

# Robert E Riding

## List of Publications by Year in descending order

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88  
papers

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94381

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Early Mesoproterozoic Ca-carbonate precipitates record fluctuations in shallow marine oxygenation. <i>Precambrian Research</i> , 2022, 373, 106630.	1.2	6
2	The "classic stromatolite" <i>Cryptozoon</i> is a keratose sponge-microbial consortium. <i>Geobiology</i> , 2021, 19, 189-198.	1.1	20
3	Keratolite "stromatolite consortia mimic domical and branched columnar stromatolites. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 571, 110288.	1.0	17
4	Ordovician cyanobacterial calcification: A marine fossil proxy for atmospheric CO <sub>2</sub> . <i>Earth and Planetary Science Letters</i> , 2020, 530, 115950.	1.8	18
5	Hybrid Carbonates: in situ abiotic, microbial and skeletal co-precipitates. <i>Earth-Science Reviews</i> , 2020, 208, 103300.	4.0	36
6	Controls on the spatio-temporal distribution of microbialite crusts on the Great Barrier Reef over the past 30,000 years. <i>Marine Geology</i> , 2020, 429, 106312.	0.9	3
7	Lithistid sponge-microbial reefs, Nevada, USA: Filling the late Cambrian "reef gap". <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 520, 251-262.	1.0	22
8	Microbialites in Last Glacial Maximum and deglacial reefs of the Great Barrier Reef (IODP Expedition) Tj ETQq0 0 0 rBT /Overlock 10 Tf 5	1.0	25
9	Influence of dissolved oxygen on secular patterns of marine microbial carbonate abundance during the past 490 Myr. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 514, 135-143.	1.0	32
10	Early Cretaceous dendritic shrub-like fabric in karstified peritidal carbonates from southern Italy. <i>Sedimentary Geology</i> , 2018, 373, 134-146.	1.0	4
11	Marine oxygenation, lithistid sponges, and the early history of Paleozoic skeletal reefs. <i>Earth-Science Reviews</i> , 2018, 181, 98-121.	4.0	70
12	Fine-grained agglutinated elongate columnar stromatolites: Tieling Formation, ca. 1420 Ma, North China. <i>Sedimentology</i> , 2017, 64, 871-902.	1.6	21
13	Current molded, storm damaged, sinuous columnar stromatolites: Mesoproterozoic of northern China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 465, 93-102.	1.0	6
14	Calcified rivulariaceans from the Ordovician of the Tarim Basin, Northwest China, Phanerozoic lagoonal examples, and possible controlling factors. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 448, 371-381.	1.0	16
15	Early recovery of sponge framework reefs after Cambrian archaeocyath extinction: Zhangxia Formation (early Cambrian Series 3), Shandong, North China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 457, 269-276.	1.0	28
16	<i>Xianella</i> : a new mat-forming calcified cyanobacterium from the Middle-Late Ordovician of North China. <i>Papers in Palaeontology</i> , 2016, 2, 439-449.	0.7	8
17	Ordovician calcified cyanobacteria and associated microfossils from the Tarim Basin, Northwest China: systematics and significance. <i>Journal of Systematic Palaeontology</i> , 2016, 14, 183-210.	0.6	29
18	Steep Rock Lake: Sedimentology and geochemistry of an Archean carbonate platform. <i>Earth-Science Reviews</i> , 2015, 151, 132-175.	4.0	47

