

Lionel Hautier

List of Publications by Year in descending order

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102
papers

2,491
citations

236925

25
h-index

243625

44
g-index

105
all docs

105
docs citations

105
times ranked

2153
citing authors

#	ARTICLE	IF	CITATIONS
1	A glimpse on the pattern of rodent diversification: a phylogenetic approach. BMC Evolutionary Biology, 2012, 12, 88.	3.2	390
2	Skeletal development in sloths and the evolution of mammalian vertebral patterning. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18903-18908.	7.1	113
3	Ancient Mitogenomes Reveal the Evolutionary History and Biogeography of Sloths. Current Biology, 2019, 29, 2031-2042.e6.	3.9	99
4	Patterns of covariation in the masticatory apparatus of hystricognathous rodents: Implications for evolution and diversification. Journal of Morphology, 2012, 273, 1319-1337.	1.2	95
5	Anthropoid <i>versus</i> strepsirhine status of the African Eocene primates <i>Algeripithecus</i> and <i>Azibius</i> : craniodental evidence. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 4087-4094.	2.6	93
6	High morphological variation of vestibular system accompanies slow and infrequent locomotion in three-toed sloths. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 3932-3939.	2.6	88
7	The phylogenetic affinities of the extinct glyptodonts. Current Biology, 2016, 26, R155-R156.	3.9	83
8	Variability and constraint in the mammalian vertebral column. Journal of Evolutionary Biology, 2011, 24, 1080-1090.	1.7	81
9	Hystricognathy vs Sciuromyrmecology in the Rodent Jaw: A New Morphometric Assessment of Hystricognathy Applied to the Living Fossil <i>Laonastes</i> (Diatomyidae). PLoS ONE, 2011, 6, e18698.	2.5	62
10	Oldest cingulate skulls provide congruence between morphological and molecular scenarios of armadillo evolution. Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 2791-2797.	2.6	55
11	Do Developmental Constraints and High Integration Limit the Evolution of the Marsupial Oral Apparatus?. Integrative and Comparative Biology, 2016, 56, 404-415.	2.0	49
12	Morphological diversity of the bony labyrinth (inner ear) in extant Xenarthrans and its relation to phylogeny. Journal of Mammalogy, 2015, 96, 658-672.	1.3	48
13	Life in Burrows Channelled the Morphological Evolution of the Skull in Rodents: the Case of African Mole-Rats (Bathyergidae, Rodentia). Journal of Mammalian Evolution, 2016, 23, 175-189.	1.8	47
14	Development and embryonic staging in non-model organisms: the case of an afrotherian mammal. Journal of Anatomy, 2013, 222, 2-18.	1.5	45
15	The inner ear of <i>Megatherium</i> and the evolution of the vestibular system in sloths. Journal of Anatomy, 2013, 223, 557-567.	1.5	40
16	Timing of cranial suture closure in placental mammals: Phylogenetic patterns, intraspecific variation, and comparison with marsupials. Journal of Morphology, 2014, 275, 125-140.	1.2	40
17	Zegdomyidae (Rodentia, Mammalia), stem anomaluroid rodents from the Early to Middle Eocene of Algeria (Gour Lazib, Western Sahara): new dental evidence. Journal of Systematic Palaeontology, 2011, 9, 563-588.	1.5	38
18	Skeletal ossification and sequence heterochrony in xenarthran evolution. Evolution & Development, 2011, 13, 460-476.	2.0	38

