

Graham E Budd

List of Publications by Year in descending order

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118
papers

5,476
citations

76196

40
h-index

88477

70
g-index

129
all docs

129
docs citations

129
times ranked

2254
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical reappraisal of the fossil record of the bilaterian phyla. <i>Biological Reviews</i> , 2000, 75, 253-295.	4.7	409
2	A palaeontological solution to the arthropod head problem. <i>Nature</i> , 2002, 417, 271-275.	13.7	253
3	The morphology of <i>Opabinia regalis</i> and the reconstruction of the arthropod stem group. <i>Lethaia</i> , 1996, 29, 1-14.	0.6	181
4	Why are arthropods segmented?. <i>Evolution & Development</i> , 2001, 3, 332-342.	1.1	181
5	The origin and evolution of arthropods. <i>Nature</i> , 2009, 457, 812-817.	13.7	159
6	Phylogenomic Insights into Animal Evolution. <i>Current Biology</i> , 2015, 25, R876-R887.	1.8	154
7	Conservation, loss, and redeployment of Wnt ligands in protostomes: implications for understanding the evolution of segment formation. <i>BMC Evolutionary Biology</i> , 2010, 10, 374.	3.2	153
8	The origin of the animals and a "Savannah" hypothesis for early bilaterian evolution. <i>Biological Reviews</i> , 2017, 92, 446-473.	4.7	150
9	The Burgess Shale Anomalocaridid <i>Hurdia</i> and Its Significance for Early Euarthropod Evolution. <i>Science</i> , 2009, 323, 1597-1600.	6.0	146
10	Tardigrades as "Stem-Group Arthropods": The Evidence from the Cambrian Fauna. <i>Zoologischer Anzeiger</i> , 2001, 240, 265-279.	0.4	144
11	Head development in the onychophoran <i>Euperipatoides kanangrensis</i> with particular reference to the central nervous system. <i>Journal of Morphology</i> , 2003, 255, 1-23.	0.6	132
12	A Cambrian gilled lobopod from Greenland. <i>Nature</i> , 1993, 364, 709-711.	13.7	131
13	The morphology and phylogenetic significance of <i>Kerygmachela kierkegaardii</i> Budd (Buen) <i>Tj ETQq1 1 0.784314 rgBT /Overlock</i> <i>Sciences</i> , 1998, 89, 249-290.	1.0	122
14	Arthropod body plan evolution in the Cambrian with an example from anomalocaridid muscle. <i>Lethaia</i> , 1998, 31, 197-210.	0.6	114
15	The earliest fossil record of the animals and its significance. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 1425-1434.	1.8	106
16	The scleritome of <i>Eccentrotheca</i> from the Lower Cambrian of South Australia: Lophophorate affinities and implications for tomotiid phylogeny. <i>Geology</i> , 2008, 36, 171.	2.0	105
17	Comment on "Small Bilaterian Fossils from 40 to 55 Million Years Before the Cambrian". <i>Science</i> , 2004, 306, 1291a-1291a.	6.0	97
18	The Cambrian Fossil Record and the Origin of the Phyla. <i>Integrative and Comparative Biology</i> , 2003, 43, 157-165.	0.9	94

