Robert E Riding

List of Publications by Year
in descending order

88 papers	6,099 citations	94381 37 h-index	69214 77 g-index
90 all docs	90 docs citations	90 times ranked	3598 citing authors

#	Article	IF	Citations
1	Microbial carbonates: the geological record of calcified bacterial-algal mats and biofilms. Sedimentology, 2000, 47, 179-214.	1.6	1,209
2	Structure and composition of organic reefs and carbonate mud mounds: concepts and categories. Earth-Science Reviews, 2002, 58, 163-231.	4.0	340
3	Cyanobacterial tufa calcification in two freshwater streams: ambient environment, chemical thresholds and biological processes. Sedimentary Geology, 1999, 126, 103-124.	1.0	220
4	Microbial carbonate abundance compared with fluctuations in metazoan diversity over geological time. Sedimentary Geology, 2006, 185, 229-238.	1.0	215
5	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
6	Hot-spring travertine facies and sequences, Late Pleistocene, Rapolano Terme, Italy. Sedimentology, 1998, 45, 163-180.	1.6	197
7	The stable isotope record of environmental and climatic signals in modern terrestrial microbial carbonates from Europe. Palaeogeography, Palaeoclimatology, Palaeoecology, 1997, 129, 171-189.	1.0	195
8	Diversity of coralline red algae: origination and extinction patterns from the Early Cretaceous to the Pleistocene. Paleobiology, 2000, 26, 651-667.	1.3	194
9	Mediterranean Messinian Salinity Crisis: constraints from a coeval marginal basin, Sorbas, southeastern Spain. Marine Geology, 1998, 146, 1-20.	0.9	180
10	Coral-stromatolite reef framework, Upper Miocene, Almeria, Spain. Sedimentology, 1991, 38, 799-818.	1.6	163
11	Mesoproterozoic carbon dioxide levels inferred from calcified cyanobacteria. Geology, 2007, 35, 799.	2.0	129
12	Origin and diagenesis of Quaternary travertine shrub fabrics, Rapolano Terme, central Italy. Sedimentology, 1994, 41, 499-520.	1.6	124
13	Aragonite laminae in hot water travertine crusts, Rapolano Terme, Italy. Sedimentology, 1992, 39, 1067-1079.	1.6	118
14	Abiogenic, microbial and hybrid authigenic crusts: components of Precambrian stromatolites. Geologia Croatica, 2008, 61, 73-103.	0.3	117
15	Cyanophyte calcification and changes in ocean chemistry. Nature, 1982, 299, 814-815.	13.7	97
16	Stromatolite reef crusts, Early Cretaceous, Spain: bacterial origin of in situ-precipitated peloid microspar?. Sedimentology, 2006, 53, 23-34.	1.6	95
17	Identification of an Archean marine oxygen oasis. Precambrian Research, 2014, 251, 232-237.	1.2	95
18	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

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19	Rapid facies changes in Holocene fissure ridge hot spring travertines, Rapolano Terme, Italy. Sedimentology, 1999, 46, 1145-1158.	1.6	81
20	Origin and diagenesis of lacustrine algal bioherms at the margin of the Ries crater, Upper Miocene, southern Germany. Sedimentology, 1979, 26, 645-680.	1.6	77
21	Girvanella and other algae as depth indicators. Lethaia, 1975, 8, 173-179.	0.6	70
22	Attached vermiform gastropods in Carboniferous marginal marine stromatolites and biostromes. Lethaia, 1977, 10, 17-28.	0.6	70
23	Late Miocene Halimeda alga-microbial segment reefs in the marginal Mediterranean Sorbas Basin, Spain. Sedimentology, 1997, 44, 441-456.	1.6	70
24	Marine oxygenation, lithistid sponges, and the early history of Paleozoic skeletal reefs. Earth-Science Reviews, 2018, 181, 98-121.	4.0	70
25	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. Sedimentology, 2010, 57, 142-161.	1.6	68
26	Structure and diversity of oldest sponge-microbe reefs: Lower Cambrian, Aldan River, Siberia. Geology, 1995, 23, 649.	2.0	67
27	Solenopora Is A Chaetetid Sponge, Not An Alga. Palaeontology, 2004, 47, 117-122.	1.0	64
28	Coral reef evolution on rapidly subsiding margins. Global and Planetary Change, 2009, 66, 129-148.	1.6	63
29	Bahamian giant stromatolites: microbial composition of surface mats. Geological Magazine, 1991, 128, 227-234.	0.9	61
30	Internal structure of segment reefs: Halimeda algal mounds in the Mediterranean Miocene. Geology, 1996, 24, 35.	2.0	61
31	Assemblages of calcareous algae near the Precambrian/Cambrian boundary in Siberia and Mongolia. Geological Magazine, 1984, 121, 205-210.	0.9	56
32	Model of the Hercynian foldbelt. Earth and Planetary Science Letters, 1974, 24, 125-135.	1.8	53
33	Fossil evidence for the location of the Precambrian/Cambrian boundary in Morocco. Nature, 1990, 344, 752-754.	13.7	49
34	Steep Rock Lake: Sedimentology and geochemistry of an Archean carbonate platform. Earth-Science Reviews, 2015, 151, 132-175.	4.0	47
35	Microbial micritic carbonates in uppermost Permian reefs, Sichuan Basin, southern China: some similarities with Recent travertines. Sedimentology, 1992, 39, 37-53.	1.6	44
36	Forms of the hydrozoan Millepora on a Recent coral reef. Lethaia, 1973, 6, 187-199.	0.6	42

