# Michael J. Benton

## List of Publications by Citations



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|---|---|---|---|
| 532 papers | 19,267 citations | 71 h-index | 116 g-index |
| 641 ext. papers | 21,814 ext. citations | 7.9 avg, IF | 7.36 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 532 | Paleontological evidence to date the tree of life. *Molecular Biology and Evolution*, **2007**, 24, 26-53 | 8.3 | 674 |
| 531 | Diversification and extinction in the history of life. *Science*, **1995**, 268, 52-8 | 33.3 | 480 |
| 530 | The timing and pattern of biotic recovery following the end-Permian mass extinction. *Nature Geoscience*, **2012**, 5, 375-383 | 18.3 | 475 |
| 529 | Best practices for justifying fossil calibrations. *Systematic Biology*, **2012**, 61, 346-59 | 8.4 | 446 |
| 528 | How to kill (almost) all life: the end-Permian extinction event. *Trends in Ecology and Evolution*, **2003**, 18, 358-365 | 10.9 | 353 |
| 527 | The Red Queen and the Court Jester: species diversity and the role of biotic and abiotic factors through time. *Science*, **2009**, 323, 728-32 | 33.3 | 344 |
| 526 | Superiority, competition, and opportunism in the evolutionary radiation of dinosaurs. *Science*, **2008**, 321, 1485-8 | 33.3 | 304 |
| 525 | Rocks and clocks: calibrating the Tree of Life using fossils and molecules. *Trends in Ecology and Evolution*, **2007**, 22, 424-31 | 10.9 | 297 |
| 524 | Classification and phylogeny of the diapsid reptiles. *Zoological Journal of the Linnean Society*, **1985**, 84, 97-164 | 2.4 | 219 |
| 523 | Dinosaurs and the Cretaceous Terrestrial Revolution. *Proceedings of the Royal Society B: Biological Sciences*, **2008**, 275, 2483-90 | 4.4 | 218 |
| 522 | Ecosystem remodelling among vertebrates at the Permian-Triassic boundary in Russia. *Nature*, **2004**, 432, 97-100 | 50.4 | 214 |
| 521 | Phylogeny of the major tetrapod groups: morphological data and divergence dates. *Journal of Molecular Evolution*, **1990**, 30, 409-24 | 3.1 | 203 |
| 520 | Recovery from the most profound mass extinction of all time. *Proceedings of the Royal Society B: Biological Sciences*, **2008**, 275, 759-65 | 4.4 | 199 |
| 519 | Early Jurassic mass extinction: A global long-term event. *Geology*, **1995**, 23, 495 | 5 | 198 |
| 518 | Dating the tree of life. *Science*, **2003**, 300, 1698-700 | 33.3 | 197 |
| 517 | Fossilized melanosomes and the colour of Cretaceous dinosaurs and birds. *Nature*, **2010**, 463, 1075-8 | 50.4 | 188 |
| 516 | The origin and early radiation of dinosaurs. *Earth-Science Reviews*, **2010**, 101, 68-100 | 10.2 | 188 |

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|---|---|---|---|
| 515 | The higher-level phylogeny of Archosauria (Tetrapoda: Diapsida). *Journal of Systematic Palaeontology*, **2010**, 8, 3-47 | 2.3 | 173 |
| 514 | The evolution of large size: how does Cope's Rule work?. *Trends in Ecology and Evolution*, **2005**, 20, 4-6 | 10.9 | 170 |
| 513 | Early dinosaurs: A phylogenetic study. *Journal of Systematic Palaeontology*, **2006**, 4, 309-358 | 2.3 | 163 |
| 512 | Impacts of global warming on Permo-Triassic terrestrial ecosystems. *Gondwana Research*, **2014**, 25, 1308-1337 | 5.1 | 159 |
| 511 | A Jurassic ceratosaur from China helps clarify avian digital homologies. *Nature*, **2009**, 459, 940-4 | 50.4 | 158 |
| 510 | Scleromochlus taylori and the origin of dinosaurs and pterosaurs. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1999**, 354, 1423-1446 | 5.8 | 157 |
| 509 | Uncertain turtle relationships. *Nature*, **1997**, 387, 466-466 | 50.4 | 151 |
| 508 | Quality of the fossil record through time. *Nature*, **2000**, 403, 534-7 | 50.4 | 151 |
| 507 | Dinosaur Success in the Triassic: A Noncompetitive Ecological Model. *Quarterly Review of Biology*, **1983**, 58, 29-55 | 5.4 | 150 |