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19	Does evolution in body patterning genes drive morphological change-or vice versa?. <i>BioEssays</i> , 1999, 21, 326-332.	1.2	82
20	New anomalocaridid appendages from the Burgess Shale, Canada. <i>Palaeontology</i> , 2010, 53, 721-738.	1.0	78
21	Origin and evolution of the panarthropod head – A palaeobiological and developmental perspective. <i>Arthropod Structure and Development</i> , 2017, 46, 354-379.	0.8	75
22	Morphology and systematics of the anomalocaridid arthropod <i>Hurdia</i> from the Middle Cambrian of British Columbia and Utah. <i>Journal of Systematic Palaeontology</i> , 2013, 11, 743-787.	0.6	74
23	Deuterostomic Development in the Protostome <i>Priapulid</i> <i>caudatus</i> . <i>Current Biology</i> , 2012, 22, 2161-2166.	1.8	73
24	Head patterning and Hox gene expression in an onychophoran and its implications for the arthropod head problem. <i>Development Genes and Evolution</i> , 2010, 220, 117-122.	0.4	69
25	Deciphering the onychophoran –segmentation gene cascade™: Gene expression reveals limited involvement of pair rule gene orthologs in segmentation, but a highly conserved segment polarity gene network. <i>Developmental Biology</i> , 2013, 382, 224-234.	0.9	68
26	Experimental taphonomy of <i>Artemia</i> reveals the role of endogenous microbes in mediating decay and fossilization. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150476.	1.2	65
27	Ecological innovations in the Cambrian and the origins of the crown group phyla. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150287.	1.8	64
28	The involvement of engrailed and wingless during segmentation in the onychophoran <i>Euperipatoides kanangrensis</i> (Peripatopsidae: Onychophora) (Reid 1996). <i>Development Genes and Evolution</i> , 2009, 219, 249-264.	0.4	62
29	Gene expression patterns in an onychophoran reveal that regionalization predates limb segmentation in panarthropods. <i>Evolution & Development</i> , 2010, 12, 363-372.	1.1	61
30	Onychophoran Hox genes and the evolution of arthropod Hox gene expression. <i>Frontiers in Zoology</i> , 2014, 11, 22.	0.9	61
31	History is written by the victors: The effect of the push of the past on the fossil record. <i>Evolution; International Journal of Organic Evolution</i> , 2018, 72, 2276-2291.	1.1	61
32	Eggs and embryos in <i>Xenoturbella</i> (phylum uncertain) are not ingested prey. <i>Development Genes and Evolution</i> , 2005, 215, 358-363.	0.4	59
33	The dynamics of stem and crown groups. <i>Science Advances</i> , 2020, 6, eaaz1626.	4.7	57
34	On the origin and evolution of major morphological characters. <i>Biological Reviews</i> , 2006, 81, 609.	4.7	55
35	<i>Arthroaspis</i> n. gen., a common element of the Sirius Passet Lagerstätte (Cambrian, North Greenland), sheds light on trilobite ancestry. <i>BMC Evolutionary Biology</i> , 2013, 13, 99.	3.2	53
36	HEAD STRUCTURE IN UPPER STEM-GROUP EUARTHROPODS. <i>Palaeontology</i> , 2008, 51, 561-573.	1.0	52

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37	Early embryonic development of the priapulid worm <i>Priapulus caudatus</i> . <i>Evolution & Development</i> , 2008, 10, 326-338.	1.1	50
38	Lost children of the Cambrian. <i>Nature</i> , 2004, 427, 205-207.	13.7	48
39	Evidence for Wg-independent tergite boundary formation in the millipede <i>Glomeris marginata</i> . <i>Development Genes and Evolution</i> , 2008, 218, 361-370.	0.4	44
40	Expression of myriapod pair rule gene orthologs. <i>EvoDevo</i> , 2011, 2, 5.	1.3	42
41	Analysis of the Wnt gene repertoire in an onychophoran provides new insights into the evolution of segmentation. <i>EvoDevo</i> , 2014, 5, 14.	1.3	41
42	The place of phylogeny and cladistics in Evo-Devo research. <i>International Journal of Developmental Biology</i> , 2003, 47, 479-90.	0.3	40
43	<i>Campanamuta mantonae</i> gen. et. sp. nov., an exceptionally preserved arthropod from the Sirius Passet Fauna (Buen Formation, lower Cambrian, North Greenland). <i>Journal of Systematic Palaeontology</i> , 2011, 9, 217-260.	0.6	39
44	Along came a sea spider. <i>Nature</i> , 2005, 437, 1099-1101.	13.7	38
45	Gene expression suggests conserved mechanisms patterning the heads of insects and myriapods. <i>Developmental Biology</i> , 2011, 357, 64-72.	0.9	37
46	A sclerite-bearing stem group entoproct from the early Cambrian and its implications. <i>Scientific Reports</i> , 2013, 3, 1066.	1.6	37
47	A nektaspid arthropod from the Early Cambrian Sirius Passet fauna, with a description of retrodeformation based on functional morphology. <i>Palaeontology</i> , 1999, 42, 99-122.	1.0	36
48	Ontogeny and dimorphism of <i>Isoxys auritus</i> (Arthropoda) from the Early Cambrian Chengjiang biota, South China. <i>Gondwana Research</i> , 2014, 25, 975-982.	3.0	36
49	Early animal evolution and the origins of nervous systems. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2015, 370, 20150037.	1.8	36
50	Survival and selection biases in early animal evolution and a source of systematic overestimation in molecular clocks. <i>Interface Focus</i> , 2020, 10, 20190110.	1.5	36
51	Response to Comment on "Small Bilaterian Fossils from 40 to 55 Million Years Before the Cambrian". <i>Science</i> , 2004, 306, 1291b-1291b.	6.0	35
52	Caught in the act: priapulid burrowers in early Cambrian substrates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182505.	1.2	35
53	The lobes and lobopods of <i>Opabinia regalis</i> from the middle Cambrian Burgess Shale. <i>Lethaia</i> , 2012, 45, 83-95.	0.6	34
54	At the Origin of Animals: The Revolutionary Cambrian Fossil Record. <i>Current Genomics</i> , 2013, 14, 344-354.	0.7	34

