## Rolf R Gradinger

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/495400/publications.pdf

Version: 2024-02-01

99 papers 5,651 citations

42 h-index

66343

91884 69 g-index

110 all docs

110 docs citations

110 times ranked

3853 citing authors

#	Article	IF	CITATIONS
1	Overview of the MOSAiC expedition: Physical oceanography. Elementa, 2022, 10, .	3.2	54
2	Overview of the MOSAiC expedition: Atmosphere. Elementa, 2022, 10, .	3.2	121
3	Overview of the MOSAiC expedition: Snow and sea ice. Elementa, 2022, 10, .	3.2	91
4	Crude oil exposure reduces ice algal growth in a sea-ice mesocosm experiment. Polar Biology, 2021, 44, 525-537.	1.2	3
5	Terrestrial Inputs Shape Coastal Bacterial and Archaeal Communities in a High Arctic Fjord (Isfjorden,) Tj ETQq $1\ 1$	0,784314	rgBT /Overla
6	Modeling silicate–nitrate–ammonium co-limitation of algal growth and the importance of bacterial remineralization based on an experimental Arctic coastal spring bloom culture study. Biogeosciences, 2021, 18, 1719-1747.	3.3	2
7	Early spring subglacial discharge plumes fuel under-ice primary production at a Svalbard tidewater glacier. Cryosphere, 2021, 15, 2083-2107.	3.9	9
8	Seasonal Variability in the Zooplankton Community Structure in a Sub-Arctic Fjord as Revealed by Morphological and Molecular Approaches. Frontiers in Marine Science, 2021, 8, .	2.5	13
9	Dense mesopelagic sound scattering layer and vertical segregation of pelagic organisms at the Arctic-Atlantic gateway during the midnight sun. Progress in Oceanography, 2021, 196, 102611.	3.2	8
10	Ice-Associated Amphipods in a Pan-Arctic Scenario of Declining Sea Ice. Frontiers in Marine Science, 2021, 8, .	2.5	11
11	Connections to the Deep: Deep Vertical Migrations, an Important Part of the Life Cycle of Apherusa glacialis, an Arctic Ice-Associated Amphipod. Frontiers in Marine Science, 2021, 8, .	2.5	2
12	Arctic Sea Ice Ecology. Springer Polar Sciences, 2020, , .	0.1	8
13	Pelagic occurrences of the ice amphipod Apherusa glacialis throughout the Arctic. Journal of Plankton Research, 2020, 42, 73-86.	1.8	16
14	Changes in Sea-Ice Protist Diversity With Declining Sea Ice in the Arctic Ocean From the 1980s to 2010s. Frontiers in Marine Science, 2020, 7, .	2.5	39
15	Life in Arctic Sea Ice. , 2020, , 507-514.		0
16	What Feeds the Benthos in the Arctic Basins? Assembling a Carbon Budget for the Deep Arctic Ocean. Frontiers in Marine Science, 2020, 7, .	2.5	42
17	Marine Micro- and Macroalgae in the Polar Night. Advances in Polar Ecology, 2020, , 67-112.	1.3	15
18	First of an Arctic sea ice meiofauna food web analysis based on abundance, biomass and stable isotope ratios. Marine Ecology - Progress Series, 2020, 634, 29-43.	1.9	18

