

Hermann W Bange

List of Publications by Year in descending order

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104
papers

5,677
citations

93792

39
h-index

104191

69
g-index

167
all docs

167
docs citations

167
times ranked

6378
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The role of a changing Arctic Ocean and climate for the biogeochemical cycling of dimethyl sulphide and carbon monoxide. <i>Ambio</i> , 2022, 51, 411-422. | 2.8 | 10 |
| 2 | Nitrous oxide and methane in a changing Arctic Ocean. <i>Ambio</i> , 2022, 51, 398-410. | 2.8 | 6 |
| 3 | Dimethylated sulfur compounds in the Peruvian upwelling system. <i>Biogeosciences</i> , 2022, 19, 701-714. | 1.3 | 2 |
| 4 | Continuous Chemiluminescence Measurements of Dissolved Nitric Oxide (NO ₂) in the Ocean Surface Layer of the East China Sea. <i>Environmental Science & Technology</i> , 2021, 55, 3668-3675. | 4.6 | 6 |
| 5 | A decade of dimethyl sulfide (DMS), dimethylsulfoniopropionate (DMSP) and dimethyl sulfoxide (DMSO) measurements in the southwestern Baltic Sea. <i>Biogeosciences</i> , 2021, 18, 2161-2179. | 1.3 | 6 |
| 6 | Nitrous oxide and hydroxylamine measurements in the Southwest Indian Ocean. <i>Journal of Marine Systems</i> , 2020, 209, 103062. | 0.9 | 6 |
| 7 | Photoproduction of nitric oxide in seawater. <i>Ocean Science</i> , 2020, 16, 135-148. | 1.3 | 10 |
| 8 | Regulation of nitrous oxide production in low-oxygen waters off the coast of Peru. <i>Biogeosciences</i> , 2020, 17, 2263-2287. | 1.3 | 38 |
| 9 | No nitrogen fixation in the Bay of Bengal?. <i>Biogeosciences</i> , 2020, 17, 851-864. | 1.3 | 33 |
| 10 | A decade of methane measurements at the Boknis Eck Time Series Station in Eckernförde Bay (southwestern Baltic Sea). <i>Biogeosciences</i> , 2020, 17, 3427-3438. | 1.3 | 9 |
| 11 | Ideas and perspectives: A strategic assessment of methane and nitrous oxide measurements in the marine environment. <i>Biogeosciences</i> , 2020, 17, 5809-5828. | 1.3 | 16 |
| 12 | Gas exchange estimates in the Peruvian upwelling regime biased by multi-day near-surface stratification. <i>Biogeosciences</i> , 2019, 16, 2307-2328. | 1.3 | 5 |
| 13 | Measurement of Air-Sea Methane Fluxes in the Baltic Sea Using the Eddy Covariance Method. <i>Frontiers in Earth Science</i> , 2019, 7, . | 0.8 | 11 |
| 14 | Nitrous oxide in the northern Gulf of Aqaba and the central Red Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 90-103. | 0.6 | 4 |
| 15 | Investigating the effect of El Niño on nitrous oxide distribution in the eastern tropical South Pacific. <i>Biogeosciences</i> , 2019, 16, 2079-2093. | 1.3 | 13 |
| 16 | A Harmonized Nitrous Oxide (N ₂ O) Ocean Observation Network for the 21st Century. <i>Frontiers in Marine Science</i> , 2019, 6, . | 1.2 | 32 |
| 17 | Anthropogenic nitrogen inputs and impacts on oceanic N ₂ O fluxes in the northern Indian Ocean: The need for an integrated observation and modelling approach. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2019, 166, 104-113. | 0.6 | 9 |
| 18 | Hydroxylamine as a Potential Indicator of Nitrification in the Open Ocean. <i>Geophysical Research Letters</i> , 2019, 46, 2158-2166. | 1.5 | 10 |

