

Ryosuke Motani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10599/publications.pdf>

Version: 2024-02-01

91
papers

2,997
citations

159525

30
h-index

206029

48
g-index

92
all docs

92
docs citations

92
times ranked

1401
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Phylogeny of the Ichthyopterygia. <i>Journal of Vertebrate Paleontology</i> , 1999, 19, 473-496. | 0.4 | 157 |
| 2 | Large eyeballs in diving ichthyosaurs. <i>Nature</i> , 1999, 402, 747-747. | 13.7 | 135 |
| 3 | Nocturnality in Dinosaurs Inferred from Scleral Ring and Orbit Morphology. <i>Science</i> , 2011, 332, 705-708. | 6.0 | 129 |
| 4 | EVOLUTION OF FISH-SHAPED REPTILES (REPTILIA: ICHTHYOPTERYGIA) IN THEIR PHYSICAL ENVIRONMENTS AND CONSTRAINTS. <i>Annual Review of Earth and Planetary Sciences</i> , 2005, 33, 395-420. | 4.6 | 120 |
| 5 | The Evolution of Marine Reptiles. <i>Evolution: Education and Outreach</i> , 2009, 2, 224-235. | 0.3 | 106 |
| 6 | A basal ichthyosauriform with a short snout from the Lower Triassic of China. <i>Nature</i> , 2015, 517, 485-488. | 13.7 | 97 |
| 7 | On the evolution and homologies of ichthyopterygian forefins. <i>Journal of Vertebrate Paleontology</i> , 1999, 19, 28-41. | 0.4 | 90 |
| 8 | Eel-like swimming in the earliest ichthyosaurs. <i>Nature</i> , 1996, 382, 347-348. | 13.7 | 88 |
| 9 | Scaling effects in caudal fin propulsion and the speed of ichthyosaurs. <i>Nature</i> , 2002, 415, 309-312. | 13.7 | 85 |
| 10 | PHYLOGENETIC VERSUS FUNCTIONAL SIGNALS IN THE EVOLUTION OF FORM-FUNCTION RELATIONSHIPS IN TERRESTRIAL VISION. <i>Evolution; International Journal of Organic Evolution</i> , 2011, 65, 2245-2257. | 1.1 | 80 |
| 11 | Ichthyosaurian relationships illuminated by new primitive skeletons from Japan. <i>Nature</i> , 1998, 393, 255-257. | 13.7 | 64 |
| 12 | Terrestrial Origin of Viviparity in Mesozoic Marine Reptiles Indicated by Early Triassic Embryonic Fossils. <i>PLoS ONE</i> , 2014, 9, e88640. | 1.1 | 63 |
| 13 | Morphological differences between the eyeballs of nocturnal and diurnal amniotes revisited from optical perspectives of visual environments. <i>Vision Research</i> , 2010, 50, 936-946. | 0.7 | 58 |
| 14 | Relationship between osteology and aquatic locomotion in birds: determining modes of locomotion in extinct Ornithurae. <i>Journal of Evolutionary Biology</i> , 2010, 23, 372-385. | 0.8 | 52 |
| 15 | Trophic convergence drives morphological convergence in marine tetrapods. <i>Biology Letters</i> , 2015, 11, 20140709. | 1.0 | 51 |
| 16 | Swimming speed estimation of extinct marine reptiles: energetic approach revisited. <i>Paleobiology</i> , 2002, 28, 251-262. | 1.3 | 48 |
| 17 | First record of Placodontoidea (Reptilia, Sauropterygia, Placodontia) from the Eastern Tethys. <i>Journal of Vertebrate Paleontology</i> , 2008, 28, 904-908. | 0.4 | 48 |
| 18 | Estimating body mass from silhouettes: testing the assumption of elliptical body cross-sections. <i>Paleobiology</i> , 2001, 27, 735-750. | 1.3 | 45 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | The Early Triassic eosauropterygian <i>Majiashanosaurus discocoracoidis</i> , gen. et sp. nov. (Reptilia, Tj ETQq1 1 0.784314 rgBT /Over Paleontology, 2014, 34, 1044-1052. | 0.4 | 45 |
