

James G Gehling

List of Publications by Year in descending order

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1461
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#	ARTICLE	IF	CITATIONS
1	Microbial Mats in Terminal Proterozoic Siliciclastics: Ediacaran Death Masks. <i>Palaios</i> , 1999, 14, 40.	0.6	579
2	Life after snowball: The oldest complex Ediacaran fossils. <i>Geology</i> , 2003, 31, 27.	2.0	228
3	The first named Ediacaran body fossil, <i>Aspidella Terranova</i> . <i>Palaeontology</i> , 2000, 43, 427-456.	1.0	221
4	Long expected sponges from the Neoproterozoic Ediacara fauna of South Australia. <i>Journal of Paleontology</i> , 1996, 70, 185-195.	0.5	216
5	Ediacara-type fossils in Cambrian sediments. <i>Nature</i> , 1998, 393, 567-569.	13.7	170
6	Trace fossil preservation and the early evolution of animals. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2005, 220, 19-29.	1.0	155
7	Paleoecology of the oldest known animal communities: Ediacaran assemblages at Mistaken Point, Newfoundland. <i>Paleobiology</i> , 2003, 29, 527-544.	1.3	150
8	Trace fossils and substrates of the terminal Proterozoic-Cambrian transition: Implications for the record of early bilaterians and sediment mixing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12572-12576.	3.3	146
9	How well do fossil assemblages of the Ediacara Biota tell time?. <i>Geology</i> , 2013, 41, 447-450.	2.0	145
10	Burrowing below the basal Cambrian GSSP, Fortune Head, Newfoundland. <i>Geological Magazine</i> , 2001, 138, 213-218.	0.9	130
11	Paleoenvironmental analysis of the late Neoproterozoic Mistaken Point and Trepassey formations, southeastern Newfoundland. <i>Canadian Journal of Earth Sciences</i> , 2003, 40, 1375-1391.	0.6	126
12	The advent of animals: The view from the Ediacaran. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4865-4870.	3.3	126
13	Textured organic surfaces associated with the Ediacara biota in South Australia. <i>Earth-Science Reviews</i> , 2009, 96, 196-206.	4.0	123
14	The Rise of Animals in a Changing Environment: Global Ecological Innovation in the Late Ediacaran. <i>Annual Review of Earth and Planetary Sciences</i> , 2017, 45, 593-617.	4.6	117
15	Eight-armed Ediacara fossil preserved in contrasting taphonomic windows from China and Australia. <i>Geology</i> , 2008, 36, 867.	2.0	116
16	Assemblage palaeoecology of the Ediacara biota: The unabridged edition?. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2006, 232, 131-147.	1.0	112
17	Exceptional preservation of soft-bodied Ediacara Biota promoted by silica-rich oceans. <i>Geology</i> , 2016, 44, 951-954.	2.0	105
18	Synchronous Aggregate Growth in an Abundant New Ediacaran Tubular Organism. <i>Science</i> , 2008, 319, 1660-1662.	6.0	95

