

J William Schopf

List of Publications by Year in descending order

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77
papers

5,080
citations

109311

35
h-index

102480

66
g-index

81
all docs

81
docs citations

81
times ranked

3034
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser Raman imagery of Earth's earliest fossils. <i>Nature</i> , 2002, 416, 73-76.	27.8	557
2	Fossil evidence of Archaean life. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 869-885.	4.0	396
3	Evidence of Archean life: Stromatolites and microfossils. <i>Precambrian Research</i> , 2007, 158, 141-155.	2.7	312
4	Morphological Biosignatures and the Search for Life on Mars. <i>Astrobiology</i> , 2003, 3, 351-368.	3.0	244
5	Raman Imagery: A New Approach to Assess the Geochemical Maturity and Biogenicity of Permineralized Precambrian Fossils. <i>Astrobiology</i> , 2005, 5, 333-371.	3.0	193
6	PRECAMBRIAN MICROORGANISMS AND EVOLUTIONARY EVENTS PRIOR TO THE ORIGIN OF VASCULAR PLANTS. <i>Biological Reviews</i> , 1970, 45, 319-352.	10.4	186
7	Precambrian Paleobiology: Problems and Perspectives. <i>Annual Review of Earth and Planetary Sciences</i> , 1975, 3, 213-249.	11.0	174
8	Carbon isotopic composition of individual Precambrian microfossils. <i>Geology</i> , 2000, 28, 707.	4.4	157
9	SIMS analyses of the oldest known assemblage of microfossils document their taxon-correlated carbon isotope compositions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 53-58.	7.1	131
10	The Evolution of the Earliest Cells. <i>Scientific American</i> , 1978, 239, 110-138.	1.0	130
11	Three-dimensional Raman imagery of precambrian microscopic organisms. <i>Geobiology</i> , 2005, 3, 1-12.	2.4	110
12	Confocal laser scanning microscopy and Raman imagery of ancient microscopic fossils. <i>Precambrian Research</i> , 2009, 173, 39-49.	2.7	110
13	Biogenicity of Earth's earliest fossils: A resolution of the controversy. <i>Gondwana Research</i> , 2012, 22, 761-771.	6.0	110
14	Raman spectra of a Lower Cambrian ctenophore embryo from southwestern Shaanxi, China. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6289-6292.	7.1	95
15	Exceptional Seed Longevity and Robust Growth: Ancient Sacred Lotus from China. <i>American Journal of Botany</i> , 1995, 82, 1367.	1.7	94
16	Raman and ion microscopic imagery of graphitic inclusions in apatite from older than 3830 Ma Akilia supracrustal rocks, west Greenland. <i>Geology</i> , 2007, 35, 591.	4.4	92
17	Biostratigraphic usefulness of stromatolitic precambrian microbiotas: A preliminary analysis. <i>Precambrian Research</i> , 1977, 5, 143-173.	2.7	91
18	Three-Dimensional Confocal Optical Imagery of Precambrian Microscopic Organisms. <i>Astrobiology</i> , 2006, 6, 1-16.	3.0	91