| 20 | A new pachypleurosaur (Reptilia: Sauropterygia) from the lower Middle Triassic of southwestern China and the phylogenetic relationships of Chinese pachypleurosaur. Journal of Vertebrate Paleontology, 2011, 31, 292-302. | 0.4 | 44 |
| 21 | The Enigmatic Marine Reptile Nanchangosaurus from the Lower Triassic of Hubei, China and the Phylogenetic Affinities of Hupehsuchia. PLoS ONE, 2014, 9, e102361. | 1.1 | 44 |
| 22 | Selective extinction of Triassic marine reptiles during long-term sea-level changes illuminated by seawater strontium isotopes. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 400, 9-16. | 1.0 | 43 |
| 23 | Phylogeny of the Ichthyopterygia incorporating recent discoveries from South China. Journal of Vertebrate Paleontology, 2016, 36, e1025956. | 0.4 | 43 |
| 24 | A large aberrant stem ichthyosauriform indicating early rise and demise of ichthyosauromorphs in the wake of the end-Permian extinction. Scientific Reports, 2016, 6, 26232. | 1.6 | 42 |
| 25 | Rulers of the Jurassic Seas. Scientific American, 2000, 283, 52-59. | 1.0 | 41 |
| 26 | Absence of Suction Feeding Ichthyosaurs and Its Implications for Triassic Mesopelagic Paleoecology. PLoS ONE, 2013, 8, e66075. | 1.1 | 38 |
| 27 | Biodiversity and Sequence of the Middle Triassic Panxian Marine Reptile Fauna, Guizhou Province, China. Acta Geologica Sinica, 2009, 83, 451-459. | 0.8 | 37 |
| 28 | Taxonomy and limb ontogeny of <i>Chaohusaurus geishanensis</i> (Ichthyosauria), with a note on the allometric equation. Journal of Vertebrate Paleontology, 1998, 18, 533-540. | 0.4 | 34 |
| 29 | Redescription of the dentition of <i>Grippia longirostris</i> (Ichthyosauria) with a comparison with <i>Utatusaurus hataii</i> . Journal of Vertebrate Paleontology, 1997, 17, 39-44. | 0.4 | 33 |
| 30 | New technique for retrodeforming tectonically deformed fossils, with an example for ichthyosaurian specimens. Lethaia, 1997, 30, 221-228. | 0.6 | 32 |
| 31 | Warm-Blooded "Sea Dragons". Science, 2010, 328, 1361-1362. | 6.0 | 32 |
| 32 | Lunge feeding in early marine reptiles and fast evolution of marine tetrapod feeding guilds. Scientific Reports, 2015, 5, 8900. | 1.6 | 31 |
| 33 | A new Middle Triassic eosauropterygian (Reptilia, Sauropterygia) from southwestern China. Journal of Vertebrate Paleontology, 2008, 28, 1055-1062. | 0.4 | 30 |
| 34 | <i>Tanystropheus</i> cf. <i>T. longobardicus</i> from the early Late Triassic of Guizhou Province, southwestern China. Journal of Vertebrate Paleontology, 2010, 30, 1082-1089. | 0.4 | 30 |
| 35 | Temporal and Spatial Distribution of Tooth Implantations in Ichthyosaurs. , 1997, , 81-103. | | 30 |
| 36 | Horizons and assemblages of Middle Triassic marine reptiles from Panxian, Guizhou, China. Journal of Vertebrate Paleontology, 2008, 28, 900-903. | 0.4 | 28 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Ecophysiological steps of marine adaptation in extant and extinct non-avian tetrapods. <i>Biological Reviews</i> , 2021, 96, 1769-1798. | 4.7 | 28 |
| 38 | The skull and taxonomy of <i>Mixosaurus</i> (Ichthyopterygia). <i>Journal of Paleontology</i> , 1999, 73, 924-935. | 0.5 | 27 |
