Arnaud Brayard

List of Publications by Year
in descending order

86 papers	3,536 citations	159525 30 h-index	143943 57 g-index
87 all docs	87 docs citations	87 times ranked	1714 citing authors

#	Article	IF	Citations
1	Good Genes and Good Luck: Ammonoid Diversity and the End-Permian Mass Extinction. Science, 2009, 325, 1118-1121.	6.0	241
2	Timing of the Early Triassic carbon cycle perturbations inferred from new Uâ€“Pb ages and ammonoid biochronozones. Earth and Planetary Science Letters, 2007, 258, 593-604.	1.8	237
3	New Early to Middle Triassic Uâ€“Pb ages from South China: Calibration with ammonoid biochronozones and implications for the timing of the Triassic biotic recovery. Earth and Planetary Science Letters, 2006, 243, 463-475.	1.8	212
4	The Early Triassic ammonoid recovery: Paleoclimatic significance of diversity gradients. Palaeogeography, Palaeoclimatology, Palaeoecology, 2006, 239, 374-395.	1.0	207
5	Smithian-Spathian boundary event: Evidence for global climatic change in the wake of the end-Permian biotic crisis. Geology, 2007, 35, 291.	2.0	199
6	Late Early Triassic climate change: Insights from carbonate carbon isotopes, sedimentary evolution and ammonoid paleobiogeography. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 243, 394-411.	1.0	132
7	Transient metazoan reefs in the aftermath of the end-Permian mass extinction. Nature Geoscience, 2011, 4, 693-697.	5.4	122
8	Evolution of Early Triassic outer platform paleoenvironments in the Nanpanjiang Basin (South China) and their significance for the biotic recovery. Sedimentary Geology, 2008, 204, 36-60.	1.0	109
9	Unexpected Early Triassic marine ecosystem and the rise of the Modern evolutionary fauna. Science Advances, 2017, 3, e1602159.	4.7	103
10	Ammonite paleobiogeography during the Pliensbachianâ€“Toarcian crisis (Early Jurassic) reflecting paleoclimate, eustasy, and extinctions. Global and Planetary Change, 2011, 78, 92-105.	1.6	99
11	Permianâ€“<scp>T</scp>riassic <scp>O</scp>steichthyes (bony fishes): diversity dynamics and body size evolution. Biological Reviews, 2016, 91, 106-147.	4.7	88
12	The biogeography of Early Triassic ammonoid faunas: Clusters, gradients, and networks. Geobios, 2007, 40, 749-765.	0.7	83
13	Recovery of benthic marine communities from the endâ€‹<scp>P</scp>ermian mass extinction at the low latitudes of eastern <scp>P</scp>anthalassa. Palaeontology, 2014, 57, 547-589.	1.0	83
14	Latitudinal gradient of taxonomic richness: combined outcome of temperature and geographic mid-domains effects?. Journal of Zoological Systematics and Evolutionary Research, 2005, 43, 178-188.	0.6	80
15	Gastropod evidence against the Early Triassic Lilliput effect. Geology, 2010, 38, 147-150.	2.0	71
16	High-resolution biochronology and diversity dynamics of the Early Triassic ammonoid recovery: The Smithian faunas of the Northern Indian Margin. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 297, 491-501.	1.0	69
17	The Smithian/Spathian boundary (late Early Triassic): A review of ammonoid, conodont, and carbon-isotopic criteria. Earth-Science Reviews, 2019, 195, 7-36.	4.0	62
18	Smithian and Spathian (Early Triassic) ammonoid assemblages from terranes: Paleoceanographic and paleogeographic implications. Journal of Asian Earth Sciences, 2009, 36, 420-433.	1.0	59