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19	The Book, and Ecology of Sea Ice. Springer Polar Sciences, 2020, , 1-12.	0.1	O
20	Methods and Techniques in Sea Ice Ecology. Springer Polar Sciences, 2020, , 131-169.	0.1	1
21	Spring, Summer and Melting Sea Ice. Springer Polar Sciences, 2020, , 61-101.	0.1	2
22	Arctic marine fungi: biomass, functional genes, and putative ecological roles. ISME Journal, 2019, 13, 1484-1496.	9.8	69
23	New Species of Saprobic Labyrinthulea (=Labyrinthulomycota) and the Erection of a gen. nov. to Resolve Molecular Polyphyly within the Aplanochytrids. Journal of Eukaryotic Microbiology, 2018, 65, 475-483.	1.7	10
24	Sea ice meiofauna distribution on local to panâ€Arctic scales. Ecology and Evolution, 2018, 8, 2350-2364.	1.9	36
25	Spatial distribution of aquatic marine fungi across the western Arctic and subâ€arctic. Environmental Microbiology, 2017, 19, 475-484.	3.8	67
26	Eukaryotic microbial richness increases with latitude and decreasing temperature in the Pacific Subarctic domain in late winter. Polar Biology, 2017, 40, 2161-2169.	1.2	0
27	Das Leben im Eispalast: Flora und Fauna des arktischen Meereises. , 2017, , 51-62.		0
28	Chytrids dominate arctic marine fungal communities. Environmental Microbiology, 2016, 18, 2001-2009.	3.8	128
29	The diversity, abundance and fate of ice algae and phytoplankton in the Bering Sea. Polar Biology, 2016, 39, 309-325.	1.2	33
30	Importance of sympagic production to Bering Sea zooplankton as revealed from fatty acid-carbon stable isotope analyses. Marine Ecology - Progress Series, 2015, 518, 31-50.	1.9	59
31	A new perspective on changing Arctic marine ecosystems: panarchy adaptive cycles in pan-Arctic spatial and temporal scales., 2015,, 109-126.		5
32	Ecosystem characteristics and processes facilitating persistent macrobenthic biomass hotspots and associated benthivory in the Pacific Arctic. Progress in Oceanography, 2015, 136, 92-114.	3.2	222
33	Arctic spring awakening – Steering principles behind the phenology of vernal ice algal blooms. Progress in Oceanography, 2015, 139, 151-170.	3.2	274
34	Two New Species of Marine Saprotrophic Sphaeroformids in the Mesomycetozoea Isolated From the Sub-Arctic Bering Sea. Protist, 2015, 166, 310-322.	1.5	13
35	Sources of uncertainties in cod distribution models. Nature Climate Change, 2015, 5, 788-789.	18.8	15
36	Fatty acid and stable isotope characteristics of sea ice and pelagic particulate organic matter in the Bering Sea: tools for estimating sea ice algal contribution to Arctic food web production. Oecologia, 2014, 174, 699-712.	2.0	56

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37	Biodiversity and Biogeography of the Lower Trophic Taxa of the Pacific Arctic Region: Sensitivities to Climate Change., 2014, , 269-336.		32
38	Elevated 15N/14N in particulate organic matter, zooplankton, and diatom frustule-bound nitrogen in the ice-covered water column of the Bering Sea eastern shelf. Deep-Sea Research Part II: Topical Studies in Oceanography, 2014, 109, 100-111.	1.4	33
39	Linkages between sea-ice coverage, pelagic–benthic coupling, and the distribution of spectacled eiders: Observations in March 2008, 2009 and 2010, northern Bering Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2013, 94, 31-43.	1.4	39
40	Carbon and nitrogen assimilation in the Bering Sea clams Nuculana radiata and Macoma moesta. Journal of Experimental Marine Biology and Ecology, 2012, 430-431, 32-42.	1.5	24
41	Sensitivity of the light field under sea ice to spatially inhomogeneous optical properties and incident light assessed with three-dimensional Monte Carlo radiative transfer simulations. Cold Regions Science and Technology, 2012, 73, 1-11.	<b>3.</b> 5	21
42	Seasonal succession of net primary productivity, particulate organic carbon export, and autotrophic community composition in the eastern Bering Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2012, 65-70, 84-97.	1.4	78
43	Growth rates of arctic juvenile Scolelepis squamata (Polychaeta: Spionidae) isolated from Chukchi Sea fast ice. Polar Biology, 2012, 35, 1487-1494.	1.2	11
44	Holes in Progressively Thinning Arctic Sea Ice Lead to New Ice Algae Habitat. Oceanography, 2011, 24, 302-308.	1.0	66
45	Arctic Marine Biodiversity: An Update of Species Richness and Examples of Biodiversity Change. Oceanography, 2011, 24, 232-248.	1.0	83
46	The pan-Arctic biodiversity of marine pelagic and sea-ice unicellular eukaryotes: a first-attempt assessment. Marine Biodiversity, 2011, 41, 13-28.	1.0	229
47	Editorial - Arctic Ocean Diversity: synthesis. Marine Biodiversity, 2011, 41, 1-4.	1.0	27
48	Biological Response to Recent Pacific Arctic Sea Ice Retreats. Eos, 2010, 91, 161-162.	0.1	143
49	Rapid physically driven inversion of the air–sea ice CO2 flux in the seasonal landfast ice off Barrow, Alaska after onset of surface melt. Continental Shelf Research, 2010, 30, 1998-2004.	1.8	52
50	Arctic sea-ice ridgesâ€"Safe heavens for sea-ice fauna during periods of extreme ice melt?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 86-95.	1.4	60
51	Timing of Ice Algal Grazing by the Arctic Nearshore Benthic Amphipod <i>Onisimus litoralis</i> . Arctic, 2010, 63, .	0.4	17
52	Small scale vertical gradients of Arctic ice algal photophysiological properties. Photosynthesis Research, 2009, 102, 53-66.	2.9	36
53	Sea-ice algae: Major contributors to primary production and algal biomass in the Chukchi and Beaufort Seas during May/June 2002. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1201-1212.	1.4	249
54	Standing stocks, production, and respiration of phytoplankton and heterotrophic bacteria in the western Arctic Ocean. Deep-Sea Research Part II: Topical Studies in Oceanography, 2009, 56, 1237-1248.	1.4	117