| 506 | Self-similarity of extinction statistics in the fossil record. *Nature*, **1997**, 388, 764-767 | 50.4 | 140 |
| 505 | HOW DID LIFE BECOME SO DIVERSE? THE DYNAMICS OF DIVERSIFICATION ACCORDING TO THE FOSSIL RECORD AND MOLECULAR PHYLOGENETICS. *Palaeontology*, **2007**, 50, 23-40 | 2.9 | 139 |
| 504 | PROGRESS AND COMPETITION IN MACROEVOLUTION. *Biological Reviews*, **1987**, 62, 305-338 | 13.5 | 139 |
| 503 | Criticality and scaling in evolutionary ecology. *Trends in Ecology and Evolution*, **1999**, 14, 156-160 | 10.9 | 133 |
| 502 | Complete biotic and sedimentary records of the Permian–Triassic transition from Meishan section, South China: Ecologically assessing mass extinction and its aftermath. *Earth-Science Reviews*, **2015**, 149, 67-107 | 10.2 | 115 |
| 501 | Testing the quality of the fossil record: Paleontological knowledge is improving. *Geology*, **1994**, 22, 111 | 5 | 112 |
| 500 | The origins of modern biodiversity on land. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2010**, 365, 3667-79 | 5.8 | 110 |
| 499 | Dinosaurs and the island rule: The dwarfed dinosaurs from Haţeg Island. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2010**, 293, 438-454 | 2.9 | 110 |
| 498 | Rainforest collapse triggered Carboniferous tetrapod diversification in Euramerica. *Geology*, **2010**, 38, 1079-1082 | 5 | 109 |

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| 497 | Anatomy and systematics of the prosauropod dinosaur Thecodontosaurus antiquus from the upper Triassic of southwest England. *Journal of Vertebrate Paleontology*, **2000**, 20, 77-108 | 1.7 | 109 |
| 496 | Lazarus taxa and fossil abundance at times of biotic crisis. *Journal of the Geological Society*, **1999**, 156, 453-456 | 2.7 | 108 |
| 495 | Fossil Reptiles of Great Britain **1995**, | | 108 |
| 494 | Speciation in the fossil record. *Trends in Ecology and Evolution*, **2001**, 16, 405-411 | 10.9 | 106 |
| 493 | Grit not grass: Concordant patterns of early origin of hypsodonty in Great Plains ungulates and Glires. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2012**, 365-366, 1-10 | 2.9 | 101 |
| 492 | Links between global taxonomic diversity, ecological diversity and the expansion of vertebrates on land. *Biology Letters*, **2010**, 6, 544-7 | 3.6 | 101 |
| 491 | Stems, nodes, crown clades, and rank-free lists: is Linnaeus dead?. *Biological Reviews*, **2000**, 75, 633-48 | 13.5 | 100 |
| 490 | The vertebrates of the Jurassic Daohugou Biota of northeastern China. *Journal of Vertebrate Paleontology*, **2014**, 34, 243-280 | 1.7 | 99 |
| 489 | The Triassic reptile Hyperodapedon from Elgin: functional morphology and relationships. *Philosophical Transactions of the Royal Society of London Series B, Biological Sciences*, **1983**, 302, 605-718 | | 98 |
| 488 | More than one event in the late Triassic mass extinction. *Nature*, **1986**, 321, 857-861 | 50.4 | 97 |
| 487 | The Luoping biota: exceptional preservation, and new evidence on the Triassic recovery from end-Permian mass extinction. *Proceedings of the Royal Society B: Biological Sciences*, **2011**, 278, 2274-82 | 4.4 | 96 |
| 486 | The first 50Myr of dinosaur evolution: macroevolutionary pattern and morphological disparity. *Biology Letters*, **2008**, 4, 733-6 | 3.6 | 95 |
| 485 | Interplay of tectonics and climate on a transverse fluvial system, Upper Permian, Southern Uralian Foreland Basin, Russia. *Sedimentary Geology*, **1999**, 127, 11-29 | 2.8 | 94 |
| 484 | Mass extinction among non-marine tetrapods. *Nature*, **1985**, 316, 811-814 | 50.4 | 93 |
| 483 | The Agenda Setting Function of the Mass Media At Three Levels of "Information Holding". *Communication Research*, **1976**, 3, 261-274 | 3.8 | 92 |