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19	A Tribute to Martin D. Brasier: Palaeobiologist and Astrobiologist (April 12, 1947–December 16, 2014). <i>Astrobiology</i> , 2015, 15, 940-948.	1.5	2
20	Metazoan/microbial biostalactites from present-day submarine caves in the Mediterranean Sea. <i>Marine Ecology</i> , 2015, 36, 1277-1293.	0.4	32
21	Millennial-scale ocean acidification and late Quaternary decline of cryptic bacterial crusts in tropical reefs. <i>Geobiology</i> , 2014, 12, 387-405.	1.1	32
22	Biogeochemical and redox record of mid-late Triassic reef evolution in the Italian Dolomites. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 399, 52-66.	1.0	30
23	Origin and significance of lamination in Lower Cretaceous stromatolites and proposal for a quantitative approach. <i>Sedimentary Geology</i> , 2014, 300, 11-27.	1.0	26
24	Identification of an Archean marine oxygen oasis. <i>Precambrian Research</i> , 2014, 251, 232-237.	1.2	95
25	Late Jurassic Epiphyton-like cyanobacteria: Indicators of long-term episodic variation in marine bioinduced microbial calcification?. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 401, 122-131.	1.0	20
26	A Hard Life for Cyanobacteria. <i>Science</i> , 2012, 336, 427-428.	6.0	34
27	Stage change of middle-late Devonian calcified algae and cyanobacteria in South China and its significance. <i>Journal of Earth Science (Wuhan, China)</i> , 2010, 21, 79-81.	1.1	1
28	Carbonate stromatolites from a Messinian hypersaline setting in the Caltanissetta Basin, Sicily: petrographic evidence of microbial activity and related stable isotope and rare earth element signatures. <i>Sedimentology</i> , 2010, 57, 142-161.	1.6	68
29	Mid-late Devonian calcified marine algae and cyanobacteria, South China. <i>Journal of Paleontology</i> , 2010, 84, 569-587.	0.5	34
30	Coral reef evolution on rapidly subsiding margins. <i>Global and Planetary Change</i> , 2009, 66, 129-148.	1.6	63
31	Abiogenic, microbial and hybrid authigenic crusts: components of Precambrian stromatolites. <i>Geologia Croatica</i> , 2008, 61, 73-103.	0.3	117
32	Mesoproterozoic carbon dioxide levels inferred from calcified cyanobacteria. <i>Geology</i> , 2007, 35, 799.	2.0	129
33	Recent freshwater oscillatoriacean analogue of the Lower Palaeozoic calcareous alga <i>Angulocellularia</i> . <i>Lethaia</i> , 2007, 15, 105-114.	0.6	6
34	Stromatolite reef crusts, Early Cretaceous, Spain: bacterial origin of in situ-precipitated peloid microspar?. <i>Sedimentology</i> , 2006, 53, 23-34.	1.6	95
35	Microbial carbonate abundance compared with fluctuations in metazoan diversity over geological time. <i>Sedimentary Geology</i> , 2006, 185, 229-238.	1.0	215
36	KRUMBEIN, W. E., PATERSON, D. M. & ZAVARZIN, G. A. (eds) 2003. <i>Fossil and Recent Biofilms. A Natural History of Life on Earth</i> . xxi+482 pp. Dordrecht, Boston, London: Kluwer Academic Publishers. Price Euros 149.00, US \$164.00, £103.00 (hard covers). ISBN 1 402 01597 6. <i>Geological Magazine</i> , 2005, 142, 305-306.	0.9	0

