

# Jan C Scholten

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

2,358  
citations

257450

24  
h-index

206112

48  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying submarine groundwater discharge in the coastal zone via multiple methods. <i>Science of the Total Environment</i> , 2006, 367, 498-543.	8.0	791
2	Indication for Supernova Produced $^{60}\text{Fe}$ Activity on Earth. <i>Physical Review Letters</i> , 1999, 83, 18-21.	7.8	160
3	First observations of high-temperature submarine hydrothermal vents and massive anhydrite deposits off the north coast of Iceland. <i>Marine Geology</i> , 2001, 177, 199-220.	2.1	92
4	Sediment accumulation rates in subpolar fjords – Impact of post-Little Ice Age glaciers retreat, Billefjorden, Svalbard. <i>Estuarine, Coastal and Shelf Science</i> , 2009, 85, 345-356.	2.1	79
5	$^{228}\text{Ra}$ as a tracer for shelf water in the arctic ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 1533-1553.	1.4	68
6	$^{230}\text{Th}$ in the eastern North Atlantic: the importance of water mass ventilation in the balance of $^{230}\text{Th}$ . <i>Earth and Planetary Science Letters</i> , 1998, 156, 61-74.	4.4	67
7	Geochemistry of hydrothermal manganese deposits from the Pitcairn Island hotspot, southeastern Pacific. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5011-5029.	3.9	54
8	Radium isotopes as submarine groundwater discharge (SGD) tracers: Review and recommendations. <i>Earth-Science Reviews</i> , 2021, 220, 103681.	9.1	51
9	Recycling of manganese from anoxic sediments in stagnant basins by seawater inflow: a study of surface sediments from the Gotland Basin, Baltic Sea. <i>Marine Geology</i> , 2001, 177, 151-166.	2.1	48
10	Advection and scavenging: Effects on $^{230}\text{Th}$ and $^{231}\text{Pa}$ distribution off Southwest Africa. <i>Earth and Planetary Science Letters</i> , 2008, 271, 159-169.	4.4	48
11	Submarine Groundwater Discharge at a Single Spot Location: Evaluation of Different Detection Approaches. <i>Water (Switzerland)</i> , 2014, 6, 584-601.	2.7	46
12	Benthic fluxes of trace metals in the Chukchi Sea and their transport into the Arctic Ocean. <i>Marine Chemistry</i> , 2019, 208, 43-55.	2.3	45
13	Growth history of a hydrothermal silica chimney from the Mariana backarc spreading center (southwest Pacific, $18^{\circ}13'\text{N}$ ). <i>Chemical Geology</i> , 1994, 113, 273-296.	3.3	43
14	Assessing land-ocean connectivity via submarine groundwater discharge (SGD) in the Ria Formosa Lagoon (Portugal): combining radon measurements and stable isotope hydrology. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3077-3098.	4.9	43
15	$^{231}\text{Pa}$ and $^{230}\text{Th}$ in surface sediments of the Arctic Ocean: Implications for $^{231}\text{Pa}/^{230}\text{Th}$ fractionation, boundary scavenging, and advective export. <i>Earth and Planetary Science Letters</i> , 2005, 234, 235-248.	4.4	35
16	Late Holocene intermediate water variability in the northeastern Atlantic as recorded by deep-sea corals. <i>Earth and Planetary Science Letters</i> , 2012, 313-314, 34-44.	4.4	35
17	Retention and fate of groundwater-borne nitrogen in a coastal bay (Kinvara Bay, Western Ireland) during summer. <i>Biogeochemistry</i> , 2015, 125, 275-299.	3.5	35
18	Coupling End-Member Mixing Analysis and Isotope Mass Balancing ( $^{222}\text{Rn}$ ) for Differentiation of Fresh and Recirculated Submarine Groundwater Discharge Into Knysna Estuary, South Africa. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 952-970.	2.6	33