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19	Affirming life aquatic for the Ediacara biota in China and Australia. <i>Geology</i> , 2013, 41, 1095-1098.	2.0	88
20	Scratch Traces of Large Ediacara Bilaterian Animals. <i>Journal of Paleontology</i> , 2014, 88, 284-298.	0.5	82
21	The Emu Bay Shale Konservat-Lagerstätte: a view of Cambrian life from East Gondwana. <i>Journal of the Geological Society</i> , 2016, 173, 1-11.	0.9	82
22	Spindle-shaped Ediacara fossils from the Mistaken Point assemblage, Avalon Zone, Newfoundland. <i>Canadian Journal of Earth Sciences</i> , 2007, 44, 367-387.	0.6	80
23	When the worm turned: Concordance of Early Cambrian ichnofabric and trace-fossil record in siliciclastic rocks of South Australia. <i>Geology</i> , 1999, 27, 625.	2.0	76
24	Modern optics in exceptionally preserved eyes of Early Cambrian arthropods from Australia. <i>Nature</i> , 2011, 474, 631-634.	13.7	73
25	Ancestral state reconstruction of ontogeny supports a bilaterian affinity for <i>Dickinsonia</i> . <i>Evolution & Development</i> , 2015, 17, 315-324.	1.1	73
26	The Ediacara member of the Rawnsley quartzite: The context of the Ediacara assemblage (late) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	0.6	70
27	Taphonomy and morphology of the Ediacara form genus <i>Aspidella</i> . <i>Precambrian Research</i> , 2015, 257, 124-136.	1.2	66
28	TAPHONOMIC CONTROLS ON EDIACARAN DIVERSITY: UNCOVERING THE HOLDFAST ORIGIN OF MORPHOLOGICALLY VARIABLE ENIGMATIC STRUCTURES. <i>Palaios</i> , 2010, 25, 823-830.	0.6	65
29	The bivalved arthropods <i>Isoxys</i> and <i>Tuzoia</i> with soft-part preservation from the Lower Cambrian Emu Bay Shale Lagerstätte (Kangaroo Island, Australia). <i>Palaeontology</i> , 2009, 52, 1221-1241.	1.0	63
30	Lowermost Cambrian Ichnofabrics from the Chapel Island Formation, Newfoundland: Implications for Cambrian Substrates. <i>Palaios</i> , 2002, 17, 3-15.	0.6	62
31	MICROBIAL MAT SANDWICHES AND OTHER ANACTUALISTIC SEDIMENTARY FEATURES OF THE EDIACARA MEMBER (RAWNSLEY QUARTZITE, SOUTH AUSTRALIA): IMPLICATIONS FOR INTERPRETATION OF THE EDIACARAN SEDIMENTARY RECORD. <i>Palaios</i> , 2017, 32, 181-194.	0.6	60
32	Nektaspid arthropods from the Lower Cambrian Emu Bay Shale Lagerstätte, South Australia, with a reassessment of lamellipedian relationships. <i>Palaeontology</i> , 2010, 53, 377-402.	1.0	58
33	A cnidarian of actinian-grade from the Ediacaran Pound Subgroup, South Australia. <i>Alcheringa</i> , 1988, 12, 299-314.	0.5	55
34	Slime travelers: Early evidence of animal mobility and feeding in an organic mat world. <i>Geobiology</i> , 2019, 17, 490-509.	1.1	55
35	Discovery of the oldest bilaterian from the Ediacaran of South Australia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7845-7850.	3.3	55
36	A scratch circle origin for the medusoid fossil <i>Kullingia</i> . <i>Lethaia</i> , 2002, 35, 291-299.	0.6	54

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37	The geological context of the Lower Cambrian (Series 2) Emu Bay Shale Lagerstätte and adjacent stratigraphic units, Kangaroo Island, South Australia. <i>Australian Journal of Earth Sciences</i> , 2011, 58, 243-257.	0.4	52
38	The advent of hard-part structural support among the Ediacara biota: Ediacaran harbinger of a Cambrian mode of body construction. <i>Geology</i> , 2012, 40, 307-310.	2.0	51
39	Highly regulated growth and development of the Ediacara macrofossil <i>Dickinsonia costata</i> . <i>PLoS ONE</i> , 2017, 12, e0176874.	1.1	51
40	Taphonomy and palaeoecology of the emuellid trilobite <i>Balcoracania dailyi</i> (early Cambrian, South) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i>	1.0	47
41	A <i>Parvancorina</i> -like arthropod from the Cambrian of South China. <i>Historical Biology</i> , 2006, 18, 33-45.	0.7	45
42	<i>Dickinsonia</i> liftoff: Evidence of current derived morphologies. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 434, 28-33.	1.0	45
43	Ediacaran scavenging as a prelude to predation. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 213-222.	1.1	44
44	Cambrian stratigraphy and biostratigraphy of the Flinders Ranges and the north coast of Kangaroo Island, South Australia. <i>Episodes</i> , 2012, 35, 247-255.	0.8	41
45	Ecological Expansion and Extinction in the Late Ediacaran: Weighing the Evidence for Environmental and Biotic Drivers. <i>Integrative and Comparative Biology</i> , 2018, 58, 688-702.	0.9	40
46	Piecing together the puzzle of the Ediacara Biota: Excavation and reconstruction at the Ediacara National Heritage site Nilpena (South Australia). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 513, 132-145.	1.0	40
47	Problematica, trace fossils, and tubes within the Ediacara Member (South Australia): redefining the ediacaran trace fossil record one tube at a time. <i>Journal of Paleontology</i> , 2011, 85, 256-265.	0.5	38
48	Ediacaran stratigraphy and the biota of the Adelaide Geosyncline, South Australia. <i>Episodes</i> , 2012, 35, 236-246.	0.8	37
49	THECTARDIS AVALONENSIS: A NEW EDIACARAN FOSSIL FROM THE MISTAKEN POINT BIOTA, NEWFOUNDLAND. <i>Journal of Paleontology</i> , 2004, 78, 1031-1036.	0.5	34
50	Paleoredox status and thermal alteration of the lower Cambrian (Series 2) Emu Bay Shale Lagerstätte, South Australia. <i>Australian Journal of Earth Sciences</i> , 2011, 58, 259-272.	0.4	34
51	An early Cambrian chelicerate from the Emu Bay Shale, South Australia. <i>Palaeontology</i> , 2016, 59, 549-562.	1.0	34
52	Paleoecology of the enigmatic <i>Tribrachidium</i> : New data from the Ediacaran of South Australia. <i>Precambrian Research</i> , 2015, 269, 183-194.	1.2	33
53	Rheotaxis in the Ediacaran epibenthic organism <i>Parvancorina</i> from South Australia. <i>Scientific Reports</i> , 2017, 7, 45539.	1.6	31
54	Depositional and preservational environments of the Ediacara Member, Rawnsley Quartzite (South) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 434, 4-13.	1.0	29

