

# Kornelius Kupczik

## List of Publications by Year in descending order

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56  
papers

1,507  
citations

304368

22  
h-index

344852

36  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1501  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing mechanical function of the zygomatic region in macaques: validation and sensitivity testing of finite element models. <i>Journal of Anatomy</i> , 2007, 210, 41-53.	0.9	132
2	Mandibular molar root morphology in Neanderthals and Late Pleistocene and recent <i>Homo sapiens</i> . <i>Journal of Human Evolution</i> , 2010, 59, 525-541.	1.3	105
3	Comparative observations on the tooth root morphology of <i>Gigantopithecus blacki</i> . <i>Journal of Human Evolution</i> , 2008, 54, 196-204.	1.3	67
4	Predicting Skull Loading: Applying Multibody Dynamics Analysis to a Macaque Skull. <i>Anatomical Record</i> , 2008, 291, 491-501.	0.8	63
5	Brief communication: Contributions of enamel-dentine junction shape and enamel deposition to primate molar crown complexity. <i>American Journal of Physical Anthropology</i> , 2010, 142, 157-163.	2.1	63
6	Anterior tooth root morphology and size in Neanderthals: Taxonomic and functional implications. <i>Journal of Human Evolution</i> , 2013, 64, 169-193.	1.3	54
7	Dynamic Modelling of Tooth Deformation Using Occlusal Kinematics and Finite Element Analysis. <i>PLoS ONE</i> , 2016, 11, e0152663.	1.1	53
8	The mechanical function of the periodontal ligament in the macaque mandible: a validation and sensitivity study using finite element analysis. <i>Journal of Anatomy</i> , 2011, 218, 75-86.	0.9	49
9	Dust affects chewing efficiency and tooth wear in forest dwelling Western chimpanzees ( <i>Pan troglodytes</i> ). <i>PLoS ONE</i> , 2018, 13, e0194455.	2.1	45
10	Dental topography and the diet of <i>Homo naledi</i> . <i>Journal of Human Evolution</i> , 2018, 118, 14-26.	1.3	43
11	A dental perspective on the taxonomic affinity of the Balanica mandible (BH-1). <i>Journal of Human Evolution</i> , 2016, 93, 63-81.	1.3	41
12	Enamel thickness in Bornean and Sumatran orangutan dentitions. <i>American Journal of Physical Anthropology</i> , 2012, 147, 417-426.	2.1	40
13	Reconstruction of muscle fascicle architecture from iodine-enhanced microCT images: A combined texture mapping and streamline approach. <i>Journal of Theoretical Biology</i> , 2015, 382, 34-43.	0.8	40
14	Non-destructive determination of muscle architectural variables through the use of digital image CT. <i>Anatomical Record</i> , 2018, 301, 363-377.	0.8	38
15	Mandibular Bone Loss after Masticatory Muscles Intervention with Botulinum Toxin: An Approach from Basic Research to Clinical Findings. <i>Toxins</i> , 2019, 11, 84.	1.5	35
16	Mineral Deposits in <i>Ficus</i> Leaves: Morphologies and Locations in Relation to Function. <i>Plant Physiology</i> , 2018, 176, 1751-1763.	2.3	34
17	Virtual study of the endocranial morphology of the matrix-filled cranium from Eliye Springs, Kenya. <i>Journal of Human Evolution</i> , 2004, 46, 113-133.		33
18	Shaping the human face. <i>International Congress Series</i> , 2006, 1296, 55-73.	0.2	33

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19	Pathological alterations in the archaic <i>Homo sapiens</i> cranium from Eliye Springs, Kenya. <i>American Journal of Physical Anthropology</i> , 2003, 120, 200-204.	2.1	30
20	Ontogenetic changes to muscle architectural properties within the jaw adductor musculature of <i>Macaca fascicularis</i> . <i>American Journal of Physical Anthropology</i> , 2018, 167, 291-310.	2.1	30
21	Patterns of integration in the canine skull: an inside view into the relationship of the skull modules of domestic dogs and wolves. <i>Zoology</i> , 2017, 125, 1-9.	0.6	28
22	Muscle-Bone Crosstalk in the Masticatory System: From Biomechanical to Molecular Interactions. <i>Frontiers in Endocrinology</i> , 2020, 11, 606947.	1.5	28
23	Long anterior mandibular tooth roots in Neanderthals are not the result of their large jaws. <i>Journal of Human Evolution</i> , 2012, 63, 667-681.	1.3	27
24	Mandibular molar root and pulp cavity morphology in <i>Homo naledi</i> and other Plio-Pleistocene hominins. <i>Journal of Human Evolution</i> , 2019, 130, 83-95.	1.3	27
25	Effects of cropping, smoothing, triangle count, and mesh resolution on 6 dental topographic metrics. <i>PLoS ONE</i> , 2019, 14, e0216229.	1.1	26
26	Ambient occlusion and PCV (portion de ciel visible): A new dental topographic metric and proxy of morphological wear resistance. <i>PLoS ONE</i> , 2019, 14, e0215436.	1.1	24
27	Early molecular response and microanatomical changes in the masseter muscle and mandibular head after botulinum toxin intervention in adult mice. <i>Annals of Anatomy</i> , 2018, 216, 112-119.	1.0	23
28	The dental phenotype of hairless dogs with <i>FOXI3</i> haploinsufficiency. <i>Scientific Reports</i> , 2017, 7, 5459.	1.6	22
29	Masseter muscle atrophy impairs bone quality of the mandibular condyle but not the alveolar process early after induction. <i>Journal of Oral Rehabilitation</i> , 2019, 46, 233-241.	1.3	20
30	Congenital muscle dystrophy and diet consistency affect mouse skull shape differently. <i>Journal of Anatomy</i> , 2017, 231, 736-748.	0.9	19
31	Unexpected hard object feeding in Western lowland gorillas. <i>American Journal of Physical Anthropology</i> , 2019, 170, 433-438.	2.1	19
32	Tooth root morphology as an indicator for dietary specialization in carnivores (Mammalia). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td</i>	0.7	18
33	New primate remains from Mwenirondo, Chiwondo Beds in northern Malawi. <i>Journal of Human Evolution</i> , 2011, 61, 617-623.	1.3	17
34	Molar Crown and Root Size Relationship in Anthropoid Primates. <i>Frontiers of Oral Biology</i> , 2009, 13, 16-22.	1.5	15
35	Food mechanical properties and isotopic signatures in forest versus savannah dwelling eastern chimpanzees. <i>Communications Biology</i> , 2018, 1, 109.	2.0	14
36	A three-dimensional analysis of tooth-root morphology in living bears and implications for feeding behaviour in the extinct cave bear. <i>Historical Biology</i> , 2019, 31, 461-473.	0.7	13

