J William Schopf

List of Publications by Year
in descending order

77 papers	5,080 citations	125106 35 h-index	120465 65 g-index
81 all docs	81 docs citations	81 times ranked	3435 citing authors

#	Article	IF	Citations
1	Carbon isotopes of Proterozoic filamentous microfossils: SIMS analyses of ancient cyanobacteria from two disparate shallow-marine cherts. Geomicrobiology Journal, 2021, 38, 719-731.	1.0	3
2	Precambrian Paleobiology: Precedents, Progress, and Prospects. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	2
3	Global microfossil changes through the Precambrian-Cambrian phosphogenic event: The Shabakta Formation of the phosphorite-bearing Maly Karatau Range, South Kazakhstan. Precambrian Research, 2020, 349, 105386.	1.2	8
4	Application of the apatite oxygen paleobarometer (AOP) across the Neoproterozoic-Cambrian transition. Precambrian Research, 2020, 349, 105404.	1.2	3
5	SIMS analyses of the oldest known assemblage of microfossils document their taxon-correlated carbon isotope compositions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 53-58.	3.3	131
6	Reconstructed ancestral enzymes suggest long-term cooling of Earthâ€™s photic zone since the Archean. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 4619-4624.	3.3	53
7	Carbonaceous and siliceous Neoproterozoic vase-shaped microfossils (Urucum Formation, Brazil) and the question of early protistan biomineralization. Journal of Paleontology, 2017, 91, 393-406.	0.5	35
8	An anaerobic â¼3400 Ma shallow-water microbial consortium: Presumptive evidence of Earthâ€™s Paleoarchean anoxic atmosphere. Precambrian Research, 2017, 299, 309-318.	1.2	28
9	Palaeontology, Microbial â˜†. , 2017, , .		0
10	In situ confocal laser scanning microscopy and Raman spectroscopy of bisaccate pollen from the Irati Subgroup (Permian, ParanÃ¡ Basin, Brazil): Comparison with acid-macerated specimens. Review of Palaeobotany and Palynology, 2016, 233, 169-175.	0.8	12
11	Carbonate mineralogy of a tropical bryozoan biota and its vulnerability to ocean acidification. Marine Biology Research, 2016, 12, 776-780.	0.3	13
12	Calcitization of aragonitic bryozoans in Cenozoic tropical carbonates from East Kalimantan, Indonesia. Facies, 2016, 62, 1.	0.7	3
13	A new approach to ancient microorganisms: taxonomy, paleoecology, and biostratigraphy of the Lower Cambrian Berkuta and Chulaktau microbiotas of South Kazakhstan. Journal of Paleontology, 2015, 89, 695-729.	0.5	23
14	Evidence of compositional and ultrastructural shifts during the development of calcareous tubes in the biofouling tubeworm, Hydroides elegans. Journal of Structural Biology, 2015, 189, 230-237.	1.3	10
15	Sulfur-cycling fossil bacteria from the 1.8-Ga Duck Creek Formation provide promising evidence of evolution's null hypothesis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2087-2092.	3.3	51
16	Reply to DvoÅ™Ã¡k et al.: Apparent evolutionary stasis of ancient subseafloor sulfur cycling biocoenoses. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2560-E2560.	3.3	0
17	Geological evidence of oxygenic photosynthesis and the biotic response to the 2400-2200 Ma â€œGreat Oxidation Eventâ€• Biochemistry (Moscow), 2014, 79, 165-177.	0.7	33
18	Reply to the comments of D.L. Pinti, R. Mineau and V. Clement, and of A.O. Marshall and C.P. Marshall on â€œBiogenicity of Earth's earliest fossils: A resolution of the controversyâ€•by J. William Schopf and Anatoliy B. Kudryavtsev, Gondwana Research 22 (2012), 761-771. Gondwana Research, 2013, 23, 1656-1658.	3.0	12

