

# Vivian De BuffrÃ©nil

## List of Publications by Year in descending order

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60  
papers

2,137  
citations

218677

26  
h-index

243625

44  
g-index

60  
all docs

60  
docs citations

60  
times ranked

1312  
citing authors

#	ARTICLE	IF	CITATIONS
1	On how the periosteal bone of the delphinid humerus becomes cancellous: Ontogeny of a histological specialization. <i>Journal of Morphology</i> , 1988, 198, 149-164.	1.2	181
2	HYDROSTASIS IN THE SIRENIA: QUANTITATIVE DATA and FUNCTIONAL INTERPRETATIONS. <i>Marine Mammal Science</i> , 1991, 7, 331-368.	1.8	108
3	Bone histology as a clue in the interpretation of functional adaptations in the <i>Thalattosuchia</i> (Reptilia, Crocodylia). <i>Journal of Vertebrate Paleontology</i> , 1996, 16, 703-717.	1.0	104
4	Locomotion in the Biology of Large Aquatic Vertebrates. <i>Transactions of the American Fisheries Society</i> , 1990, 119, 629-641.	1.4	103
5	Ontogenetic evolution of bone structure in Late Cretaceous Plesiosaurs from New Zealand. <i>Geobios</i> , 1995, 28, 625-640.	1.4	97
6	Bone histology of the ichthyosaurs: comparative data and functional interpretation. <i>Paleobiology</i> , 1990, 16, 435-447.	2.0	89
7	Age Estimation by Skeletochronology in the Nile Monitor ( <i>Varanus niloticus</i> ), a Highly Exploited Species. <i>Journal of Herpetology</i> , 2000, 34, 414.	0.5	82
8	Evolution of Sirenian Pachyosteosclerosis, a Model-case for the Study of Bone Structure in Aquatic Tetrapods. <i>Journal of Mammalian Evolution</i> , 2010, 17, 101-120.	1.8	80
9	Gradual adaptation of bone structure to aquatic lifestyle in extinct sloths from Peru. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140192.	2.6	78
10	Morphogenesis of bone ornamentation in extant and extinct crocodylians. <i>Zoomorphology</i> , 1982, 99, 155-166.	0.8	69
11	Relationships between bone growth rate, body mass and resting metabolic rate in growing amniotes: a phylogenetic approach. <i>Biological Journal of the Linnean Society</i> , 2007, 92, 63-76.	1.6	66
12	Microanatomy of the amniote femur and inference of lifestyle in limbed vertebrates. <i>Biological Journal of the Linnean Society</i> , 2013, 109, 644-655.	1.6	65
13	Vermiform bones and the evolution of gigantism in <i>Megalania</i> – How a reptilian fox became a lion. <i>Journal of Vertebrate Paleontology</i> , 2003, 23, 966-970.	1.0	49
14	Bone vascular supply in monitor lizards (Squamata: Varanidae): Influence of size, growth, and phylogeny. <i>Journal of Morphology</i> , 2008, 269, 533-543.	1.2	47
15	Inner architecture of vertebral centra in terrestrial and aquatic mammals: A two-dimensional comparative study. <i>Journal of Morphology</i> , 2013, 274, 570-584.	1.2	46
16	Données quantitatives et observations histologiques sur la pachyostose du squelette du dugong, <i>Dugong dugon</i> (Müller) (Sirenia, Dugongidae). <i>Canadian Journal of Zoology</i> , 1989, 67, 2107-2119.	1.0	45
17	Three-dimensional pelvis and limb anatomy of the Cenomanian hind-limbed snake <i>Eupodophis descouensi</i> (Squamata, Ophidia) revealed by synchrotron-radiation computed laminography. <i>Journal of Vertebrate Paleontology</i> , 2011, 31, 2-7.	1.0	43
18	Bone histology of <i>Claudiosaurus germaini</i> (Reptilia, Claudosauridae) and the problem of pachyostosis in aquatic tetrapods. <i>Historical Biology</i> , 1989, 2, 311-322.	1.4	42

