

Robert C Upstill-Goddard

List of Publications by Year in descending order

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74
papers

6,212
citations

71102

41
h-index

79698

73
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86
all docs

86
docs citations

86
times ranked

6199
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ evaluation of air-sea gas exchange parameterizations using novel conservative and volatile tracers. <i>Global Biogeochemical Cycles</i> , 2000, 14, 373-387.	4.9	1,177
2	The rare earth elements in rivers, estuaries, and coastal seas and their significance to the composition of ocean waters. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 971-991.	3.9	909
3	Sea surface microlayers: A unified physicochemical and biological perspective of the air-sea interface. <i>Progress in Oceanography</i> , 2013, 109, 104-116.	3.2	336
4	Air-sea gas exchange in rough and stormy seas measured by a dual-tracer technique. <i>Nature</i> , 1991, 349, 145-147.	27.8	280
5	Microbiology of aquatic surface microlayers. <i>FEMS Microbiology Reviews</i> , 2011, 35, 233-246.	8.6	138
6	The Ocean's Vital Skin: Toward an Integrated Understanding of the Sea Surface Microlayer. <i>Frontiers in Marine Science</i> , 2017, 4, .	2.5	137
7	Methane in the southern North Sea: Low-salinity inputs, estuarine removal, and atmospheric flux. <i>Global Biogeochemical Cycles</i> , 2000, 14, 1205-1217.	4.9	136
8	Methane and nitrous oxide fluxes in the polluted Adyar River and estuary, SE India. <i>Marine Pollution Bulletin</i> , 2008, 56, 2043-2051.	5.0	120
9	Air-sea gas exchange in the coastal zone. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 70, 388-404.	2.1	106
10	Ocean acidification induces multi-generational decline in copepod naupliar production with possible conflict for reproductive resource allocation. <i>Journal of Experimental Marine Biology and Ecology</i> , 2012, 418-419, 30-36.	1.5	105
11	Bacterial diversity in the bacterioneuston (sea surface microlayer): the bacterioneuston through the looking glass. <i>Environmental Microbiology</i> , 2005, 7, 723-736.	3.8	104
12	Open-ocean carbon monoxide photoproduction. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1695-1705.	1.4	102
13	Tidal dynamics and rainfall control N ₂ O and CH ₄ emissions from a pristine mangrove creek. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	92
14	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
15	Relating Carbon Monoxide Photoproduction to Dissolved Organic Matter Functionality. <i>Environmental Science & Technology</i> , 2008, 42, 3271-3276.	10.0	87
16	Non-conservative mixing behavior of colored dissolved organic matter in a humic-rich, turbid estuary. <i>Geophysical Research Letters</i> , 2001, 28, 3309-3312.	4.0	85
17	Impact of an artificial surfactant release on air-sea gas fluxes during Deep Ocean Gas Exchange Experiment II. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	84
18	Variability of chromophoric organic matter in surface waters of the Atlantic Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1666-1684.	1.4	82

