Marcello Ruta

List of Publications by Year
in descending order

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73 papers	3,722 citations	126708 33 h-index	133063 59 g-index
76 all docs	76 docs citations	76 times ranked	2287 citing authors

#	Article	IF	Citations
1	A Mississippian (early Carboniferous) tetrapod showing early diversification of the hindlimbs. Communications Biology, 2022, 5, 283.	2.0	2
2	Molecular phylogenies map to biogeography better than morphological ones. Communications Biology, 2022, 5, .	2.0	10
3	Braincase and Inner Ear Anatomy of the Late Carboniferous Tetrapod Limnoscelis dynatis (Diadectomorpha) Revealed by High-Resolution X-ray Microcomputed Tomography. Frontiers in Ecology and Evolution, 2021, 9, .	1.1	3
4	Inner ear morphology of diadectomorphs and seymouriamorphs (Tetrapoda) uncovered by highâ€resolution xâ€ray microcomputed tomography, and the origin of the amniote crown group. Palaeontology, 2020, 63, 131-154.	1.0	17
5	Craniodental and Postcranial Characters of Non-Avian Dinosauria Often Imply Different Trees. Systematic Biology, 2020, 69, 638-659.	2.7	8
6	A review of the stem amniote Eldeceeon rolfei from the VisÃ©an of East Kirkton, Scotland. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2020, 111, 173-192.	0.3	4
7	Categorical versus geometric morphometric approaches to characterizing the evolution of morphological disparity in Osteostraci (Vertebrata, stem Gnathostomata). Palaeontology, 2020, 63, 717-732.	1.0	10
8	Geometric morphometrics for the study of facial expressions in non-human animals, using the domestic cat as an exemplar. Scientific Reports, 2019, 9, 9883.	1.6	40
9	Morphology of the earliest reconstructable tetrapod Parmastega aelidae. Nature, 2019, 574, 527-531.	13.7	18
10	Extreme and rapid bursts of functional adaptations shape bite force in amniotes. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20181932.	1.2	23
11	Acherontiscus caledoniae : the earliest heterodont and durophagous tetrapod. Royal Society Open Science, 2019, 6, 182087.	1.1	23
12	A new species ofVaranus(Anguimorpha: Varanidae) from the early Miocene of the Czech Republic, and its relationships and palaeoecology. Journal of Systematic Palaeontology, 2018, 16, 767-797.	0.6	22
13	Fossils, function and phylogeny: Papers on early vertebrate evolution in honour of Professor Jennifer A. Clack â€“ Introduction. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 1-14.	0.3	1
14	Evolutionary changes in the orbits and palatal openings of early tetrapods, with emphasis on temnospondyls. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 333-350.	0.3	2
15	The evolution of the tetrapod humerus: morphometrics, disparity, and evolutionary rates. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2018, 109, 351-369.	0.3	13
16	Phylogenetic and environmental context of a Tournaisian tetrapod fauna. Nature Ecology and Evolution, 2017, 1, 2.	3.4	69
17	Effects of phylogeny and locomotor style on the allometry of body mass and pelvic dimensions in birds. Journal of Anatomy, 2017, 231, 342-358.	0.9	16
18	Comparable disparity in the appendicular skeleton across the fishâ€“tetrapod transition, and the morphological gap between fish and tetrapod postcrania. Palaeontology, 2016, 59, 249-267.	1.0	21

