

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