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19	Preservation and detection of microstructural and taxonomic correlations in the carbon isotopic compositions of individual Precambrian microfossils. Geochimica Et Cosmochimica Acta, 2013, 104, 165-182.	1.6	72
20	Characterization of the stem anatomy of the Eocene fern Dennstaedtiopsis aerenchymata (Dennstaedtiaceae) by use of confocal laser scanning microscopy. American Journal of Botany, 2013, 100, 1626-1640.	0.8	14
21	Application of Raman-based images in the Earth sciences. Springer Series in Optical Sciences, 2012, , 145-187.	0.5	24
22	Gypsum-Permineralized Microfossils and Their Relevance to the Search for Life on Mars. Astrobiology, 2012, 12, 619-633.	1.5	61
23	Biogenicity of Earth's earliest fossils: A resolution of the controversy. Gondwana Research, 2012, 22, 761-771.	3.0	110
24	The Fossil Record of Cyanobacteria. , 2012, , 15-36.		38
25	J. William Schopf. Astrobiology, 2011, 11, 9-14.	1.5	0
26	Confocal Laser Scanning Microscopy and Raman (and Fluorescence) Spectroscopic Imagery of Permineralized Cambrian and Neoproterozoic Fossils. Topics in Geobiology, 2011, , 241-270.	0.6	5
27	Phosphate biomineralization in mid-Neoproterozoic protists. Geology, 2011, 39, 539-542.	2.0	62
28	Biogenicity of Apex Chert microstructures. Nature Geoscience, 2011, 4, 346-347.	5.4	8
29	The paleobiological record of photosynthesis. Photosynthesis Research, 2011, 107, 87-101.	1.6	89
30	Micro- and nano-scale ultrastructure of cell walls in Cryogenian microfossils: revealing their biological affinity. Lethaia, 2010, 43, 129-136.	0.6	31
31	A renaissance in studies of ancient life. Geology Today, 2010, 26, 140-145.	0.3	21
32	Confocal laser scanning microscopy and Raman imagery of the late Neoproterozoic Chichkan microbiota of South Kazakhstan. Journal of Paleontology, 2010, 84, 402-416.	0.5	37
33	Precambrian microbe-like pseudofossils: A promising solution to the problem. Precambrian Research, 2010, 179, 191-205.	1.2	72
34	Taxonomy, paleoecology and biostratigraphy of the late Neoproterozoic Chichkan microbiota of South Kazakhstan: the marine biosphere on the eve of metazoan radiation. Journal of Paleontology, 2010, 84, 363-401.	0.5	57
35	Three-Dimensional Morphological (CLSM) and Chemical (Raman) Imagery of Cellularly Mineralized Fossils. Topics in Geobiology, 2010, , 457-486.	0.6	7
36	Characterization of permineralized kerogen from an Eocene fossil fern. Organic Geochemistry, 2009, 40, 353-364.	0.9	35

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37	Confocal laser scanning microscopy and Raman imagery of ancient microscopic fossils. Precambrian Research, 2009, 173, 39-49.	1.2	110
38	Calcite and aragonite distributions in the skeletons of bimineralic bryozoans as revealed by Raman spectroscopy. Invertebrate Biology, 2008, 127, 87-97.	0.3	47
39	Discovery of a New Chert-Permineralized Microbiota in the Proterozoic Buxa Formation of the Ranjit Window, Sikkim, Northeast India, and Its Astrobiological Implications. Astrobiology, 2008, 8, 735-746.	1.5	39
40	Raman spectra of a Lower Cambrian ctenophore embryo from southwestern Shaanxi, China. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6289-6292.	3.3	95
41	Evidence of Archean life: Stromatolites and microfossils. Precambrian Research, 2007, 158, 141-155.	1.2	312
42	Raman and ion microscopic imagery of graphitic inclusions in apatite from older than 3830 Ma Akilia supracrustal rocks, west Greenland. Geology, 2007, 35, 591.	2.0	92
43	Three-Dimensional Confocal Optical Imagery of Precambrian Microscopic Organisms. Astrobiology, 2006, 6, 1-16.	1.5	91
44	Fossil evidence of Archaean life. Philosophical Transactions of the Royal Society B: Biological Sciences, 2006, 361, 869-885.	1.8	396
45	Three-dimensional Raman imagery of precambrian microscopic organisms. Geobiology, 2005, 3, 1-12.	1.1	110
46	Raman Imagery: A New Approach to Assess the Geochemical Maturity and Biogenicity of Permineralized Precambrian Fossils. Astrobiology, 2005, 5, 333-371.	1.5	193
47	Focussed ion beam preparation and in situ nanoscopic study of Precambrian acritarchs. Precambrian Research, 2005, 140, 36-54.	1.2	50
48	Extinctions in life's earliest history. , 2004, , 35-60.		1
49	Geochemical and submicron-scale morphologic analyses of individual Precambrian microorganisms. Geochemical Society Special Publications, 2004, 9, 365-375.	0.1	5
50	Morphological Biosignatures and the Search for Life on Mars. Astrobiology, 2003, 3, 351-368.	1.5	244
51	Atomic force microscopy of Precambrian microscopic fossils. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9117-9120.	3.3	47
52	Longâ€living lotus: germination and soil Î³â€irradiation of centuriesâ€old fruits, and cultivation, growth, and phenotypic abnormalities of offspring. American Journal of Botany, 2002, 89, 236-247.	0.8	90
53	Laserâ€“Raman imagery of Earth's earliest fossils. Nature, 2002, 416, 73-76.	13.7	557
54	Images of the Earth's earliest fossils?. Nature, 2002, 420, 477-477.	13.7	14