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19	Discriminatory classification of natural and anthropogenic waters in two U.K. estuaries. <i>Science of the Total Environment</i> , 2007, 373, 305-323.	8.0	82
20	Gas transfer velocities in lakes measured with SF ₆ . <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990, 42, 364-377.	1.6	76
21	The estuarine mixing behaviour of peatland derived dissolved organic carbon and its relationship to chromophoric dissolved organic matter in two North Sea estuaries (U.K.). <i>Estuarine, Coastal and Shelf Science</i> , 2007, 74, 131-144.	2.1	74
22	Biogeochemical ocean-atmosphere transfers in the Arabian Sea. <i>Progress in Oceanography</i> , 2005, 65, 116-144.	3.2	73
23	Nitrous oxide and methane in the Atlantic Ocean between 50°N and 52°S: Latitudinal distribution and sea-to-air flux. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 964-976.	1.4	72
24	N ₂ O seasonal distributions and air-sea exchange in UK estuaries: Implications for the tropospheric N ₂ O source from European coastal waters. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	72
25	Bacterioneuston control of air-water methane exchange determined with a laboratory gas exchange tank. <i>Global Biogeochemical Cycles</i> , 2003, 17, n/a-n/a.	4.9	65
26	Nitrous oxide emissions from the Arabian Sea: A synthesis. <i>Atmospheric Chemistry and Physics</i> , 2001, 1, 61-71.	4.9	62
27	Methane and nitrous oxide in surface water along the North-West Passage, Arctic Ocean. <i>Marine Chemistry</i> , 2010, 121, 80-86.	2.3	62
28	Carbon Dioxide and Methane Emissions from Mangrove-Associated Waters of the Andaman Islands, Bay of Bengal. <i>Estuaries and Coasts</i> , 2014, 37, 381-398.	2.2	60
29	Simultaneous high-precision measurements of methane and nitrous oxide in water and seawater by single phase equilibration gas chromatography. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1996, 43, 1669-1682.	1.4	59
30	Nitrous oxide as a function of oxygen and archaeal gene abundance in the North Pacific. <i>Nature Communications</i> , 2016, 7, 13451.	12.8	58
31	The open-ocean source of atmospheric carbon monoxide. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1685-1694.	1.4	54
32	Dissolved organic carbon and bacterial populations in the gelatinous surface microlayer of a Norwegian fjord mesocosm. <i>FEMS Microbiology Letters</i> , 2009, 299, 248-254.	1.8	54
33	MEMENTO: a proposal to develop a database of marine nitrous oxide and methane measurements. <i>Environmental Chemistry</i> , 2009, 6, 195.	1.5	53
34	Reduced air-sea CO ₂ exchange in the Atlantic Ocean due to biological surfactants. <i>Nature Geoscience</i> , 2018, 11, 492-496.	12.9	53
35	Physical Exchanges at the Air-Sea Interface: UK SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, 629-644.	3.3	52
36	The Atlantic Ocean surface microlayer from 50°N to 50°S is ubiquitously enriched in surfactants at wind speeds up to 13 m s ⁻¹ . <i>Geophysical Research Letters</i> , 2017, 44, 2852-2858.	4.0	52

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37	Phylogenetic and functional gene analysis of the bacterial and archaeal communities associated with the surface microlayer of an estuary. <i>ISME Journal</i> , 2008, 2, 776-789.	9.8	50
38	Comparison and validation of sampling strategies for the molecular microbial analysis of surface microlayers. <i>Aquatic Microbial Ecology</i> , 2009, 57, 69-77.	1.8	49
39	Carbon monoxide apparent quantum yields and photoproduction in the Tyne estuary. <i>Biogeosciences</i> , 2011, 8, 703-713.	3.3	48
40	Methane emissions from UK estuaries: Re-evaluating the estuarine source of tropospheric methane from Europe. <i>Marine Chemistry</i> , 2016, 180, 14-23.	2.3	48
41	Nitrous oxide and methane during the 1994 SW monsoon in the Arabian Sea/northwestern Indian Ocean. <i>Journal of Geophysical Research</i> , 1999, 104, 30067-30084.	3.3	46
42	Sulphur hexafluoride and helium-3 as sea-water tracers: deployment techniques and continuous underway analysis for sulphur hexafluoride. <i>Analytica Chimica Acta</i> , 1991, 249, 555-562.	5.4	42
43	An intercomparison of oceanic methane and nitrous oxide measurements. <i>Biogeosciences</i> , 2018, 15, 5891-5907.	3.3	42
44	Dissolved iodate and total iodine along the British east coast. <i>Estuarine, Coastal and Shelf Science</i> , 2003, 56, 261-270.	2.1	37
45	Hypoxia in the central Arabian Gulf Exclusive Economic Zone (EEZ) of Qatar during summer season. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 159, 60-68.	2.1	36
46	Response of Copepods to Elevated pCO ₂ and Environmental Copper as Co-Stressors – A Multigenerational Study. <i>PLoS ONE</i> , 2013, 8, e71257.	2.5	35
47	Meteorological controls of gas exchange at a small English lake. <i>Limnology and Oceanography</i> , 2002, 47, 1165-1174.	3.1	33
48	Surfactant control of gas transfer velocity along an offshore coastal transect: results from a laboratory gas exchange tank. <i>Biogeosciences</i> , 2016, 13, 3981-3989.	3.3	32
49	A Harmonized Nitrous Oxide (N ₂ O) Ocean Observation Network for the 21st Century. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	32
50	Nitrous oxide in the Bellingshausen Sea and Drake Passage. <i>Journal of Geophysical Research</i> , 1997, 102, 3383-3391.	3.3	29
51	The role of diagenesis in the estuarine budgets of iodine and bromine. <i>Continental Shelf Research</i> , 1988, 8, 405-430.	1.8	28
52	Evaluating the sources and fate of anthropogenic dissolved inorganic nitrogen (DIN) in two contrasting North Sea estuaries. <i>Science of the Total Environment</i> , 2006, 372, 317-333.	8.0	27
53	The riverine source of CH ₄ and N ₂ O from the Republic of Congo, western Congo Basin. <i>Biogeosciences</i> , 2017, 14, 2267-2281.	3.3	25
54	The biogeochemical cycling of methane in Ria de Vigo, NW Spain: Sediment processing and sea-air exchange. <i>Journal of Marine Systems</i> , 2007, 66, 258-271.	2.1	23