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55	Pivotal role of sea ice sediments in the seasonal development of near-shore Arctic fast ice biota. Marine Ecology - Progress Series, 2009, 394, 49-63.	1.9	45
56	Using stable isotopes to assess carbon and nitrogen turnover in the Arctic sympagic amphipod Onisimus litoralis. Oecologia, 2008, 158, 11-22.	2.0	63
57	<i>Sympagohydra tuuli</i> gen. nov. and sp. nov. (Cnidaria: Hydrozoa) a cool hydroid from the Arctic sea ice. Journal of the Marine Biological Association of the United Kingdom, 2008, 88, 1637-1641.	0.8	19
58	REGIONAL VARIABILITY IN FOOD AVAILABILITY FOR ARCTIC MARINE MAMMALS. , 2008, 18, S77-S96.		265
59	Exopolymer particles: microbial hotspots of enhanced bacterial activity in Arctic fast ice (Chukchi) Tj ETQq1 1 0.7	'84314 rg  1.8	BT/Overlock
60	Ice-associated phytoplankton blooms in the southeastern Bering Sea. Geophysical Research Letters, 2007, 34, .	4.0	47
61	First record of sympagic hydroids (Hydrozoa, Cnidaria) in Arctic coastal fast ice. Polar Biology, 2007, 30, 1557-1563.	1.2	13
62	Controls of the landfast ice–ocean ecosystem offshore Barrow, Alaska. Annals of Glaciology, 2006, 44, 63-72.	1.4	67
63	Food web structure in the high Arctic Canada Basin: evidence from ?13C and ?15N analysis. Polar Biology, 2005, 28, 238-249.	1,2	137
64	Abundance and composition of the sea-ice meiofauna in off-shore pack ice of the Beaufort Gyre in summer 2002 and 2003. Polar Biology, 2005, 28, 171-181.	1,2	49
65	Arctic Ocean Exploration 2002. Polar Biology, 2005, 28, 169-170.	1.2	10
66	Sediment transport by sea ice in the Chukchi and Beaufort Seas: Increasing importance due to changing ice conditions?. Deep-Sea Research Part II: Topical Studies in Oceanography, 2005, 52, 3281-3302.	1.4	123
67	In-situ observations on the distribution and behavior of amphipods and Arctic cod (Boreogadus saida) under the sea ice of the High Arctic Canada Basin. Polar Biology, 2004, 27, 595.	1,2	131
68	Vertical distribution of exopolymer particles in sea ice of the Fram Strait (Arctic) during autumn. Marine Ecology - Progress Series, 2003, 248, 1-13.	1.9	76
69	Under-ice amphipods in the Greenland Sea and Fram Strait (Arctic): environmental controls and seasonal patterns below the pack ice. Marine Biology, 2002, 140, 317-326.	1.5	29
70	Meiofauna in sea ice of the Weddell Sea (Antarctica). , 2002, , 180-184.		0
71	A mesocosm study of physical-biological interactions in artificial sea ice: effects of brine channel surface evolution and brine movement on algal biomass. Polar Biology, 2001, 24, 356-364.	1.2	45
72	Meiofauna in sea ice of the Weddell Sea (Antarctica). Polar Biology, 2001, 24, 724-728.	1.2	38