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19	Histology and growth of the cetacean petro-tympanic bone complex. <i>Journal of Zoology</i> , 2004, 262, 371-381.	1.7	41
20	Vertebral microanatomy in squamates: structure, growth and ecological correlates. <i>Journal of Anatomy</i> , 2010, 217, 715-727.	1.5	38
21	Rostral densification in beaked whales: Diverse processes for a similar pattern. <i>Comptes Rendus - Palevol</i> , 2011, 10, 453-468.	0.2	36
22	An analysis of vertebral "pachyostosis" in <i>Carentonosaurus mineaui</i> (Mosasauroida, Squamata) from the Cenomanian (early Late Cretaceous) of France, with comments on its phylogenetic and functional significance. <i>Journal of Vertebrate Paleontology</i> , 2008, 28, 685-691.	1.0	33
23	Microanatomical diversity of amniote ribs: an exploratory quantitative study. <i>Biological Journal of the Linnean Society</i> , 2016, 118, 706-733.	1.6	31
24	Microstructural features of the femur in early ophiacodontids: A reappraisal of ancestral habitat use and lifestyle of amniotes. <i>Comptes Rendus - Palevol</i> , 2016, 15, 115-127.	0.2	29
25	Variation in Longevity, Growth, and Morphology in Exploited Nile Monitors ( <i>Varanus niloticus</i> ) from Sahelian Africa. <i>Journal of Herpetology</i> , 2002, 36, 419-426.	0.5	28
26	Comparative data on the differentiation and growth of bone ornamentation in gnathostomes (Chordata: Vertebrata). <i>Journal of Morphology</i> , 2016, 277, 634-670.	1.2	27
27	Specialization of bone structure in <i>Pachyvaranus crassispondylus</i> Arambourg, 1952, an aquatic squamate from the Late Cretaceous of the southern Tethyan margin. <i>Lethaia</i> , 2008, 41, 59-69.	1.4	26
28	An enamel-like tissue, osteodermine, on the osteoderms of a fossil anguid (Glyptosaurinae) lizard. <i>Comptes Rendus - Palevol</i> , 2011, 10, 427-437.	0.2	26
29	The Nile monitor ( <i>Varanus niloticus</i> ; Squamata: Varanidae) as a sentinel species for lead and cadmium contamination in sub-Saharan wetlands. <i>Science of the Total Environment</i> , 2011, 409, 4735-4745.	8.0	26
30	The histological structure of glyptosaurine osteoderms (Squamata: Anguinae), and the problem of osteoderm development in squamates. <i>Journal of Morphology</i> , 2010, 271, 729-737.	1.2	25
31	A quantitative assessment of bone area increase due to ornamentation in the Crocodylia. <i>Journal of Morphology</i> , 2015, 276, 1183-1192.	1.2	22
32	DonnÃ©es prÃ©liminaires sur la taille, la croissance et la longÃ©vitÃ© du varan du Nil ( <i>Varanus niloticus</i> ) dans la rÃ©gion du lac Tchad. <i>Canadian Journal of Zoology</i> , 1994, 72, 262-273.	1.0	21
33	Molecular data from contemporary and historical collections reveal a complex story of cryptic diversification in the <i>Varanus</i> ( <i>Polydaedalus</i> ) <i>niloticus</i> Species Group. <i>Molecular Phylogenetics and Evolution</i> , 2016, 94, 591-604.	2.7	21
34	Ontogenetic changes in bone compactness in male and female Nile monitors ( <i>Varanus niloticus</i> ). <i>Journal of Zoology</i> , 2001, 254, 539-546.	1.7	20
35	Macroevolution of genome size in sarcopterygians during the water-land transition. <i>Comptes Rendus - Palevol</i> , 2016, 15, 65-73.	0.2	20
36	Early genome size increase in urodeles. <i>Comptes Rendus - Palevol</i> , 2016, 15, 74-82.	0.2	20