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55	Editorial: a renaissance for evolutionary morphology. <i>Acta Zoologica</i> , 2006, 88, 1-1.	0.6	33
56	Phylogenetic analysis and embryonic expression of panarthropod Dmrt genes. <i>Frontiers in Zoology</i> , 2019, 16, 23.	0.9	33
57	Impacts of speciation and extinction measured by an evolutionary decay clock. <i>Nature</i> , 2020, 588, 636-641.	13.7	32
58	Molecular evidence for a single origin of ultrafiltration-based excretory organs. <i>Current Biology</i> , 2021, 31, 3629-3638.e2.	1.8	28
59	<i>Kleptothule rasmusseni</i> gen. et sp. nov.: an olenellinid-like trilobite from the Sirius Passet fauna (Buen Formation, Lower Cambrian, North Greenland). <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 1995, 86, 1-12.	1.0	27
60	Hatching and earliest larval stages of the priapulid worm <i>Priapulus caudatus</i> . <i>Invertebrate Biology</i> , 2009, 128, 157-171.	0.3	27
61	The oldest notostracan (Upper Devonian Soudan localities, Tj ETQq1 1 0.784314 rgBT / Overlock 10	1.0	27
62	The nature of non-appendicular anterior paired projections in Palaeozoic total-group Euarthropoda. <i>Arthropod Structure and Development</i> , 2016, 45, 185-199.	0.8	27
63	A critical reappraisal of the fossil record of the bilaterian phyla. <i>Biological Reviews</i> , 2000, 75, 253-295.	4.7	26
64	The mouth apparatus of the Cambrian gilled lobopodian <i>Pambdelurion whittingtoni</i> . <i>Palaeontology</i> , 2016, 59, 841-849.	1.0	26
65	The origin and evolution of the euarthropod labrum. <i>Arthropod Structure and Development</i> , 2021, 62, 101048.	0.8	26
66	Invertebrate Evolution: Bringing Order to the Molluscan Chaos. <i>Current Biology</i> , 2011, 21, R964-R966.	1.8	24
67	Expression of collier in the premandibular segment of myriapods: support for the traditional Atelocerata concept or a case of convergence?. <i>BMC Evolutionary Biology</i> , 2011, 11, 50.	3.2	24
68	An ultrastructural investigation of the hypocerebral organ of the adult <i>Euperipatoides kanangrensis</i> (Onychophora, Peripatopsidae). <i>Arthropod Structure and Development</i> , 2005, 34, 407-418.	0.8	23
69	Expression of pair rule gene orthologs in the blastoderm of a myriapod: evidence for pair rule-like mechanisms?. <i>BMC Developmental Biology</i> , 2012, 12, 15.	2.1	23
70	Gene expression suggests conserved aspects of Hox gene regulation in arthropods and provides additional support for monophyletic Myriapoda. <i>EvoDevo</i> , 2010, 1, 4.	1.3	20
71	Aspects of dorso-ventral and proximo-distal limb patterning in onychophorans. <i>Evolution & Development</i> , 2015, 17, 21-33.	1.1	20
72	Widespread preservation of small carbonaceous fossils (SCFs) in the early Cambrian of North Greenland. <i>Geology</i> , 2018, 46, 107-110.	2.0	20