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19	Ecomorphological analysis of the astragalo-calcaneal complex in rodents and inferences of locomotor behaviours in extinct rodent species. PeerJ, 2016, 4, e2393.	2.0	34
20	Masticatory muscle architecture in a water rat from Australasia (Murinae, <i>Hydromys</i>) and its implication for the evolution of carnivory in rodents. Journal of Anatomy, 2017, 231, 380-397.	1.5	34
21	Mandible Morphometrics, Dental Microwear Pattern, and Paleobiology of the Extinct Balearic Dormouse <i>Hypnomys morpheus</i> . Acta Palaeontologica Polonica, 2009, 54, 181-194.	0.4	29
22	Masticatory muscle architecture in the Laotian rock rat <i>Laonastes aenigmamus</i> (Mammalia). Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.5	29
23	PATTERNS OF OSSIFICATION IN SOUTHERN VERSUS NORTHERN PLACENTAL MAMMALS. Evolution; International Journal of Organic Evolution, 2013, 67, 1994-2010.	2.3	29
24	The hidden teeth of sloths: evolutionary vestiges and the development of a simplified dentition. Scientific Reports, 2016, 6, 27763.	3.3	29
25	Evolution of the zygomaseteric construction in Rodentia, as revealed by a geometric morphometric analysis of the mandible of <i>Graphiurus</i> (Rodentia, Gliridae). Zoological Journal of the Linnean Society, 2008, 154, 807-821.	2.3	28
26	Patterns of Morphological Variation of Extant Sloth Skulls and their Implication for Future Conservation Efforts. Anatomical Record, 2014, 297, 979-1008.	1.4	27
27	Skull Size and Biomechanics are Good Estimators of <i>In Vivo</i> Bite Force in Murid Rodents. Anatomical Record, 2018, 301, 256-266.	1.4	27
28	Phylogeny, adaptation and mandible shape in Sciuridae (Rodentia, Mammalia). Mammalia, 2008, 72, .	0.7	26
29	First prorastomid sirenian from Senegal (Western Africa) and the Old World origin of sea cows. Journal of Vertebrate Paleontology, 2012, 32, 1218-1222.	1.0	25
30	A synopsis of rodent molecular phylogenetics, systematics and biogeography. , 2015, , 19-69.		25
31	Orientation of the lateral semicircular canal in Xenarthra and its links with head posture and phylogeny. Journal of Morphology, 2017, 278, 704-717.	1.2	24
32	Vertebral bending mechanics and xenarthrous morphology in the nine-banded armadillo (<i>Dasypus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.7	22
33	The oral apparatus of rodents: variations on the theme of a gnawing machine. , 2015, , 323-349.		21
34	The muscles of mastication in rodents and the function of the medial pterygoid. , 0, , 350-372.		20
35	Mandible shape and dwarfism in squirrels (Mammalia, Rodentia): interaction of allometry and adaptation. Die Naturwissenschaften, 2009, 96, 725-730.	1.6	19
36	Masticatory muscle architecture in the gundi <i>Ctenodactylus vali</i> (Mammalia, Rodentia). Mammalia, 2010, 74, 153-162.	0.7	19

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37	Grades and clades among rodents: the promise of geometric morphometrics. , 2015, , 277-299.		19
38	Body Shape and Life Style of the Extinct Balearic Dormouse <i>Hypnomys</i> (Rodentia, Gliridae): New Evidence from the Study of Associated Skeletons. PLoS ONE, 2010, 5, e15817.	2.5	19
39	New material of <i>Anancus kenyensis</i> (proboscidea, mammalia) from Toros-Menalla (Late Miocene, Chad): Contribution to the systematics of African anancines. Journal of African Earth Sciences, 2009, 53, 171-176.	2.0	18
40	The hidden anatomy of paranasal sinuses reveals biogeographically distinct morphotypes in the nine-banded armadillo (<i>Dasypus novemcinctus</i>). PeerJ, 2017, 5, e3593.	2.0	18
41	Skeletal development in the African elephant and ossification timing in placental mammals. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2188-2195.	2.6	17
42	Diversity and evolution of femoral variation in <i>Ctenohystrica</i> . , 0, , 510-538.		17
43	Phylogenetic and functional implications of the ear region anatomy of <i>Glossotherium robustum</i> (<i>Xenarthra</i> , <i>Myodontidae</i>) from the Late Pleistocene of Argentina. Die Naturwissenschaften, 2018, 105, 28.	1.6	17
44	Phylogeny and evolutionary history of hystricognathous rodents from the Old World during the Tertiary: new insights into the emergence of modern <i>œphiomorphâ€•families</i> . , 2015, , 87-138.		15
45	The history of South American octodontoid rodents and its contribution to evolutionary generalisations. , 2015, , 139-163.		15
46	Beyond the carapace: skull shape variation and morphological systematics of long-nosed armadillos (genus <i>Dasypus</i>). PeerJ, 2017, 5, e3650.	2.0	15
47	Body shape and life style of the extinct rodent <i>Canariomys bravoii</i> (Mammalia, Murinae) from Tenerife, Canary Islands (Spain). Comptes Rendus - Palevol, 2012, 11, 485-494.	0.2	14
48	Evolving Teeth Within a Stable Masticatory Apparatus in Orkney Mice. Evolutionary Biology, 2018, 45, 405-424.	1.1	14
49	Ossification sequence and genetic patterning in the mouse axial skeleton. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2014, 322, 631-642.	1.3	13
50	Back to the wild: does feralization affect the mandible of non-commensal house mice (<i>Mus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22	1.6	13
51	Evolutionary Tinkering of the Mandibular Canal Linked to Convergent Regression of Teeth in Placental Mammals. Current Biology, 2019, 29, 468-475.e3.	3.9	13
52	Functional morphology of rodent middle ears. , 2015, , 373-404.		12
53	The great variety of dental structures and dynamics in rodents: new insights into their ecological diversity. , 0, , 424-447.		12
54	Dental eruption and growth in Hyracoidea (Mammalia, Afrotheria). Journal of Vertebrate Paleontology, 2017, 37, e1317638.	1.0	12