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|----|--|-----|-----------|
| 19 | N ₂ O Emissions From the Northern Benguela Upwelling System. <i>Geophysical Research Letters</i> , 2019, 46, 3317-3326. | 1.5 | 19 |
| 20 | Air-sea fluxes of greenhouse gases and oxygen in the northern Benguela Current region during upwelling events. <i>Biogeosciences</i> , 2019, 16, 4065-4084. | 1.3 | 10 |
| 21 | The FluxEngine air-sea gas flux toolbox: simplified interface and extensions for in situ analyses and multiple sparingly soluble gases. <i>Ocean Science</i> , 2019, 15, 1707-1728. | 1.3 | 10 |
| 22 | Nitric oxide (NO) in the Bohai Sea and the Yellow Sea. <i>Biogeosciences</i> , 2019, 16, 4485-4496. | 1.3 | 12 |
| 23 | A multi-year observation of nitrous oxide at the Boknis Eck Time Series Station in the Eckernförde Bay (southwestern Baltic Sea). <i>Biogeosciences</i> , 2019, 16, 4097-4111. | 1.3 | 7 |
| 24 | Nitrous oxide (N ₂ O) and methane (CH ₄) in rivers and estuaries of northwestern Borneo. <i>Biogeosciences</i> , 2019, 16, 4321-4335. | 1.3 | 38 |
| 25 | Nitric oxide (NO) in the oxygen minimum zone off Peru. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2018, 156, 148-154. | 0.6 | 12 |
| 26 | An intercomparison of oceanic methane and nitrous oxide measurements. <i>Biogeosciences</i> , 2018, 15, 5891-5907. | 1.3 | 42 |
| 27 | Microbial methanogenesis in the sulfate-reducing zone of sediments in the Eckernförde Bay, SW Baltic Sea. <i>Biogeosciences</i> , 2018, 15, 137-157. | 1.3 | 51 |
| 28 | N ₂ O production and consumption from stable isotopic and concentration data in the Peruvian coastal upwelling system. <i>Global Biogeochemical Cycles</i> , 2017, 31, 678-698. | 1.9 | 59 |
| 29 | Low oxygen eddies in the eastern tropical North Atlantic: Implications for N ₂ O cycling. <i>Scientific Reports</i> , 2017, 7, 4806. | 1.6 | 19 |
| 30 | Effects of low oxygen concentrations on aerobic methane oxidation in seasonally hypoxic coastal waters. <i>Biogeosciences</i> , 2017, 14, 1631-1645. | 1.3 | 66 |
| 31 | High Resolution Measurements of Nitrous Oxide (N ₂ O) in the Elbe Estuary. <i>Frontiers in Marine Science</i> , 2017, 4, . | 1.2 | 26 |
| 32 | The Ocean's Vital Skin: Toward an Integrated Understanding of the Sea Surface Microlayer. <i>Frontiers in Marine Science</i> , 2017, 4, . | 1.2 | 137 |
| 33 | Nitrous oxide during the onset of the Atlantic cold tongue. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 171-184. | 1.0 | 12 |
| 34 | Determination of dissolved nitric oxide in coastal waters of the Yellow Sea off Qingdao. <i>Ocean Science</i> , 2017, 13, 623-632. | 1.3 | 11 |
| 35 | Influence of mesoscale eddies on the distribution of nitrous oxide in the eastern tropical South Pacific. <i>Biogeosciences</i> , 2016, 13, 1105-1118. | 1.3 | 15 |
| 36 | Observed El Niño conditions in the eastern tropical Pacific in October 2015. <i>Ocean Science</i> , 2016, 12, 861-873. | 1.3 | 47 |