| 482 | Early origins of modern birds and mammals: molecules vs. morphology. *BioEssays*, **1999**, 21, 1043-51 | 4.1 | 91 |
| 481 | Exceptional vertebrate biotas from the Triassic of China, and the expansion of marine ecosystems after the Permo-Triassic mass extinction. *Earth-Science Reviews*, **2013**, 125, 199-243 | 10.2 | 90 |
| 480 | Dinosaurs and other fossil vertebrates from fluvial deposits in the Lower Cretaceous of southern Tunisia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2000**, 157, 227-246 | 2.9 | 89 |

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| 479 | A new feathered maniraptoran dinosaur fossil that fills a morphological gap in avian origin. *Science Bulletin*, **2009**, 54, 430-435 | 10.6 | 88 |
| 478 | Dinosaur evolution. A Jurassic ornithischian dinosaur from Siberia with both feathers and scales. *Science*, **2014**, 345, 451-5 | 33.3 | 87 |
| 477 | Resetting the evolution of marine reptiles at the Triassic-Jurassic boundary. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 8339-44 | 11.5 | 86 |
| 476 | A geochemical method to trace the taphonomic history of reworked bones in sedimentary settings. *Geology*, **1997**, 25, 263 | 5 | 86 |
| 475 | Characterization of pulmonary function in Duchenne Muscular Dystrophy. *Pediatric Pulmonology*, **2015**, 50, 487-94 | 3.5 | 85 |
| 474 | The quality of the fossil record of Mesozoic birds. *Proceedings of the Royal Society B: Biological Sciences*, **2005**, 272, 289-94 | 4.4 | 85 |
| 473 | Alzheimer-like neurotransmitter deficits in adult Down's syndrome brain tissue. *Journal of Neurology, Neurosurgery and Psychiatry*, **1987**, 50, 775-8 | 5.5 | 83 |
| 472 | Models for the rise of the dinosaurs. *Current Biology*, **2014**, 24, R87-R95 | 6.3 | 82 |
| 471 | Triassic environments, climates and reptile evolution. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **1982**, 40, 361-379 | 2.9 | 81 |
| 470 | A new Berriasian species ofGoniopholis(Mesoeucrocodylia, Neosuchia) from England, and a review of the genus. *Zoological Journal of the Linnean Society*, **2011**, 163, S66-S108 | 2.4 | 79 |
| 469 | The Pennsylvanian tropical biome reconstructed from the Joggins Formation of Nova Scotia, Canada. *Journal of the Geological Society*, **2006**, 163, 561-576 | 2.7 | 77 |
| 468 | Untangling the dinosaur family tree. *Nature*, **2017**, 551, E1-E3 | 50.4 | 76 |
| 467 | The radiation of cynodonts and the ground plan of mammalian morphological diversity. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20131865 | 4.4 | 76 |
| 466 | Catastrophic ocean acidification at the Triassic-Jurassic boundary. *Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen*, **2008**, 249, 119-127 | 1.1 | 76 |
| 465 | A Feathered Dinosaur Tail with Primitive Plumage Trapped in Mid-Cretaceous Amber. *Current Biology*, **2016**, 26, 3352-3360 | 6.3 | 76 |
| 464 | Macroevolutionary trends in the Dinosauria: Cope's rule. *Journal of Evolutionary Biology*, **2005**, 18, 587-95 | 2.3 | 75 |
| 463 | Biodiversity on land and in the sea. *Geological Journal*, **2001**, 36, 211-230 | 1.7 | 75 |
| 462 | Vertebrate Palaeontology **1997**, | | 74 |

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| 461 | The soft tissue of Jeholopterus (Pterosauria, Anurognathidae, Batrachognathinae) and the structure of the pterosaur wing membrane. *Proceedings of the Royal Society B: Biological Sciences*, **2010**, 277, 321-9 | 4.4 | 71 |
| 460 | Disruption of playa–lacustrine depositional systems at the Permo-Triassic boundary: evidence from Vyazniki and Gorokhovets on the Russian Platform. *Journal of the Geological Society*, **2010**, 167, 695-716 | 2.7 | 70 |
| 459 | Palaeoecology of the Late Triassic extinction event in the SW UK. *Journal of the Geological Society*, **2008**, 165, 319-332 | 2.7 | 70 |
