

# Mark A Purnell

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

2,848  
citations

126858

33  
h-index

182361

51  
g-index

73  
all docs

73  
docs citations

73  
times ranked

1811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome duplication, extinction and vertebrate evolution. <i>Trends in Ecology and Evolution</i> , 2005, 20, 312-319.	4.2	231
2	Non-random decay of chordate characters causes bias in fossil interpretation. <i>Nature</i> , 2010, 463, 797-800.	13.7	173
3	Distinguishing heat from light in debate over controversial fossils. <i>BioEssays</i> , 2009, 31, 178-189.	1.2	145
4	Microwear on conodont elements and macrophagy in the first vertebrates. <i>Nature</i> , 1995, 374, 798-800.	13.7	139
5	ORIENTATION AND ANATOMICAL NOTATION IN CONODONTS. <i>Journal of Paleontology</i> , 2000, 74, 113-122.	0.5	127
6	Dietary specializations and diversity in feeding ecology of the earliest stem mammals. <i>Nature</i> , 2014, 512, 303-305.	13.7	125
7	Orientation and anatomical notation in conodonts. <i>Journal of Paleontology</i> , 2000, 74, 113-122.	0.5	89
8	Architecture and functional morphology of the skeletal apparatus of ozarkodinid conodonts. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1997, 352, 1545-1564.	1.8	74
9	Decay of vertebrate characters in hagfish and lamprey (Cyclostomata) and the implications for the vertebrate fossil record. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1150-1157.	1.2	73
10	The interrelationships of "complex" conodonts (Vertebrata). <i>Journal of Systematic Palaeontology</i> , 2008, 6, 119-153.	0.6	72
11	Quantitative analysis of dental microwear in hadrosaurid dinosaurs, and the implications for hypotheses of jaw mechanics and feeding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11194-11199.	3.3	68
12	Feeding in extinct jawless heterostracan fishes and testing scenarios of early vertebrate evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 83-88.	1.2	61
13	Quantitative three-dimensional microtextural analyses of tooth wear as a tool for dietary discrimination in fishes. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2225-2233.	1.5	59
14	Taphonomy and affinity of an enigmatic Silurian vertebrate, <i>Jamoytius kerwoodi</i> White. <i>Palaeontology</i> , 2010, 53, 1393-1409.	1.0	57
15	Atlas of vertebrate decay: a visual and taphonomic guide to fossil interpretation. <i>Palaeontology</i> , 2013, 56, 457-474.	1.0	56
16	Accuracy and Precision of Silicon Based Impression Media for Quantitative Areal Texture Analysis. <i>Scientific Reports</i> , 2015, 5, 10800.	1.6	55
17	Growth, function, and the conodont fossil record. <i>Geology</i> , 1999, 27, 251.	2.0	50
18	<i>Eramosa Lagerst�tte</i> "Exceptionally preserved soft-bodied biotas with shallow-marine shelly and bioturbating organisms (Silurian, Ontario, Canada). <i>Geology</i> , 2007, 35, 879.	2.0	50