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37	Shamovella obscura: the correct name for Tubiphytes obscurus (Fossil). Taxon, 1993, 42, 71-73.	0.4	40
38	Biosedimentology of Microbial Buildups IGCP Project No. 380 Proceedings of 2nd Meeting, GÃ¶ttingen/Germany 1996. Facies, 1997, 36, 195-284.	0.7	40
39	Foreslope stromatoporoid-renalcid bioherm with evidence of early cementation, Devonian Ancient Wall reef complex, Rocky Mountains. Sedimentology, 1981, 28, 299-319.	1.6	37
40	Ordovician Calcified Algae and Cyanobacteria, Northern Tarim Basin Subsurface, China. Palaeontology, 2001, 44, 783-810.	1.0	37
41	Late Cretaceous incident light reduction: evidence from benthic algae. Lethaia, 2000, 33, 205-213.	0.6	36
42	Hybrid Carbonates: in situ abiotic, microbial and skeletal co-precipitates. Earth-Science Reviews, 2020, 208, 103300.	4.0	36
43	Biofilm architecture of Phanerozoic cryptic carbonate marine veneers. Geology, 2002, 30, 31.	2.0	34
44	Mid-late Devonian calcified marine algae and cyanobacteria, South China. Journal of Paleontology, 2010, 84, 569-587.	0.5	34
45	A Hard Life for Cyanobacteria. Science, 2012, 336, 427-428.	6.0	34
46	Millennialâ€scale ocean acidification and late Quaternary decline of cryptic bacterial crusts in tropical reefs. Geobiology, 2014, 12, 387-405.	1.1	32
47	Metazoan/microbial biostalactites from presentâ€day submarine caves in the Mediterranean Sea. Marine Ecology, 2015, 36, 1277-1293.	0.4	32
48	Influence of dissolved oxygen on secular patterns of marine microbial carbonate abundance during the past 490â€¯Myr. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 514, 135-143.	1.0	32
49	Equilibrium and disequilibrium stable isotope effects in modern charophyte calcites: implications for palaeoenvironmental studies. Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 204, 101-114.	1.0	31
50	Biogeochemical and redox record of midâ€“late Triassic reef evolution in the Italian Dolomites. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 399, 52-66.	1.0	30
51	Ordovician calcified cyanobacteria and associated microfossils from the Tarim Basin, Northwest China: systematics and significance. Journal of Systematic Palaeontology, 2016, 14, 183-210.	0.6	29
52	Early recovery of sponge framework reefs after Cambrian archaeocyath extinction: Zhangxia Formation (early Cambrian Series 3), Shandong, North China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 457, 269-276.	1.0	28
53	Silurian calcareous algae, cyanobacteria, and microproblematica from the Alexander terrane, Alaska. Journal of Paleontology, 1993, 67, 710-728.	0.5	27
54	Recent freshwater oscillatoriacean analogue of the Lower Palaeozoic calcareous alga Angulocellularia. Lethaia, 1982, 15, 105-114.	0.6	27

