Peter A Allison

List of Publications by Year in descending order

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65 papers	2,859 citations	159585 30 h-index	175258 52 g-index
65 all docs	65 docs citations	65 times ranked	2163 citing authors

#	Article	IF	Citations
1	The role of anoxia in the decay and mineralization of proteinaceous macro-fossils. Paleobiology, 1988, 14, 139-154.	2.0	258
2	<i>Konservat-LagerstÃtten:</i>cause and classification. Paleobiology, 1988, 14, 331-344.	2.0	249
3	Exceptional fossil record: Distribution of soft-tissue preservation through the Phanerozoic. Geology, 1993, 21, 527.	4.4	168
4	A new computational framework for multiâ€scale ocean modelling based on adapting unstructured meshes. International Journal for Numerical Methods in Fluids, 2008, 56, 1003-1015.	1.6	139
5	Deep-water taphonomy of vertebrate carcasses: a whale skeleton in the bathyal Santa Catalina Basin. Paleobiology, 1991, 17, 78-89.	2.0	128
6	Asteroid impact, not volcanism, caused the end-Cretaceous dinosaur extinction. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 17084-17093.	7.1	116
7	Soft-bodied animals in the fossil record: The role of decay in fragmentation during transport. Geology, 1986, 14, 979.	4.4	111
8	Paleolatitudinal sampling bias, Phanerozoic species diversity, and the end-Permian extinction. Geology, 1993, 21, 65.	4.4	86
9	Bryozoan carbonates through time and space. Geology, 1998, 26, 459.	4.4	86
10	Phosphatized softâ€bodied squids from the Jurassic Oxford Clay. Lethaia, 1988, 21, 403-410.	1.4	74
11	In situ benthos and paleo-oxygenation in the Middle Cambrian Burgess Shale, British Columbia, Canada. Geology, 1995, 23, 1079.	4.4	66
12	Taphonomy of Nonmineralized Tissues. Topics in Geobiology, 1991, , 25-70.	0.5	66
13	Ecological niche modelling does not support climatically-driven dinosaur diversity decline before the Cretaceous/Paleogene mass extinction. Nature Communications, 2019, 10, 1091.	12.8	60
14	Modelling ancient tides: the Upper Carboniferous epi-continental seaway of Northwest Europe. Sedimentology, 2005, 52, 715-735.	3.1	58
15	A POD reduced order unstructured mesh ocean modelling method for moderate Reynolds number flows. Ocean Modelling, 2009, 28, 127-136.	2.4	57
16	Early Diagenetic Mineralization and Fossil Preservation in Modern Carbonate Concretions. Palaios, 1994, 9, 561.	1.3	55
17	Sequence stratigraphy, cyclic facies, and lagerstÃtten in the Middle Cambrian Wheeler and Marjum Formations, Great Basin, Utah. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 277, 9-33.	2.3	54
18	Coupled â€˜stormâ€floodâ€™ depositional model: Application to the Mioceneâ€“Modern Baram Delta Province, northâ€west Borneo. Sedimentology, 2017, 64, 1203-1235.	3.1	53