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37	Bone histology of <i>Iberosuchus macrodon</i> (Sebecosuchia, Crocodylomorpha). <i>Lethaia</i> , 2017, 50, 495-503.	1.4	19
38	The post-mortem history of a bone revealed by its trace element signature: The case of a fossil whale rostrum. <i>Chemical Geology</i> , 2018, 477, 137-150.	3.3	19
39	Skeletal growth lines in an Eocene crocodylian skull from Wyoming as an indicator of ontogenic age and paleoclimatic conditions. <i>Journal of Vertebrate Paleontology</i> , 1981, 1, 57-65.	1.0	18
40	Comparative Data on Epiphyseal Development in the Family Varanidae. <i>Journal of Herpetology</i> , 2005, 39, 328-335.	0.5	16
41	Structure and Growth Pattern of Pseudoteeth in <i>Pelagornis mauretanicus</i> (Aves). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 582 T</i>	2.5	16
42	Female reproductive output in exploited Nile monitor lizard ( <i>Varanus niloticus</i> L.) populations in Sahelian Africa. <i>Canadian Journal of Zoology</i> , 1999, 77, 1530-1539.	1.0	15
43	Geometric and metabolic constraints on bone vascular supply in diapsids. <i>Biological Journal of the Linnean Society</i> , 2014, 112, 668-677.	1.6	15
44	Bone histology as a clue for resolving the puzzle of a dugong rib in the Pisco Formation, Peru. <i>Journal of Vertebrate Paleontology</i> , 2015, 35, e922981.	1.0	14
45	Rediscovery of Paul Gervais' paleohistological collection. <i>Geodiversitas</i> , 2009, 31, 943-971.	0.8	12
46	Nouvelles donnÃ©es sur la masse du squelette chez les grands cÃ©tacÃ©s (Mammalia, Cetacea). <i>Canadian Journal of Zoology</i> , 1993, 71, 828-834.	1.0	11
47	Fine-scale genetic analysis of the exploited Nile monitor ( <i>Varanus niloticus</i> ) in Sahelian Africa. <i>BMC Genetics</i> , 2015, 16, 32.	2.7	11
48	Histological study of karaurids, the oldest known (stem) urodeles. <i>Historical Biology</i> , 2015, 27, 109-114.	1.4	11
49	Histology and growth pattern of the pachy-osteosclerotic premaxillae of the fossil beaked whale <i>Aporotus recurvirostris</i> (Mammalia, Cetacea, Odontoceti). <i>Geobios</i> , 2011, 44, 45-56.	1.4	10
50	Bony pseudoteeth of extinct pelagic birds (Aves, Odontopterygiformes) formed through a response of bone cells to tooth-specific epithelial signals under unique conditions. <i>Scientific Reports</i> , 2018, 8, 12952.	3.3	10
51	The function(s) of bone ornamentation in the crocodylomorph osteoderms: a biomechanical model based on a finite element analysis. <i>Paleobiology</i> , 2019, 45, 182-200.	2.0	9
52	Body location and tail regeneration effects on osteoderms morphology-are they useful tools for systematic, paleontology, and skeletochronology in diploglossine lizards (squamata, anguinae)? <i>Journal of Morphology</i> , 2015, 276, 1333-1344.	1.2	8
53	Generalized Osteosclerotic Condition in the Skeleton of <i>Nanophoca vitulinoides</i> , a Dwarf Seal from the Miocene of Belgium. <i>Journal of Mammalian Evolution</i> , 2019, 26, 517-543.	1.8	7
54	Hypersalinity drives convergent bone mass increases in Miocene marine mammals from the Paratethys. <i>Current Biology</i> , 2022, 32, 248-255.e2.	3.9	7

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55	Assessing environmental contamination around obsolete pesticide stockpiles in West Africa: Using the Nile monitor ( <i>Varanus niloticus</i> ) as a sentinel species. <i>Environmental Toxicology and Chemistry</i> , 2012, 31, 387-394.	4.3	6
56	Quantitative data on bone vascular supply in lissamphibians: comparative and phylogenetic aspects. <i>Zoological Journal of the Linnean Society</i> , 2018, 182, 107-128.	2.3	6
57	Structure and growth pattern of the bizarre hemispheric prominence on the rostrum of the fossil beaked whale <i>Globiceetus hiberus</i> (Mammalia, Cetacea, Ziphiidae). <i>Journal of Morphology</i> , 2016, 277, 1292-1308.	1.2	5
58	Maturation g�nitale des varans du nil m�cles ( <i>Varanus niloticus</i> ) dans trois populations du Sahel. <i>Canadian Journal of Zoology</i> , 1999, 77, 222-232.	1.0	3
59	Experimental exposure of juvenile savannah monitors ( <i>Varanus exanthematicus</i> ) to an environmentally relevant mixture of three contaminants: effects and accumulation in tissues. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3107-3114.	5.3	3
60	Female reproductive output in exploited Nile monitor lizard ( <i>Varanus niloticus</i> L.) populations in Sahelian Africa. <i>Canadian Journal of Zoology</i> , 1999, 77, 1530-1539.	1.0	2