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55	Origin and significance of lamination in Lower Cretaceous stromatolites and proposal for a quantitative approach. Sedimentary Geology, 2014, 300, 11-27.	1.0	26
56	Growth of rigid high-relief patch reefs, Mid-Silurian, Gotland, Sweden. Sedimentology, 2000, 47, 979-994.	1.6	25
57	Microbialites in Last Glacial Maximum and deglacial reefs of the Great Barrier Reef (IODP Expedition) Tj ETQq1 1 0.784314 rgBT /Over	1.0	25
58	Graticula and its derivatives, replacement name for the alga Craticula Brooke & Riding non Grunow. Lethaia, 2000, 33, 82-82.	0.6	23
59	Silurian microbial associations from the Alexander terrane, Alaska. Journal of Paleontology, 1993, 67, 728-738.	0.5	22
60	Lithistid sponge-microbial reefs, Nevada, USA: Filling the late Cambrian â€˜reef gapâ€™. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 520, 251-262.	1.0	22
61	Fineâ€grained agglutinated elongate columnar stromatolites: Tieling Formation, ca 1420ÂMa, North China. Sedimentology, 2017, 64, 871-902.	1.6	21
62	Earliest calcareous foraminifera. Nature, 1975, 257, 208-210.	13.7	20
63	The algal breath of life. Nature, 1992, 359, 13-14.	13.7	20
64	Late Jurassic Epiphyton-like cyanobacteria: Indicators of long-term episodic variation in marine bioinduced microbial calcification?. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 401, 122-131.	1.0	20
65	The â€˜classic stromatoliteâ€™ CryptozoÃ¶n is a keratose spongeâ€microbial consortium. Geobiology, 2021, 19, 189-198.	1.1	20
66	Ordovician cyanobacterial calcification: A marine fossil proxy for atmospheric CO2. Earth and Planetary Science Letters, 2020, 530, 115950.	1.8	18
67	Keratoliteâ€“stromatolite consortia mimic domical and branched columnar stromatolites. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 571, 110288.	1.0	17
68	Calcified rivulariaceans from the Ordovician of the Tarim Basin, Northwest China, Phanerozoic lagoonal examples, and possible controlling factors. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 448, 371-381.	1.0	16
69	Uraloporella Korde in the Devonian of Alberta. Canadian Journal of Earth Sciences, 1974, 11, 1414-1426.	0.6	14
70	Stromatoporoid diagenesis: outline of alteration effects. Geological Magazine, 1974, 111, 143-149.	0.9	13
71	HALYSIS HÃ¯EG, 1932â€”AN ORDOVICIAN CORALLINE RED ALGA?. Journal of Paleontology, 2005, 79, 835-841.	0.5	13
72	Sea-level changes and the evolution of benthic marine calcareous algae during the Palaeozoic. Journal of the Geological Society, 1984, 141, 547-553.	0.9	10

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73	Systematics of Wetheredella. Lethaia, 1977, 10, 94-94.	0.6	8
74	Temperate waterShamovellafrom the Lower Permian of West Timor, Indonesia. Alcheringa, 1999, 23, 21-29.	0.5	8
75	Xianella: a new matâ€forming calcified cyanobacterium from the Middleâ€“Late Ordovician of North China. Papers in Palaeontology, 2016, 2, 439-449.	0.7	8
76	Recent freshwater oscillatoriacean analogue of the Lower Palaeozoic calcareous alga Angulocellularia. Lethaia, 2007, 15, 105-114.	0.6	6
77	Current molded, storm damaged, sinuous columnar stromatolites: Mesoproterozoic of northern China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 465, 93-102.	1.0	6
78	Early Mesoproterozoic Ca-carbonate precipitates record fluctuations in shallow marine oxygenation. Precambrian Research, 2022, 373, 106630.	1.2	6
79	Nature of stromatoporoids. Nature, 1977, 268, 178-178.	13.7	5
80	Skeletal ultrastructure of the calcified red alga Galaxaura oblongata, Hainan Island, China. Review of Palaeobotany and Palynology, 1999, 104, 205-212.	0.8	5
81	Silicification of Permian calcareous algae from Nanjing, China. Geological Magazine, 1988, 125, 123-139.	0.9	4
82	Early Cretaceous dendritic shrub-like fabric in karstified peritidal carbonates from southern Italy. Sedimentary Geology, 2018, 373, 134-146.	1.0	4
83	Controls on the spatio-temporal distribution of microbialite crusts on the Great Barrier Reef over the past 30,000Âyears. Marine Geology, 2020, 429, 106312.	0.9	3
84	Carbon isotopic evidence for photosynthesis in Early Cambrian oceans: Comment and Reply. Geology, 1998, 26, 191.	2.0	2
85	A Tribute to Martin D. Brasier: Palaeobiologist and Astrobiologist (April 12, 1947â€“December 16, 2014). Astrobiology, 2015, 15, 940-948.	1.5	2
86	Stage change of middle-late Devonian calcified algae and cyanobacteria in South China and its significance. Journal of Earth Science (Wuhan, China), 2010, 21, 79-81.	1.1	1
87	Calcareous algae. Developments in paleontology and stratigraphy, 4. Review of Palaeobotany and Palynology, 1979, 27, 93-94.	0.8	0
88	KRUMBEIN, W. E., PATERSON, D. M. & ZAVARZIN, G. A. (eds) 2003. Fossil and Recent Biofilms. A Natural History of Life on Earth. xxi+482 pp. Dordrecht, Boston, London: Kluwer Academic Publishers. Price Euros 149.00, US $164.00, Â£103.00 (hard covers). ISBN 1 402 01597 6. Geological Magazine, 2005, 142, 305-306.	0.9	0