David A Grimaldi

List of Publications by Year
in descending order

98 papers	6,304 citations	126907 33 h-index	71685 76 g-index
100 all docs	100 docs citations	100 times ranked	4472 citing authors

#	Article	IF	Citations
1	Age constraint on Burmese amber based on Uâ€“Pb dating of zircons. Cretaceous Research, 2012, 37, 155-163.	1.4	1,215
2	Episodic radiations in the fly tree of life. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5690-5695.	7.1	739
3	Fossiliferous Cretaceous Amber from Myanmar (Burma): Its Rediscovery, Biotic Diversity, and Paleontological Significance. American Museum Novitates, 2002, 3361, 1-71.	0.6	645
4	X-ray computed tomography. Nature Reviews Methods Primers, 2021, 1, .	21.2	305
5	New light shed on the oldest insect. Nature, 2004, 427, 627-630.	27.8	252
6	Treatise on the Isoptera of the World. Bulletin of the American Museum of Natural History, 2013, 377, 1-200.	3.4	228
7	Biogeographic and evolutionary implications of a diverse paleobiota in amber from the early Eocene of India. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18360-18365.	7.1	184
8	Arthropods in amber from the Triassic Period. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14796-14801.	7.1	132
9	Fossil mushrooms from Miocene and Cretaceous ambers and the evolution of Homobasidiomycetes. American Journal of Botany, 1997, 84, 981-991.	1.7	125
10	Adaptive Radiation in Socially Advanced Stem-Group Ants from the Cretaceous. Current Biology, 2016, 26, 515-521.	3.9	102
11	Mid-Cretaceous amber fossils illuminate the past diversity of tropical lizards. Science Advances, 2016, 2, e1501080.	10.3	100
12	Remarkable fly (Diptera) diversity in a patch of Costa Rican cloud forest: Why inventory is a vital science. Zootaxa, 2018, 4402, 53-90.	0.5	86
13	Ticks parasitised feathered dinosaurs as revealed by Cretaceous amber assemblages. Nature Communications, 2017, 8, 1924.	12.8	79
14	Morphologically Specialized Termite Castes and Advanced Sociality in the Early Cretaceous. Current Biology, 2016, 26, 522-530.	3.9	76
15	Primitive New Ants in Cretaceous Amber from Myanmar, New Jersey, and Canada (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Overloc	0.6	72
16	Specialized Myrmecophily at the Ecological Dawn of Modern Ants. Current Biology, 2014, 24, 2428-2434.	3.9	71
17	400 million years on six legs: On the origin and early evolution of Hexapoda. Arthropod Structure and Development, 2010, 39, 191-203.	1.4	69
18	The effects of fossil placement and calibration on divergence times and rates: An example from the termites (Insecta: Isoptera). Arthropod Structure and Development, 2010, 39, 204-219.	1.4	69

