

# Flora Grünig

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6284686/publications.pdf>

Version: 2024-02-01

25  
papers

1,128  
citations

516710

16  
h-index

642732

23  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1379  
citing authors

#	ARTICLE	IF	CITATIONS
1	The earliest evidence for anatomically modern humans in northwestern Europe. <i>Nature</i> , 2011, 479, 521-524.	27.8	285
2	Combining geometric morphometrics and functional simulation: an emerging toolkit for virtual functional analyses. <i>Journal of Anatomy</i> , 2011, 218, 3-15.	1.5	95
3	The effects of the periodontal ligament on mandibular stiffness: a study combining finite element analysis and geometric morphometrics. <i>Journal of Biomechanics</i> , 2011, 44, 1304-1312.	2.1	89
4	The Biomechanical Function of Periodontal Ligament Fibres in Orthodontic Tooth Movement. <i>PLoS ONE</i> , 2014, 9, e102387.	2.5	67
5	The importance of accurate muscle modelling for biomechanical analyses: a case study with a lizard skull. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130216.	3.4	66
6	Validating a voxel-based finite element model of a human mandible using digital speckle pattern interferometry. <i>Journal of Biomechanics</i> , 2009, 42, 1224-1229.	2.1	61
7	Modeling the Human Mandible Under Masticatory Loads: Which Input Variables are Important?. <i>Anatomical Record</i> , 2012, 295, 853-863.	1.4	61
8	Why do humans have chins? Testing the mechanical significance of modern human symphyseal morphology with finite element analysis. <i>American Journal of Physical Anthropology</i> , 2011, 144, 593-606.	2.1	53
9	Inclusion of periodontal ligament fibres in mandibular finite element models leads to an increase in alveolar bone strains. <i>PLoS ONE</i> , 2017, 12, e0188707.	2.5	42
10	Masticatory biomechanics in the rabbit: a multi-body dynamics analysis. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140564.	3.4	36
11	Virtual study of the endocranial morphology of the matrix-filled cranium from Eliye Springs, Kenya. , 2004, 276A, 113-133.		33
12	Strain accommodation in the zygomatic arch of the pig: A validation study using digital speckle pattern interferometry and finite element analysis. <i>Journal of Morphology</i> , 2011, 272, 1388-1398.	1.2	30
13	Comparing the Distribution of Strains with the Distribution of Bone Tissue in a Human Mandible: A Finite Element Study. <i>Anatomical Record</i> , 2013, 296, 9-18.	1.4	28
14	Virtual Functional Morphology: Novel Approaches to the Study of Craniofacial Form and Function. <i>Evolutionary Biology</i> , 2012, 39, 521-535.	1.1	27
15	The biomechanical role of the chondrocranium and sutures in a lizard cranium. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170637.	3.4	24
16	Improving the validation of finite element models with quantitative full-field strain comparisons. <i>Journal of Biomechanics</i> , 2012, 45, 1498-1506.	2.1	23
17	Comment on "The effects of modelling simplifications on craniofacial finite element models: The alveoli (tooth sockets) and periodontal ligaments" (volume 44, issue 10, pages 1831-1838). <i>Journal of Biomechanics</i> , 2012, 45, 1749-1750.	2.1	19
18	Mechanical adaptation of trabecular bone morphology in the mammalian mandible. <i>Scientific Reports</i> , 2018, 8, 7277.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Effect of marker position and size on the registration accuracy of HoloLens in a non-clinical setting with implications for high-precision surgical tasks. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 955-966.	2.8	16
20	Application of Photogrammetry in Biomedical Science. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1120, 121-130.	1.6	15
21	Image Overlay Surgery Based on Augmented Reality: A Systematic Review. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1260, 175-195.	1.6	14
22	Comparative cranial biomechanics in two lizard species: impact of variation in cranial design. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	14
23	An assessment of the role of the falx cerebri and tentorium cerebelli in the cranium of the cat () Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.4	7
24	Computational biomechanical modelling of the rabbit cranium during mastication. <i>Scientific Reports</i> , 2021, 11, 13196.	3.3	6
25	Comparing the Distribution of Strains with the Distribution of Bone Tissue in a Human Mandible: A Finite Element Study. <i>Anatomical Record</i> , 2013, 296, C1-C1.	1.4	0