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19	Preparation of Mn-fiber standards for the efficiency calibration of the delayed coincidence counting system (RaDeCC). <i>Marine Chemistry</i> , 2010, 121, 206-214.	2.3	29
20	Modern sediments and sediment accumulation rates on the narrow shelf off central Vietnam, South China Sea. <i>Geo-Marine Letters</i> , 2009, 29, 47-59.	1.1	27
21	Underwater in situ measurements of radionuclides in selected submarine groundwater springs, Mediterranean Sea. <i>Radiation Protection Dosimetry</i> , 2010, 142, 273-281.	0.8	27
22	<sup>226</sup> Ra measurements through gamma spectrometric counting of radon progenies: How significant is the loss of radon?. <i>Marine Chemistry</i> , 2013, 156, 146-152.	2.3	26
23	Carbon and alkalinity outwelling across the <scp>groundwaterâ€creekâ€shelf</scp> continuum off Amazonian mangroves. <i>Limnology and Oceanography Letters</i> , 2021, 6, 369-378.	3.9	26
24	High resolution <sup>230</sup> Th stratigraphy of sediments from high-latitude areas (Norwegian Sea, Fram) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	4.4	25
25	Spatial and temporal variability of particle flux at the N.W. European continental margin. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 3083-3106.	1.4	25
26	Submarine groundwater discharge site in the First SalpausselkÃ ice-marginal formation, south Finland. <i>Solid Earth</i> , 2019, 10, 405-423.	2.8	25
27	Unprecedented Fe delivery from the Congo River margin to the South Atlantic Gyre. <i>Nature Communications</i> , 2020, 11, 556.	12.8	25
28	GEOTRACES radium isotopes interlaboratory comparison experiment. <i>Limnology and Oceanography: Methods</i> , 2012, 10, 451-463.	2.0	24
29	Improved Approach for the Investigation of Submarine Groundwater Discharge by Means of Radon Mapping and Radon Mass Balancing. <i>Water (Switzerland)</i> , 2019, 11, 749.	2.7	24
30	The effect of long-term and decadal climate and hydrology variations on estuarine marsh dynamics: An identifying case study from the RÃo de la Plata. <i>Geomorphology</i> , 2016, 269, 122-132.	2.6	23
31	Sources, Degradation, and Transport of Organic Matter in the New Britain Shelfâ€Trench Continuum, Papua New Guinea. <i>Journal of Geophysical Research C: Biogeosciences</i> , 2019, 124, 1680-1695.	3.0	22
32	Complex Eyed Pockmarks and Submarine Groundwater Discharge Revealed by Acoustic Data and Sediment Cores in EckernfÃrde Bay, SW Baltic Sea. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008825.	2.5	22
33	Contribution of <sup>230</sup> Th measurements to the estimation of the abyssal circulation. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2007, 54, 557-585.	1.4	20
34	A State-Of-The-Art Perspective on the Characterization of Subterranean Estuaries at the Regional Scale. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	20
35	Mineralogy and geochemistry of clay samples from active hydrothermal vents off the north coast of Iceland. <i>Marine Geology</i> , 2006, 225, 177-190.	2.1	19
36	Controls on redox-sensitive trace metals in the Mauritanian oxygen minimum zone. <i>Biogeosciences</i> , 2019, 16, 4157-4182.	3.3	18

#	ARTICLE	IF	CITATIONS
37	Hydrothermal sediment alteration at a seafloor vent field: Grimsey Graben, Tj�rnnes Fracture Zone, north of Iceland. Journal of Geophysical Research, 2008, 113, .	3.3	16
38	Marine Chemistry special issue: The renaissance of radium isotopic tracers in marine processes studies. Marine Chemistry, 2008, 109, 185-187.	2.3	15
39	Occurrence of kaolinite and mixed-layer kaolinite/smectite in hydrothermal sediments of Grimsey Graben, Tj�rnnes Fracture Zone (north of Iceland). Marine Geology, 2005, 215, 159-170.	2.1	12
40	A GIS typology to locate sites of submarine groundwater discharge. Journal of Environmental Radioactivity, 2015, 145, 10-18.	1.7	12
41	A Multi-Tracer Study of Fresh Water Sources for a Temperate Urbanized Coastal Bay (Southern Baltic) Tj ETQq1 1 0,784314 rgBT /Overd	3.3	12
42	Defining a biogeochemical baseline for sediments at Carbon Capture and Storage (CCS) sites: An example from the North Sea (Goldeneye). International Journal of Greenhouse Gas Control, 2021, 106, 103265.	4.6	11
43	Inter-comparison of radium analysis in coastal sea water of the Asian region. Marine Chemistry, 2013, 156, 138-145.	2.3	10
44	Carbonate recrystallisation and organic matter maturation in heat-affected sediments from the Shaban Deep, Red Sea. Chemical Geology, 2011, 280, 126-143.	3.3	8
45	No freshwater-filled glacial Arctic Ocean. Nature, 2022, 602, E1-E3.	27.8	7
46	Preparation of MnO2 coated fibers for gamma spectrometric measurements - A comparison of four practical approaches. Journal of Environmental Radioactivity, 2018, 189, 197-201.	1.7	6
47	Phosphorous Supply to a Eutrophic Artificial Lake: Sedimentary versus Groundwater Sources. Water (Switzerland), 2021, 13, 563.	2.7	6
48	Intercalibration of selected anthropogenic radionuclides for the GEOTRACES Program. Limnology and Oceanography: Methods, 2012, 10, 590-607.	2.0	5
49	Marine Radioactivity Analysis. , 2012, , 769-832.		4
50	Use of <sup>223</sup> Ra and <sup>224</sup> Ra as chronometers to estimate the residence time of Amazon waters on the Brazilian continental shelf. Limnology and Oceanography, 2022, 67, 753-767.	3.1	4
51	On the use of MnO2 cartridges for the plutonium determination in seawater. Journal of Environmental Radioactivity, 2019, 204, 66-75.	1.7	2
52	Ladolam Gold Deposit, Lihir Island, Papua New Guinea <subtitle>Gold Mineralization Hosted by Alkaline Rocks</subtitle>. , 2002, , .		2
53	Natural Radionuclides as Aquatic Tracers in the Terrestrial and the Coastal/Marine Environment. Water (Switzerland), 2021, 13, 742.	2.7	1
54	Marine radioactivity analysis. , 2020, , 315-392.		0