

Peter Schlosser

List of Publications by Year in descending order

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128
papers

6,678
citations

44042

48
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71651

76
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136
all docs

136
docs citations

136
times ranked

4924
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of air-sea gas exchange at high wind speeds in the Southern Ocean: Implications for global parameterizations. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	359
2	Tritium/ ³ He dating of shallow groundwater. <i>Earth and Planetary Science Letters</i> , 1988, 89, 353-362.	1.8	260
3	Freshwater balance and the sources of deep and bottom waters in the Arctic Ocean inferred from the distribution of H ₂ ¹⁸ O. <i>Progress in Oceanography</i> , 1995, 35, 53-80.	1.5	240
4	River runoff, sea ice meltwater, and Pacific water distribution and mean residence times in the Arctic Ocean. <i>Journal of Geophysical Research</i> , 2001, 106, 9075-9092.	3.3	212
5	Tritogenic ³ He in shallow groundwater. <i>Earth and Planetary Science Letters</i> , 1989, 94, 245-256.	1.8	210
6	Dating of shallow groundwater: Comparison of the transient tracers ³ H/ ³ He, chlorofluorocarbons, and ⁸⁵ Kr. <i>Water Resources Research</i> , 1994, 30, 1693-1708.	1.7	187
7	Reduction of Deepwater Formation in the Greenland Sea During the 1980s: Evidence from Tracer Data. <i>Science</i> , 1991, 251, 1054-1056.	6.0	182
8	Measurements of air-sea gas transfer during an open ocean algal bloom. <i>Geophysical Research Letters</i> , 2000, 27, 2117-2120.	1.5	170
9	Arctic river-runoff: mean residence time on the shelves and in the halocline. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 1994, 41, 1053-1068.	0.6	145
10	Extraterrestrial ³ He as a tracer of marine sediment transport and accumulation. <i>Nature</i> , 1996, 383, 705-707.	13.7	120
11	Oxygen 18 and helium as tracers of ice shelf water and water/ice interaction in the Weddell Sea. <i>Journal of Geophysical Research</i> , 1990, 95, 3253-3263.	3.3	114
12	A 30,000 yr Continental Paleotemperature Record Derived from Noble Gases Dissolved in Groundwater from the San Juan Basin, New Mexico. <i>Quaternary Research</i> , 1995, 43, 209-220.	1.0	114
13	Comparison of ⁴ He ages and ¹⁴ C ages in simple aquifer systems: implications for groundwater flow and chronologies. <i>Applied Geochemistry</i> , 2000, 15, 1137-1167.	1.4	114
14	A paleotemperature record derived from dissolved noble gases in groundwater of the Aquia Aquifer (Maryland, USA). <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 797-817.	1.6	111
15	Gas transfer experiment on Georges Bank using two volatile deliberate tracers. <i>Journal of Geophysical Research</i> , 1993, 98, 20237-20248.	3.3	110
16	Noble gases as natural tracers of water circulation in the Paris Basin: 1. Measurements and discussion of their origin and mechanisms of vertical transport in the basin. <i>Water Resources Research</i> , 1998, 34, 2443-2466.	1.7	107
17	Toward a universal relationship between wind speed and gas exchange: Gas transfer velocities measured with ³ He/ ⁶ SF ₆ during the Southern Ocean Gas Exchange Experiment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	107
18	The role of the large-scale Arctic Ocean circulation in the transport of contaminants. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 1341-1367.	0.6	97

