Stefan Bengtson

List of Publications by Year
in descending order

114	5,851	61687 45	90395 73
papers	citations	h-index	g-index

115	115	115	3731
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A late Paleoproterozoic (1.74ÂGa) deepâ€sea, lowâ€temperature, ironâ€oxidizing microbial hydrothermal vent community from Arizona, USA. Geobiology, 2021, 19, 228-249.	1.1	22
2	Fossilized anaerobic and possibly methanogenesis-fueling fungi identified deep within the Siljan impact structure, Sweden. Communications Earth & Environment, 2021, 2, .	2.6	13
3	Introducing palaeolithobiology. Gff, 2021, 143, 305-319.	0.4	4
4	Eocene animal trace fossils in 1.7-billion-year-old metaquartzites. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2105707118.	3.3	2
5	A Cryptic Alternative for the Evolution of Hyphae. BioEssays, 2020, 42, e1900183.	1.2	8
6	Organism motility in an oxygenated shallow-marine environment 2.1 billion years ago. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3431-3436.	3.3	47
7	Exceptional Preservation of Fungi as H2-Bearing Fluid Inclusions in an Early Quaternary Paleo-Hydrothermal System at Cape Vani, Milos, Greece. Minerals (Basel, Switzerland), 2019, 9, 749.	0.8	9
8	The Early Ediacaran Caveasphaera Foreshadows the Evolutionary Origin of Animal-like Embryology. Current Biology, 2019, 29, 4307-4314.e2.	1.8	16
9	Fungi in Deep Subsurface Environments. Advances in Applied Microbiology, 2018, 102, 83-116.	1.3	22
10	Intricate tunnels in garnets from soils and river sediments in Thailand â€“ Possible endolithic microborings. PLoS ONE, 2018, 13, e0200351.	1.1	3
11	Open data and digital morphology. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20170194.	1.2	103
12	The Weng'an Biota (Doushantuo Formation): an Ediacaran window on soft-bodied and multicellular microorganisms. Journal of the Geological Society, 2017, 174, 793-802.	0.9	43
13	Fungus-like mycelial fossils in 2.4-billion-year-old vesicular basalt. Nature Ecology and Evolution, 2017, 1, 141.	3.4	94
14	The origin of animals: Can molecular clocks and the fossil record be reconciled?. BioEssays, 2017, 39, 1-12.	1.2	105
15	Nuclei and nucleoli in embryo-like fossils from the Ediacaran Wengâ€™an Biota. Precambrian Research, 2017, 301, 145-151.	1.2	30
16	Anaerobic consortia of fungi and sulfate reducing bacteria in deep granite fractures. Nature Communications, 2017, 8, 55.	5.8	88
17	Three-dimensional preservation of cellular and subcellular structures suggests 1.6 billion-year-old crown-group red algae. PLoS Biology, 2017, 15, e2000735.	2.6	192
18	An Eocene orthocone from Antarctica shows convergent evolution of internally shelled cephalopods. PLoS ONE, 2017, 12, e0172169.	1.1	4

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19	Anaerobic Fungi: A Potential Source of Biological H2 in the Oceanic Crust. Frontiers in Microbiology, 2016, 7, 674.	1.5	52
20	Developmental biology of the early <scp>C</scp>ambrian cnidarian <i><scp>O</scp>livooides</i>. Palaeontology, 2016, 59, 387-407.	1.0	29
21	A multicellular organism with embedded cell clusters from the Ediacaran Weng'an biota (Doushantuo Formation, South China). Evolution & Development, 2016, 18, 308-316.	1.1	5
22	The igneous oceanic crust â€“ Earth's largest fungal habitat?. Fungal Ecology, 2016, 20, 249-255.	0.7	56
23	Mineralogical determination <i>in situ</i> of a highly heterogeneous material using a miniaturized laser ablation mass spectrometer with high spatial resolution. International Journal of Astrobiology, 2016, 15, 133-146.	0.9	18
24	Critical appraisal of tubular putative eumetazoans from the Ediacaran Weng'an Doushantuo biota. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20151169.	1.2	21
25	Biogenicity of an <scp>E</scp>arly <scp>Q</scp>uaternary iron formation, <scp>M</scp>ilos <scp>I</scp>sland, <scp>G</scp>reece. Geobiology, 2015, 13, 225-244.	1.1	13
26	Embryology in Deep Time. , 2015, , 45-63.		11
27	A Fungal-Prokaryotic Consortium at the Basalt-Zeolite Interface in Subseafloor Igneous Crust. PLoS ONE, 2015, 10, e0140106.	1.1	37
28	Stirling Range Biota. , 2015, , 2378-2380.		0
29	The 2.1 Ga Old Francevillian Biota: Biogenicity, Taphonomy and Biodiversity. PLoS ONE, 2014, 9, e99438.	1.1	53
30	Distinguishing Biology from Geology in Soft-Tissue Preservation. The Paleontological Society Papers, 2014, 20, 275-288.	0.8	7
31	Evaluating scenarios for the evolutionary assembly of the brachiopod body plan. Evolution & Development, 2014, 16, 13-24.	1.1	22
32	Deepâ€biosphere consortium of fungi and prokaryotes in Eocene subseafloor basalts. Geobiology, 2014, 12, 489-496.	1.1	62
33	Stirling Range Biota. , 2014, , 1-3.		0
34	Fungal colonies in open fractures of subseafloor basalt. Geo-Marine Letters, 2013, 33, 233-243.	0.5	29
35	Oxygen dynamics in the aftermath of the Great Oxidation of Earthâ€™s atmosphere. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 16736-16741.	3.3	112
36	Embryos, polyps and medusae of the Early Cambrian scyphozoan <i>Olivooides</i>. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20130071.	1.2	66