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19	Long-living lotus: germination and soil $\delta^{13}\text{C}$ -irradiation of centuries-old fruits, and cultivation, growth, and phenotypic abnormalities of offspring. <i>American Journal of Botany</i> , 2002, 89, 236-247.	1.7	90
20	The paleobiological record of photosynthesis. <i>Photosynthesis Research</i> , 2011, 107, 87-101.	2.9	89
21	Precambrian microbe-like pseudofossils: A promising solution to the problem. <i>Precambrian Research</i> , 2010, 179, 191-205.	2.7	72
22	Preservation and detection of microstructural and taxonomic correlations in the carbon isotopic compositions of individual Precambrian microfossils. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 165-182.	3.9	72
23	Phosphate biomineralization in mid-Neoproterozoic protists. <i>Geology</i> , 2011, 39, 539-542.	4.4	62
24	Gypsum-Permineralized Microfossils and Their Relevance to the Search for Life on Mars. <i>Astrobiology</i> , 2012, 12, 619-633.	3.0	61
25	Abundances and Isotopic Compositions of Carbon and Sulfur Species in Whole Rock and Kerogen Samples. , 1992, , 709-798.		60
26	The development and diversification of Precambrian life. <i>Origins of Life and Evolution of Biospheres</i> , 1974, 5, 119-135.	0.6	58
27	Taxonomy, paleoecology and biostratigraphy of the late Neoproterozoic Chichkan microbiota of South Kazakhstan: the marine biosphere on the eve of metazoan radiation. <i>Journal of Paleontology</i> , 2010, 84, 363-401.	0.8	57
28	Are the oldest ?fossils?, fossils?. <i>Origins of Life and Evolution of Biospheres</i> , 1976, 7, 19-36.	0.6	56
29	Reconstructed ancestral enzymes suggest long-term cooling of Earth's photic zone since the Archean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4619-4624.	7.1	53
30	Solution to Darwin's dilemma: Discovery of the missing Precambrian record of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 6947-6953.	7.1	52
31	Sulfur-cycling fossil bacteria from the 1.8-Ga Duck Creek Formation provide promising evidence of evolution's null hypothesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2087-2092.	7.1	51
32	Focussed ion beam preparation and in situ nanoscopic study of Precambrian acritarchs. <i>Precambrian Research</i> , 2005, 140, 36-54.	2.7	50
33	Atomic force microscopy of Precambrian microscopic fossils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9117-9120.	7.1	47
34	Calcite and aragonite distributions in the skeletons of bimineralic bryozoans as revealed by Raman spectroscopy. <i>Invertebrate Biology</i> , 2008, 127, 87-97.	0.9	47
35	Proterozoic and Selected Early Cambrian Microfossils and Microfossil-Like Objects. , 1992, , 865-952.		45
36	Discovery of a New Chert-Permineralized Microbiota in the Proterozoic Buxa Formation of the Ranjit Window, Sikkim, Northeast India, and Its Astrobiological Implications. <i>Astrobiology</i> , 2008, 8, 735-746.	3.0	39

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37	The Fossil Record of Cyanobacteria. , 2012, , 15-36.		38
38	Confocal laser scanning microscopy and Raman imagery of the late Neoproterozoic Chichkan microbiota of South Kazakhstan. Journal of Paleontology, 2010, 84, 402-416.	0.8	37
39	Characterization of permineralized kerogen from an Eocene fossil fern. Organic Geochemistry, 2009, 40, 353-364.	1.8	35
40	Carbonaceous and siliceous Neoproterozoic vase-shaped microfossils (Urucum Formation, Brazil) and the question of early protistan biomineralization. Journal of Paleontology, 2017, 91, 393-406.	0.8	35
41	Geological evidence of oxygenic photosynthesis and the biotic response to the 2400-2200 Ma "Great Oxidation Event". Biochemistry (Moscow), 2014, 79, 165-177.	1.5	33
42	Micro- and nano-scale ultrastructure of cell walls in Cryogenian microfossils: revealing their biological affinity. Lethaia, 2010, 43, 129-136.	1.4	31
43	Atlas of Representative Proterozoic Microfossils. , 1992, , 1055-1118.		28
44	An anaerobic ~3400 Ma shallow-water microbial consortium: Presumptive evidence of Earth's Paleoproterozoic anoxic atmosphere. Precambrian Research, 2017, 299, 309-318.	2.7	28
45	Possible Algal Microfossils from the Late Pre-Cambrian of California. Nature, 1969, 223, 165-167.	27.8	24
46	Application of Raman-based images in the Earth sciences. Springer Series in Optical Sciences, 2012, , 145-187.	0.7	24
47	Proterozoic Biogeochemistry. , 1992, , 81-134.		23
48	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.	0.8	23
49	A renaissance in studies of ancient life. Geology Today, 2010, 26, 140-145.	0.9	21
50	STRUCTURALLY PRESERVED PHLOEM ZONE TISSUE IN RHYNIA. American Journal of Botany, 1972, 59, 373-376.	1.7	20
51	Carbon isotopic composition of individual Precambrian microfossils. Geology, 2000, 28, 707-710.	4.4	16
52	Images of the Earth's earliest fossils?. Nature, 2002, 420, 477-477.	27.8	14
53	Characterization of the stem anatomy of the Eocene fern <i>Dennstaedtiopsis aerenchymata</i> (Dennstaedtiaceae) by use of confocal laser scanning microscopy. American Journal of Botany, 2013, 100, 1626-1640.	1.7	14
54	Carbonate mineralogy of a tropical bryozoan biota and its vulnerability to ocean acidification. Marine Biology Research, 2016, 12, 776-780.	0.7	13