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19	Sediment focusing in the central equatorial Pacific Ocean. <i>Paleoceanography</i> , 2001, 16, 260-267.	3.0	95
20	A comparative study of accumulation rates derived by He and Th isotope analysis of marine sediments. <i>Earth and Planetary Science Letters</i> , 1995, 133, 549-555.	1.8	92
21	The Geochemical Evolution of Riparian Ground Water in a Forested Piedmont Catchment. <i>Ground Water</i> , 2003, 41, 913-925.	0.7	88
22	Renewal and circulation of intermediate waters in the Canadian Basin observed on the SCICEX 96 cruise. <i>Journal of Geophysical Research</i> , 2000, 105, 1105-1121.	3.3	85
23	The Transpolar Drift as a Source of Riverine and Shelf-Derived Trace Elements to the Central Arctic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015920.	1.0	80
24	Principles and Applications of the Noble Gas Paleothermometer. <i>Geophysical Monograph Series</i> , 0, , 89-100.	0.1	74
25	Studies of deep water formation and circulation in the Weddell Sea using natural and anthropogenic tracers. <i>Marine Chemistry</i> , 1991, 35, 97-122.	0.9	73
26	An Arctic Ocean cold core eddy. <i>Journal of Geophysical Research</i> , 2000, 105, 23997-24006.	3.3	73
27	Gas exchange, dispersion, and biological productivity on the West Florida Shelf: Results from a Lagrangian Tracer Study. <i>Geophysical Research Letters</i> , 1997, 24, 1767-1770.	1.5	72
28	Determination of Longitudinal Dispersion Coefficient and Net Advection in the Tidal Hudson River with a Large-Scale, High Resolution SF ₆ Tracer Release Experiment. <i>Environmental Science & Technology</i> , 2002, 36, 3234-3241.	4.6	72
29	Deep water formation and exchange rates in the Greenland/Norwegian Seas and the Eurasian Basin of the Arctic Ocean derived from tracer balances. <i>Progress in Oceanography</i> , 1995, 35, 29-52.	1.5	71
30	The first trans-Arctic ¹⁴ C section: comparison of the mean ages of the deep waters in the Eurasian and Canadian basins of the Arctic Ocean. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 123, 431-437.	0.6	68
31	Arsenic contamination of Bangladesh aquifers exacerbated by clay layers. <i>Nature Communications</i> , 2020, 11, 2244.	5.8	68
32	Long-term trends of temperature, salinity, density, and transient tracers in the central Greenland Sea. <i>Journal of Geophysical Research</i> , 1997, 102, 18553-18571.	3.3	65
33	Atmospheric Noble Gases. , 2000, , 349-377.		65
34	Low helium flux from the mantle inferred from simulations of oceanic helium isotope data. <i>Earth and Planetary Science Letters</i> , 2010, 297, 379-386.	1.8	64
35	On mechanisms of rain-induced air-water gas exchange. <i>Journal of Geophysical Research</i> , 2000, 105, 24045-24057.	3.3	62
36	Mobilization of Arsenic During One-Year Incubations of Grey Aquifer Sands from Araihasar, Bangladesh. <i>Environmental Science & Technology</i> , 2007, 41, 3639-3645.	4.6	62

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37	A parameter model of gas exchange for the seasonal sea ice zone. <i>Ocean Science</i> , 2014, 10, 17-28.	1.3	62
38	Influence of current velocity and wind speed on air-water gas exchange in a mangrove estuary. <i>Geophysical Research Letters</i> , 2016, 43, 3813-3821.	1.5	61
39	Helium: a new tracer in Antarctic oceanography. <i>Nature</i> , 1986, 321, 233-235.	13.7	57
40	A tracer study of the Floridan Aquifer in southeastern Georgia: Implications for groundwater flow and paleoclimate. <i>Water Resources Research</i> , 1997, 33, 281-289.	1.7	57
41	Woce Radiocarbon IV: Pacific Ocean Results; P10, P13N, P14C, P18, P19 & S4P. <i>Radiocarbon</i> , 2002, 44, 239-392.	0.8	57
42	Gas exchange rates in the tidal Hudson river using a dual tracer technique. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1994, 46, 274-285.	0.8	56
43	SF ₆ - ³ He Tracer Release Experiment: A New Method of Determining Longitudinal Dispersion Coefficients in Large Rivers. <i>Environmental Science & Technology</i> , 1996, 30, 1527-1532.	4.6	56
44	Excess ³ He in the ocean surface layer. <i>Journal of Geophysical Research</i> , 1987, 92, 6559-6568.	3.3	55
45	Mid-1980s distribution of tritium, ³ He, ¹⁴ C and ³⁹ Ar in the Greenland/Norwegian Seas and the Nansen Basin of the Arctic Ocean. <i>Progress in Oceanography</i> , 1995, 35, 1-28.	1.5	55
46	Grand Comore Island: A well-constrained low ³ He/ ⁴ He mantle plume. <i>Earth and Planetary Science Letters</i> , 2005, 233, 391-409.	1.8	55
47	The effect of rain on air-water gas exchange. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 49, 149.	0.8	53
48	The effect of rain on air-water gas exchange. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997, 49, 149-158.	0.8	53
49	The accretion rate of extraterrestrial ³ He based on oceanic ²³⁰ Th flux and the relation to Os isotope variation over the past 200,000 years in an Indian Ocean core. <i>Earth and Planetary Science Letters</i> , 1999, 170, 157-168.	1.8	52
50	Decrease of river runoff in the upper waters of the Eurasian Basin, Arctic Ocean, between 1991 and 1996: Evidence from ¹⁸ O data. <i>Geophysical Research Letters</i> , 2002, 29, 3-1-3-4.	1.5	51
51	Canadian Basin freshwater sources and changes: Results from the 2005 Arctic Ocean Section. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 2133-2154.	1.0	50
52	Gas exchange rates in the tidal Hudson river using a dual tracer technique. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 46, 274.	0.8	49
53	Rates and Mechanisms of Water Mass Transformation in the Labrador Sea as Inferred from Tracer Observations*. <i>Journal of Physical Oceanography</i> , 2002, 32, 666-686.	0.7	48
54	On Factors Controlling Air-Water Gas Exchange in a Large Tidal River. <i>Estuaries and Coasts</i> , 2011, 34, 1103-1116.	1.0	48

