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 g-index
86 all docs	86 docs citations	86 times ranked	6199 citing authors

#	Article	IF	Citations
1	Photoâ€Reactivity of Surfactants in the Seaâ€Surface Microlayer and Subsurface Water of the Tyne Estuary, UK. Geophysical Research Letters, 2022, 49, .	4.0	5
2	The MILAN Campaign: Studying Diel Light Effects on the Airâ€“Sea Interface. Bulletin of the American Meteorological Society, 2020, 101, E146-E166.	3.3	14
3	Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. Biogeosciences, 2020, 17, 5809-5828.	3.3	16
4	Secretion of DNases by Marine Bacteria: A Culture Based and Bioinformatics Approach. Frontiers in Microbiology, 2019, 10, 969.	3.5	13
5	A Harmonized Nitrous Oxide (N2O) Ocean Observation Network for the 21st Century. Frontiers in Marine Science, 2019, 6, .	2.5	32
6	Reconsideration of seawater surfactant activity analysis based on an inter-laboratory comparison study. Marine Chemistry, 2019, 208, 103-111.	2.3	9
7	The denitrification paradox: The role of O2 in sediment N2O production. Estuarine, Coastal and Shelf Science, 2018, 200, 270-276.	2.1	11
8	An intercomparison of oceanic methane and nitrous oxide measurements. Biogeosciences, 2018, 15, 5891-5907.	3.3	42
9	Reduced airâ€“sea CO2 exchange in the Atlantic Ocean due to biological surfactants. Nature Geoscience, 2018, 11, 492-496.	12.9	53
10	The Atlantic Ocean surface microlayer from 50Â°N to 50Â°S is ubiquitously enriched in surfactants at wind speeds up to 13â€‰mâ€‰s^{â^'1}. Geophysical Research Letters, 2017, 44, 2852-2858.	4.0	52
11	Photochemical oxidation of dimethylsulphide to dimethylsulphoxide in estuarine and coastal waters. Chemosphere, 2017, 186, 805-816.	8.2	7
12	The Ocean's Vital Skin: Toward an Integrated Understanding of the Sea Surface Microlayer. Frontiers in Marine Science, 2017, 4, .	2.5	137
13	The riverine source of CH₄ and N₂O from the Republic of Congo, western Congo Basin. Biogeosciences, 2017, 14, 2267-2281.	3.3	25
14	Surfactant control of gas transfer velocity along an offshore coastal transect: results from a laboratory gas exchange tank. Biogeosciences, 2016, 13, 3981-3989.	3.3	32
15	Nitrous oxide as a function of oxygen and archaeal gene abundance in the North Pacific. Nature Communications, 2016, 7, 13451.	12.8	58
16	Methane emissions from UK estuaries: Re-evaluating the estuarine source of tropospheric methane from Europe. Marine Chemistry, 2016, 180, 14-23.	2.3	48
17	Hypoxia in the central Arabian Gulf Exclusive Economic Zone (EEZ) of Qatar during summer season. Estuarine, Coastal and Shelf Science, 2015, 159, 60-68.	2.1	36
18	An automated gas exchange tank for determining gas transfer velocities in natural seawater samples. Ocean Science, 2014, 10, 587-600.	3.4	4