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19	Breeding Young as a Survival Strategy during Earthâ€™s Greatest Mass Extinction. Scientific Reports, 2016, 6, 24053.	1.6	53
20	Fish and tetrapod communities across a marine to brackish salinity gradient in the Pennsylvanian (early Moscovian) Minto Formation of New Brunswick, Canada, and their palaeoecological and palaeogeographical implications. Palaeontology, 2016, 59, 689-724.	1.0	18
21	Phylogenetic Stability, Tree Shape, and Character Compatibility: A Case Study Using Early Tetrapods. Systematic Biology, 2016, 65, 737-758.	2.7	6
22	Elevated Extinction Rates as a Trigger for Diversification Rate Shifts: Early Amniotes as a Case Study. Scientific Reports, 2015, 5, 17104.	1.6	27
23	Mesozoic echinoid diversity in Portugal: Investigating fossil record quality and environmental constraints on a regional scale. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 424, 132-146.	1.0	3
24	Stepwise evolution of Paleozoic tracheophytes from South China: Contrasting leaf disparity and taxic diversity. Earth-Science Reviews, 2015, 148, 77-93.	4.0	25
25	Do cladistic and morphometric data capture common patterns of morphological disparity?. Palaeontology, 2015, 58, 393-399.	1.0	45
26	What defines an adaptive radiation? Macroevolutionary diversification dynamics of an exceptionally species-rich continental lizard radiation. BMC Evolutionary Biology, 2015, 15, 153.	3.2	71
27	Cranial anatomy, ontogeny, and relationships of the Late Carboniferous tetrapodGephyrostegus bohemicusJaekel, 1902. Journal of Vertebrate Paleontology, 2014, 34, 774-792.	0.4	23
28	Feeding biomechanics in Acanthostega and across the fishâ€“tetrapod transition. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20132689.	1.2	45
29	Egg shape changes at the theropodâ€“bird transition, and a morphometric study of amniote eggs. Royal Society Open Science, 2014, 1, 140311.	1.1	41
30	Evolution of parental incubation behaviour in dinosaurs cannot be inferred from clutch mass in birds. Biology Letters, 2013, 9, 20130036.	1.0	20
31	The first half of tetrapod evolution, sampling proxies, and fossil record quality. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 372, 18-41.	1.0	69
32	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.	1.2	73
33	Late to the Table: Diversification of Tetrapod Mandibular Biomechanics Lagged Behind the Evolution of Terrestriality. Integrative and Comparative Biology, 2013, 53, 197-208.	0.9	47
34	The radiation of cynodonts and the ground plan of mammalian morphological diversity. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20131865.	1.2	97
35	The disparity of priapulid, archaeopriapulid and palaeoscolecid worms in the light of new data. Journal of Evolutionary Biology, 2012, 25, 2056-2076.	0.8	68
36	The Roots of Amphibian Morphospace: A Geometric Morphometric Analysis of Paleozoic Temnospondyls. Fieldiana: Life and Earth Sciences, 2012, 5, 40-58.	1.0	13

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37	Convergence and Divergence in the Evolution of Cat Skulls: Temporal and Spatial Patterns of Morphological Diversity. PLoS ONE, 2012, 7, e39752.	1.1	57
38	Evolution of morphological disparity in pterosaurs. Journal of Systematic Palaeontology, 2011, 9, 337-353.	0.6	49
39	Amniotes through major biological crises: faunal turnover among Parareptiles and the endâ€Permian mass extinction. Palaeontology, 2011, 54, 1117-1137.	1.0	48
40	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, 8339-8344.	3.3	100
41	The evolution of Metriorhynchoidea (mesoeucrocodylia, thalattosuchia): an integrated approach using geometric morphometrics, analysis of disparity, and biomechanics. Zoological Journal of the Linnean Society, 2010, 158, 801-859.	1.0	183
42	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.	0.3	62
43	Morphological diversity and biogeography of procolophonids (Amniota: Parareptilia). Journal of Systematic Palaeontology, 2010, 8, 607-625.	0.6	34
44	The Fossil Record of Early Tetrapods: Worker Effort and the End-Permian Mass Extinction. Acta Palaeontologica Polonica, 2010, 55, 229-239.	0.4	17
45	Morphospace occupation of temnospondyl growth series: a geometric morphometric approach. Alcheringa, 2009, 33, 237-255.	0.5	21
46	Superiority, Competition, and Opportunism in the Evolutionary Radiation of Dinosaurs. Science, 2008, 321, 1485-1488.	6.0	361
47	CALIBRATED DIVERSITY, TREE TOPOLOGY AND THE MOTHER OF MASS EXTINCTIONS: THE LESSON OF TEMNOSPONDYLS. Palaeontology, 2008, 51, 1261-1288.	1.0	52
48	Ever Since Owen: Changing Perspectives on the Early Evolution of Tetrapods. Annual Review of Ecology, Evolution, and Systematics, 2008, 39, 571-592.	3.8	82
49	The first 50â€ŠMyr of dinosaur evolution: macroevolutionary pattern and morphological disparity. Biology Letters, 2008, 4, 733-736.	1.0	114
50	The BrachyopoidHadrokkosaurus bradyifrom the Early Middle Triassic of Arizona, and a Phylogenetic Analysis of Lower Jaw Characters in Temnospondyl Amphibians. Acta Palaeontologica Polonica, 2008, 53, 579-592.	0.4	14
51	Dinosaurs and the Cretaceous Terrestrial Revolution. Proceedings of the Royal Society B: Biological Sciences, 2008, 275, 2483-2490.	1.2	274
52	Dates, nodes and character conflict: Addressing the Lissamphibian origin problem. Journal of Systematic Palaeontology, 2007, 5, 69-122.	0.6	186
53	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, 3087-3095.	1.2	68
54	Using Patterns of Fin and Limb Phylogeny to Test Developmental-Evolutionary Scenarios. Novartis Foundation Symposium, 2007, 284, 245-261.	1.2	2