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55	On the ^{14}C and ^{39}Ar Distribution in the Central Arctic Ocean: Implications for Deep Water Formation. <i>Radiocarbon</i> , 1994, 36, 327-343.	0.8	47
56	Gas transfer velocities for SF_6 and ^3He in a small pond at low wind speeds. <i>Geophysical Research Letters</i> , 1995, 22, 93-96.	1.5	46
57	Influence of rain on air-sea gas exchange: Lessons from a model ocean. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	46
58	Equatorial Pacific productivity and dust flux during the mid-Pleistocene climate transition. <i>Paleoceanography</i> , 2005, 20, n/a-n/a.	3.0	46
59	Performance and Blank Components of a Mass Spectrometric System for Routine Measurement of Helium Isotopes and Tritium by the ^3He In-growth Method. , 1989, , .		46
60	Reversible adsorption and flushing of arsenic in a shallow, Holocene aquifer of Bangladesh. <i>Applied Geochemistry</i> , 2017, 77, 142-157.	1.4	41
61	Baroclinic Flow and Transient-Tracer Fields in the Canary-Cape Verde Basin. <i>Journal of Physical Oceanography</i> , 1986, 16, 814-826.	0.7	40
62	Ventilation rates of the waters in the Nansen Basin of the Arctic Ocean derived from a multitracer approach. <i>Journal of Geophysical Research</i> , 1990, 95, 3265-3272.	3.3	40
63	Abrupt intensification of the SW Indian Ocean monsoon during the last deglaciation: constraints from Th, Pa, and He isotopes. <i>Earth and Planetary Science Letters</i> , 2001, 184, 505-514.	1.8	40
64	Noble gases and radiocarbon in natural gas hydrates. <i>Geophysical Research Letters</i> , 2002, 29, 63-1-63-4.	1.5	40
65	The distribution of tritium and CFCs in the Weddell Sea during the mid-1980s. <i>Progress in Oceanography</i> , 1996, 38, 377-415.	1.5	39
66	The use of ^3H and tritogenic ^3He to determine CFC degradation and vertical mixing rates in Framvaren Fjord, Norway. <i>Marine Chemistry</i> , 1997, 59, 141-157.	0.9	37
67	Terrigenous helium in deep-sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1535-1543.	1.6	37
68	Sediment focusing creates 100-ka cycles in interplanetary dust accumulation on the Ontong Java Plateau. <i>Earth and Planetary Science Letters</i> , 2002, 203, 383-397.	1.8	36
69	Freshwater distribution in the Arctic Ocean: Simulation with a high-resolution model and model-data comparison. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
70	Variability in Atmospheric Chlorofluorocarbons (CCl_3F and CCl_2F_2) near a Large Urban Area: Implications for Groundwater Dating. <i>Environmental Science & Technology</i> , 1998, 32, 2377-2382.	4.6	34
71	Helium-3 balance of the upper layers of the northwestern Weddell sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1987, 34, 365-377.	1.6	32
72	Does interplanetary dust control 100 kyr glacial cycles?. <i>Quaternary Science Reviews</i> , 2004, 23, 1873-1878.	1.4	31