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37	Fossilized iron bacteria reveal a pathway to the biological origin of banded iron formation. Nature Communications, 2013, 4, 2050.	5.8	52
38	Fungal colonization of an Ordovician impact-induced hydrothermal system. Scientific Reports, 2013, 3, 3487.	1.6	31
39	Response to Comment on â€œFossilized Nuclei and Germination Structures Identify Ediacaran â€˜Animal Embryosâ€™ as Encysting Protistsâ€• Science, 2012, 335, 1169-1169.	6.0	14
40	Experimental taphonomy of giant sulphur bacteria: implications for the interpretation of the embryo-like Ediacaran Doushantuo fossils. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 1857-1864.	1.2	45
41	A merciful death for the â€œearliest bilaterian,â€•Vernanimalcula. Evolution & Development, 2012, 14, 421-427.	1.1	33
42	Fossilized fungi in subseafloor Eocene basalts. Geology, 2012, 40, 163-166.	2.0	65
43	Ontogeny and microstructure of the enigmatic Cambrian tommotiid <i>Sunnaginia</i> Missarzhevsky, 1969. Palaeontology, 2012, 55, 661-676.	1.0	26
44	Chronology of early Cambrian biomineralization. Geological Magazine, 2012, 149, 221-251.	0.9	163
45	Distinguishing geology from biology in the Ediacaran Doushantuo biota relaxes constraints on the timing of the origin of bilaterians. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2369-2376.	1.2	43
46	A middle Cambrian fauna of skeletal fossils from the Kuonamka Formation, northern Siberia. Alcheringa, 2011, 35, 123-189.	0.5	40
47	Fossilized Nuclei and Germination Structures Identify Ediacaran â€œAnimal Embryosâ€•as Encysting Protists. Science, 2011, 334, 1696-1699.	6.0	142
48	The capsule: an organic skeletal structure in the Late Cretaceous belemnite <i>Gonioteuthis</i> from northâ€•west Germany. Palaeontology, 2011, 54, 397-415.	1.0	5
49	<i><scp>E</scp>oandromeda</i>and the origin of<scp>C</scp>tenophora. Evolution & Development, 2011, 13, 408-414.	1.1	57
50	The anatomy, taphonomy, taxonomy and systematic affinity of Markuelia: Early Cambrian to Early Ordovician scalidophorans. Palaeontology, 2010, 53, 1291-1314.	1.0	53
51	Large colonial organisms with coordinated growth in oxygenated environments 2.1â€‰Gyr ago. Nature, 2010, 466, 100-104.	13.7	235
52	A little Kraken wakes. Nature, 2010, 465, 427-428.	13.7	7
53	A New Tannuolinid Problematic from the Lower Cambrian of the Sukharikha River in Northern Siberia. Acta Palaeontologica Polonica, 2010, 55, 321-331.	0.4	14
54	New and Ancient Trace Makers. Science, 2009, 323, 346-347.	6.0	21

