Renate Scharek

List of Publications by Year
in descending order

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35 papers	2,566 citations	159525 30 h-index	360920 35 g-index
35 all docs	35 docs citations	35 times ranked	3021 citing authors

#	Article	IF	Citations
1	Thick-shelled, grazer-protected diatoms decouple ocean carbon and silicon cycles in the iron-limited Antarctic Circumpolar Current. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20633-20638.	3.3	216
2	Spring development of phytoplankton biomass and composition in major water masses of the Atlantic sector of the Southern Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 51-67.	0.6	210
3	Climate Influence on Deep Sea Populations. PLoS ONE, 2008, 3, e1431.	1.1	171
4	Protistan assemblages across the Indian Ocean, with a specific emphasis on the picoeukaryotes. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1456-1473.	0.6	134
5	Diatom fluxes to the deep sea in the oligotrophic North Pacific gyre at Station ALOHA. Marine Ecology - Progress Series, 1999, 182, 55-67.	0.9	134
6	Early spring phytoplankton blooms in ice platelet layers of the southern Weddell Sea, Antarctica. Deep-sea Research Part A, Oceanographic Research Papers, 1992, 39, 153-168.	1.6	115
7	Nutrient anomalies in Fragilariopsis kerguelensis blooms, iron deficiency and the nitrate/phosphate ratio (A. C. Redfield) of the Antarctic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 229-260.	0.6	109
8	Biogeochemical dynamics and the silicon cycle in the Atlantic sector of the Southern Ocean during austral spring 1992. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 69-89.	0.6	106
9	Temporal variations in diatom abundance and downward vertical flux in the oligotrophic North Pacific gyre. Deep-Sea Research Part I: Oceanographic Research Papers, 1999, 46, 1051-1075.	0.6	103
10	PIGMENT SUITES AND TAXONOMIC GROUPS IN PRASINOPHYCEAE. Journal of Phycology, 2004, 40, 1149-1155.	1.0	99
11	Routine determination of plankton community composition and size structure: a comparison between FlowCAM and light microscopy. Journal of Plankton Research, 2014, 36, 170-184.	0.8	90
12	Responses of Southern Ocean phytoplankton to the addition of trace metals. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 209-227.	0.6	88
13	Physical anatomy of fronts and surface waters in the ACC near the 6Â°W meridian during austral spring 1992. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 23-49.	0.6	81
14	Routine quantification of phytoplankton groupsâ€"microscopy or pigment analyses?. Marine Ecology - Progress Series, 2004, 273, 31-42.	0.9	81
15	Iron enrichment experiments in the Southern Ocean: physiological responses of plankton communities. Deep-Sea Research Part II: Topical Studies in Oceanography, 1997, 44, 189-207.	0.6	70
16	Distribution of phytoplankton groups within the deep chlorophyll maximum. Limnology and Oceanography, 2017, 62, 665-685.	1.6	64
17	Losses of chlorophylls and carotenoids in aqueous acetone and methanol extracts prepared for RPHPLC analysis of pigments. Chromatographia, 2001, 53, 385-391.	0.7	60
18	Silicate and labile DOC interfere in structuring the microbial food web via algalâ€"bacterial competition for mineral nutrients: Results of a mesocosm experiment. Limnology and Oceanography, 2003, 48, 129-140.	1.6	56

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19	Deep sediment transport induced by storms and dense shelf-water cascading in the northwestern Mediterranean basin. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 425-434.	0.6	53
20	Preferences of phytoplankton groups for waters of different trophic status in the northwestern Mediterranean Sea. Marine Ecology - Progress Series, 2010, 407, 27-42.	0.9	48
21	The transition from winter to early spring in the eastern Weddell Sea, Antarctica: Plankton biomass and composition in relation to hydrography and nutrients. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 1231-1250.	0.6	47
22	Growth, grazing and carbon flux of high and low nucleic acid bacteria differ in surface and deep chlorophyll maximum layers in the NW Mediterranean Sea. Aquatic Microbial Ecology, 2007, 46, 153-161.	0.9	47
23	Estimating the carbon flux through main phytoplankton groups in the northwestern Mediterranean. Limnology and Oceanography, 2005, 50, 1447-1458.	1.6	46
24	Role of internal waves on mixing, nutrient supply and phytoplankton community structure during spring and neap tides in the upwelling ecosystem of RÃa de Vigo (NW Iberian Peninsula). Limnology and Oceanography, 2017, 62, 1014-1030.	1.6	43
25	High contribution of Rhizaria (Radiolaria) to vertical export in the California Current Ecosystem revealed by DNA metabarcoding. ISME Journal, 2019, 13, 964-976.	4.4	41
26	Growth and grazing rate dynamics of major phytoplankton groups in an oligotrophic coastal site. Estuarine, Coastal and Shelf Science, 2011, 95, 77-87.	0.9	38
27	Zooplankton diel vertical migration and contribution to deep active carbon flux in the NW Mediterranean. Journal of Marine Systems, 2015, 143, 86-97.	0.9	38
28	Ability of a â€œminimumâ€•microbial food web model to reproduce response patterns observed in mesocosms manipulated with N and P, glucose, and Si. Journal of Marine Systems, 2007, 64, 15-34.	0.9	36
29	Algal and bacterial processes in platelet ice during late austral summer. Polar Biology, 1996, 16, 623-633.	0.5	34
30	Diarrhetic shellfish toxicity in relation to the abundance of Dinophysis spp. in the German Bight near Helgoland. Marine Ecology - Progress Series, 2003, 259, 93-102.	0.9	31
31	Effects of storm events on the shelf-to-basin sediment transport in the southwestern end of the Gulf of Lions (Northwestern Mediterranean). Natural Hazards and Earth System Sciences, 2011, 11, 843-850.	1.5	21
32	Photosynthetic parameters and primary production, with focus on large phytoplankton, in a temperate mid-shelf ecosystem. Estuarine, Coastal and Shelf Science, 2015, 154, 255-263.	0.9	21
33	Influence of light and nutrients on the vertical distribution of marine phytoplankton groups in the deep chlorophyll maximum. Scientia Marina, 2016, 80, 57-62.	0.3	16
34	Progressive decoupling between phytoplankton growth and microzooplankton grazing during an iron-induced phytoplankton bloom in the Southern Ocean (EIFEX). Marine Ecology - Progress Series, 2014, 513, 39-50.	0.9	11
35	Dynamics of phytoplankton groups in three contrasting situations of the open NW Mediterranean Sea revealed by pigment, microscopy, and flow cytometry analyses. Progress in Oceanography, 2022, 201, 102737.	1.5	8