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73	Sea ice and its effect on CO ₂ flux between the atmosphere and the Southern Ocean interior. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	31
74	Tritium profiles in the Weddell Sea. <i>Marine Chemistry</i> , 1991, 35, 123-136.	0.9	30
75	Tritium-helium 3 dating under complex conditions in hydraulically stressed areas of a buried-valley aquifer. <i>Water Resources Research</i> , 1998, 34, 1165-1180.	1.7	29
76	Mantle ³ He distribution and deep circulation in the Indian Ocean. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	28
77	Uncertainties in gas exchange parameterization during the SAGE dual-tracer experiment. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 869-881.	0.6	28
78	Characterizing a Sewage Plume Using the 3H-3He Dating Technique. <i>Ground Water</i> , 1999, 37, 861-878.	0.7	25
79	³ He in the Bransfield Strait waters: indication for local injection from back-arc rifting. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1988, 35, 1919-1935.	1.6	23
80	Objective estimates of mantle ³ He in the ocean and implications for constraining the deep ocean circulation. <i>Earth and Planetary Science Letters</i> , 2017, 458, 305-314.	1.8	23
81	Transport in the Hudson estuary: A modeling study of estuarine circulation and tidal trapping. <i>Estuaries and Coasts</i> , 2004, 27, 527-538.	1.7	22
82	Deep-water renewal in Lake Issyk-Kul. <i>Geophysical Research Letters</i> , 2002, 29, 124-1-124-4.	1.5	21
83	Comparison of age distributions estimated from environmental tracers by using binary-dilution and numerical models of fractured and folded karst: Shenandoah Valley of Virginia and West Virginia, USA. <i>Hydrogeology Journal</i> , 2013, 21, 1193-1217.	0.9	21
84	Evidence of an active volcanic heat source beneath the Pine Island Glacier. <i>Nature Communications</i> , 2018, 9, 2431.	5.8	21
85	A comprehensive global oceanic dataset of helium isotope and tritium measurements. <i>Earth System Science Data</i> , 2019, 11, 441-454.	3.7	21
86	Atmospheric SF ₆ near a large urban area. <i>Geophysical Research Letters</i> , 2000, 27, 1679-1682.	1.5	20
87	Widespread elevated atmospheric SF ₆ mixing ratios in the Northeastern United States: Implications for groundwater dating. <i>Journal of Hydrology</i> , 2008, 349, 139-146.	2.3	20
88	Earth science for sustainability. <i>Nature Geoscience</i> , 2012, 5, 587-588.	5.4	20
89	²²⁶ Ra and Ba in northeast Atlantic deep water. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1987, 34, 1541-1564.	1.6	19
90	Transport Dynamics in a Sheltered Estuary and Connecting Tidal Straits: A SF ₆ Tracer Study in New York Harbor. <i>Environmental Science & Technology</i> , 2003, 37, 5116-5126.	4.6	19

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91	Distribution of Atmospheric SF ₆ near a Large Urban Area As Recorded in the Vadose Zone. Environmental Science & Technology, 2003, 37, 1069-1074.	4.6	19
92	White Arctic vs. Blue Arctic: A case study of diverging stakeholder responses to environmental change. Earth's Future, 2016, 4, 396-405.	2.4	17
93	Oxygen utilization rates in the Nansen Basin, Arctic Ocean; implications for new production. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 1923-1943.	0.6	16
94	Transient Tracer Observations from the Western Weddell Sea During the Drift and Recovery of Ice Station Weddell. Antarctic Research Series, 0, , 241-256.	0.2	14
95	On the waters upstream of Nares Strait, Arctic Ocean, from 1991 to 2012. Continental Shelf Research, 2014, 73, 83-96.	0.9	14
96	Tracer Study of Mixing and Transport in the Upper Hudson River with Multiple Dams. Journal of Environmental Engineering, ASCE, 2004, 130, 1498-1506.	0.7	13
97	Mantle helium reveals Southern Ocean hydrothermal venting. Geophysical Research Letters, 2010, 37, .	1.5	13
98	Comparison of SF ₆ and Fluorescein as Tracers for Measuring Transport Processes in a Large Tidal River. Journal of Environmental Engineering, ASCE, 2006, 132, 1664-1669.	0.7	12
99	High-precision measurement of oceanic ²²⁶ Ra. Marine Chemistry, 1984, 15, 203-216.	0.9	11
100	Correction to "Measurements of air-sea gas exchange at high wind speeds in the Southern Ocean: Implications for global parameterizations" Geophysical Research Letters, 2006, 33, .	1.5	11
101	Tracing groundwater with low-level detections of halogenated VOCs in a fractured carbonate-rock aquifer, Leetown Science Center, West Virginia, USA. Applied Geochemistry, 2013, 33, 260-280.	1.4	11
102	Air-Sea Gas Exchange and CO ₂ Fluxes in a Tropical Coral Reef Lagoon. Journal of Geophysical Research: Oceans, 2018, 123, 8701-8713.	1.0	10
103	A simple model of the Arctic Ocean response to annular atmospheric modes. Journal of Geophysical Research, 2006, 111, .	3.3	9
104	Environmental isotopes and noble gases in the deep aquifer system of Kazan Trona Ore Field, Ankara, central Turkey and links to paleoclimate. Quaternary Research, 2013, 79, 292-303.	1.0	8
105	Long-Term Mean Mass, Heat and Nutrient Flux Through the Indonesian Seas, Based on the Tritium Inventory in the Pacific and Indian Oceans. Journal of Geophysical Research: Oceans, 2019, 124, 3859-3875.	1.0	8
106	Behavior of a Medium-Sized Basin Connected to a Large Lake. Brock/Springer Series in Contemporary Bioscience, 1990, , 133-155.	0.3	8
107	Effect of Tides on Solute Flushing from a Strait: A Imaging Flow and Transport in the East River with SF ₆ . Environmental Science & Technology, 2004, 38, 4562-4571.	4.6	7
108	A lightweight vertical rosette for deployment in ice-covered waters. Deep-Sea Research Part I: Oceanographic Research Papers, 2011, 58, 460-467.	0.6	7