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55	The controversial â€œCambrianâ€• fossils of the Vindhyan are real but more than a billion years older. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7729-7734.	3.3	95
56	The lower cambrian fossil anabaritids: Affinities, occurrences and systematics. Journal of Systematic Palaeontology, 2009, 7, 241-298.	0.6	34
57	Scanning Electron Microscopy and Synchrotron Radiation X-Ray Tomographic Microscopy of 330 Million Year Old Charcoalified Seed Fern Fertile Organs. Microscopy and Microanalysis, 2009, 15, 166-173.	0.2	20
58	Tube structure and original composition of <i>Sinotubulites</i> : shelly fossils from the late Neoproterozoic in southern Shaanxi, China. Lethaia, 2008, 41, 37-45.	0.6	77
59	Deciphering the fossil record of early bilaterian embryonic development in light of experimental taphonomy. Evolution & Development, 2008, 10, 339-349.	1.1	27
60	Embryo fossilization is a biological process mediated by microbial biofilms. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19360-19365.	3.3	119
61	The SPICE carbon isotope excursion in Siberia: a combined study of the upper Middle Cambrianâ€"lowermost Ordovician Kulyumbe River section, northwestern Siberian Platform. Geological Magazine, 2008, 145, 609-622.	0.9	98
62	Octoradiate Spiral Organisms in the Ediacaran of South China. Acta Geologica Sinica, 2008, 82, 27-34.	0.8	18
63	Carbon isotope stratigraphy of the Precambrianâ€"Cambrian Sukharikha River section, northwestern Siberian platform. Geological Magazine, 2007, 144, 609-618.	0.9	71
64	The Paleoproterozoic megascopic Stirling biota. Paleobiology, 2007, 33, 351-381.	1.3	22
65	A functional model for the conodont apparatus. Lethaia, 2007, 16, 38-38.	0.6	9
66	The Paleoproterozoic megascopic Stirling biota. Paleobiology, 2007, 33, 351-381.	1.3	56
67	Phase-contrast X-ray microtomography links Cretaceous seeds with Gnetales and Bennettitales. Nature, 2007, 450, 549-552.	13.7	172
68	The earliest fossil embryos begin to mature. Evolution & Development, 2007, 9, 206-207.	1.1	5
69	New alliances for palaeontology. Lethaia, 2007, 30, 335-336.	0.6	0
70	Cellular and Subcellular Structure of Neoproterozoic Animal Embryos. Science, 2006, 314, 291-294.	6.0	190
71	Fossilized embryos are widespread but the record is temporally and taxonomically biased. Evolution & Development, 2006, 8, 232-238.	1.1	119
72	A ghost with a bite. Nature, 2006, 442, 146-147.	13.7	0

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73	Synchrotron X-ray tomographic microscopy of fossil embryos. Nature, 2006, 442, 680-683.	13.7	279
74	A new discovery of macroscopic fossils from the Ediacaran Doushantuo Formation in the Yangtze Gorges area. Science Bulletin, 2006, 51, 1487-1493.	4.3	41
75	Pre-Tommotian age of the lower Pestrotsvet Formation in the Selinde section on the Siberian platform: carbon isotopic evidence. Geological Magazine, 2005, 142, 319-325.	0.9	37
76	Early skeletal fossils. The Paleontological Society Papers, 2004, 10, 67-78.	0.8	33
77	Response to Comment on "Small Bilaterian Fossils from 40 to 55 Million Years Before the Cambrian". Science, 2004, 306, 1291b-1291b.	6.0	35
78	Middle Cambrian molluscs of â€˜Australianâ€™ aspect from northern Siberia. Alcheringa, 2004, 28, 1-20.	0.5	12
79	SHRIMP Uâ€"Pb dating of diagenetic xenotime in the Stirling Range Formation, Western Australia: 1.8 billion year minimum age for the Stirling biota. Precambrian Research, 2004, 133, 329-337.	1.2	65
80	A Hot-Vent Gastropod with Iron Sulfide Dermal Sclerites. Science, 2003, 302, 1007-1007.	6.0	95
81	Discoidal Impressions and Trace-Like Fossils More Than 1200 Million Years Old. Science, 2002, 296, 1112-1115.	6.0	142
82	Origins and Early Evolution of Predation. The Paleontological Society Papers, 2002, 8, 289-318.	0.8	113
83	Carbon isotope stratigraphy and the problem of a pre-Tommotian Stage in Siberia. Geological Magazine, 2001, 138, 387-396.	0.9	37
84	Semblant Land Plants from the Middle Ordovician of the Prague Basin Reinterpreted as Animals. Palaeontology, 1999, 42, 991-1002.	1.0	13
85	Phosphatized embryo fossils from the Cambrian explosion. Science Bulletin, 1999, 44, 842-845.	1.7	10
86	Cnidarian-like embryos associated with the first shelly fossils in Siberia. Geology, 1999, 27, 609.	2.0	42
87	Embryonic and postâ€embryonic development of the Early Cambrian cnidarian <i>Olivooides</i>. Lethaia, 1999, 32, 181-195.	0.6	73
88	Animal embryos in deep time. Nature, 1998, 391, 529-530.	13.7	27
89	Fossilized Metazoan Embryos from the Earliest Cambrian. Science, 1997, 277, 1645-1648.	6.0	240
90	Cambrian predators: possible evidence from boreholes. Journal of Paleontology, 1994, 68, 1-23.	0.5	119