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55	Microfossils in stromatolitic cherts from the proterozoic allamoore formation of west texas. <i>Precambrian Research</i> , 1981, 16, 129-141.	2.7	12
56	Evolution of the Proterozoic Biosphere: Benchmarks, Tempo, and Mode. , 1992, , 583-600.		12
57	Reply to the comments of D.L. Pinti, R. Mineau and V. Clement, and of A.O. Marshall and C.P. Marshall on "Biogenicity of Earth's earliest fossils: A resolution of the controversy" by J. William Schopf and Anatoliy B. Kudryavtsev, <i>Gondwana Research</i> 22 (2012), 761-771. <i>Gondwana Research</i> , 2013, 23, 1656-1658.	6.0	12
58	In situ confocal laser scanning microscopy and Raman spectroscopy of bisaccate pollen from the Irati Subgroup (Permian, Paran Basin, Brazil): Comparison with acid-macerated specimens. <i>Review of Palaeobotany and Palynology</i> , 2016, 233, 169-175.	1.5	12
59	Structurally Preserved Phloem Zone Tissue in Rhynia. <i>American Journal of Botany</i> , 1972, 59, 373.	1.7	12
60	Recent Advances in Precambrian Paleobiology. <i>Grana Palynologica</i> , 1969, 9, 147-168.	0.4	10
61	Evidence of compositional and ultrastructural shifts during the development of calcareous tubes in the biofouling tubeworm, <i>Hydroides elegans</i> . <i>Journal of Structural Biology</i> , 2015, 189, 230-237.	2.8	10
62	Biogenicity of Apex Chert microstructures. <i>Nature Geoscience</i> , 2011, 4, 346-347.	12.9	8
63	Global microfossil changes through the Precambrian-Cambrian phosphogenic event: The Shabakta Formation of the phosphorite-bearing Maly Karatau Range, South Kazakhstan. <i>Precambrian Research</i> , 2020, 349, 105386.	2.7	8
64	Three-Dimensional Morphological (CLSM) and Chemical (Raman) Imagery of Cellularly Mineralized Fossils. <i>Topics in Geobiology</i> , 2010, , 457-486.	0.5	7
65	Geology and Paleobiology of the Archean Earth. , 1992, , 5-42.		5
66	Geochemical and submicron-scale morphologic analyses of individual Precambrian microorganisms. <i>Geochemical Society Special Publications</i> , 2004, 9, 365-375.	0.1	5
67	Confocal Laser Scanning Microscopy and Raman (and Fluorescence) Spectroscopic Imagery of Permineralized Cambrian and Neoproterozoic Fossils. <i>Topics in Geobiology</i> , 2011, , 241-270.	0.5	5
68	Calcitization of aragonitic bryozoans in Cenozoic tropical carbonates from East Kalimantan, Indonesia. <i>Facies</i> , 2016, 62, 1.	1.4	3
69	Application of the apatite oxygen paleobarometer (AOP) across the Neoproterozoic-Cambrian transition. <i>Precambrian Research</i> , 2020, 349, 105404.	2.7	3
70	Carbon isotopes of Proterozoic filamentous microfossils: SIMS analyses of ancient cyanobacteria from two disparate shallow-marine cherts. <i>Geomicrobiology Journal</i> , 2021, 38, 719-731.	2.0	3
71	Precambrian Paleobiology: Precedents, Progress, and Prospects. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	2
72	Extinctions in life's earliest history. , 2004, , 35-60.		1

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73	Precambrian Biochemical Evolution. Short Courses in Paleontology, 1988, 1, 89-97.	0.2	0
74	Precambrian: The Age of Microscopic Life. The Paleontological Society Special Publications, 1996, 8, 345-345.	0.0	0
75	J. William Schopf. Astrobiology, 2011, 11, 9-14.	3.0	0
76	Reply to Dvořák 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.	7.1	0
77	Palaeontology, Microbial life, 2017, , .		0