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37	Structure-function relations of primate lower incisors: a study of the deformation of <i>Macaca mulatta</i> dentition using electronic speckle pattern interferometry (ESPI). <i>Journal of Anatomy</i> , 2011, 218, 87-95.	0.9	12
38	Can skull form predict the shape of the temporomandibular joint? A study using geometric morphometrics on the skulls of wolves and domestic dogs. <i>Annals of Anatomy</i> , 2017, 214, 53-62.	1.0	12
39	On the relationship between maxillary molar root shape and jaw kinematics in <i>Australopithecus africanus</i> and <i>Paranthropus robustus</i> . <i>Royal Society Open Science</i> , 2018, 5, 180825.	1.1	12
40	Ontogenetic Dietary Shifts and Microscopic Tooth Wear in Western Chimpanzees. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	1.1	12
41	Virtual biomechanics: basic concepts and technical aspects of finite element analysis in vertebrate morphology. <i>Journal of Anthropological Sciences</i> , 2008, 86, 193-8.	0.4	12
42	The Adaptive Significance of Enamel Loss in the Mandibular Incisors of Cercopithecine Primates (Mammalia: Cercopithecidae): A Finite Element Modelling Study. <i>PLoS ONE</i> , 2014, 9, e97677.	1.1	11
43	The Middle Pleistocene hominin mandible from Payre (Ardèche, France). <i>Journal of Human Evolution</i> , 2020, 144, 102775.	1.3	10
44	Tooth Root Morphology in the Early Pliocene African Bear <i>Agriotherium africanum</i> (Mammalia). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46</i> 20, 227-237.	1.0	8
45	Ontogeny of the human maxilla: a study of intra-population variability combining surface bone histology and geometric morphometrics. <i>Journal of Anatomy</i> , 2019, 235, 233-245.	0.9	8
46	Elevated activity levels do not influence extrinsic fiber attachment morphology on the surface of muscle attachment sites. <i>Journal of Anatomy</i> , 2020, 236, 827-839.	0.9	8
47	Movement analysis of primate molar teeth under load using synchrotron X-ray microtomography. <i>Journal of Structural Biology</i> , 2021, 213, 107658.	1.3	7
48	Dental wear patterns reveal dietary ecology and season of death in a historical chimpanzee population. <i>PLoS ONE</i> , 2021, 16, e0251309.	1.1	6
49	Reply to Scott et al: A closer look at the 3-rooted lower second molar of an archaic human from Xiahe. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 39-40.	3.3	5
50	Molar biomechanical function in South African hominins <i>Australopithecus africanus</i> and <i>Paranthropus robustus</i> . <i>Interface Focus</i> , 2021, 11, 20200085.	1.5	5
51	Intraspecific variability in human maxillary bone modeling patterns during ontogeny. <i>American Journal of Physical Anthropology</i> , 2020, 173, 655-670.	2.1	3
52	The effect of high wear diets on the relative pulp volume of the lower molars. <i>American Journal of Physical Anthropology</i> , 2021, 174, 804-811.	2.1	3
53	The representativeness of the dental calculus dietary record: insights from Tañ chimpanzee faecal phytoliths. <i>Archaeological and Anthropological Sciences</i> , 2021, 13, 1.	0.7	3
54	Quantifying maxillary development in chimpanzees and humans: An analysis of prognathism and orthognathism at the morphological and microscopic scales. <i>Journal of Human Evolution</i> , 2021, 157, 103031.	1.3	0

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55	Primate body mass and dietary correlates of tooth root surface area. American Journal of Biological Anthropology, 0, , .	0.6	0
56	Botulinum toxin injection in masseter muscle evokes musculoskeletal impairment of the masticatory system. FASEB Journal, 2022, 36, .	0.2	0