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19	Pterosaur dietary hypotheses: a review of ideas and approaches. <i>Biological Reviews</i> , 2018, 93, 2021-2048.	4.7	50
20	The eyes of Tullimonstrum reveal a vertebrate affinity. <i>Nature</i> , 2016, 532, 500-503.	13.7	48
21	Feeding mechanisms in conodonts and the function of the earliest vertebrate hard tissues. <i>Geology</i> , 1993, 21, 375.	2.0	47
22	The conodont controversies. <i>Trends in Ecology and Evolution</i> , 1996, 11, 463-468.	4.2	47
23	The Mazon Creek Lagerstätte: a diverse late Paleozoic ecosystem entombed within siderite concretions. <i>Journal of the Geological Society</i> , 2019, 176, 1-11.	0.9	46
24	Decay of velvet worms (Onychophora), and bias in the fossil record of lobopodians. <i>BMC Evolutionary Biology</i> , 2014, 14, 222.	3.2	45
25	Experimental analysis of soft-tissue fossilization: opening the black box. <i>Palaeontology</i> , 2018, 61, 317-323.	1.0	45
26	Blade-shaped conodont elements functioned as cutting teeth. <i>Nature</i> , 1992, 359, 629-631.	13.7	44
27	Within-guild dietary discrimination from $\delta^{13}C$ textural analysis of tooth microwear in insectivorous mammals. <i>Journal of Zoology</i> , 2013, 291, 249-257.	0.8	44
28	Pigmented anatomy in Carboniferous cyclostomes and the evolution of the vertebrate eye. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20161151.	1.2	44
29	An examination of feeding ecology in Pleistocene proboscideans from southern China ( <i>Sinomastodon</i> ) <a href="#">Tj ETQq1 1 0.784314 rgBT /Over</a> 445, 60-70.	0.7	43
30	Skeletal ontogeny and feeding mechanisms in conodonts. <i>Lethaia</i> , 1994, 27, 129-138.	0.6	41
31	Quantitative analysis of dental microwear in threespine stickleback: a new approach to analysis of trophic ecology in aquatic vertebrates. <i>Journal of Animal Ecology</i> , 2006, 75, 967-977.	1.3	41
32	Conodont anatomy, chordate phylogeny and vertebrate classification. <i>Lethaia</i> , 1998, 31, 211-219.	0.6	36
33	Correlated Evolution and Dietary Change in Fossil Stickleback. <i>Science</i> , 2007, 317, 1887-1887.	6.0	33
34	Dietary differences in archosaur and lepidosaur reptiles revealed by dental microwear textural analysis. <i>Scientific Reports</i> , 2019, 9, 11691.	1.6	33
35	Quantitative analysis of conodont tooth wear and damage as a test of ecological and functional hypotheses. <i>Paleobiology</i> , 2012, 38, 605-626.	1.3	32
36	Finite element, occlusal, microwear and microstructural analyses indicate that conodont microstructure is adapted to dental function. <i>Palaeontology</i> , 2014, 57, 1059-1066.	1.0	30

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37	Apparatus Composition, Growth, And Survivorship Of The Lower Ordovician Conodont paracordylodus Gracilis Lindstrom, 1955. <i>Palaeontology</i> , 2002, 45, 209-228.	1.0	29
38	Dietary diversity and evolution of the earliest flying vertebrates revealed by dental microwear texture analysis. <i>Nature Communications</i> , 2020, 11, 5293.	5.8	27
39	Unusual anal fin in a Devonian jawless vertebrate reveals complex origins of paired appendages. <i>Biology Letters</i> , 2013, 9, 20130002.	1.0	26
40	3D tooth microwear texture analysis in fishes as a test of dietary hypotheses of durophagy. <i>Surface Topography: Metrology and Properties</i> , 2016, 4, 014006.	0.9	26
41	The <i>Kladognathus</i> apparatus (Conodonts, Carboniferous): homologies with ozarkodinids, and the prioniodinid Bauplan. <i>Journal of Paleontology</i> , 1993, 67, 875-882.	0.5	25
42	Tooth microwear texture in odontocete whales: variation with tooth characteristics and implications for dietary analysis. <i>Biosurface and Biotribology</i> , 2017, 3, 184-195.	0.6	24
43	Conodonts and the first vertebrates. <i>Endeavour</i> , 1995, 19, 20-27.	0.1	22
44	Large eyes and vision in conodonts. <i>Lethaia</i> , 1995, 28, 187-188.	0.6	21
45	Testing hypotheses of element loss and instability in the apparatus composition of complex conodonts: articulated skeletons of <i>Hindeodus</i> . <i>Palaeontology</i> , 2017, 60, 595-608.	1.0	21
46	The impact of taphonomic data on phylogenetic resolution: <i>Helenodora inopinata</i> (Carboniferous). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	3.2	18
47	Morphological criteria for recognising homology in isolated skeletal elements: comparison of traditional and morphometric approaches in conodonts. <i>Palaeontology</i> , 2009, 52, 1243-1256.	1.0	15
48	Morphology of Cambrian lobopodian eyes from the Chengjiang Lagerstätte and their evolutionary significance. <i>Arthropod Structure and Development</i> , 2012, 41, 495-504.	0.8	15
49	<i>Vogelgnathus</i> Norby and Rexroad (Conodonts): new species from the Lower Carboniferous of Atlantic Canada and northern England. <i>Journal of Paleontology</i> , 1992, 66, 311-332.	0.5	12
50	New data on the palaeobiology of the enigmatic yunnanozoans from the Cambrian, <i>Palaeontology</i> , 2015, 58, 45-70.	1.0	12
51	A new osteostracan fauna from the Devonian of the Welsh Borderlands and observations on the taxonomy and growth of Osteostraci. <i>Journal of Vertebrate Paleontology</i> , 2012, 32, 1002-1017.	0.4	11
52	The phylogenetic signal in tooth wear: What does it mean?. <i>Ecology and Evolution</i> , 2018, 8, 11359-11362.	0.8	11
53	Dietary signals in dental microwear of predatory small mammals appear unaffected by extremes in environmental abrasive load. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 558, 109929.	1.0	10
54	Dietary constraints of phytosaurian reptiles revealed by dental microwear textural analysis. <i>Palaeontology</i> , 2021, 64, 119-136.	1.0	10