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55	First record of the family Protocetidae in the Lutetian of Senegal (West Africa). <i>Palaeovertebrata</i> , 2014, 38, .	0.8	12
56	Variabilit� dentaire et cr�nienne de <i>Numidotherium koholense</i> (Mammalia, Proboscidea) de l�me du Sahara alg�rien. <i>Geobios</i> , 2008, 41, 515-531.	1.4	11
57	Morphological disparity of the postcranial skeleton in rodents and its implications for palaeobiological inferences: the case of the extinct <i>Theriodomyidae</i> (Rodentia, Mammalia). , 2015, , 539-588.		11
58	Developmental mechanisms in the evolution of phenotypic traits in rodent teeth. , 0, , 478-509.		11
59	Ontogenetic and static allometry in the skull and cranial units of nine-banded armadillos (Cingulata): Tj ETQq1 1 0.784314 rgBT /Over 673-698.	1.6	11
60	A Late Jurassic sauropod tracksite from Southern Jura (France). <i>Comptes Rendus - Palevol</i> , 2006, 5, 705-709.	0.2	10
61	BIOMECHANICAL CHANGES AND REMODELING OF THE MASTICATORY APPARATUS DURING MAMMALIAN EVOLUTION: THE CASE OF THE ISSIODOROMYINAE (RODENTIA). <i>Palaios</i> , 2010, 25, 6-13.	1.3	10
62	Comparative masticatory myology in anteaters and its implications for interpreting morphological convergence in myrmecophagous placentals. <i>PeerJ</i> , 2020, 8, e9690.	2.0	9
63	An Overview of Xenarthran Developmental Studies with a Focus on the Development of the Xenarthrous Vertebrae. <i>Journal of Mammalian Evolution</i> , 2018, 25, 507-523.	1.8	8
64	Morphometric models for estimating bite force in <i>Mus</i> and <i>Rattus</i> : mandible shape and size do better than lever-arm ratios. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	8
65	Decoupled ontogeny of in vivo bite force and mandible morphology reveals effects of weaning and sexual maturation in mice. <i>Biological Journal of the Linnean Society</i> , 2020, 129, 558-569.	1.6	8
66	Marmot evolution and global change in the past 10 million years. , 0, , 246-276.		7
67	Convergent evolution of molar topography in Muroidea (Rodentia, Mammalia): connections between chewing movements and crown morphology. , 2015, , 448-477.		6
68	One skull to rule them all? Descriptive and comparative anatomy of the masticatory apparatus in five mouse species. <i>Journal of Morphology</i> , 2018, 279, 1234-1255.	1.2	6
69	A dyrosaurid from the Paleocene of Senegal. <i>Journal of Paleontology</i> , 2019, 93, 343-358.	0.8	6
70	From limb to fin: an Eocene protocetid forelimb from Senegal sheds new light on the early locomotor evolution of cetaceans. <i>Palaeontology</i> , 2020, 63, 51-66.	2.2	6
71	Elasmobranchs from the upper Paleocene of Togo. <i>Geobios</i> , 2020, 58, 17-37.	1.4	6
72	Genetic structure in Orkney island mice: isolation promotes morphological diversification. <i>Heredity</i> , 2021, 126, 266-278.	2.6	6