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37	HALYSIS HÄG, 1932"AN ORDOVICIAN CORALLINE RED ALGA?. Journal of Paleontology, 2005, 79, 835-841.	0.5	13
38	Geobiology of microbial carbonates: metazoan and seawater saturation state influences on secular trends during the Phanerozoic. Palaeogeography, Palaeoclimatology, Palaeoecology, 2005, 219, 101-115.	1.0	205
39	Equilibrium and disequilibrium stable isotope effects in modern charophyte calcites: implications for palaeoenvironmental studies. Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 204, 101-114.	1.0	31
40	Solenopora Is A Chaetetid Sponge, Not An Alga. Palaeontology, 2004, 47, 117-122.	1.0	64
41	Biofilm architecture of Phanerozoic cryptic carbonate marine veneers. Geology, 2002, 30, 31.	2.0	34
42	Structure and composition of organic reefs and carbonate mud mounds: concepts and categories. Earth-Science Reviews, 2002, 58, 163-231.	4.0	340
43	Ordovician Calcified Algae and Cyanobacteria, Northern Tarim Basin Subsurface, China. Palaeontology, 2001, 44, 783-810.	1.0	37
44	Microbial carbonates: the geological record of calcified bacterial-algal mats and biofilms. Sedimentology, 2000, 47, 179-214.	1.6	1,209
45	Growth of rigid high-relief patch reefs, Mid-Silurian, Gotland, Sweden. Sedimentology, 2000, 47, 979-994.	1.6	25
46	Late Cretaceous incident light reduction: evidence from benthic algae. Lethaia, 2000, 33, 205-213.	0.6	36
47	Graticula and its derivatives, replacement name for the alga Craticula Brooke & Riding non Grunow. Lethaia, 2000, 33, 82-82.	0.6	23
48	Diversity of coralline red algae: origination and extinction patterns from the Early Cretaceous to the Pleistocene. Paleobiology, 2000, 26, 651-667.	1.3	194
49	Late Miocene Mediterranean desiccation: topography and significance of the 'Salinity Crisis' erosion surface on-land in southeast Spain. Sedimentary Geology, 1999, 123, 1-7.	1.0	83
50	Cyanobacterial tufa calcification in two freshwater streams: ambient environment, chemical thresholds and biological processes. Sedimentary Geology, 1999, 126, 103-124.	1.0	220
51	Rapid facies changes in Holocene fissure ridge hot spring travertines, Rapolano Terme, Italy. Sedimentology, 1999, 46, 1145-1158.	1.6	81
52	Skeletal ultrastructure of the calcified red alga Galaxaura oblongata, Hainan Island, China. Review of Palaeobotany and Palynology, 1999, 104, 205-212.	0.8	5
53	Temperate water Shamovella from the Lower Permian of West Timor, Indonesia. Alcheringa, 1999, 23, 21-29.	0.5	8
54	Mediterranean Messinian Salinity Crisis: constraints from a coeval marginal basin, Sorbas, southeastern Spain. Marine Geology, 1998, 146, 1-20.	0.9	180

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55	Hot-spring travertine facies and sequences, Late Pleistocene, Rapolano Terme, Italy. <i>Sedimentology</i> , 1998, 45, 163-180.	1.6	197
56	Carbon isotopic evidence for photosynthesis in Early Cambrian oceans: Comment and Reply. <i>Geology</i> , 1998, 26, 191.	2.0	2
57	The stable isotope record of environmental and climatic signals in modern terrestrial microbial carbonates from Europe. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 1997, 129, 171-189.	1.0	195
58	Biosedimentology of Microbial Buildups IGCP Project No. 380 Proceedings of 2nd Meeting, Göttingen/Germany 1996. <i>Facies</i> , 1997, 36, 195-284.	0.7	40
59	Late Miocene Halimeda alga-microbial segment reefs in the marginal Mediterranean Sorbas Basin, Spain. <i>Sedimentology</i> , 1997, 44, 441-456.	1.6	70
60	Internal structure of segment reefs: Halimeda algal mounds in the Mediterranean Miocene. <i>Geology</i> , 1996, 24, 35.	2.0	61
61	Structure and diversity of oldest sponge-microbe reefs: Lower Cambrian, Aldan River, Siberia. <i>Geology</i> , 1995, 23, 649.	2.0	67
62	Origin and diagenesis of Quaternary travertine shrub fabrics, Rapolano Terme, central Italy. <i>Sedimentology</i> , 1994, 41, 499-520.	1.6	124
63	Shamovella obscura: the correct name for Tubiphytes obscurus (Fossil). <i>Taxon</i> , 1993, 42, 71-73.	0.4	40
64	Silurian microbial associations from the Alexander terrane, Alaska. <i>Journal of Paleontology</i> , 1993, 67, 728-738.	0.5	22
65	Silurian calcareous algae, cyanobacteria, and microproblematica from the Alexander terrane, Alaska. <i>Journal of Paleontology</i> , 1993, 67, 710-728.	0.5	27
66	The algal breath of life. <i>Nature</i> , 1992, 359, 13-14.	13.7	20
67	Microbial micritic carbonates in uppermost Permian reefs, Sichuan Basin, southern China: some similarities with Recent travertines. <i>Sedimentology</i> , 1992, 39, 37-53.	1.6	44
68	Aragonite laminae in hot water travertine crusts, Rapolano Terme, Italy. <i>Sedimentology</i> , 1992, 39, 1067-1079.	1.6	118
69	Bahamian giant stromatolites: microbial composition of surface mats. <i>Geological Magazine</i> , 1991, 128, 227-234.	0.9	61
70	Coral-stromatolite reef framework, Upper Miocene, Almeria, Spain. <i>Sedimentology</i> , 1991, 38, 799-818.	1.6	163
71	Fossil evidence for the location of the Precambrian/Cambrian boundary in Morocco. <i>Nature</i> , 1990, 344, 752-754.	13.7	49
72	Silicification of Permian calcareous algae from Nanjing, China. <i>Geological Magazine</i> , 1988, 125, 123-139.	0.9	4