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55	Deconstructing an Ediacaran frond: three-dimensional preservation of <i>Arborea</i> from Ediacara, South Australia. <i>Journal of Paleontology</i> , 2018, 92, 323-335.	0.5	27
56	A new Ediacaran fossil with a novel sediment displacive life habit. <i>Journal of Paleontology</i> , 2014, 88, 145-151.	0.5	24
57	Development of early Palaeozoic ichnofabrics: evidence from shallow marine siliciclastics. <i>Geological Society Special Publication</i> , 2004, 228, 383-396.	0.8	23
58	How diverse were early animal communities? An example from Ediacara Conservation Park, Flinders Ranges, South Australia. <i>Alcheringa</i> , 2016, 40, 407-421.	0.5	21
59	Biomarker and isotopic signatures of an early Cambrian Lagerstätte in the Stansbury Basin, South Australia. <i>Organic Geochemistry</i> , 2011, 42, 1324-1330.	0.9	20
60	Anatomical and ontogenetic reassessment of the Ediacaran frond <i>Arborea arborea</i> and its placement within total group Eumetazoa. <i>Palaeontology</i> , 2019, 62, 851-865.	1.0	19
61	<i>Thectardis avalonensis</i> : A new Ediacaran fossil from the Mistaken Point biota, Newfoundland. <i>Journal of Paleontology</i> , 2004, 78, 1031-1036.	0.5	18
62	Unusually variable paleocommunity composition in the oldest metazoan fossil assemblages. <i>Paleobiology</i> , 2019, 45, 235-245.	1.3	18
63	The Cambrian System in the Arrowie Basin, Flinders Ranges, South Australia. <i>Australian Journal of Earth Sciences</i> , 2020, 67, 923-948.	0.4	17
64	Possible evidence of primary succession in a juvenile-dominated Ediacara fossil surface from the Flinders Ranges, South Australia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 476, 68-76.	1.0	16
65	The late-stage ferruginization of the Ediacara Member (Rawnsley Quartzite, South Australia): Insights from uranium isotopes. <i>Geobiology</i> , 2018, 16, 35-48.	1.1	16
66	You can get anything you want from Alice's Restaurant Bed: exceptional preservation and an unusual fossil assemblage from a newly excavated bed (Ediacara Member, Nilpena, South Australia). <i>Australian Journal of Earth Sciences</i> , 2020, 67, 873-883.	0.4	15
67	Pentaradial eukaryote suggests expansion of suspension feeding in White Sea-aged Ediacaran communities. <i>Scientific Reports</i> , 2021, 11, 4121.	1.6	15
68	A New Enigmatic, Tubular Organism from the Ediacara Member, Rawnsley Quartzite, South Australia. <i>Journal of Paleontology</i> , 2014, 88, 253-262.	0.5	14
69	La transición ediacárico-cámbrica: facies sedimentarias versus extinción. <i>Estudios Geológicos</i> , 2019, 75, 099.	0.7	14
70	Probable benthic macroalgae from the Ediacara Member, South Australia. <i>Precambrian Research</i> , 2020, 350, 105903.	1.2	13
71	Biostratigraphy of the Ediacara Member (Rawnsley Quartzite, South Australia): implications for depositional environments, ecology and biology of Ediacara organisms. <i>Interface Focus</i> , 2020, 10, 20190100.	1.5	13
72	The short-lived but successful tri-radial body plan: a view from the Ediacaran of Australia. <i>Australian Journal of Earth Sciences</i> , 2020, 67, 885-895.	0.4	12