| 458 | Does mutual sexual selection explain the evolution of head crests in pterosaurs and dinosaurs?. *Lethaia*, **2012**, 45, 139-156 | 1.3 | 67 |
| 457 | Acute reversible hypoxemia in systemic lupus erythematosus. *Annals of Internal Medicine*, **1991**, 114, 941-7 | 8 | 67 |
| 456 | A primitive confuciusornithid bird from China and its implications for early avian flight. *Science in China Series D: Earth Sciences*, **2008**, 51, 625-639 | | 66 |
| 455 | Ontogeny and the fossil record: what, if anything, is an adult dinosaur?. *Biology Letters*, **2016**, 12, 20150947 | 3.6 | 65 |
| 454 | Pelagosaurus typus Bronn, 1841 (Mesoeucrocodylia: Thalattosuchia) from the Upper Lias (Toarcian, Lower Jurassic) of Somerset, England. *Journal of Vertebrate Paleontology*, **2006**, 26, 621-635 | 1.7 | 65 |
| 453 | Decoupling of morphological disparity and taxic diversity during the adaptive radiation of anomodont therapsids. *Proceedings of the Royal Society B: Biological Sciences*, **2013**, 280, 20131071 | 4.4 | 64 |
| 452 | Permian-Triassic Osteichthyes (bony fishes): diversity dynamics and body size evolution. *Biological Reviews*, **2016**, 91, 106-47 | 13.5 | 63 |
| 451 | Sexual selection in prehistoric animals: detection and implications. *Trends in Ecology and Evolution*, **2013**, 28, 38-47 | 10.9 | 62 |
| 450 | Feeding behaviour and bone utilization by theropod dinosaurs. *Lethaia*, **2009**, 43, 232-244 | 1.3 | 62 |
| 449 | Dinosaurs in decline tens of millions of years before their final extinction. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 5036-40 | 11.5 | 62 |
| 448 | Mummified precocial bird wings in mid-Cretaceous Burmese amber. *Nature Communications*, **2016**, 7, 12089 | 17.4 | 61 |
| 447 | Dinosaur diversification linked with the Carnian Pluvial Episode. *Nature Communications*, **2018**, 9, 1499 | 17.4 | 60 |
| 446 | Models for the diversification of life. *Trends in Ecology and Evolution*, **1997**, 12, 490-5 | 10.9 | 60 |
| 445 | Congruence of morphological and molecular phylogenies. *Acta Biotheoretica*, **2007**, 55, 269-81 | 1.1 | 60 |
| 444 | A supertree of temnospondyli: cladogenetic patterns in the most species-rich group of early tetrapods. *Proceedings of the Royal Society B: Biological Sciences*, **2007**, 274, 3087-95 | 4.4 | 60 |

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| 443 | Post-Cambrian closure of the deep-water slope-basin taphonomic window. *Geology*, **2003**, 31, 769 | 5 | 60 |
| 442 | A genus-level supertree of the Dinosauria. *Proceedings of the Royal Society B: Biological Sciences*, **2002**, 269, 915-21 | 4.4 | 59 |
| 441 | Sea surface temperature contributes to marine crocodylomorph evolution. *Nature Communications*, **2014**, 5, 4658 | 17.4 | 58 |
| 440 | Assessing the quality of the fossil record: insights from vertebrates. *Geological Society Special Publication*, **2011**, 358, 63-94 | 1.7 | 58 |
| 439 | Dinosaurs and other fossil vertebrates from the Late Jurassic and Early Cretaceous of the Galve area, NE Spain. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2007**, 249, 180-215 | 2.9 | 58 |
| 438 | Early radiation of the Neoselachian sharks in Western Europe. *Geobios*, **1999**, 32, 193-204 | 1.5 | 55 |
| 437 | The Triassic reptiles Brachyrhinodon and Polysphenodon and the relationships of the sphenodontids. *Zoological Journal of the Linnean Society*, **1989**, 96, 413-445 | 2.4 | 55 |
| 436 | The first half of tetrapod evolution, sampling proxies, and fossil record quality. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2013**, 372, 18-41 | 2.9 | 54 |
| 435 | The species of Rhyncosaurus , a rhynchosaur (Reptilia, Diapsida) from the Middle Triassic of England. *Philosophical Transactions of the Royal Society of London Series B, Biological Sciences*, **1990**, 328, 213-306 | | 53 |