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|----|--|-----|-----------|
| 37 | Fate of terrestrial organic carbon and associated CO ₂ and CO emissions from two Southeast Asian estuaries. <i>Biogeosciences</i> , 2016, 13, 691-705. | 1.3 | 23 |
| 38 | Extreme N ₂ O accumulation in the coastal oxygen minimum zone off Peru. <i>Biogeosciences</i> , 2016, 13, 827-840. | 1.3 | 60 |
| 39 | N ₂ fixation in eddies of the eastern tropical South Pacific Ocean. <i>Biogeosciences</i> , 2016, 13, 2889-2899. | 1.3 | 45 |
| 40 | Nitrous oxide and methane in two tropical estuaries in a peat-dominated region of northwestern Borneo. <i>Biogeosciences</i> , 2016, 13, 2415-2428. | 1.3 | 30 |
| 41 | Nitrogen cycling in shallow low-oxygen coastal waters off Peru from nitrite and nitrate nitrogen and oxygen isotopes. <i>Biogeosciences</i> , 2016, 13, 1453-1468. | 1.3 | 39 |
| 42 | Soluble trace metals in aerosols over the tropical south-east Pacific offshore of Peru. <i>Biogeosciences</i> , 2016, 13, 817-825. | 1.3 | 29 |
| 43 | Water column biogeochemistry of oxygen minimum zones in the eastern tropical North Atlantic and eastern tropical South Pacific oceans. <i>Biogeosciences</i> , 2016, 13, 3585-3606. | 1.3 | 27 |
| 44 | Environmental control of dimethylsulfoxide (DMSO) cycling under ocean acidification. <i>Environmental Chemistry</i> , 2016, 13, 330. | 0.7 | 8 |
| 45 | N ₂ isotope effects in the Peru oxygen minimum zone studied using a mesoscale eddy as a natural tracer experiment. <i>Global Biogeochemical Cycles</i> , 2015, 29, 793-811. | 1.9 | 60 |
| 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. | 0.6 | 49 |
| 47 | On the role of circulation and mixing in the ventilation of oxygen minimum zones with a focus on the eastern tropical North Atlantic. <i>Biogeosciences</i> , 2015, 12, 489-512. | 1.3 | 109 |
| 48 | An improved method for the determination of dissolved nitric oxide (NO) in seawater samples. <i>Ocean Science</i> , 2015, 11, 937-946. | 1.3 | 5 |
| 49 | Surface ocean-lower atmosphere study: Scientific synthesis and contribution to Earth system science. <i>Anthropocene</i> , 2015, 12, 54-68. | 1.6 | 13 |
| 50 | Massive nitrous oxide emissions from the tropical South Pacific Ocean. <i>Nature Geoscience</i> , 2015, 8, 530-533. | 5.4 | 113 |
| 51 | Investigating hypoxia in aquatic environments: diverse approaches to addressing a complex phenomenon. <i>Biogeosciences</i> , 2014, 11, 1215-1259. | 1.3 | 175 |
| 52 | Air-Sea Interactions of Natural Long-Lived Greenhouse Gases (CO ₂ , N ₂ O, CH ₄) in a Changing Climate. <i>Springer Earth System Sciences</i> , 2014, , 113-169. | 0.1 | 29 |
| 53 | Nutrient availability determines dimethyl sulfide and isoprene distribution in the eastern Atlantic Ocean. <i>Geophysical Research Letters</i> , 2014, 41, 3181-3188. | 1.5 | 35 |
| 54 | Perspectives and Integration in SOLAS Science. <i>Springer Earth System Sciences</i> , 2014, , 247-306. | 0.1 | 2 |