| 39 | Redescription of the dental features of an Early Triassic ichthyosaur, <i>Utatsusaurus hataii</i> . <i>Journal of Vertebrate Paleontology</i> , 1996, 16, 396-402. | 0.4 | 26 |
| 40 | A Carapace-Like Bony "Body Tube"™ in an Early Triassic Marine Reptile and the Onset of Marine Tetrapod Predation. <i>PLoS ONE</i> , 2014, 9, e94396. | 1.1 | 25 |
| 41 | Pre- versus post-mass extinction divergence of Mesozoic marine reptiles dictated by time-scale dependence of evolutionary rates. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20170241. | 1.2 | 25 |
| 42 | The forefin of <i>Chensaurus chaoxianensis</i> (Ichthyosauria) shows delayed mesopodial ossification. <i>Journal of Paleontology</i> , 1998, 72, 133-136. | 0.5 | 24 |
| 43 | New information on the protorosaurian reptile <i>Macrocnemus fuyuanensis</i> Li et al., 2007, from the Middle/Upper Triassic of Yunnan, China. <i>Journal of Vertebrate Paleontology</i> , 2011, 31, 1230-1237. | 0.4 | 23 |
| 44 | Eccentricity and obliquity paced carbon cycling in the Early Triassic and implications for post-extinction ecosystem recovery. <i>Scientific Reports</i> , 2016, 6, 27793. | 1.6 | 23 |
| 45 | Land to sea transitions in vertebrates: the dynamics of colonization. <i>Paleobiology</i> , 2018, 44, 237-250. | 1.3 | 22 |
| 46 | A reinterpretation of the Upper Triassic ichthyosaur <i>Shonisaurus</i> . <i>Journal of Vertebrate Paleontology</i> , 1999, 19, 42-49. | 0.4 | 21 |
| 47 | Is <i>Omphalosaurus</i> ichthyopterygian? A phylogenetic perspective. <i>Journal of Vertebrate Paleontology</i> , 2000, 20, 295-301. | 0.4 | 21 |
| 48 | A new specimen of <i>Nothosaurus youngi</i> from the Middle Triassic of Guizhou, China. <i>Journal of Vertebrate Paleontology</i> , 2014, 34, 465-470. | 0.4 | 21 |
| 49 | New information on the forefin of <i>Utatsusaurus hataii</i> (Ichthyosauria). <i>Journal of Paleontology</i> , 1997, 71, 475-479. | 0.5 | 20 |
| 50 | Skull of <i>Grippia longirostris</i> : no contradiction with a diapsid affinity for the Ichthyopterygia. <i>Palaeontology</i> , 2000, 43, 01-14. | 1.0 | 20 |
| 51 | New primitive ichthyosaurian (Reptilia, Diapsida) from the Middle Triassic of Panxian, Guizhou, southwestern China and its position in the Triassic biotic recovery. <i>Progress in Natural Science: Materials International</i> , 2008, 18, 1315-1319. | 1.8 | 20 |
| 52 | A Small Short-Necked Hupehsuchian from the Lower Triassic of Hubei Province, China. <i>PLoS ONE</i> , 2014, 9, e115244. | 1.1 | 20 |
| 53 | A new pistosauroid (Reptilia, Sauropterygia) from the late Ladinian Xingyi marine reptile level, southwestern China. <i>Journal of Vertebrate Paleontology</i> , 2015, 35, e881832. | 0.4 | 20 |
| 54 | THE MIXOSAURID ICHTHYOSAUR PHALARODON CF. P. FRAASI FROM THE MIDDLE TRIASSIC OF GUIZHOU PROVINCE, CHINA. <i>Journal of Paleontology</i> , 2007, 81, 602-605. | 0.5 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A new juvenile specimen of <i>Guanlingsaurus</i> (Ichthyosauria, Shastasauridae) from the Upper Triassic of southwestern China. <i>Journal of Vertebrate Paleontology</i> , 2013, 33, 340-348. | 0.4 | 19 |
| 56 | Detailed tooth morphology in a durophagous ichthyosaur captured by 3D laser scanner. <i>Journal of Vertebrate Paleontology</i> , 2005, 25, 462-465. | 0.4 | 18 |