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73	Adaptation of Arctic and Antarctic ice metazoa to their habitat. Zoology, 2001, 104, 339-345.	1.2	17
74	Biogenic Particle Sources and Vertical Flux Patterns in the Seasonally Ice-Covered Greenland Sea. , 2001, , 69-79.		11
75	Implications of brine channel geometry and surface area for the interaction of sympagic organisms in Arctic sea ice. Journal of Experimental Marine Biology and Ecology, 2000, 243, 55-80.	1.5	144
76	Changes in photosynthetic carbon allocation in algal assemblages of Arctic sea ice with decreasing nutrient concentrations and irradiance. Marine Ecology - Progress Series, 2000, 202, 1-11.	1.9	42
77	Turbellaria (Archoophora: Acoela) from Antarctic sea ice endofauna - examination of their micromorphology. Polar Biology, 1999, 21, 410-416.	1.2	13
78	Integrated abundance and biomass of sympagic meiofauna in Arctic and Antarctic pack ice. Polar Biology, 1999, 22, 169-177.	1.2	70
79	Abundance, biomass and composition of the sea ice biota of the Greenland Sea pack ice. Deep-Sea Research Part II: Topical Studies in Oceanography, 1999, 46, 1457-1472.	1.4	97
80	Vertical fine structure of the biomass and composition of algal communities in Arctic pack ice. Marine Biology, 1999, 133, 745-754.	1.5	110
81	How are Antarctic planktonic microbial food webs and algal blooms affected by melting of sea ice? Microcosm simulations. Aquatic Microbial Ecology, 1999, 20, 183-201.	1.8	27
82	Determination of Arctic ice algal production with a new in situ incubation technique. Marine Ecology - Progress Series, 1999, 177, 15-26.	1.9	100
83	Potential effect of ice formation on Antarctic pelagic copepods: salinity induced mortality of Calanus propinquus and Metridia gerlachei in comparison to sympagic acoel turbellarians. Polar Biology, 1998, 20, 139-142.	1.2	16
84	Organism incorporation into newly forming Arctic sea ice in the Greenland Sea. Journal of Plankton Research, 1998, 20, 871-886.	1.8	119
85	Coupled ecosystems in the ice-covered Arctic ocean. Elsevier Oceanography Series, 1997, 62, 385-391.	0.1	2
86	Vertical distribution of bacteria in Arctic sea ice from the Barents and Laptev Seas. Polar Biology, 1997, 17, 448-454.	1.2	50
87	Flagellates and heliozoans in the Greenland Sea ice studied alive using light microscopy. Polar Biology, 1997, 17, 473-481.	1.2	71
88	Occurrence of an algal bloom under Arctic pack ice. Marine Ecology - Progress Series, 1996, 131, 301-305.	1.9	88
89	Life cycle strategy of the Antarctic calanoid copepod Stephos longipes. Progress in Oceanography, 1995, 36, 45-75.	3.2	54
90	Climate change and biological oceanography of the Arctic Ocean. Philosophical Transactions of the Royal Society: Physical and Engineering Sciences, 1995, 352, 277-286.	1.0	46

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91	The life cycle of Stephos longipes - an example for cryopelagic coupling in the Weddell Sea (Antarctica). Marine Ecology - Progress Series, 1993, 98, 255-262.	1.9	37
92	Significance of Picocyanobacteria in the Red Sea and the Gulf of Aden. Botanica Marina, 1992, 35, .	1.2	19
93	Sea ice: A cast technique to examine and analyze brine pockets and channel structure. Limnology and Oceanography, 1992, 37, 179-183.	3.1	109
94	Development of Arctic sea-ice organisms under graded snow cover. Polar Research, 1991, 10, 295-308.	1.6	53
95	Distribution of phytoplankton communities in relation to the large-scale hydrographical regime in the Fram Strait. Marine Biology, 1991, 111, 311-321.	1.5	69
96	Regional relationships between biological and hydrographical properties in the Weddell Gyre in late austral winter 1989. Marine Chemistry, 1991, 35, 325-336.	2.3	39
97	Development of Arctic sea-ice organisms under graded snow cover. Polar Research, 1991, 10, 295-308.	1.6	12
98	Concentration of live pico- and nanoplankton by means of tangential flow filtration. Journal of Plankton Research, 1989, 11, 1213-1221.	1.8	16
99	Picocyanobacteria in the high Arctic. Marine Ecology - Progress Series, 1989, 52, 99-101.	1.9	31