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73	Evolution Towards Fossoriality and Morphological Convergence in the Skull of Spalacidae and Bathyergidae (Rodentia). <i>Journal of Mammalian Evolution</i> , 2021, 28, 979-993.	1.8	6
74	Flexible conservatism in the skull modularity of convergently evolved myrmecophagous placental mammals. <i>Bmc Ecology and Evolution</i> , 2022, 22, .	1.6	6
75	Emerging perspectives on some Paleogene sciurognath rodents in Laurasia: the fossil record and its interpretation. , 0, , 70-86.		5
76	Advances in integrative taxonomy and evolution of African murid rodents: how morphological trees hide the molecular forest. , 0, , 186-220.		5
77	The selachian fauna (sharks and rays) of the phosphate series of Ndendouri-Ouali Diala (Matam,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 503 Palaontologie - Abhandlungen, 2017, 283, 205-219.	0.4	5
78	Convergent Traits in Mammals Associated with Divergent Behaviors: the Case of the Continuous Dental Replacement in Rock-Wallabies and African Mole-Rats. <i>Journal of Mammalian Evolution</i> , 2017, 24, 261-274.	1.8	5
79	A fossil terrestrial fauna from Tobãne (Senegal) provides a unique early Pliocene window in western Africa. <i>Gondwana Research</i> , 2021, 99, 21-35.	6.0	4
80	Themes and variation in sciurid evolution. , 0, , 221-245.		3
81	Filling a gap in the proboscidean fossil record: a new genus from the Lutetian of Senegal. <i>Journal of Paleontology</i> , 2020, 94, 580-588.	0.8	3
82	First partial cranium of Togocetus from Kpogamã (Togo) and the protocetid diversity in the Togolese phosphate basin. <i>Annales De Paleontologie</i> , 2021, 107, 102488.	0.5	3
83	The new Algerian locality of Bir el Ater 3: validity of Libycosaurus algeriensis (Mammalia,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 503 3	0.8	3
84	Rodentia: a model order?. , 0, , 1-18.		2
85	Contribution to the reappraisal of the mid Paleogene ichthyofauna of Western Africa with three new enigmatical elasmobranchs from ThanetianãLutetian of Senegal. <i>Annales De Paleontologie</i> , 2020, 106, 102400.	0.5	2
86	The role and impact of Zootaxa in mammalogy in its first 20 years. <i>Zootaxa</i> , 2021, 4979, 7094.	0.5	2
87	3D fossil reconstruction related to the publication: Body shape and life style of the extinct rodent Canariomys bravoii from Tenerife, Canary Islands.. <i>MorphoMuseum</i> , 2015, 1, e3.	0.2	2
88	New Middle Eocene proboscidean from Togo illuminates the early evolution of the elephantiform-like dental pattern. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211439.	2.6	2
89	A pangolin (Manidae, Pholidota, Mammalia) from the French Quercy phosphorites (Pech du Fraysse,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 503 2	0.8	2
90	Size and shape regional differentiation during the development of the spine in the nineãbanded armadillo (<i>Dasypus novemcinctus</i>). <i>Evolution & Development</i> , 2021, 23, 496-512.	2.0	2

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91	Skull shape variation in extant pangolins (Pholidota: Manidae): allometric patterns and systematic implications. <i>Zoological Journal of the Linnean Society</i> , 0, , .	2.3	1
92	Developmental origins and homologies of the hyracoid dentition. <i>Evolution & Development</i> , 2020, 22, 323-335.	2.0	1
93	New data on the Dyrosauridae (Crocodylomorpha) from the Paleocene of Togo. <i>Annales De Paleontologie</i> , 2021, 107, 102472.	0.5	1
94	3D model related to the publication: A fossil terrestrial fauna from TobĀ'ne (Senegal) provides a unique early Pliocene window in western Africa. <i>MorphoMuseum</i> , 2021, 7, e102.	0.2	1
95	3D model related to the publication: From limb to fin: an Eocene protocetid forelimb from Senegal sheds new light on the early locomotor evolution of early cetaceans.. <i>MorphoMuseum</i> , 2019, 5, 4.	0.2	1
96	Patterns of Morphological Variation of Extant Sloth Skulls and their Implication for Future Conservation Efforts. <i>Anatomical Record</i> , 2014, 297, C1-C1.	1.4	0
97	3D model related to the publication: First record of the family Protocetidae in the Lutetian of Senegal (West Africa). <i>MorphoMuseum</i> , 2015, 1, e2.	0.2	0
98	3D model related to the publication: The inner ear of Megatherium and the evolution of the vestibular system in sloths.. <i>MorphoMuseum</i> , 2015, 1, e3.	0.2	0
99	3D model related to the publication: A pangolin (Manidae, Pholidota, Mammalia) from the French Quercy phosphorites (Pech du Fraysse, Saint-Projet, Tarn-et-Garonne, late Oligocene, MP 28). <i>MorphoMuseum</i> , 2015, 1, e1.	0.2	0
100	3D models related to the publication: The hidden teeth of sloths: evolutionary vestiges and the development of a simplified dentition.. <i>MorphoMuseum</i> , 2017, 2, e1.	0.2	0
101	3D models related to the publication: New middle Eocene proboscidean from Togo illuminates the early evolution of the elephantiform-like dental pattern.. <i>MorphoMuseum</i> , 2021, 7, e145.	0.2	0
102	Pleolobites (Decapoda: Brachyura) from the Paleogene of Africa revisited, with implications on taxonomy of fossil portunoid crabs. <i>Annales De Paleontologie</i> , 2022, 108, 102541.	0.5	0