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73	Evidence of sensory-driven behavior in the Ediacaran organism <i>Parvancorina</i> : Implications and autecological interpretations. <i>Gondwana Research</i> , 2018, 55, 21-29.	3.0	11
74	Comments on Retallack, G. J. 2011: Problematic megafossils in Cambrian Palaeosols of South Australia. <i>Palaeontology</i> , 2012, 55, 913-917.	1.0	9
75	Phyllozoon and Aulozoon: key components of a novel Ediacaran death assemblage in Bathtub Gorge, Heysen Range, South Australia. <i>Geological Magazine</i> , 0, , 1-14.	0.9	9
76	An Ediacaran opportunist? Characteristics of a juvenile <i>Dickinsonia costata</i> population from Crisp Gorge, South Australia. <i>Journal of Paleontology</i> , 2018, 92, 313-322.	0.5	8
77	BIOLOGICAL AND ECOLOGICAL INSIGHTS FROM THE PRESERVATIONAL VARIABILITY OF FUNISIA DOROTHEA, EDIACARA MEMBER, SOUTH AUSTRALIA. <i>Palaïos</i> , 2020, 35, 359-376.	0.6	8
78	What Happens Between Depositional Events, Stays Between Depositional Events: The Significance of Organic Mat Surfaces in the Capture of Ediacara Communities and the Sedimentary Rocks That Preserve Them. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	8
79	<i>Attenborites janeae</i> : a new enigmatic organism from the Ediacara Member (Rawnsley Quartzite), South Australia. <i>Australian Journal of Earth Sciences</i> , 2020, 67, 915-921.	0.4	6
80	Affirming life aquatic for the Ediacara biota in China and Australia: REPLY. <i>Geology</i> , 2014, 42, e326-e326.	2.0	5
81	Stuck in the mat: <i>Obamus coronatus</i> , a new benthic organism from the Ediacara Member, Rawnsley Quartzite, South Australia. <i>Australian Journal of Earth Sciences</i> , 2020, 67, 897-903.	0.4	5
82	Ediacara growing pains: modular addition and development in <i>Dickinsonia costata</i> . <i>Paleobiology</i> , 2022, 48, 83-98.	1.3	5
83	Fleshing out the Ediacaran period. <i>Geological Society Special Publication</i> , 2007, 286, 425-428.	0.8	4
84	Exceptional preservation of soft-bodied Ediacara Biota promoted by silica-rich oceans: REPLY. <i>Geology</i> , 2017, 45, e408-e408.	2.0	4
85	Petrological evidence supports the death mask model for the preservation of Ediacaran soft-bodied organisms in South Australia: COMMENT. <i>Geology</i> , 2019, 47, e473-e473.	2.0	4
86	Picking out the warp and weft of the Ediacaran seafloor: Paleoenvironment and paleoecology of an Ediacara textured organic surface. <i>Precambrian Research</i> , 2022, 369, 106539.	1.2	4
87	Old and Groovy. <i>Science</i> , 2012, 336, 1646-1647.	6.0	3
88	Complex trace fossils from the terminal Proterozoic of Namibia. <i>Geology</i> , 2000, 28, 143-146.	2.0	3
89	Eocene animal trace fossils in 1.7-billion-year-old metaquartzites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2105707118.	3.3	2
90	Taphonomy and Morphology of the Ediacaran Form Genus <i>Aspidella</i> (Ediacara Member, Rawnsley) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 00	0.0	0

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91	A Constructional Link Across the Cambrian Boundary: The Ediacara Taxa <i>Coronacollina</i> <i>Acula</i> . The Paleontological Society Special Publications, 2014, 13, 47-47.	0.0	0
92	<i>Dickinsonia</i> Lifts Off: Evidence of Current-Derived Morphologies. The Paleontological Society Special Publications, 2014, 13, 162-162.	0.0	0
93	Paleoecology of <i>Rugoconites</i> and <i>Tribrachidium</i> : New Data from the Ediacaran of South Australia. The Paleontological Society Special Publications, 2014, 13, 46-47.	0.0	0