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19	Early Triassic conodont clusters from South China: revision of the architecture of the 15 element apparatuses of the superfamily Gondolelloidea. Palaeontology, 2012, 55, 1021-1034.	1.0	57
20	Smithian ammonoid faunas from Utah: implications for Early Triassic biostratigraphy, correlation and basinal paleogeography. Swiss Journal of Palaeontology, 2013, 132, 141-219.	0.7	52
21	Microbial deposits in the aftermath of the endâ€Permian mass extinction: A diverging case from the Mineral Mountains (Utah, <scp>USA</scp>). Sedimentology, 2015, 62, 753-792.	1.6	49
22	GRIESBACHIAN AND DIENERIAN (EARLY TRIASSIC) AMMONOID FAUNAS FROM NORTHWESTERN GUANGXI AND SOUTHERN GUIZHOU (SOUTH CHINA). Palaeontology, 2008, 51, 1151-1180.	1.0	44
23	High-resolution biochronology and diversity dynamics of the Early Triassic ammonoid recovery: The Dienerian faunas of the Northern Indian Margin. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 440, 363-373.	1.0	42
24	Linking the distribution of microbial deposits from the Great Salt Lake (Utah, USA) to tectonic and climatic processes. Biogeosciences, 2016, 13, 5511-5526.	1.3	41
25	Early Triassic Gulliver gastropods: Spatio-temporal distribution and significance for biotic recovery after the end-Permian mass extinction. Earth-Science Reviews, 2015, 146, 31-64.	4.0	37
26	Ammonoid recovery after the Permianâ€"Triassic mass extinction: a re-exploration of morphological and phylogenetic diversity patterns. Journal of the Geological Society, 2013, 170, 225-236.	0.9	36
27	The Indosinian orogeny: A perspective from sedimentary archives of north Vietnam. Journal of Asian Earth Sciences, 2018, 158, 352-380.	1.0	36
28	External controls on the distribution, fabrics and mineralization of modern microbial mats in a coastal hypersaline lagoon, Cayo Coco (Cuba). Sedimentology, 2016, 63, 972-1016.	1.6	35
29	AMMONOID SHELL STRUCTURES OF PRIMARY ORGANIC COMPOSITION. Palaeontology, 2007, 50, 1463-1478.	1.0	33
30	Biodiversity is not (and never has been) a bed of roses!. Comptes Rendus - Biologies, 2011, 334, 351-359.	0.1	33
31	The lacustrine microbial carbonate factory of the successive Lake Bonneville and Great Salt Lake, Utah, <scp>USA</scp>. Sedimentology, 2019, 66, 165-204.	1.6	33
32	Biostratigraphy of Triassic Ammonoids. Topics in Geobiology, 2015, , 329-388.	0.6	30
33	A diagenetic control on the Early Triassic Smithianâ€"Spathian carbon isotopic excursions recorded in the marine settings of the Thaynes Group (Utah, USA). Geobiology, 2016, 14, 220-236.	1.1	29
34	Revision of the genus <i>Anasibirites</i> Mojsisovics (Ammonoidea): an iconic and cosmopolitan taxon of the late Smithian (Early Triassic) extinction. Papers in Palaeontology, 2016, 2, 155-188.	0.7	29
35	<i>GUODUNITES</i>, A LOWâ€PALAEOLATITUDE AND TRANSâ€PANTHALASSIC SMITHIAN (EARLY TRIASSIC) AMMONOID GENUS. Palaeontology, 2009, 52, 471-481.	1.0	27
36	Evolutionary rates do not drive latitudinal diversity gradients. Journal of Zoological Systematics and Evolutionary Research, 2008, 46, 82-86.	0.6	25