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|----|--|-----|-----------|
| 55 | Long-term trends at the Boknis Eck time series station (Baltic Sea), 1957–2013: does climate change counteract the decline in eutrophication?. <i>Biogeosciences</i> , 2014, 11, 6323-6339. | 1.3 | 77 |
| 56 | Future ocean acidification will be amplified by hypoxia in coastal habitats. <i>Marine Biology</i> , 2013, 160, 1875-1888. | 0.7 | 423 |
| 57 | The marine nitrogen cycle: recent discoveries, uncertainties and the potential relevance of climate change. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130121. | 1.8 | 240 |
| 58 | Dimethylsulphide (DMS) emissions from the western Pacific Ocean: a potential marine source for stratospheric sulphur?. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8427-8437. | 1.9 | 31 |
| 59 | Corrigendum to "Dimethylsulphide (DMS) emissions from the West Pacific Ocean: a potential marine source for stratospheric sulphur?" published in <i>Atmos. Chem. Phys.</i> , 13, 8427–8437, 2013. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8813-8814. | 1.9 | 2 |
| 60 | Nitrite removal improves hydroxylamine analysis in aqueous solution by conversion with iron(III). <i>Environmental Chemistry</i> , 2013, 10, 64. | 0.7 | 11 |
| 61 | On the role of mesoscale eddies for the biological productivity and biogeochemistry in the eastern tropical Pacific Ocean off Peru. <i>Biogeosciences</i> , 2013, 10, 7293-7306. | 1.3 | 104 |
| 62 | Seasonal signatures in SFG vibrational spectra of the sea surface nanolayer at Boknis Eck Time Series Station (SW Baltic Sea). <i>Biogeosciences</i> , 2013, 10, 5325-5334. | 1.3 | 15 |
| 63 | Sulphur compounds, methane, and phytoplankton: interactions along a north–south transit in the western Pacific Ocean. <i>Biogeosciences</i> , 2013, 10, 3297-3311. | 1.3 | 58 |
| 64 | A new method for continuous measurements of oceanic and atmospheric N_2O , CO and CO_2 : performance of off-axis integrated cavity output spectroscopy (OA-ICOS) coupled to non-dispersive infrared detection (NDIR). <i>Ocean Science</i> , 2013, 9, 1071-1087. | 1.3 | 64 |
| 65 | Interannual variation in summer N_2O concentration in the hypoxic region of the northern Gulf of Mexico, 1985–2007. <i>Biogeosciences</i> , 2013, 10, 6783-6792. | 1.3 | 5 |
| 66 | Production of oceanic nitrous oxide by ammonia-oxidizing archaea. <i>Biogeosciences</i> , 2012, 9, 2419-2429. | 1.3 | 195 |
| 67 | Global oceanic production of nitrous oxide. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 1245-1255. | 1.8 | 123 |
| 68 | Quantifying the impact of anthropogenic nitrogen deposition on oceanic nitrous oxide. <i>Geophysical Research Letters</i> , 2012, 39, . | 1.5 | 57 |
| 69 | Contrasting biogeochemistry of nitrogen in the Atlantic and Pacific Oxygen Minimum Zones. <i>Biogeosciences</i> , 2012, 9, 203-215. | 1.3 | 58 |
| 70 | Sea-to-air and diapycnal nitrous oxide fluxes in the eastern tropical North Atlantic Ocean. <i>Biogeosciences</i> , 2012, 9, 957-964. | 1.3 | 32 |
| 71 | Environmental control on the variability of DMS and DMSP in the Mauritanian upwelling region. <i>Biogeosciences</i> , 2012, 9, 1041-1051. | 1.3 | 27 |
| 72 | Nitrous oxide dynamics in low oxygen regions of the Pacific: insights from the MEMENTO database. <i>Biogeosciences</i> , 2012, 9, 5007-5022. | 1.3 | 37 |

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|----|---|-----|-----------|
| 73 | Nitrogen processes in coastal and marine ecosystems. , 2011, , 147-176. | | 22 |
| 74 | Origin and fate of the secondary nitrite maximum in the Arabian Sea. Biogeosciences, 2011, 8, 1565-1577. | 1.3 | 87 |
| 75 | Rates and regulation of nitrogen cycling in seasonally hypoxic sediments during winter (Boknis Eck,) Tj ETQq1 1 0.784314 rgBT /Over 14-28. | 0.9 | 47 |
| 76 | Marine hypoxia/anoxia as a source of CH ₄ and N ₂ O. Biogeosciences, 2010, 7, 2159-2190. | 1.3 | 311 |
| 77 | Dissolved methane during hypoxic events at the Boknis Eck time series station (Eckernföörde Bay, SW) Tj ETQq1 1 0.784314 rgBT /Over 7F | 1.3 | 7F |
| 78 | Nitrous oxide emissions from the upwelling area off Mauritania (NW Africa). Geophysical Research Letters, 2010, 37, . | 1.5 | 18 |
| 79 | Nitrous oxide in the Indian Ocean. Geophysical Monograph Series, 2009, , 205-216. | 0.1 | 1 |
| 80 | North Atlantic production of nitrous oxide in the context of changing atmospheric levels. Global Biogeochemical Cycles, 2009, 23, . | 1.9 | 31 |
| 81 | MEMENTO: a proposal to develop a database of marine nitrous oxide and methane measurements. Environmental Chemistry, 2009, 6, 195. | 0.7 | 53 |
| 82 | Gaseous Nitrogen Compounds (NO, N ₂ O, N ₂ , NH ₃) in the Ocean. , 2008, , 51-94. | | 56 |
| 83 | Methane emissions from the upwelling area off Mauritania (NW Africa). Biogeosciences, 2008, 5, 1119-1125. | 1.3 | 44 |
| 84 | A time series of hydroxylamine (NH ₂ OH) in the southwestern Baltic Sea. Geophysical Research Letters, 2007, 34, . | 1.5 | 20 |
| 85 | Distribution of N ₂ O in the Baltic Sea during transition from anoxic to oxic conditions. Biogeosciences, 2006, 3, 557-570. | 1.3 | 22 |
| 86 | Nitrous oxide in the North Atlantic Ocean. Biogeosciences, 2006, 3, 607-619. | 1.3 | 77 |
| 87 | Nitrous oxide and methane in European coastal waters. Estuarine, Coastal and Shelf Science, 2006, 70, 361-374. | 0.9 | 195 |
| 88 | New Directions: The importance of oceanic nitrous oxide emissions. Atmospheric Environment, 2006, 40, 198-199. | 1.9 | 74 |
| 89 | The nitrogen cycle in the Arabian Sea. Progress in Oceanography, 2005, 65, 145-158. | 1.5 | 123 |
| 90 | Biogeochemical ocean-atmosphere transfers in the Arabian Sea. Progress in Oceanography, 2005, 65, 116-144. | 1.5 | 73 |