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55	A reassessment of the temnospondyl amphibian Perryella olsoni from the Lower Permian of Oklahoma. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2006, 97, 113-165.	1.0	26
56	GEOMETRIC MORPHOMETRICS OF THE SKULL ROOF OF STEREOSPONDYLS (AMPHIBIA: TEMNOSPONDYLI). Palaeontology, 2006, 49, 307-337.	1.0	46
57	Evolutionary patterns in early tetrapods. I. Rapid initial diversification followed by decrease in rates of character change. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2107-2111.	1.2	146
58	Evolutionary patterns in early tetrapods. II. Differing constraints on available character space among clades. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 2113-2118.	1.2	59
59	A review of Silvanerpeton miripedes, a stem amniote from the Lower Carboniferous of East Kirkton, West Lothian, Scotland. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2006, 97, 31-63.	1.0	35
60	The seymouriamorph tetrapod Ariekanerpeton sigalovi from the Lower Permian of Tadzhikistan. Part I: Cranial anatomy and ontogeny. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2005, 96, 43-70.	1.0	16
61	The seymouriamorph tetrapod Ariekanerpeton sigalovi from the Lower Permian of Tadzhikistan. Part II: Postcranial anatomy and relationships. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2005, 96, 71-93.	1.0	9
62	Early tetrapod relationships revisited. Biological Reviews, 2003, 78, 251-345.	4.7	246
63	The seymouriamorph tetrapod Utegenia shpinari from the ?Upper Carboniferousâ€“Lower Permian of Kazakhstan. Part II: Postcranial anatomy and relationships. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2003, 94, 75-93.	1.0	13
64	A supertree of early tetrapods. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2507-2516.	1.2	57
65	The seymouriamorph tetrapod Utegenia shpinari from the ?Upper Carboniferousâ€“Lower Permian of Kazakhstan. Part I: Cranial anatomy and ontogeny. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2003, 94, 45-74.	1.0	18
66	Fins to limbs: what the fossils say1. Evolution & Development, 2002, 4, 390-401.	1.1	113
67	The tetrapod Caerorhachis bairdi Holmes and Carroll from the Lower Carboniferous of Scotland. Transactions of the Royal Society of Edinburgh: Earth Sciences, 2001, 92, 229-261.	1.0	16
68	Early tetrapod evolution. Trends in Ecology and Evolution, 2000, 15, 327-328.	4.2	22
69	Nice snake, shame about the legs. Trends in Ecology and Evolution, 2000, 15, 503-507.	4.2	48
70	Brief review of the stylophoran debate. Evolution & Development, 1999, 1, 123-135.	1.1	32
71	A cladistic analysis of the anomalocystitid mitrates. Zoological Journal of the Linnean Society, 1999, 127, 345-421.	1.0	23
72	Redescription of the Australian mitrateVictoriacystiswith comments on its functional morphology. Alcheringa, 1997, 21, 81-101.	0.5	7

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73	First record of the mitrateBarrandeocarpus from England. Palaontologische Zeitschrift, 1997, 71, 97-105.	0.8	8