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109	Currents and convection cause enhanced gas exchange in the ice-water boundary layer. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 68, 32803.	0.8	7
110	Using dual-domain advective-transport simulation to reconcile multiple-tracer ages and estimate dual-porosity transport parameters. <i>Water Resources Research</i> , 2017, 53, 5002-5016.	1.7	7
111	15. Noble Gases in Ocean Waters and Sediments. , 2002, , 701-730.		7
112	Seasonal Variability and Long Term Trends of Chlorofluorocarbon Mixing Ratios in the Unsaturated Zone. <i>Environmental Science & Technology</i> , 2006, 40, 4414-4420.	4.6	6
113	Atmospheric variability and emissions of halogenated trace gases near New York City. <i>Atmospheric Environment</i> , 2012, 47, 533-540.	1.9	6
114	Reply to comment by X. Zhang on "Measurements of air-sea gas exchange at high wind speeds in the Southern Ocean: Implications for global parameterizations". <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	5
115	An SF6 Tracer Study of the Flow Dynamics in the Stockton Deep Water Ship Channel: Implications for Dissolved Oxygen Dynamics. <i>Estuaries and Coasts</i> , 2008, 31, 1038-1051.	1.0	5
116	Changes in gross oxygen production, net oxygen production, and air-water gas exchange during seasonal ice melt in Whycocomagh Bay, a Canadian estuary in the Bras d'Or Lake system. <i>Biogeosciences</i> , 2019, 16, 3351-3376.	1.3	5
117	Electronics for low-level counting using a microcomputer. <i>Nuclear Instruments & Methods in Physics Research</i> , 1983, 216, 155-160.	0.9	4
118	14C Profiles in the Central Weddell Sea. <i>Radiocarbon</i> , 1989, 31, 544-556.	0.8	4
119	Analysis of groundwater dynamics in the complex aquifer system of Kazan Trona, Turkey, using environmental tracers and noble gases. <i>Hydrogeology Journal</i> , 2015, 23, 175-194.	0.9	3
120	The Arctic Highlights Our Failure to Act in a Rapidly Changing World. <i>Sustainability</i> , 2022, 14, 1882.	1.6	3
121	The North Pole Region as an Indicator of the Changing Arctic Ocean: The Need for Sustaining Observations. <i>Arctic</i> , 2018, 71, .	0.2	2
122	Introduction to special section: Maurice Ewing Symposium on Applications of Trace Substance Measurements to Oceanographic Problems. <i>Journal of Geophysical Research</i> , 1998, 103, 15815-15815.	3.3	1
123	KARL OTTO MÄNNICH (1925-2003): IN MEMORIAM. <i>Radiocarbon</i> , 0, , 1-5.	0.8	1
124	Apparent oxygen utilization rates based on tritium-helium dating in the South China Sea: Implications for export production. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2021, 177, 103620.	0.6	1
125	A Rosette for Sampling Ice-Covered Water. <i>Oceanography</i> , 2011, 24, 160-161.	0.5	1
126	The U.S. Arctic observing network (AON): A component of the study of Environmental Arctic Change. , 2008, , .		0

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127	System Configuration. , 1989, , 10-16.		0
128	Messung anthropogener Spurenstoffe zum besseren VerstÄndnis der GrundwasserflieÄodynamik und GrundwassergefÄhrdung. , 1997, , 83-99.		0