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73	Climbing life's tree. <i>Nature</i> , 2001, 412, 487-487.	13.7	18
74	Ecdysozoan-like sclerites among Ediacaran microfossils. <i>Geological Magazine</i> , 2015, 152, 1145-1148.	0.9	18
75	Fate and nature of the onychophoran mouthâ€“anus furrow and its contribution to the blastopore. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142628.	1.2	17
76	Columnar shell structures in early linguloid brachiopods â€“ new data from the Middle Cambrian of Sweden. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2007, 98, 221-232.	0.3	16
77	The hatching larva of the priapulid worm <i>Halicryptus spinulosus</i> . <i>Frontiers in Zoology</i> , 2009, 6, 8.	0.9	15
78	Gene expression analysis reveals that Delta/Notch signalling is not involved in onychophoran segmentation. <i>Development Genes and Evolution</i> , 2016, 226, 69-77.	0.4	15
79	Burlingiid trilobites from Norway, with a discussion of their affinities and relationships. <i>Palaeontology</i> , 2002, 45, 1171-1195.	1.0	14
80	Embryonic expression of priapulid Wnt genes. <i>Development Genes and Evolution</i> , 2019, 229, 125-135.	0.4	14
81	Expression of engrailed in the developing brain and appendages of the onychophoran <i>Euperipatoides kanangrensis</i> (Reid). <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2005, 304B, 220-228.	0.6	13
82	A myriapod-like arthropod from the Upper Cambrian of East Siberia. <i>Palaontologische Zeitschrift</i> , 2001, 75, 37-41.	0.8	12
83	18. Ecology of Nontrilobite Arthropods and Lobopods in the Cambrian. , 2000, , 404-427.		11
84	Morphospace. <i>Current Biology</i> , 2021, 31, R1181-R1185.	1.8	11
85	The evolution of biramous appendages revealed by a carapace-bearing Cambrian arthropod. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20210034.	1.8	10
86	Investigation of endoderm marker-genes during gastrulation and gut-development in the velvet worm <i>Euperipatoides kanangrensis</i> . <i>Developmental Biology</i> , 2017, 427, 155-164.	0.9	8
87	Intraspecific morphological variation of <i>Agnostus pisiformis</i> , a Cambrian Series 3 trilobite-like arthropod. <i>Lethaia</i> , 2017, 50, 467-485.	0.6	8
88	Habitat and developmental constraints drove 330 million years of horseshoe crab evolution. <i>Biological Journal of the Linnean Society</i> , 2022, 136, 155-172.	0.7	8
89	Progress and problems in arthropod phylogeny. <i>Trends in Ecology and Evolution</i> , 1996, 11, 356-358.	4.2	7
90	An intermittent mode of formation for the trace fossil <i>Cruziana</i> as a serial repetition of <i>Rusophycus</i> : the case of <i>Cruziana tenella</i> (Linnarsson). <i>Lethaia</i> , 2019, 52, 133-148.	0.6	7

