

Sophie Le Cann

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

238
citations

1162889

8
h-index

1058333

14
g-index

15
all docs

15
docs citations

15
times ranked

339
citing authors

#	ARTICLE	IF	CITATIONS
1	Fracture behavior of a composite of bone and calcium sulfate/hydroxyapatite. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 130, 105201.	1.5	4
2	Muscular loading affects the 3D structure of both the mineralized rudiment and growth plate at early stages of bone formation. Bone, 2021, 145, 115849.	1.4	8
3	Neutron microtomography to investigate the bone-implant interfaceâ€™ comparison with histological analysis. Physics in Medicine and Biology, 2021, 66, 105006.	1.6	8
4	Dual modality neutron and x-ray tomography for enhanced image analysis of the bone-metal interface. Physics in Medicine and Biology, 2021, 66, 135016.	1.6	9
5	Multiscale Characterization of Embryonic Long Bone Mineralization in Mice. Advanced Science, 2020, 7, 2002524.	5.6	8
6	Multimodal characterization of the bone-implant interface using Raman spectroscopy and nanoindentation. Medical Engineering and Physics, 2020, 84, 60-67.	0.8	13
7	Spatio-temporal evolution of hydroxyapatite crystal thickness at the bone-implant interface. Acta Biomaterialia, 2020, 116, 391-399.	4.1	8
8	Bone Damage Evolution Around Integrated Metal Screws Using X-Ray Tomography â€™ in situ Pullout and Digital Volume Correlation. Frontiers in Bioengineering and Biotechnology, 2020, 8, 934.	2.0	16
9	Sub-trabecular strain evolution in human trabecular bone. Scientific Reports, 2020, 10, 13788.	1.6	27
10	Multimodal Evaluation of the Spatiotemporal Variations of Periprosthetic Bone Properties. Journal of Biomechanical Engineering, 2020, 142, .	0.6	8
11	Investigating the Mechanical Characteristics of Bone-Metal Implant Interface Using in situ Synchrotron Tomographic Imaging. Frontiers in Bioengineering and Biotechnology, 2018, 6, 208.	2.0	20
12	Neutron tomographic imaging of bone-implant interface: Comparison with X-ray tomography. Bone, 2017, 103, 295-301.	1.4	29
13	Characterization of the bone-metal implant interface by Digital Volume Correlation of in-situ loading using neutron tomography. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 75, 271-278.	1.5	41
14	High-throughput analysis of the structural evolution of the monoolein cubic phase in situ under crystallogenesis conditions. Soft Matter, 2012, 8, 2310.	1.2	35
15	The Hydration State of Bone Tissue Affects Contrast in Neutron Tomographic Images. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	4