i> , 2007, 106, 63-75.	2.3	37

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55	Climate change and coupling of macronutrient cycles along the atmospheric, terrestrial, freshwater and estuarine continuum. <i>Science of the Total Environment</i> , 2012, 434, 252-258.	8.0	35
56	Climate action requires new accounting guidance and governance frameworks to manage carbon in shelf seas. <i>Nature Communications</i> , 2020, 11, 4599.	12.8	35
57	Ship-Based Contributions to Global Ocean, Weather, and Climate Observing Systems. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	34
58	The contribution of the deep chlorophyll maximum to primary production in a seasonally stratified shelf sea, the North Sea. <i>Biogeochemistry</i> , 2013, 113, 153-166.	3.5	31
59	The impacts of ocean acidification on marine trace gases and the implications for atmospheric chemistry and climate. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190769.	2.1	31
60	Direct and Indirect Effects of Estuarine Reclamation on Nutrient and Metal Fluxes in the Global Coastal Zone. <i>Aquatic Geochemistry</i> , 2016, 22, 337-348.	1.3	28
61	Spatial and seasonal changes of dissolved and particulate organic C in the North Sea. <i>Hydrobiologia</i> , 2009, 628, 13-25.	2.0	22
62	Nitrogen processes in coastal and marine ecosystems. , 2011, , 147-176.		22
63	Seasonal variability of inorganic and organic nitrogen in the North Sea. <i>Hydrobiologia</i> , 2008, 610, 83-98.	2.0	20
64	Characterising the seasonal cycle of dissolved organic nitrogen using Cefas SmartBuoy high-resolution time-series samples from the southern North Sea. <i>Biogeochemistry</i> , 2013, 113, 23-36.	3.5	18
65	The Atlantic Meridional Transect Programme (1995–2012). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 895-898.	1.4	16
66	Dissolved organic matter release by an axenic culture of <i>Emiliana huxleyi</i> . <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2008, 88, 1343-1346.	0.8	11
67	Interannual variability in the summer dissolved organic matter inventory of the North Sea: implications for the continental shelf pump. <i>Biogeosciences</i> , 2019, 16, 1073-1096.	3.3	10
68	High frequency measurements of dissolved inorganic and organic nutrients using instrumented moorings in the southern and central North Sea. <i>Estuarine, Coastal and Shelf Science</i> , 2010, 87, 631-639.	2.1	8
69	Seasonal and interannual variation of the phytoplankton and copepod dynamics in Liverpool Bay. <i>Ocean Dynamics</i> , 2012, 62, 307-320.	2.2	6
70	Natural Sciences Modelling in Coastal and Shelf Seas. <i>Studies in Ecological Economics</i> , 2015, , 41-58.	0.2	1
71	Atmospheric Transport and Deposition of Particulate Matter to the Oceans. , 2019, , 21-25.		1