| 434 | What really happened in the late Triassic?. *Historical Biology*, **1991**, 5, 263-278 | 1.1 | 53 |
| 433 | Upper Permian vertebrates and their sedimentological context in the South Urals, Russia. *Earth-Science Reviews*, **2005**, 69, 27-77 | 10.2 | 52 |
| 432 | Missing data and rhynchosaur phylogeny. *Historical Biology*, **1995**, 10, 137-150 | 1.1 | 52 |
| 431 | Historical tests of the absolute completeness of the fossil record of tetrapods. *Paleobiology*, **1990**, 16, 322-335 | 2.6 | 52 |
| 430 | High rates of evolution preceded the origin of birds. *Evolution; International Journal of Organic Evolution*, **2014**, 68, 1497-510 | 3.8 | 51 |
| 429 | Body size evolution in Mesozoic birds. *Journal of Evolutionary Biology*, **2008**, 21, 618-24 | 2.3 | 51 |
| 428 | The remarkable fossils from the Early Cretaceous Jehol Biota of China and how they have changed our knowledge of Mesozoic life. *Proceedings of the Geologists Association*, **2008**, 119, 209-228 | 1.1 | 51 |
| 427 | Tetrapod localities from the Triassic of the SE of European Russia. *Earth-Science Reviews*, **2003**, 60, 1-66 | 10.2 | 51 |
| 426 | Geochemical taphonomy of shallow marine vertebrate assemblages. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2003**, 197, 151-169 | 2.9 | 49 |

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| 425 | Body size distribution of the dinosaurs. *PLoS ONE*, **2012**, 7, e51925 | 3.7 | 49 |
| 424 | Palaeobiogeographic relationships of the Ha□g biota □Between isolation and innovation. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2010**, 293, 419-437 | 2.9 | 48 |
| 423 | Macroevolutionary patterns in the evolutionary radiation of archosaurs (Tetrapoda: Diapsida). *Earth and Environmental Science Transactions of the Royal Society of Edinburgh*, **2010**, 101, 367-382 | 0.9 | 47 |
| 422 | The first definitive carcharodontosaurid (Dinosauria: Theropoda) from Asia and the delayed ascent of tyrannosaurids. *Die Naturwissenschaften*, **2009**, 96, 1051-8 | 2 | 47 |
| 421 | Palaeontological data and identifying mass extinctions. *Trends in Ecology and Evolution*, **1994**, 9, 181-5 | 10.9 | 46 |
| 420 | Trace fossils from Lower Palaeozoic ocean-floor sediments of the Southern Uplands of Scotland. *Transactions of the Royal Society of Edinburgh: Earth Sciences*, **1982**, 73, 67-87 | | 46 |
| 419 | CALIBRATED DIVERSITY, TREE TOPOLOGY AND THE MOTHER OF MASS EXTINCTIONS: THE LESSON OF TEMNOSPONDYLS. *Palaeontology*, **2008**, 51, 1261-1288 | 2.9 | 45 |
| 418 | Pedal claw curvature in birds, lizards and mesozoic dinosaurs--complicated categories and compensating for mass-specific and phylogenetic control. *PLoS ONE*, **2012**, 7, e50555 | 3.7 | 45 |
| 417 | Histology and postural change during the growth of the ceratopsian dinosaur Psittacosaurus lujiatunensis. *Nature Communications*, **2013**, 4, 2079 | 17.4 | 44 |
| 416 | The Fossil Record of Cretaceous Tetrapods. *Palaios*, **2000**, 15, 161-165 | 1.6 | 44 |
| 415 | A new, large tyrannosaurine theropod from the Upper Cretaceous of China. *Cretaceous Research*, **2011**, 32, 495-503 | 1.8 | 43 |
| 414 | Congruence between parsimony and stratigraphy: comparisons of three indices. *Paleobiology*, **1997**, 23, 20-32 | 2.6 | 43 |
| 413 | Assessing congruence between cladistic and stratigraphic data. *Systematic Biology*, **1999**, 48, 581-96 | 8.4 | 43 |
| 412 | No gap in the Middle Permian record of terrestrial vertebrates. *Geology*, **2012**, 40, 339-342 | 5 | 42 |
| 411 | Erpetosuchus, a crocodile-like basal archosaur from the Late Triassic of Elgin, Scotland. *Zoological Journal of the Linnean Society*, **2002**, 136, 25-47 | 2.4 | 42 |