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37	Multiple sulfur isotope signals associated with the late Smithian event and the Smithian/Spathian boundary. Earth-Science Reviews, 2019, 195, 96-113.	4.0	25
38	Comparative biogeography of echinoids, bivalves and gastropods from the <scp>S</scp>outhern <scp>O</scp>cean. Journal of Biogeography, 2013, 40, 1374-1385.	1.4	24
39	Comment on "Lethally Hot Temperatures During the Early Triassic Greenhouse". Science, 2013, 339, 1033-1033.	6.0	23
40	Permian-Triassic Extinctions and Rediversifications. Topics in Geobiology, 2015, , 465-473.	0.6	23
41	Early Triassic fluctuations of the global carbon cycle: New evidence from paired carbon isotopes in the western USA basin. Global and Planetary Change, 2017, 154, 10-22.	1.6	22
42	Smithian shoreline migrations and depositional settings in Timpoweap Canyon (Early Triassic, Utah,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	20
43	Gladius-bearing coleoids from the Upper Cretaceous Lebanese LagerstÃtten: diversity, morphology, and phylogenetic implications. Journal of Paleontology, 2015, 89, 148-167.	0.5	20
44	Reproductive strategy as a piece of the biogeographic puzzle: a case study using Antarctic sea stars (Echinodermata, Asteroidea). Journal of Biogeography, 2017, 44, 848-860.	1.4	20
45	<i>Proharpoceras</i> Chao: a new ammonoid lineage surviving the endâ€Permian mass extinction. Lethaia, 2007, 40, 175-181.	0.6	18
46	Controlling factors for differential subsidence in the Sonoma Foreland Basin (Early Triassic, western) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.9	18
47	Ammonoids and nautiloids from the earliest Spathian Paris Biota and other early Spathian localities in southeastern Idaho, USA. Geobios, 2019, 54, 13-36.	0.7	18
48	<i>Proteroctopus ribeti</i> in coleoid evolution. Palaeontology, 2016, 59, 767-773.	1.0	17
49	An Early Triassic gladius associated with soft tissue remains from Idaho, USAâ€"a squid-like coleoid cephalopod at the onset of Mesozoic Era. Acta Palaeontologica Polonica, 0, 63, .	0.4	17
50	Ammonoids and Quantitative Biochronologyâ€"A Unitary Association Perspective. Topics in Geobiology, 2015, , 277-298.	0.6	16
51	Enhanced development of lacustrine microbialites on gravity flow deposits, Great Salt Lake, Utah, USA. Sedimentary Geology, 2016, 341, 1-12.	1.0	16
52	Superstesaster promissor gen. et sp. nov., a new starfish (Echinodermata, Asteroidea) from the Early Triassic of Utah, USA, filling a major gap in the phylogeny of asteroids. Journal of Systematic Palaeontology, 2018, 16, 395-415.	0.6	16
53	Evolution of depositional settings in the Torrey area during the Smithian (Early Triassic, Utah, USA) and their significance for the biotic recovery. Geological Journal, 2016, 51, 600-626.	0.6	15
54	Early Triassic environmental dynamics and microbial development during the Smithianâ€"Spathian transition (Lower Weber Canyon, Utah, USA). Sedimentary Geology, 2018, 363, 136-151.	1.0	15

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55	Phylogenetic conservatism of species range size is the combined outcome of phylogeny and environmental stability. Journal of Biogeography, 2017, 44, 2451-2462.	1.4	14
56	Palaeobiogeographical distribution of Smithian (Early Triassic) ammonoid faunas within the western <scp>USA</scp> basin and its controlling parameters. Palaeontology, 2018, 61, 881-904.	1.0	14
57	Smithian ammonoid faunas from northeastern Nevada: implications for Early Triassic biostratigraphy and correlation within the western USA basin. Palaeontographica, Abteilung A: Palaozoologie - Stratigraphie, 2017, 309, 1-89.	1.5	14
58	New thylacocephalans from the Early Triassic Paris Biota (Bear Lake County, Idaho, USA). Geobios, 2019, 54, 37-43.	0.7	13
59	Untangling phylogenetic, geometric and ornamental imprints on Early Triassic ammonoid biogeography: a similarity-distance decay study. Lethaia, 2013, 46, 19-33.	0.6	12
60	Gauging scale effects and biogeographical signals in similarity distance decay analyses: an Early Jurassic ammonite case study. Palaeontology, 2016, 59, 671-687.	1.0	12
61	Glow in the dark: Use of synchrotron Î¼XRF trace elemental mapping and multispectral macro-imaging on fossils from the Paris Biota (Bear Lake County, Idaho, USA). Geobios, 2019, 54, 71-79.	0.7	12
62	Exceptional fossil assemblages confirm the existence of complex Early Triassic ecosystems during the early Spathian. Scientific Reports, 2021, 11, 19657.	1.6	12
63	A new holocrinid (Articulata) from the Paris Biota (Bear Lake County, Idaho, USA) highlights the high diversity of Early Triassic crinoids. Geobios, 2019, 54, 45-53.	0.7	11
64	Gastropod evidence against the Early Triassic Lilliput effect: REPLY. Geology, 2011, 39, e233-e233.	2.0	10
65	Biogeography of Triassic Ammonoids. Topics in Geobiology, 2015, , 163-187.	0.6	10
66	A late-surviving Triassic protomonaxonid sponge from the Paris Biota (Bear Lake County, Idaho, USA). Geobios, 2019, 54, 5-11.	0.7	10
67	Deciphering the exceptional preservation of the Early Triassic Paris Biota (Bear Lake County, Idaho,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.7	10
68	A new brittle star (Ophiuroidea: Ophiodermatina) from the Early Triassic Paris Biota (Bear Lake) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	0.7	10
69	A new Griesbachianâ€“Dienerian (Induan, Early Triassic) ammonoid fauna from Gujiao, South China. Journal of Paleontology, 2019, 93, 48-71.	0.5	10
70	Les AmmonoÃ¯des (Mollusca, Cephalopoda)Â: avancÃ©es et contributions rÃ©centes Ã la palÃ©obiologie Ã©volutive. Comptes Rendus - Palevol, 2009, 8, 167-178.	0.1	9
71	Chondrichthyan teeth from the Early Triassic Paris Biota (Bear Lake County, Idaho, USA). Geobios, 2019, 54, 63-70.	0.7	9
72	Palaeobiogeography of Austral echinoid faunas: a first quantitative approach. Geological Society Special Publication, 2013, 381, 117-127.	0.8	8