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19	First Mesozoic Record of a Parasitiform Mite: a Larval Argasid Tick in Cretaceous Amber (Acari:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.5	68
20	Long-Proboscid Flies as Pollinators of Cretaceous Gymnosperms. Current Biology, 2015, 25, 1917-1923.	3.9	68
21	100 million years of morphological conservation in bark beetles (Coleoptera: Curculionidae:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.9	61
22	Early Cretaceous Spider Web with Its Prey. Science, 2006, 312, 1761-1761.	12.6	60
23	Revision of the bizarre Mesozoic scorpionflies in the Pseudopolycentropodidae (Mecopteroidea). Insect Systematics and Evolution, 2005, 36, 443-458.	0.7	58
24	INSECT EVOLUTIONARY HISTORY FROM HANDLIRSCH TO HENNIG, AND BEYOND. Journal of Paleontology, 2001, 75, 1152-1160.	0.8	53
25	The Age of Dominican Amber. ACS Symposium Series, 1995, , 203-217.	0.5	51
26	The Earliest Fossil Mosquito (Diptera: Culicidae), in Mid-Cretaceous Burmese Amber. Annals of the Entomological Society of America, 2004, 97, 882-888.	2.5	50
27	Comprehensive inventory of true flies (Diptera) at a tropical site. Communications Biology, 2018, 1, 21.	4.4	48
28	Putting scales into evolutionary time: the divergence of major scale insect lineages (Hemiptera) predates the radiation of modern angiosperm hosts. Scientific Reports, 2016, 6, 23487.	3.3	46
29	Fossil Liposcelididae and the lice ages (Insecta: Psocodea). Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 625-633.	2.6	43
30	Mammal bones in Dominican amber. Nature, 1996, 380, 489-490.	27.8	40
31	Rediscovery of the Bizarre Cretaceous AntHaidomyrmexDlussky (Hymenoptera: Formicidae), with Two New Species. American Museum Novitates, 2012, 3755, 1-16.	0.6	39
32	Diverse Orthorrhaphan Flies (Insecta: Diptera: Brachycera) in Amber From the Cretaceous of Myanmar: Brachycera in Cretaceous Amber, Part VII. Bulletin of the American Museum of Natural History, 2016, 408, 1-131.	3.4	39
33	First fossil of an oestroid fly (Diptera: Calyptratae: Oestroidea) and the dating of oestroid divergences. PLoS ONE, 2017, 12, e0182101.	2.5	37
34	Seeking carotenoid pigments in amber-preserved fossil feathers. Scientific Reports, 2014, 4, 5226.	3.3	36
35	Bee flies and bluets:Bombylius(Diptera: Bombyliidae) flower-constant on the distylous species,Hedyotis caerulea(Rubiaceae), and the manner of foraging. Journal of Natural History, 1988, 22, 1-10.	0.5	33
36	A New Genus of Highly Specialized Ants in Cretaceous Burmese Amber (Hymenoptera: Formicidae). Zootaxa, 2013, 3681, 405-12.	0.5	33

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37	First amber fossils of the extinct family Protopsyllidiidae, and their phylogenetic significance among Hemiptera. Insect Systematics and Evolution, 2003, 34, 329-344.	0.7	32
38	Systematics and Modes of Reproductive Isolation in the Holarctic Drosophila testacea Species Group (Diptera: Drosophilidae). Annals of the Entomological Society of America, 1992, 85, 671-685.	2.5	31
39	Raphidiomimula,an enigmatic new cockroach in cretaceous amber from Myanmar (Burma) (Insecta:) Tj ETQq1 1 0.784314 rgBT /Over	1.5	31
40	The First Cretaceous Rhinotermitidae (Isoptera): A New Species, Genus, and Subfamily in Burmese Amber. American Museum Novitates, 2003, 3390, 1-10.	0.6	30
41	Early lineages of Vespidae (Hymenoptera) in Cretaceous amber. Systematic Entomology, 2017, 42, 379-386.	3.9	30
42	A new genus of hell ants from the Cretaceous (Hymenoptera: Formicidae: Haidomyrmecini) with a novel head structure. Systematic Entomology, 2017, 42, 837-846.	3.9	30
43	Remarkable stasis in some Lower Tertiary parasitoids: descriptions, new records, and review of Strepsiptera in the Oligo-Miocene amber of the Dominican Republic. Insect Systematics and Evolution, 1993, 24, 31-41.	0.7	29
44	Diverse Rhinotermitidae and Termitidae (Isoptera) in Dominican Amber. American Museum Novitates, 2009, 2009, 1.	0.6	29
45	A Diverse Ant Fauna from the Mid-Cretaceous of Myanmar (Hymenoptera: Formicidae). PLoS ONE, 2014, 9, e93627.	2.5	29
46	Pollination ofSpeckliniaby nectar-feedingDrosophila: the first reported case of a deceptive syndrome employing aggregation pheromones in Orchidaceae. Annals of Botany, 2015, 116, 437-455.	2.9	28
47	Haltere morphology and campaniform sensilla arrangement across Diptera. Arthropod Structure and Development, 2017, 46, 215-229.	1.4	28
48	High diversity of Drosophilidae (Insecta, Diptera) in the Pampas Biome of South America, with descriptions of new Rhinoleucophenga species. Zootaxa, 2014, 3779, 215.	0.5	27
49	Diverse New Scale Insects (Hemiptera: Coccoidea) in Amber from the Cretaceous and Eocene with a Phylogenetic Framework for Fossil Coccoidea. American Museum Novitates, 2015, 3823, 1-15.	0.6	26
50	Direct evidence for eudicot pollen-feeding in a Cretaceous stinging wasp (Angiospermae; Hymenoptera,) Tj ETQq0 0 0 rgBT /Overlock 10	4.4	26
51	Phylogeny of ensign scale insects (Hemiptera: Coccoidea: Ortheziidae) based on the morphology of Recent and fossil females. Systematic Entomology, 2012, 37, 758-783.	3.9	24
52	Nonâ€jumping plantâ€lice in Cretaceous amber (Hemiptera: Sternorrhyncha: Psylloidea). Systematic Entomology, 2010, 35, 172-180.	3.9	23
53	Longâ€proboscid brachyceran flies in <scp>C</scp>retaceous amber (<scp>D</scp>iptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.9	23
54	A mosaic Lauralean flower from the Early Cretaceous of Myanmar. American Journal of Botany, 2016, 103, 290-297.	1.7	23