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55	Photochemical production of ammonium in the oligotrophic Cyprus Gyre (Eastern Mediterranean). <i>Biogeosciences</i> , 2006, 3, 439-449.	3.3	22
56	Climate change impacts on sea-air fluxes of CO ₂ and CH ₄ in three Arctic seas: a sensitivity study using Earth observation. <i>Biogeosciences</i> , 2013, 10, 8109-8128.	3.3	22
57	The potential of SF ₆ as a geothermal tracer. <i>Water Research</i> , 1995, 29, 1065-1068.	11.3	21
58	Technical Note: Comparison of storage strategies of sea surface microlayer samples. <i>Biogeosciences</i> , 2013, 10, 4927-4936.	3.3	20
59	A Lagrangian biogeochemical study of an eddy in the Northeast Atlantic. <i>Progress in Oceanography</i> , 2008, 76, 366-398.	3.2	19
60	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , 2020, 17, 5809-5828.	3.3	16
61	The use of photolytic rhodamines WT and sulpho G as conservative tracers of dispersion in surface waters. <i>Limnology and Oceanography</i> , 2001, 46, 927-934.	3.1	14
62	The MILAN Campaign: Studying Diel Light Effects on the Air-Sea Interface. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E146-E166.	3.3	14
63	Photochemical production and consumption of ammonium in a temperate river-sea system. <i>Marine Chemistry</i> , 2008, 112, 118-127.	2.3	13
64	Secretion of DNases by Marine Bacteria: A Culture Based and Bioinformatics Approach. <i>Frontiers in Microbiology</i> , 2019, 10, 969.	3.5	13
65	The denitrification paradox: The role of O ₂ in sediment N ₂ O production. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 200, 270-276.	2.1	11
66	Simulating estuarine nitrous oxide production by means of a dynamic model. <i>Marine Pollution Bulletin</i> , 2007, 54, 164-172.	5.0	10
67	Visualisation of the copepod female reproductive system using confocal laser scanning microscopy and two-photon microscopy. <i>Journal of Crustacean Biology</i> , 2012, 32, 685-692.	0.8	10
68	Reconsideration of seawater surfactant activity analysis based on an inter-laboratory comparison study. <i>Marine Chemistry</i> , 2019, 208, 103-111.	2.3	9
69	Photochemical oxidation of dimethylsulphide to dimethylsulphoxide in estuarine and coastal waters. <i>Chemosphere</i> , 2017, 186, 805-816.	8.2	7
70	Comparison of the Deliberate Tracer Method and Eddy Covariance Measurements to Determine the air/sea Transfer Velocity of CO ₂ . <i>Geophysical Monograph Series</i> , 0, , 225-231.	0.1	6
71	Supplement to Physical Exchanges at the Air-Sea Interface: UK-SOLAS Field Measurements. <i>Bulletin of the American Meteorological Society</i> , 2009, 90, ES9-ES16.	3.3	5
72	Photo-Reactivity of Surfactants in the Sea-Surface Microlayer and Subsurface Water of the Tyne Estuary, UK. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5

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73	An automated gas exchange tank for determining gas transfer velocities in natural seawater samples. Ocean Science, 2014, 10, 587-600.	3.4	4
74	The gas transfer velocity - wind speed relationship at Siblyback Lake.. A reply to comments by Kwan and Taylor. Tellus, Series B: Chemical and Physical Meteorology, 1993, 45, 299-300.	1.6	1