| 410 | Aspects of the thermal ecology of the rusty crayfish Orconectes rusticus (Girard). *Oecologia*, **1990**, 82, 210-216 | 2.9 | 42 |
| 409 | Ecomorphological diversifications of Mesozoic marine reptiles: the roles of ecological opportunity and extinction. *Paleobiology*, **2016**, 42, 547-573 | 2.6 | 41 |
| 408 | Mass extinctions among tetrapods and the quality of the fossil record. *Philosophical Transactions of the Royal Society of London Series B, Biological Sciences*, **1989**, 325, 369-85; discussion 386 | | 41 |

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| 407 | MARINE REPTILES FROM THE UPPER LIAS (LOWER TOARCIAN, LOWER JURASSIC) OF THE YORKSHIRE COAST. *Proceedings of the Yorkshire Geological Society*, **1984**, 44, 399-429 | 0.8 | 41 |
| 406 | Hyperthermal-driven mass extinctions: killing models during the Permian-Triassic mass extinction. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2018**, 376, | 3 | 41 |
| 405 | Tetrapod postural shift estimated from Permian and Triassic trackways. *Palaeontology*, **2009**, 52, 1029-1037 | 2.9 | 40 |
| 404 | Palaeoenvironments of vertebrates on the southern shore of Tethys: The nonmarine Early Cretaceous of Tunisia. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2007**, 243, 118-131 | 2.9 | 40 |
| 403 | Testing the roles of competition and expansion in tetrapod evolution. *Proceedings of the Royal Society B: Biological Sciences*, **1996**, 263, 641-646 | 4.4 | 40 |
| 402 | Extinction and dawn of the modern world in the Carnian (Late Triassic). *Science Advances*, **2020**, 6, | 14.3 | 40 |
| 401 | Belowground rhizomes in paleosols: The hidden half of an Early Devonian vascular plant. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 9451-6 | 11.5 | 40 |
| 400 | The Fossil Calibration Database-A New Resource for Divergence Dating. *Systematic Biology*, **2015**, 64, 853-9 | 8.4 | 39 |
| 399 | The Extent of the Pterosaur Flight Membrane. *Acta Palaeontologica Polonica*, **2011**, 56, 99-111 | | 39 |
| 398 | Evolution of morphological disparity in pterosaurs. *Journal of Systematic Palaeontology*, **2011**, 9, 337-353 | 2.3 | 39 |
| 397 | Constraints on the timescale of animal evolutionary history. *Palaeontologia Electronica*, | 1.3 | 39 |
| 396 | Pterosaur integumentary structures with complex feather-like branching. *Nature Ecology and Evolution*, **2019**, 3, 24-30 | 12.3 | 39 |
| 395 | A monodactyl nonavian dinosaur and the complex evolution of the alvarezsauroid hand. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2338-42 | 11.5 | 38 |
| 394 | A NEW METRIORHYNCHID CROCODILIAN (MESOEUCROCODYLIA: THALATTOSUCHIA) FROM THE KIMMERIDGIAN (UPPER JURASSIC) OF WILTSHIRE, UK. *Palaeontology*, **2008**, 51, 1307-1333 | 2.9 | 38 |
| 393 | The basicranium of dicynodonts (Synapsida) and its use in phylogenetic analysis. *Palaeontology*, **2004**, 47, 619-638 | 2.9 | 38 |
| 392 | Use of the aquatic oligochaetes Lumbriculus variegatus and Tubifex tubifex for assessing the toxicity of copper and cadmium in a spiked-artificial-sediment toxicity test. *Environmental Toxicology*, **1999**, 14, 271-278 | 4.2 | 38 |
| 391 | A gigantic nothosaur (Reptilia: Sauropterygia) from the Middle Triassic of SW China and its implication for the Triassic biotic recovery. *Scientific Reports*, **2014**, 4, 7142 | 4.9 | 37 |
| 390 | Disentangling rock record bias and common-cause from redundancy in the British fossil record. *Nature Communications*, **2014**, 5, 4818 | 17.4 | 37 |

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| 389 | Biostratigraphic correlation and mass extinction during the Permian-Triassic transition in terrestrial-marine siliciclastic settings of South China. *Global and Planetary Change*, **2016**, 146, 67-88 | 4.2 | 37 |