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19	Carbon Dioxide and Methane Emissions from Mangrove-Associated Waters of the Andaman Islands, Bay of Bengal. Estuaries and Coasts, 2014, 37, 381-398.	2.2	60
20	Sea surface microlayers: A unified physicochemical and biological perspective of the airâ€“ocean interface. Progress in Oceanography, 2013, 109, 104-116.	3.2	336
21	Climate change impacts on seaâ€“air fluxes of CO₂ in three Arctic seas: a sensitivity study using Earth observation. Biogeosciences, 2013, 10, 8109-8128.	3.3	22
22	Technical Note: Comparison of storage strategies of sea surface microlayer samples. Biogeosciences, 2013, 10, 4927-4936.	3.3	20
23	Response of Copepods to Elevated pCO2 and Environmental Copper as Co-Stressors â€“ A Multigenerational Study. PLoS ONE, 2013, 8, e71257.	2.5	35
24	Visualisation of the copepod female reproductive system using confocal laser scanning microscopy and two-photon microscopy. Journal of Crustacean Biology, 2012, 32, 685-692.	0.8	10
25	Ocean acidification induces multi-generational decline in copepod naupliar production with possible conflict for reproductive resource allocation. Journal of Experimental Marine Biology and Ecology, 2012, 418-419, 30-36.	1.5	105
26	N₂O seasonal distributions and air-sea exchange in UK estuaries: Implications for the tropospheric N₂O source from European coastal waters. Journal of Geophysical Research, 2011, 116, .	3.3	72
27	Carbon monoxide apparent quantum yields and photoproduction in the Tyne estuary. Biogeosciences, 2011, 8, 703-713.	3.3	48
28	Impact of an artificial surfactant release on airâ€sea gas fluxes during Deep Ocean Gas Exchange Experiment II. Journal of Geophysical Research, 2011, 116, .	3.3	84
29	Microbiology of aquatic surface microlayers. FEMS Microbiology Reviews, 2011, 35, 233-246.	8.6	138
30	Methane and nitrous oxide in surface water along the North-West Passage, Arctic Ocean. Marine Chemistry, 2010, 121, 80-86.	2.3	62
31	Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, 629-644.	3.3	52
32	Dissolved organic carbon and bacterial populations in the gelatinous surface microlayer of a Norwegian fjord mesocosm. FEMS Microbiology Letters, 2009, 299, 248-254.	1.8	54
33	Nitrous oxide and methane in the Atlantic Ocean between 50Â°N and 52Â°S: Latitudinal distribution and sea-to-air flux. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 964-976.	1.4	72
34	Comparison and validation of sampling strategies for the molecular microbial analysis of surface microlayers. Aquatic Microbial Ecology, 2009, 57, 69-77.	1.8	49
35	MEMENTO: a proposal to develop a database of marine nitrous oxide and methane measurements. Environmental Chemistry, 2009, 6, 195.	1.5	53
36	Supplement to Physical Exchanges at the Airâ€“Sea Interface: UKâ€“SOLAS Field Measurements. Bulletin of the American Meteorological Society, 2009, 90, ES9-ES16.	3.3	5

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37	Photochemical production and consumption of ammonium in a temperate riverâ€“sea system. Marine Chemistry, 2008, 112, 118-127.	2.3	13
38	Phylogenetic and functional gene analysis of the bacterial and archaeal communities associated with the surface microlayer of an estuary. ISME Journal, 2008, 2, 776-789.	9.8	50
39	A Lagrangian biogeochemical study of an eddy in the Northeast Atlantic. Progress in Oceanography, 2008, 76, 366-398.	3.2	19
40	Methane and nitrous oxide fluxes in the polluted Adyar River and estuary, SE India. Marine Pollution Bulletin, 2008, 56, 2043-2051.	5.0	120
41	Relating Carbon Monoxide Photoproduction to Dissolved Organic Matter Functionality. Environmental Science & Technology, 2008, 42, 3271-3276.	10.0	87
42	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.). Estuarine, Coastal and Shelf Science, 2007, 74, 131-144.	2.1	74
43	Simulating estuarine nitrous oxide production by means of a dynamic model. Marine Pollution Bulletin, 2007, 54, 164-172.	5.0	10
44	Discriminatory classification of natural and anthropogenic waters in two U.K. estuaries. Science of the Total Environment, 2007, 373, 305-323.	8.0	82
45	The biogeochemical cycling of methane in Ria de Vigo, NW Spain: Sediment processing and seaâ€“air exchange. Journal of Marine Systems, 2007, 66, 258-271.	2.1	23
46	Tidal dynamics and rainfall control N2O and CH4emissions from a pristine mangrove creek. Geophysical Research Letters, 2006, 33, .	4.0	92
47	Variability of chromophoric organic matter in surface waters of the Atlantic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1666-1684.	1.4	82
48	The open-ocean source of atmospheric carbon monoxide. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1685-1694.	1.4	54
49	Open-ocean carbon monoxide photoproduction. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1695-1705.	1.4	102
50	The Atlantic Meridional Transect (AMT) Programme: A contextual view 1995â€“2005. Deep-Sea Research Part II: Topical Studies in Oceanography, 2006, 53, 1485-1515.	1.4	90
51	Photochemical production of ammonium in the oligotrophic Cyprus Gyre (Eastern Mediterranean). Biogeosciences, 2006, 3, 439-449.	3.3	22
52	Airâ€“sea gas exchange in the coastal zone. Estuarine, Coastal and Shelf Science, 2006, 70, 388-404.	2.1	106
53	Evaluating the sources and fate of anthropogenic dissolved inorganic nitrogen (DIN) in two contrasting North Sea estuaries. Science of the Total Environment, 2006, 372, 317-333.	8.0	27
54	Bacterial diversity in the bacterioneuston (sea surface microlayer): the bacterioneuston through the looking glass. Environmental Microbiology, 2005, 7, 723-736.	3.8	104