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91	Stylonurine eurypterids from the Strud locality (Upper Devonian, Belgium): new insights into the ecology of freshwater sea scorpions. <i>Geological Magazine</i> , 2019, 156, 1708-1714.	0.9	6
92	Animal Phylogeny: Resolving the Slugfest of Ctenophores, Sponges and Acoels?. <i>Current Biology</i> , 2021, 31, R202-R204.	1.8	6
93	Mesozoic fossil sustainability: synoptic case studies of resource management. <i>Gff</i> , 2013, 135, 131-143.	0.4	5
94	The first dorsal-eyed bivalved arthropod and its significance for early arthropod evolution. <i>Gff</i> , 2014, 136, 80-84.	0.4	5
95	Modeling durophagous predation and mortality rates from the fossil record of gastropods. <i>Paleobiology</i> , 2019, 45, 246-264.	1.3	5
96	The last common ancestor of Ecdysozoa had an adult terminal mouth. <i>Arthropod Structure and Development</i> , 2019, 49, 155-158.	0.8	5
97	On the origin and evolution of major morphological characters. <i>Biological Reviews</i> , 2006, 81, 609-628.	4.7	4
98	Gene Expression Patterns in Brachiopod Larvae Refute the "Brachiopod-Fold" Hypothesis. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 74.	1.8	4
99	Gene expression analysis of potential morphogen signalling modifying factors in Panarthropoda. <i>EvoDevo</i> , 2018, 9, 20.	1.3	4
100	Comment on: Tang et al. [2019]: A problematic animal fossil from the early Cambrian Hetang Formation, South China. <i>Journal of Paleontology</i> , 2019, 93, 1276-1278.	0.5	4
101	Bonnet's challenge. <i>Lethaia</i> , 2007, 31, 167-168.	0.6	3
102	Evolution: Mapping Out Early Echinoderms. <i>Current Biology</i> , 2020, 30, R780-R782.	1.8	3
103	Oscillating waves of Fox, Cyclin and CDK gene expression indicate unique spatiotemporal control of cell cycling during nervous system development in onychophorans. <i>Arthropod Structure and Development</i> , 2021, 62, 101042.	0.8	3
104	Expression of <i>netrin</i> and its receptors <i>uncoordinated-5</i> and <i>frazzled</i> in arthropods and onychophorans suggests conserved and diverged functions in neuronal pathfinding and synaptogenesis. <i>Developmental Dynamics</i> , 2023, 252, 172-185.	0.8	3
105	A comprehensive study of arthropod and onychophoran Fox gene expression patterns. <i>PLoS ONE</i> , 2022, 17, e0270790.	1.1	3
106	Trace fossils and the Cambrian explosion. <i>Trends in Ecology and Evolution</i> , 1998, 13, 507.	4.2	2
107	Cambrian nervous wrecks. <i>Nature</i> , 2012, 490, 180-181.	13.7	2
108	Animal Evolution: Trilobites on Speed. <i>Current Biology</i> , 2013, 23, R878-R880.	1.8	2

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109	The Cambrian Explosion: The Reconstruction of Animal Biodiversity. By Douglas H. Erwin and James W. Valentine.. Systematic Biology, 2013, 62, 915-917.	2.7	2
110	New perspectives on ancient marine reptiles. Geological Magazine, 2014, 151, 5-6.	0.9	2
111	Panarthropod tiptop/teashirt and spalt orthologs and their potential role as "trunk" selector genes. EvoDevo, 2021, 12, 7.	1.3	1
112	Expression of the zinc finger transcription factor Sp6 ⁹ in the velvet worm Euperipatoides kanangrensis suggests a conserved role in appendage development in Panarthropoda. Development Genes and Evolution, 2020, 230, 239-245.	0.4	1
113	Arthropods from North Greenland: exceptional data in the "Cambrian explosion" debate. The Paleontological Society Special Publications, 1992, 6, 44-44.	0.0	0
114	Ecology and Evolutionary Significance of the Sirius Passet Fauna Arthropods (Lower Cambrian of) Tj ETQqO O O rgBT /Overlock 10 Tf 50	0.0	0
115	A review of Evolutionary patterns: growth, form and tempo in the fossil record. Evolution & Development, 2002, 4, 316-317.	1.1	0
116	BIO. Evolution & Development, 2009, 11, 462-464.	1.1	0
117	International Congress on Invertebrate Morphology " plenary papers. Acta Zoologica, 2010, 91, 1-1.	0.6	0
118	The earliest fossil record of the animals and its significance. , 2009, , 3-14.		0