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|-----|---|------|-----------|
| 91 | Photochemical production of methane in natural waters: implications for its present and past oceanic source. <i>Chemosphere</i> , 2005, 58, 177-183. | 4.2 | 21 |
| 92 | Nitrous oxide measurements during EIFEX, the European Iron Fertilization Experiment in the subpolar South Atlantic Ocean. <i>Geophysical Research Letters</i> , 2005, 32, . | 1.5 | 30 |
| 93 | Nitrous oxide in the surface layer of the tropical North Atlantic Ocean along a west to east transect. <i>Geophysical Research Letters</i> , 2004, 31, . | 1.5 | 35 |
| 94 | Nitrous oxide cycling in the Arabian Sea. <i>Journal of Geophysical Research</i> , 2001, 106, 1053-1065. | 3.3 | 56 |
| 95 | Nitrous oxide emissions from the Arabian Sea: A synthesis. <i>Atmospheric Chemistry and Physics</i> , 2001, 1, 61-71. | 1.9 | 62 |
| 96 | It's not a gas. <i>Nature</i> , 2000, 408, 301-302. | 13.7 | 34 |
| 97 | A revised nitrogen budget for the Arabian Sea. <i>Global Biogeochemical Cycles</i> , 2000, 14, 1283-1297. | 1.9 | 111 |
| 98 | Greenhouse Gases in Cold Water Filaments in the Arabian Sea During the Southwest Monsoon. <i>Die Naturwissenschaften</i> , 1999, 86, 489-491. | 0.6 | 9 |
| 99 | Nitrous oxide in the deep waters of the world's oceans. <i>Global Biogeochemical Cycles</i> , 1999, 13, 1127-1135. | 1.9 | 45 |
| 100 | Methane in surface waters of the Arabian Sea. <i>Geophysical Research Letters</i> , 1998, 25, 3547-3550. | 1.5 | 33 |
| 101 | Nitrous oxide in coastal waters. <i>Global Biogeochemical Cycles</i> , 1996, 10, 197-207. | 1.9 | 219 |
| 102 | Nitrous oxide emissions from the Arabian Sea. <i>Geophysical Research Letters</i> , 1996, 23, 3175-3178. | 1.5 | 40 |
| 103 | Methane in the Baltic and North Seas and a reassessment of the marine emissions of methane. <i>Global Biogeochemical Cycles</i> , 1994, 8, 465-480. | 1.9 | 301 |
| 104 | Tiny But Powerful: How Tiny Amounts of Certain Gases Can Make a Big Difference in the Earth's Climate. <i>Frontiers for Young Minds</i> , 0, 9, . | 0.8 | 0 |