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73	Sea-level changes and the evolution of benthic marine calcareous algae during the Palaeozoic. <i>Journal of the Geological Society</i> , 1984, 141, 547-553.	0.9	10
74	Assemblages of calcareous algae near the Precambrian/Cambrian boundary in Siberia and Mongolia. <i>Geological Magazine</i> , 1984, 121, 205-210.	0.9	56
75	Cyanophyte calcification and changes in ocean chemistry. <i>Nature</i> , 1982, 299, 814-815.	13.7	97
76	Recent freshwater oscillatoriacean analogue of the Lower Palaeozoic calcareous alga <i>Angulocellularia</i> . <i>Lethaia</i> , 1982, 15, 105-114.	0.6	27
77	Foreslope stromatoporoid-renalcid bioherm with evidence of early cementation, Devonian Ancient Wall reef complex, Rocky Mountains. <i>Sedimentology</i> , 1981, 28, 299-319.	1.6	37
78	Origin and diagenesis of lacustrine algal bioherms at the margin of the Ries crater, Upper Miocene, southern Germany. <i>Sedimentology</i> , 1979, 26, 645-680.	1.6	77
79	Calcareous algae. <i>Developments in paleontology and stratigraphy</i> , 4. Review of Palaeobotany and Palynology, 1979, 27, 93-94.	0.8	0
80	Attached vermiform gastropods in Carboniferous marginal marine stromatolites and biostromes. <i>Lethaia</i> , 1977, 10, 17-28.	0.6	70
81	Systematics of <i>Wetheredella</i> . <i>Lethaia</i> , 1977, 10, 94-94.	0.6	8
82	Nature of stromatoporoids. <i>Nature</i> , 1977, 268, 178-178.	13.7	5
83	Earliest calcareous foraminifera. <i>Nature</i> , 1975, 257, 208-210.	13.7	20
84	<i>Girvanella</i> and other algae as depth indicators. <i>Lethaia</i> , 1975, 8, 173-179.	0.6	70
85	Stromatoporoid diagenesis: outline of alteration effects. <i>Geological Magazine</i> , 1974, 111, 143-149.	0.9	13
86	Model of the Hercynian foldbelt. <i>Earth and Planetary Science Letters</i> , 1974, 24, 125-135.	1.8	53
87	<i>Uraloporella</i> Korde in the Devonian of Alberta. <i>Canadian Journal of Earth Sciences</i> , 1974, 11, 1414-1426.	0.6	14
88	Forms of the hydrozoan <i>Millepora</i> on a Recent coral reef. <i>Lethaia</i> , 1973, 6, 187-199.	0.6	42