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19	Tidal dynamics and mangrove carbon sequestration during the Oligoâ€“Miocene in the South China Sea. Nature Communications, 2017, 8, 15698.	12.8	50
20	Large sea, small tides: the Late Carboniferous seaway of NW Europe. Journal of the Geological Society, 2005, 162, 417-420.	2.1	47
21	Reducedâ€order modelling of an adaptive mesh ocean model. International Journal for Numerical Methods in Fluids, 2009, 59, 827-851.	1.6	47
22	Sedimentology and stratigraphic development of the upper Nyalau Formation (Early Miocene), Sarawak, Malaysia: A mixed wave- and tide-influenced coastal system. Journal of Asian Earth Sciences, 2013, 76, 301-311.	2.3	46
23	A POD reducedâ€order 4Dâ€Var adaptive mesh ocean modelling approach. International Journal for Numerical Methods in Fluids, 2009, 60, 709-732.	1.6	45
24	Modelling tidal current-induced bed shear stress and palaeocirculation in an epicontinental seaway: the Bohemian Cretaceous Basin, Central Europe. Sedimentology, 2010, 57, 359-388.	3.1	45
25	Numerical Modeling of Tides in the Late Pennsylvanian Midcontinent Seaway of North America with Implications for Hydrography and Sedimentation. Journal of Sedimentary Research, 2007, 77, 843-865.	1.6	39
26	The impact of mesh adaptivity on the gravity current front speed in a two-dimensional lock-exchange. Ocean Modelling, 2011, 38, 1-21.	2.4	37
27	CIRCULATION IN LARGE ANCIENT EPICONTINENTAL SEAS: WHAT WAS DIFFERENT AND WHY?. Palaios, 2006, 21, 513-515.	1.3	36
28	Palaeo-oxygenation: effects and recognition. Geological Society Special Publication, 1995, 83, 97-112.	1.3	34
29	Switching off the carbonate factory: A-tidality, stratification and brackish wedges in epeiric seas. Sedimentary Geology, 2005, 179, 175-184.	2.1	33
30	Geophysical and geological signatures of relative sea level change in the upper Wheeler Formation, Drum Mountains, West-Central Utah: A perspective into exceptional preservation of fossils. Palaeogeography, Palaeoclimatology, Palaeoecology, 2009, 277, 34-56.	2.3	33
31	The Walcott-Rust Quarry: Middle Ordovician trilobite Konservat-LagerstÃtten. Journal of Paleontology, 1999, 73, 288-305.	0.8	30
32	A systematic approach to unstructured mesh generation for ocean modelling using GMT and Terreno. Computers and Geosciences, 2008, 34, 1721-1731.	4.2	30
33	Tidal Modeling of an Ancient Tide-Dominated Seaway, Part 1: Model Validation and Application to Global Early Cretaceous (Aptian) Tides. Journal of Sedimentary Research, 2010, 80, 393-410.	1.6	28
34	The occurrence and preservation of ammonites in the Blue Lias Formation (lower Jurassic) of Devon and Dorset, England and their palaeoecological, sedimentological and diagenetic significance. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 270, 258-272.	2.3	25
35	Coupling of palaeontological and neontological reef coral data improves forecasts of biodiversity responses under global climatic change. Royal Society Open Science, 2019, 6, 182111.	2.4	25
36	SEDIMENTOLOGY, TAPHONOMY, AND PALEOECOLOGY OF METER-SCALE CYCLES FROM THE UPPER ORDOVICIAN OF ONTARIO. Palaios, 2006, 21, 530-547.	1.3	24