| 57 | Evidence Supporting Predation of 4-m Marine Reptile by Triassic Megapredator. <i>IScience</i> , 2020, 23, 101347. | 1.9 | 17 |
| 58 | Functional morphology of vertebrate claws investigated using functionally based categories and multiple morphological metrics. <i>Journal of Morphology</i> , 2021, 282, 449-471. | 0.6 | 17 |
| 59 | True skull roof configuration of <i>Ichthyosaurus</i> and <i>Stenopterygius</i> and its implications. <i>Journal of Vertebrate Paleontology</i> , 2005, 25, 338-342. | 0.4 | 16 |
| 60 | Guanling Biota: A Marker of Triassic Biotic Recovery from the end-Permian Extinction in the Ancient Guizhou Sea. <i>Acta Geologica Sinica</i> , 2005, 79, 729-738. | 0.8 | 16 |
| 61 | Early Triassic marine reptile representing the oldest record of unusually small eyes in reptiles indicating non-visual prey detection. <i>Scientific Reports</i> , 2019, 9, 152. | 1.6 | 16 |
| 62 | Flipper bone distribution reveals flexible trailing edge in underwater flying marine tetrapods. <i>Journal of Morphology</i> , 2019, 280, 908-924. | 0.6 | 16 |
| 63 | <i>Panzhousaurus rotundirostris</i> Jiang et al., 2019 (Diapsida: Sauropterygia) and the recovery of the monophyly of Pachypleurosauridae. <i>Journal of Vertebrate Paleontology</i> , 2021, 41, . | 0.4 | 16 |
| 64 | The new ichthyosauriform <i>Chaohusaurus brevifemoralis</i> (Reptilia, Ichthyosauromorpha) from Majiashan, Chaohu, Anhui Province, China. <i>PeerJ</i> , 2019, 7, e7561. | 0.9 | 16 |
| 65 | How warm is too warm for the life cycle of actinopterygian fishes?. <i>Scientific Reports</i> , 2015, 5, 11597. | 1.6 | 15 |
| 66 | Separating sexual dimorphism from other morphological variation in a specimen complex of fossil marine reptiles (Reptilia, Ichthyosauriformes, <i>Chaohusaurus</i>). <i>Scientific Reports</i> , 2018, 8, 14978. | 1.6 | 15 |
| 67 | Status of <i>Chaohusaurus Chaoxianensis</i> (Chen, 1985). <i>Journal of Vertebrate Paleontology</i> , 2015, 35, e892011. | 0.4 | 14 |
| 68 | Middle Triassic Xingyi Fauna: Showing turnover of marine reptiles from coastal to oceanic environments. <i>Palaeoworld</i> , 2018, 27, 107-116. | 0.5 | 14 |
| 69 | The first specimen of the Middle Triassic <i>Pachypleurosaurus atavus</i> (Ichthyosauria: Pachypleurosauridae) from South China, showing postcranial anatomy and pterygian distribution. <i>Palaeontology</i> , 2013, 56, 849-866. | 1.0 | 13 |
| 70 | A New Specimen of Carroll's Mystery Hupehsuchian from the Lower Triassic of China. <i>PLoS ONE</i> , 2015, 10, e0126024. | 1.1 | 13 |
| 71 | Ammonoid age control of the Early Triassic marine reptiles from Chaohu (South China). <i>Palaeoworld</i> , 2015, 24, 277-282. | 0.5 | 13 |
| 72 | A new specimen of <i>Lariosaurus xingyiensis</i> (Reptilia, Sauropterygia) from the Ladinian (Middle Triassic) of South China. <i>Palaeoworld</i> , 2017, 37, e1278703. | 0.4 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | New species of Thylacocephala (Arthropoda) from the Spathian (Lower Triassic) of Chaohu, Anhui Province of China. <i>Palaontologische Zeitschrift</i> , 2017, 91, 171-184. | 0.8 | 13 |
| 74 | Allometry indicates giant eyes of giant squid are not exceptional. <i>BMC Evolutionary Biology</i> , 2013, 13, 45. | 3.2 | 12 |