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55	Assemblages of mammalian hair and blood-feeding midges (Insecta: Diptera: Psychodidae:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 2005, 96, 177-195.	0.7	20
56	Pushing Back Amber Production. Science, 2009, 326, 51-52.	12.6	20
57	Latest occurrences of the Mesozoic family Elcanidae (Insecta: Orthoptera), in Cretaceous amber from Myanmar and Spain. Annales De La Societe Entomologique De France, 2010, 46, 88-99.	0.9	20
58	Oldest known ant fossils discovered. Nature, 1998, 391, 447-447.	27.8	19
59	Valeseguyidae, a new family of Diptera in the Scatopsoidea, with a new genus in Cretaceous amber from Myanmar. Systematic Entomology, 2006, 31, 508-516.	3.9	17
60	Extralimital Fossils of the â€œGondwananâ€•Family Sphaeropsocidae (Insecta: Psocodea). American Museum Novitates, 2006, 3523, 1.	0.6	16
61	THE MESOZOIC FAMILY ARCHIZELMIRIDAE (DIPTERA: INSECTA). Journal of Paleontology, 2003, 77, 368-381.	0.8	14
62	The extinct genus Pareuthychaeta in Eocene ambers (Diptera: Schizophora: Ephydroidea). Canadian Entomologist, 2012, 144, 17-28.	0.8	14
63	A late Cretaceous fagalean inflorescence preserved in amber from New Jersey. American Journal of Botany, 2018, 105, 1424-1435.	1.7	14
64	Diverse new tropical land snail species from mid-Cretaceous Burmese amber (Mollusca: Gastropoda:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	14
65	Insect evolutionary history from Handlirsch to Hennig, and beyond. Journal of Paleontology, 2001, 75, 1152-1160.	0.8	13
66	The Mesozoic family Archizelmiridae (Diptera: Insecta). Journal of Paleontology, 2003, 77, 368-381.	0.8	13
67	THE FIRST MESOZOIC STEPHANID WASP (HYMENOPTERA: STEPHANIDAE). Journal of Paleontology, 2004, 78, 1192-1197.	0.8	13
68	Strange Little Flies in the Big City: Exotic Flower-Breeding Drosophilidae (Diptera) in Urban Los Angeles. PLoS ONE, 2015, 10, e0122575.	2.5	12
69	The oldest predaceous water bugs (Insecta, Heteroptera, Belostomatidae), with implications for paleolimnology of the Triassic Cow Branch Formation. Journal of Paleontology, 2017, 91, 1166-1177.	0.8	11
70	Hirtodrosophilaof North America (Diptera: Drosophilidae). Bulletin of the American Museum of Natural History, 2018, 421, 1-75.	3.4	11
71	Dracula orchids exploit guilds of fungus visiting flies: new perspectives on a mushroom mimic. Ecological Entomology, 2019, 44, 457-470.	2.2	11
72	Lygistorrhinidae (Diptera: Bibionomorpha: Sciaroidea) in early Eocene Cambay amber. PeerJ, 2017, 5, e3313.	2.0	11