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55	Biogeochemical ocean-atmosphere transfers in the Arabian Sea. Progress in Oceanography, 2005, 65, 116-144.	3.2	73
56	Dissolved iodate and total iodine along the British east coast. Estuarine, Coastal and Shelf Science, 2003, 56, 261-270.	2.1	37
57	Bacterioneuston control of air-water methane exchange determined with a laboratory gas exchange tank. Global Biogeochemical Cycles, 2003, 17, n/a-n/a.	4.9	65
58	Meteorological controls of gas exchange at a small English lake. Limnology and Oceanography, 2002, 47, 1165-1174.	3.1	33
59	Non-conservative mixing behavior of colored dissolved organic matter in a humic-rich, turbid estuary. Geophysical Research Letters, 2001, 28, 3309-3312.	4.0	85
60	The use of photolytic rhodamines WT and sulpho G as conservative tracers of dispersion in surface waters. Limnology and Oceanography, 2001, 46, 927-934.	3.1	14
61	Nitrous oxide emissions from the Arabian Sea: A synthesis. Atmospheric Chemistry and Physics, 2001, 1, 61-71.	4.9	62
62	Methane in the southern North Sea: Low-salinity inputs, estuarine removal, and atmospheric flux. Global Biogeochemical Cycles, 2000, 14, 1205-1217.	4.9	136
63	In situ evaluation of air-sea gas exchange parameterizations using novel conservative and volatile tracers. Global Biogeochemical Cycles, 2000, 14, 373-387.	4.9	1,177
64	Nitrous oxide and methane during the 1994 SW monsoon in the Arabian Sea/northwestern Indian Ocean. Journal of Geophysical Research, 1999, 104, 30067-30084.	3.3	46
65	Nitrous oxide in the Bellingshausen Sea and Drake Passage. Journal of Geophysical Research, 1997, 102, 3383-3391.	3.3	29
66	Simultaneous high-precision measurements of methane and nitrous oxide in water and seawater by single phase equilibration gas chromatography. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 1669-1682.	1.4	59
67	The potential of SF6 as a geothermal tracer. Water Research, 1995, 29, 1065-1068.	11.3	21
68	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
69	Airâ€“sea gas exchange in rough and stormy seas measured by a dual-tracer technique. Nature, 1991, 349, 145-147.	27.8	280
70	Sulphur hexafluoride and helium-3 as sea-water tracers: deployment techniques and continuous underway analysis for sulphur hexafluoride. Analytica Chimica Acta, 1991, 249, 555-562.	5.4	42
71	Gas transfer velocities in lakes measured with SF6. Tellus, Series B: Chemical and Physical Meteorology, 1990, 42, 364-377.	1.6	76
72	The rare earth elements in rivers, estuaries, and coastal seas and their significance to the composition of ocean waters. Geochimica Et Cosmochimica Acta, 1990, 54, 971-991.	3.9	909

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73	The role of diagenesis in the estuarine budgets of iodine and bromine. Continental Shelf Research, 1988, 8, 405-430.	1.8	28
74	Comparison of the Deliberate Tracer Method and Eddy Covariance Measurements to Determine the air/sea Transfer Velocity of CO₂. Geophysical Monograph Series, 0, , 225-231.	0.1	6