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55	Carbon isotopic composition of individual Precambrian microfossils. Geology, 2000, 28, 707.	2.0	157
56	Solution to Darwin's dilemma: Discovery of the missing Precambrian record of life. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 6947-6953.	3.3	52
57	Carbon isotopic composition of individual Precambrian microfossils. Geology, 2000, 28, 707-710.	2.0	16
58	Precambrian: The Age of Microscopic Life. The Paleontological Society Special Publications, 1996, 8, 345-345.	0.0	0
59	Exceptional Seed Longevity and Robust Growth: Ancient Sacred Lotus from China. American Journal of Botany, 1995, 82, 1367.	0.8	94
60	Abundances and Isotopic Compositions of Carbon and Sulfur Species in Whole Rock and Kerogen Samples. , 1992, , 709-798.		60
61	Proterozoic and Selected Early Cambrian Microfossils and Microfossil-Like Objects. , 1992, , 865-952.		45
62	Atlas of Representative Proterozoic Microfossils. , 1992, , 1055-1118.		28
63	Geology and Paleobiology of the Archean Earth. , 1992, , 5-42.		5
64	Proterozoic Biogeochemistry. , 1992, , 81-134.		23
65	Evolution of the Proterozoic Biosphere: Benchmarks, Tempo, and Mode. , 1992, , 583-600.		12
66	Precambrian Biochemical Evolution. Short Courses in Paleontology, 1988, 1, 89-97.	0.2	0
67	Microfossils in stromatolitic cherts from the proterozoic allamoore formation of west texas. Precambrian Research, 1981, 16, 129-141.	1.2	12
68	The Evolution of the Earliest Cells. Scientific American, 1978, 239, 110-138.	1.0	130
69	Biostratigraphic usefulness of stromatolitic precambrian microbiotas: A preliminary analysis. Precambrian Research, 1977, 5, 143-173.	1.2	91
70	Are the oldest ?fossils?, fossils?. Origins of Life and Evolution of Biospheres, 1976, 7, 19-36.	0.6	56
71	Precambrian Paleobiology: Problems and Perspectives. Annual Review of Earth and Planetary Sciences, 1975, 3, 213-249.	4.6	174
72	The development and diversification of Precambrian life. Origins of Life and Evolution of Biospheres, 1974, 5, 119-135.	0.6	58

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73	STRUCTURALLY PRESERVED PHLOEM ZONE TISSUE IN RHYNIA. American Journal of Botany, 1972, 59, 373-376.	0.8	20
74	STRUCTURALLY PRESERVED PHLOEM ZONE TISSUE IN RHYNIA. , 1972, 59, 373.		12
75	PRECAMBRIAN MICROâ€ORGANISMS AND EVOLUTIONARY EVENTS PRIOR TO THE ORIGIN OF VASCULAR PLANTS. Biological Reviews, 1970, 45, 319-352.	4.7	186
76	Possible Algal Microfossils from the Late Pre-Cambrian of California. Nature, 1969, 223, 165-167.	13.7	24
77	Recent Advances in Precambrian Paleobiology. Grana Palynologica, 1969, 9, 147-168.	0.5	10