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73	Late Smithian microbial deposits and their lateral marine fossiliferous limestones (Early Triassic,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.7	8
74	Calibrating the late Smithian (Early Triassic) crisis: New insights from the Nanpanjiang Basin, South China. Global and Planetary Change, 2021, 201, 103492.	1.6	8
75	Smithian (Early Triassic) ammonoid faunas from Timor: taxonomy and biochronology. Palaeontographica, Abteilung A: Palaozoologie - Stratigraphie, 2020, 317, 1-137.	1.5	8
76	<i>Globacrochordiceras</i>gen. nov. (Acrochordiceratidae, late Early Triassic) and its significance for stress-induced evolutionary jumps in ammonoid lineages (cephalopods). Fossil Record, 2013, 16, 197-215.	0.4	7
77	Revised stratigraphic range of the Toarcian ammonite genusPorpocerasBuckman, 1911. Geodiversitas, 2016, 38, 505-513.	0.2	5
78	The Rapoport effect and the climatic variability hypothesis in Early Jurassic ammonites. Palaeontology, 2018, 61, 963-980.	1.0	5
79	New middle and late Smithian ammonoid faunas from the Utah/Arizona border: New evidence for calibrating Early Triassic transgressive-regressive trends and paleobiogeographical signals in the western USA basin. Global and Planetary Change, 2020, 192, 103251.	1.6	5
80	Biological Soil Crusts as Modern Analogs for the Archean Continental Biosphere: Insights from Carbon and Nitrogen Isotopes. Astrobiology, 2020, 20, 815-819.	1.5	5
81	Evolutionary Trends of Triassic Ammonoids. Topics in Geobiology, 2015, , 25-50.	0.6	4
82	Learning from beautiful monsters: phylogenetic and morphogenetic implications of left-right asymmetry in ammonoid shells. BMC Evolutionary Biology, 2019, 19, 210.	3.2	3
83	Latest Smithian (Early Triassic) ammonoid assemblages in Utah (western USA basin) and their implications for regional biostratigraphy, biogeography and placement of the Smithian/Spathian boundary. Geobios, 2021, 69, 1-23.	0.7	2
84	The Paris Biota decapod (Arthropoda) fauna and the diversity of Triassic decapods. Journal of Paleontology, 2022, 96, 1235-1263.	0.5	2
85	Foreword for the thematic issue â€œThe Paris Biota (Bear Lake County, Idaho, USA): an exceptional window on the Early Triassic marine lifeâ€• Geobios, 2019, 54, 1-3.	0.7	1
86	A Changhsingian (late Permian) nautiloid assemblage from Gujiao, South China. Papers in Palaeontology, 2021, 7, 329-351.	0.7	1