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37	Methane seeps on an Early Jurassic dysoxic seafloor. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 270, 230-238.	2.3	22
38	Tidal circulation in an ancient epicontinental sea: The Early Jurassic Laurasian Seaway. Geology, 2011, 39, 207-210.	4.4	22
39	Exceptional Preservation Within Pleistocene Lacustrine Sediments of Shiobara, Japan. Palaios, 2008, 23, 260-266.	1.3	21
40	Biostratigraphy and environmental changes across the Cenomanianâ€“Turonian boundary, southern Mexico. Journal of South American Earth Sciences, 2001, 14, 237-255.	1.4	18
41	Controls on tidal sedimentation and preservation: Insights from numerical tidal modelling in the Late Oligoceneâ€“Miocene South China Sea, Southeast Asia. Sedimentology, 2018, 65, 2468-2505.	3.1	18
42	Tidal Modeling of an Ancient Tide-Dominated Seaway, Part 2: The Aptian Lower Greensand Seaway of Northwest Europe. Journal of Sedimentary Research, 2010, 80, 411-439.	1.6	17
43	Mixed Process, Humid-tropical, Shorelineâ€“shelf Deposition and Preservation: Middle Mioceneâ€“modern Baram Delta Province, Northwest Borneo. Journal of Sedimentary Research, 2018, 88, 399-430.	1.6	17
44	Not all aragonitic molluscs are missing: taphonomy and significance of a unique shelly lagerstÃtte from the Jurassic of SW Britain. Lethaia, 2015, 48, 540-548.	1.4	16
45	Marine Palaeoenvironmental Analysis from Fossils. Palaios, 1996, 11, 90.	1.3	15
46	Assessment of spurious mixing in adaptive mesh simulations of the two-dimensional lock-exchange. Ocean Modelling, 2014, 73, 30-44.	2.4	15
47	Burgess Shale biotas: burrowed away?. Lethaia, 1993, 26, 184-185.	1.4	14
48	Reconstructing the morphologies and hydrodynamics of ancient rivers from source to sink: Cretaceous Western Interior Basin, Utah, USA. Sedimentology, 2021, 68, 2854-2886.	3.1	14
49	Taphonomy: Bias and Process Through Time. Topics in Geobiology, 2010, , 1-17.	0.5	13
50	Exceptional fossil record: Distribution of soft-tissue preservation through the Phanerozoic: Comment and Reply. Geology, 1994, 22, 183.	4.4	12
51	Predicting sediment discharges and erosion rates in deep timeâ€"examples from the late Cretaceous North American continent. Basin Research, 2020, 32, 1547-1573.	2.7	12
52	Spatial sampling heterogeneity limits the detectability of deep time latitudinal biodiversity gradients. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202762.	2.6	12
53	An improved quantitative measure of the tendency for volcanic ash plumes to form in water: implications for the deposition of marine ash beds. Journal of Volcanology and Geothermal Research, 2015, 290, 114-124.	2.1	10
54	Numerical modelling of tsunami propagation with implications for sedimentation in ancient epicontinental seas: The Lower Jurassic Laurasian Seaway. Sedimentary Geology, 2010, 228, 81-97.	2.1	8

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55	The independent set perturbation adjoint method: A new method of differentiating meshâ€based fluids models. International Journal for Numerical Methods in Fluids, 2011, 66, 976-999.	1.6	8
56	Sedimentology and stratigraphic architecture of a Miocene retrogradational, tide-dominated delta system: Balingian Province, offshore Sarawak, Malaysia. Geological Society Special Publication, 2017, 444, 215-250.	1.3	7
57	Aragonite bias exhibits systematic spatial variation in the Late Cretaceous Western Interior Seaway, North America. Paleobiology, 2019, 45, 571-597.	2.0	7
58	Stratification and Oxygen Isotopes in the Paleozoic: Is Paleotermometry in Hot Water?. The Paleontological Society Papers, 1998, 4, 244-254.	0.6	6
59	Application of the adjoint approach to optimise the initial conditions of a turbidity current with the AdjointTurbidity 1.0 model. Geoscientific Model Development, 2017, 10, 1051-1068.	3.6	4
60	Prediction of shorelineâ€"shelf depositional process regime guided by palaeotidal modelling. Earth-Science Reviews, 2021, 223, 103827.	9.1	4
61	Comparative Taphonomy and Sedimentology of Small-Scale Mixed Carbonate/Siliciclastic Cycles: Synopsis of Phanerozoic Examples. Topics in Geobiology, 2010, , 107-198.	0.5	3
62	A new cephalopod with soft parts from the Upper Carboniferous Francis Creek Shale of Illinois, USA. Lethaia, 1987, 20, 117-121.	1.4	3
63	Taphonomy Has Come of Age!. Palaios, 1991, 6, 345.	1.3	2
64	Discussion on large sea, small tides: the Late Carboniferous seaway of NW Europe. Journal of the Geological Society, 2006, 163, 893-895.	2.1	1
65	Bioticâ€"sediment interactions. Palaeogeography, Palaeoclimatology, Palaeoecology, 2008, 270, 217-219.	2.3	0