| 388 | Exploring macroevolution using modern and fossil data. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282, | 4.4 | 36 |
| 387 | Magnetostratigraphy of Permian/Triassic boundary sequences in the Cis-Urals, Russia: No evidence for a major temporal hiatus. *Earth and Planetary Science Letters*, **2009**, 281, 36-47 | 5.3 | 36 |
| 386 | Lower Silurian distal shelf storm-induced turbidites in the Welsh Borders: sediments, tool marks and trace fossils. *Journal of the Geological Society*, **1981**, 138, 675-694 | 2.7 | 36 |
| 385 | Severe selenium depletion in the Phanerozoic oceans as a factor in three global mass extinction events. *Gondwana Research*, **2016**, 36, 209-218 | 5.1 | 35 |
| 384 | Early Triassic wrinkle structures on land: stressed environments and oases for life. *Scientific Reports* , **2015**, 5, 10109 | 4.9 | 35 |
| 383 | How to find a dinosaur, and the role of synonymy in biodiversity studies. *Paleobiology*, **2008**, 34, 516-533 | 2.6 | 35 |
| 382 | Ecology of earliest reptiles inferred from basal Pennsylvanian trackways. *Journal of the Geological Society*, **2007**, 164, 1113-1118 | 2.7 | 35 |
| 381 | Lilliput effect in freshwater ostracods during the Permian–Triassic extinction. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2015**, 435, 38-52 | 2.9 | 34 |
| 380 | The skull and endocranium of a Lower Jurassic ichthyosaur based on digital reconstructions. *Palaeontology*, **2015**, 58, 723-742 | 2.9 | 34 |
| 379 | Completeness of the fossil record and the validity of sampling proxies at outcrop level. *Palaeontology*, **2012**, 55, 1155-1175 | 2.9 | 34 |
| 378 | Testing the time axis of phylogenies. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1995**, 349, 5-10 | 5.8 | 34 |
| 377 | Testing the quality of the fossil record by groups and by major habitats. *Historical Biology*, **1996**, 12, 111-157 | 1.5 | 34 |
| 376 | Phylogenetically structured variance in felid bite force: the role of phylogeny in the evolution of biting performance. *Journal of Evolutionary Biology*, **2010**, 23, 463-78 | 2.3 | 33 |
| 375 | Studying function and behavior in the fossil record. *PLoS Biology*, **2010**, 8, e1000321 | 9.7 | 33 |
| 374 | An evaluation of the phylogenetic relationships of the pterosaurs among archosauromorph reptiles. *Journal of Systematic Palaeontology*, **2007**, 5, 465-469 | 2.3 | 33 |
| 373 | Testing the marine and continental fossil records. *Geology*, **1995**, 23, 601 | 5 | 33 |
| 372 | The extent of the preserved feathers on the four-winged dinosaur Microraptor gui under ultraviolet light. *PLoS ONE*, **2010**, 5, e9223 | 3.7 | 33 |

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| 371 | A Century of Spinosaurs - A Review and Revision of the Spinosauridae with Comments on Their Ecology. *Acta Geologica Sinica*, **2017**, 91, 1120-1132 | 0.7 | 32 |
| 370 | Lystrosaurus georgi, a dicynodont from the Lower Triassic of Russia. *Journal of Vertebrate Paleontology*, **2005**, 25, 402-413 | 1.7 | 32 |
| 369 | The fossil record of ichthyosaurs, completeness metrics and sampling biases. *Palaeontology*, **2015**, 58, 521-536 | 2.9 | 31 |
| 368 | New Information on Scavenging and Selective Feeding Behaviour of Tyrannosaurids. *Acta Palaeontologica Polonica*, **2010**, 55, 627-634 | | 31 |
| 367 | Congruence between phylogenetic and stratigraphic data on the history of life. *Proceedings of the Royal Society B: Biological Sciences*, **1997**, 264, 885-890 | 4.4 | 31 |
| 366 | Richard owen's giant Triassic frogs: archosaurs from the Middle Triassic of England. *Journal of Vertebrate Paleontology*, **1997**, 17, 74-88 | 1.7 | 31 |
| 365 | Sphenodontid phylogeny and the problems of multiple trees. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **1996**, 351, 1-16 | 5.8 | 31 |
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