

David C Smith

List of Publications by Year in descending order

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47
papers

6,763
citations

172457

29
h-index

233421

45
g-index

48
all docs

48
docs citations

48
times ranked

6516
citing authors

#	ARTICLE	IF	CITATIONS
1	Intense hydrolytic enzyme activity on marine aggregates and implications for rapid particle dissolution. <i>Nature</i> , 1992, 359, 139-142.	27.8	889
2	Global distribution of microbial abundance and biomass in subseafloor sediment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 16213-16216.	7.1	827
3	Distributions of Microbial Activities in Deep Subseafloor Sediments. <i>Science</i> , 2004, 306, 2216-2221.	12.6	681
4	The Cenozoic palaeoenvironment of the Arctic Ocean. <i>Nature</i> , 2006, 441, 601-605.	27.8	471
5	Variability in ectohydrolytic enzyme activities of pelagic marine bacteria and its significance for substrate processing in the sea. <i>Aquatic Microbial Ecology</i> , 1996, 10, 223-230.	1.8	309
6	Bacteria-organic matter coupling and its significance for oceanic carbon cycling. <i>Microbial Ecology</i> , 1994, 28, 167-179.	2.8	263
7	Abundance and production of bacteria and viruses in the Bering and Chukchi Seas. <i>Marine Ecology - Progress Series</i> , 1996, 131, 287-300.	1.9	262
8	Subseafloor sedimentary life in the South Pacific Gyre. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11651-11656.	7.1	261
9	Bacterial mediation of carbon fluxes during a diatom bloom in a mesocosm. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 75-97.	1.4	235
10	Presence of oxygen and aerobic communities from sea floor to basement in deep-sea sediments. <i>Nature Geoscience</i> , 2015, 8, 299-304.	12.9	226
11	Bacterial diversity and community composition from seafloor to subseafloor. <i>ISME Journal</i> , 2016, 10, 979-989.	9.8	223
12	Microbial food web structure in the Arabian Sea: a US JGOFS study. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 1387-1422.	1.4	198
13	New insights into deformation and fluid flow processes in the Nankai Trough accretionary prism: Results of Ocean Drilling Program Leg 190. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	2.5	189
14	Spatial distribution of viruses, bacteria and chlorophyll a in nentic, oceanic and estuarine environments. <i>Marine Ecology - Progress Series</i> , 1993, 92, 77-87.	1.9	187
15	Characteristics, distribution and persistence of thin layers over a 48 hour period. <i>Marine Ecology - Progress Series</i> , 2003, 261, 1-19.	1.9	171
16	Tracer-Based Estimates of Drilling-Induced Microbial Contamination of Deep Sea Crust. <i>Geomicrobiology Journal</i> , 2000, 17, 207-219.	2.0	144
17	New cell extraction procedure applied to deep subsurface sediments. <i>Limnology and Oceanography: Methods</i> , 2008, 6, 236-245.	2.0	131
18	Blooms of sequence-specific culturable bacteria in the sea. <i>FEMS Microbiology Letters</i> , 1993, 102, 161-166.	1.8	126