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55	Dental microwear texture analysis along reptile tooth rows: complex variation with non-dietary variables. <i>Royal Society Open Science</i> , 2021, 8, 201754.	1.1	9
56	Late Triassic (Norian) Conodont Apparatuses Revealed by Conodont Clusters from Yunnan Province, Southwestern China. <i>Journal of Earth Science (Wuhan, China)</i> , 2021, 32, 709-724.	1.1	9
57	Tooth microwear formation rate in <i>Gasterosteus aculeatus</i> . <i>Journal of Fish Biology</i> , 2014, 84, 1582-1589.	0.7	8
58	Cladistic tests of monophyly and relationships of biostratigraphically significant conodonts using multielement skeletal data of <i>Lochriea homopunctatus</i> and the genus <i>Lochriea</i> . <i>Palaeontology</i> , 2012, 55, 1279-1291.	1.0	7
59	Reconstruction, composition and homology of conodont skeletons: a response to Agematsu <i>et al.</i> . <i>Palaeontology</i> , 2018, 61, 793-796.	1.0	4
60	Systematic analysis of exceptionally preserved fossils: correlated patterns of decay and preservation. <i>Palaeontology</i> , 2021, 64, 789-803.	1.0	4
61	<i>Ubinates</i> , a new name for the genus <i>Aethotaxis</i> Baesemann, 1973 (Vertebrata, Conodonta) preoccupied by <i>Aethotaxis</i> Dewitt, 1962 (Vertebrata, Osteichthyes). <i>Journal of Paleontology</i> , 2000, 74, 544-544.	0.5	3
62	Dental microwear texture analysis as a tool for dietary discrimination in elasmobranchs. <i>Scientific Reports</i> , 2021, 11, 2444.	1.6	3
63	The Evolutionary Emergence of Vertebrates From Among Their Spineless Relatives. <i>Evolution: Education and Outreach</i> , 2009, 2, 204-212.	0.3	2
64	Apparatus architecture and allometry: the keys to conodont element function?. <i>The Paleontological Society Special Publications</i> , 1992, 6, 239-239.	0.0	1
65	The Nature of the Beast: Conodonts as Animals. <i>The Paleontological Society Special Publications</i> , 1996, 8, 315-315.	0.0	1
66	The spectacular fossils of the "water margin": the Cambrian biota of Chengjiang, Yunnan, China. <i>Geology Today</i> , 2016, 32, 233-237.	0.3	1
67	A New Semi-Automatic Morphometric Protocol for Conodonts and a Preliminary Taxonomic Application. <i>Systematics Association Special Volume</i> , 2007, , 225-237.	0.2	1
68	<i>Taphrognathus carinatus</i> (Higgins & Varker) (Conodonta), <i>Taphrognathids</i> . <i>Journal of Micropalaeontology</i> , 2002, 21, 97-104.	1.3	1
69	Dietary inference from dental topographic analysis of feeding tools in diverse animals. <i>Methods in Ecology and Evolution</i> , 2022, 13, 1464-1474.	2.2	1
70	Modelling the Conodont Skeleton: A New Reconstruction for the Conodont Mouth. <i>The Paleontological Society Special Publications</i> , 1996, 8, 106-106.	0.0	0