| 75 | Adult sex ratio, sexual dimorphism and sexual selection in a Mesozoic reptile. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151658. | 1.2 | 12 |
| 76 | Repeated evolution of durophagy during ichthyosaur radiation after mass extinction indicated by hidden dentition. <i>Scientific Reports</i> , 2020, 10, 7798. | 1.6 | 12 |
| 77 | The cranial osteology revealed by three-dimensionally preserved skulls of the Early Triassic ichthyosauriform <i>Chaohusaurus chaoxianensis</i> (Reptilia: Ichthyosauromorpha) from Anhui, China. <i>Journal of Vertebrate Paleontology</i> , 2017, 37, e1343831. | 0.4 | 11 |
| 78 | A new Lower Triassic ichthyopterygian assemblage from Fossil Hill, Nevada. <i>PeerJ</i> , 2016, 4, e1626. | 0.9 | 11 |
| 79 | First evidence of centralia in Ichthyopterygia reiterating bias from paedomorphic characters on marine reptile phylogenetic reconstruction. <i>Journal of Vertebrate Paleontology</i> , 2015, 35, e948547. | 0.4 | 10 |
| 80 | Combining Uniformitarian and Historical Data to Interpret How Earth Environment Influenced the Evolution of Ichthyopterygia. <i>The Paleontological Society Papers</i> , 2008, 14, 147-164. | 0.8 | 9 |
| 81 | Response to Comment on "Nocturnality in Dinosaurs Inferred from Scleral Ring and Orbit Morphology". <i>Science</i> , 2011, 334, 1641-1641. | 6.0 | 9 |
| 82 | A new species of <i>Xinpusaurus</i> (Reptilia, Thalattosauria) from the Ladinian (Middle Triassic) of Xingyi, Guizhou, southwestern China. <i>Journal of Vertebrate Paleontology</i> , 2016, 36, e1218340. | 0.4 | 8 |
| 83 | A new Anisian (Middle Triassic) eosauropterygian (Reptilia, Sauropterygia) from Panzhou, Guizhou Province, China. <i>Journal of Vertebrate Paleontology</i> , 2018, 38, (1)-(9). | 0.4 | 7 |
| 84 | The oldest record of Saurosphargiformes (Diapsida) from South China could fill an ecological gap in the Early Triassic biotic recovery. <i>PeerJ</i> , 0, 10, e13569. | 0.9 | 5 |
| 85 | New Thylacocephala (Crustacea) assemblage from the Spathian (Lower Triassic) of Majiashan (Chaohu, Anhui Province of China). <i>Journal of Vertebrate Paleontology</i> , 2017, 37, e1343831. | 0.5 | 4 |
| 86 | New information on sexual dimorphism and allometric growth in <i>Keichousaurus hui</i> , a pachypleurosaur from the Middle Triassic of Guizhou, South China. <i>Acta Palaeontologica Polonica</i> , 0, , . | 0.4 | 4 |
| 87 | The sea as deathtrap: comment on a paper by miller and wiens. <i>Ecology Letters</i> , 2018, 21, 938-939. | 3.0 | 3 |
| 88 | Palaeobiology: Born and Gone in Global Warming. <i>Current Biology</i> , 2016, 26, R466-R468. | 1.8 | 2 |
| 89 | Sex estimation from morphology in living animals and dinosaurs. <i>Zoological Journal of the Linnean Society</i> , 2021, 192, 1029-1044. | 1.0 | 2 |
| 90 | A New Specimen of Thalattosauroida (Reptilia, Thalattosauriformes) from the Middle Triassic (Ladinian) of Xingyi, Southernwestern China. <i>Journal of Vertebrate Paleontology</i> , 0, , e1881965. | 0.4 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 91 | Potential enhanced ability of giant squid to detect sperm whales is an exaptation tied to their large body size. BMC Evolutionary Biology, 2013, 13, 226. | 3.2 | 0 |