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19	Molecular analysis of deep subsurface microbial communities in Nankai Trough sediments (ODP Leg 201) Tj ETQq1 1 0.784314 rgBT/Overbor	2.7	125
20	The seasonal development of the bacterioplankton bloom in the Ross Sea, Antarctica, 1994-1997. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 4199-4221.	1.4	100
21	Multiplex Quantitative Real-Time Reverse Transcriptase PCR for F + -Specific RNA Coliphages: a Method for Use in Microbial Source Tracking. Applied and Environmental Microbiology, 2007, 73, 808-814.	3.1	71
22	Archaea dominate oxic subseafloor communities over multimillion-year time scales. Science Advances, 2019, 5, eaaw4108.	10.3	70
23	Heterotrophic bacterioplankton in the Arabian Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 48, 1303-1323.	1.4	57
24	The role of the microbial loop in Antarctic pelagic ecosystems. Polar Research, 1991, 10, 239-244.	1.6	51
25	Seasonal patterns in bacterioplankton abundance and production in Narragansett Bay, Rhode Island, USA. Aquatic Microbial Ecology, 2004, 35, 275-282.	1.8	46
26	Measurement of copepod predation on nauplii using qPCR of the cytochrome oxidase I gene. Marine Biology, 2008, 153, 699-707.	1.5	45
27	Nucleic acids from the host bacterium as a major source of nucleotides for three marine bacteriophages. FEMS Microbiology Ecology, 1993, 12, 237-248.	2.7	42
28	Targeted search for actinomycetes from nearshore and deep-sea marine sediments. FEMS Microbiology Ecology, 2013, 84, 510-518.	2.7	35
29	Community and household determinants of water quality in coastal Ghana. Journal of Water and Health, 2008, 6, 339-349.	2.6	34
30	Dissolved Oxygen Saturation Controls PAH Biodegradation in Freshwater Estuary Sediments. Microbial Ecology, 2005, 49, 226-235.	2.8	29
31	Chlorine dioxide as a treatment for ballast water to control invasive species: Shipboard testing. Marine Pollution Bulletin, 2013, 75, 76-89.	5.0	29
32	Microbial diversity in Cenozoic sediments recovered from the Lomonosov Ridge in the Central Arctic Basin. Environmental Microbiology, 2009, 11, 630-639.	3.8	24
33	The contribution of water radiolysis to marine sedimentary life. Nature Communications, 2021, 12, 1297.	12.8	24
34	Bacterial and archaeal biogeography of the deep chlorophyll maximum in the South Pacific Gyre. Aquatic Microbial Ecology, 2015, 75, 1-13.	1.8	24
35	Significance of bacteria in carbon fluxes in the Arabian Sea. Journal of Earth System Science, 1994, 103, 341-351.	1.3	24
36	Bacterial transformation and transport of organic matter in the Southern California Bight. Progress in Oceanography, 1992, 30, 151-166.	3.2	23

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37	Atribacteria Reproducing over Millions of Years in the Atlantic Abyssal Subseafloor. <i>MBio</i> , 2020, 11, .	4.1	23
38	An improved electroelution method for separation of DNA from humic substances in marine sediment DNA extracts. <i>FEMS Microbiology Ecology</i> , 2009, 69, 125-131.	2.7	21
39	PAH mineralization and bacterial organotolerance in surface sediments of the Charleston Harbor estuary. <i>Biodegradation</i> , 2010, 21, 257-266.	3.0	19
40	Exploration of Life in Deep Subseafloor Sediments. <i>Oceanography</i> , 2006, 19, 58-70.	1.0	14
41	Bacteria in Oceanic Carbon Cycling as a Molecular Problem. , 1995, , 39-54.		12
42	A versatile and sensitive tritium-based radioassay for measuring hydrogenase activity in aquatic sediments. <i>Journal of Microbiological Methods</i> , 2006, 66, 136-146.	1.6	11
43	Hydrogenase Activity in Deeply Buried Sediments of the Arctic and North Atlantic Oceans. <i>Geomicrobiology Journal</i> , 2009, 26, 537-545.	2.0	8
44	Effects of Oxygenation on Hydrocarbon Biodegradation in a Hypoxic Environment. <i>Bioremediation Journal</i> , 2001, 5, 145-157.	2.0	4
45	Bacterial Production Stimulated Across the Zone of Influence of a Ground Water Circulation Well in a BTEX-Contaminated Aquifer. <i>Ground Water Monitoring and Remediation</i> , 2002, 22, 144-150.	0.8	3
46	MARINE BIOLOGY: Expansion of the Marine Archaea. <i>Science</i> , 2001, 293, 56-57.	12.6	2
47	Seasonal Succession of the PAH-Mineralizing Bacteria in Creosote-Impacted Intertidal Sediments. <i>Soil and Sediment Contamination</i> , 2002, 11, 479-479.	1.9	0