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91	Lethaia grows. Lethaia, 1993, 26, 16-16.	0.6	0
92	Molluscan affinity of coeloscleritophorans â€" reply. Lethaia, 1993, 26, 48-48.	0.6	1
93	Origin of euconodont elements. Journal of Paleontology, 1993, 67, 640-654.	0.5	41
94	Stable isotope geochemistry and palynology of the late Precambrian to Early Cambrian sequence in Newfoundland. Canadian Journal of Earth Sciences, 1992, 29, 1662-1673.	0.6	35
95	Fine structure of the earliest known rhabdopleurid. Lethaia, 1992, 25, 349-350.	0.6	1
96	The capâ€shaped Cambrian fossil <i>Maikhanella</i> and the relationship between coeloscleritophorans and molluscs. Lethaia, 1992, 25, 401-420.	0.6	100
97	Early Radiation of Biomineralizing Phyla. Topics in Geobiology, 1992, , 447-481.	0.6	46
98	Hoffman, A. 1989. Arguments on evolution. A paleontologist's perspective. 274 pp. Oxford University Press, New York and Oxford. ISBN 0-19-504443-6. f22.50.. Journal of Evolutionary Biology, 1990, 3, 481-482.	0.8	0
99	Tumulduria incomperta and the case for Tommotian trilobites. Lethaia, 1987, 20, 361-370.	0.6	9
100	<i>Rhabdotubus</i> , a Middle Cambrian rhabdopleurid hemichordate. Lethaia, 1986, 19, 293-308.	0.6	62
101	Siliceous microfossils from the Upper Cambrian of Queensland. Alcheringa, 1986, 10, 195-216.	0.5	64
102	The Precambrian-Cambrian boundary and geochemical perturbations. Nature, 1986, 319, 696-697.	13.7	6
103	A new mongolian species of the lower cambrian genus camenella and the problems of scleritome-based taxonomy of the tommotiidae. Palaontologische Zeitschrift, 1986, 60, 45-55.	0.8	16
104	Redescription of the Lower Cambrian Halkieria obliqua Poulsen. Gff, 1985, 107, 101-106.	0.4	13
105	A comparative study of Lower Cambrian Halkieria and Middle Cambrian Wiwaxia. Lethaia, 1984, 17, 307-329.	0.6	78
106	The oldest sequence of skeletal fossils in the Lower Cambrian of southeastern Newfoundland. Canadian Journal of Earth Sciences, 1983, 20, 525-536.	0.6	87
107	A functional model for the conodont apparatus. Lethaia, 1983, 16, 38-38.	0.6	15
108	Problematic triactine spicules from the Upper Ordovician of Scania, Sweden. Gff, 1982, 103, 377-381.	0.4	1

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109	Redescription of the Lower Cambrian Lapworthella cornu. Gff, 1980, 102, 53-55.	0.4	10
110	Conodonts: the need for a functional model. Lethaia, 1980, 13, 320-320.	0.6	8
111	The use and abuse of referees. Lethaia, 1978, 11, 330-330.	0.6	1
112	The structure of some Middle Cambrian conodonts, and the early evolution of conodont structure and function. Lethaia, 1976, 9, 185-206.	0.6	120
113	THE LOWER CAMBRIAN FOSSIL TOMMOTIA. Lethaia, 1970, 3, 363-392.	0.6	75
114	THE PROBLEMATIC GENUS MOBERGELLA FROM THE LOWER CAMBRIAN OF THE BALTIC AREA. Lethaia, 1968, 1, 325-351.	0.6	72