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73	Small but not ephemeral: newly discovered species of Aphelinidae and Trichogrammatidae (Insecta:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 3	3.9	10
74	Biological Inclusions in Amber from the Paleogene Chickaloon Formation of Alaska. American Museum Novitates, 2018, 3908, 1-37.	0.6	10
75	Basal Cyclorrhapha in Amber from the Cretaceous and Tertiary(Insecta: Diptera), and Their Relationships: Brachycera in Cretaceous Amber Part IX. Bulletin of the American Museum of Natural History, 2018, 423, 1-97.	3.4	10
76	The Cretaceous Fossil Burmaculex antiquus Confirmed as the Earliest Known Lineage of Mosquitoes (Diptera: Culicidae). Zootaxa, 2016, 4079, 457-66.	0.5	9
77	The Mesozoic Family Eremochaetidae (Diptera: Brachycera) in Burmese Amber and Relationships of Archisargoidea: Brachycera in Cretaceous Amber, Part VIII. American Museum Novitates, 2016, 3865, 1-29.	0.6	9
78	Amber. Current Biology, 2019, 29, R861-R862.	3.9	8
79	Morphological stasis in the first myxomycete from the Mesozoic, and the likely role of cryptobiosis. Scientific Reports, 2019, 9, 19730.	3.3	8
80	Insects with 100 million-year-old dinosaur feathers are not ectoparasites. Nature Communications, 2021, 12, 1469.	12.8	8
81	A New Subfamily of Aphids (Hemiptera, Aphidomorpha) from the Early Cretaceous Lebanese Amber with a Description of the Oldest Apterous Morphs. Acta Geologica Sinica, 2010, 84, 665-672.	1.4	7
82	THE OLDEST ANTS ARE CRETACEOUS, NOT EOCENE: COMMENT. Canadian Entomologist, 2000, 132, 691-693.	0.8	6
83	The first Mesozoic stephanid wasp (Hymenoptera: Stephanidae). Journal of Paleontology, 2004, 78, 1192-1197.	0.8	6
84	A new genus of sphaeropsocid bark lice from the Early Cretaceous amber of Lebanon (Psocodea:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.9	6
85	Transcriptomes reveal expression of hemoglobins throughout insects and other Hexapoda. PLoS ONE, 2020, 15, e0234272.	2.5	6
86	Flowers of Apocynaceae in amber from the early Eocene of India. American Journal of Botany, 2021, 108, 883-892.	1.7	5
87	Saproxylic fly diversity in a Costa Rican forest mosaic. Journal of Natural History, 2021, 55, 1251-1265.	0.5	3
88	Fossil record and phylogeny of the Arthropoda. Arthropod Structure and Development, 2010, 39, 72-73.	1.4	2
89	Unique Metasomal Musculature in Sweat Bees (Hymenoptera: Apoidea: Halictidae) Revealed by Micro-CT Scanning. American Museum Novitates, 2019, 2019, 1.	0.6	2
90	Cretaceous Diversity of the Relict Genus Alavesia Waters and Arillo (Diptera: Empidoidea: Atelestidae). American Museum Novitates, 2020, 2020, .	0.6	2

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91	The Drosophila funebris Species Group in North America (Diptera: Drosophilidae). American Museum Novitates, 2022, 2022, .	0.6	2
92	Did Disease Indeed Destroy the Dinosaurs?:What Bugged the Dinosaurs? Insects, Disease, and Death in the Cretaceous. George Poinar Jr. and Roberta Poinar . Princeton University Press, 2008, 264 pp., illus. $29.95 (ISBN 9780691124315 cloth).. BioScience, 2009, 59, 446-447.	4.9	1
93	First Tropical American Species of the â€œRelictâ€•GenusLitoleptis,and Relationships in Spaniinae (Diptera: Rhagionidae). American Museum Novitates, 2018, 3909, 1-18.	0.6	1
94	Evolutionary History of Interactions among Terrestrial Arthropods. Current Opinion in Insect Science, 2022, , 100915.	4.4	1
95	Presentation of the 2008 Charles Schuchert Award of the Paleontological Society to Michael S. Engel. Journal of Paleontology, 2011, 85, 809-809.	0.8	0
96	<p>A Revision of the Drosophila spinipes Species Group (Diptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (D	0.5	0
97	Windows in Time: Life in Amber . George O. Poinar, Jr. Stanford University Press, Stanford, CA, 1992. xvi, 350 pp., illus., + plates. $55.. Science, 1992, 258, 1822-1822.	12.6	0
98	James S. Miller (1953â€“2022): Remembering a Great Entomologist, Musician, and Friend. American Entomologist, 2022, 68, 59-60.	0.2	0