

Xuanhao Sun

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

714
citations

759233

12
h-index

1058476

14
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20
all docs

20
docs citations

20
times ranked

1334
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated E-Tube cap for sample preparation, isothermal amplification and label-free electrochemical detection of DNA. <i>Biosensors and Bioelectronics</i> , 2021, 186, 113306.	10.1	12
2	Mechanical stress compromises multicomponent efflux complexes in bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25462-25467.	7.1	18
3	Elevated solute transport at sites of diffuse matrix damage in cortical bone: Implications on bone repair. <i>Journal of Orthopaedic Research</i> , 2018, 36, 692-698.	2.3	6
4	Large-scale polymeric carbon nanotube membranes with sub-1.27-nm pores. <i>Science Advances</i> , 2018, 4, e1700938.	10.3	46
5	Seeing is believing, PLGA microsphere degradation revealed in PLGA microsphere/PVA hydrogel composites. <i>Journal of Controlled Release</i> , 2016, 228, 170-178.	9.9	81
6	A microfluidic platform for profiling biomechanical properties of bacteria. <i>Lab on A Chip</i> , 2014, 14, 2491-2498.	6.0	27
7	Novel mechanical bioreactor for concomitant fluid shear stress and substrate strain. <i>Journal of Biomechanics</i> , 2012, 45, 1323-1327.	2.1	13
8	Mechanical Stretch Induced Calcium Efflux from Bone Matrix Stimulates Osteoblasts. <i>Bone</i> , 2012, 50, 581-591.	2.9	37
9	Osteoblasts detect pericellular calcium concentration increase via neomycin-sensitive voltage gated calcium channels. <i>Bone</i> , 2012, 51, 860-867.	2.9	16
10	Tenogenic differentiation of human MSCs induced by the topography of electrochemically aligned collagen threads. <i>Biomaterials</i> , 2012, 33, 2137-2144.	11.4	188
11	Probing Pre-failure Molecular Deformation in Cortical Bone with Fluorescent Dyes. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011, , 333-337.	0.5	0
12	High Local Deformation Correlates with Optical Property Change in Cortical Bone. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2011, , 327-331.	0.5	0
13	Calcium Efflux From Bone Matrix in Response to Mechanical Loading. , 2011, , .		0
14	Mechanically Induced Calcium Release From Bone Matrix Triggers Intracellular Ca ²⁺ Signalling in Osteoblasts: A Novel Mechanotransduction Mechanism. , 2011, , .		0
15	Visualization of a phantom post-yield deformation process in cortical bone. <i>Journal of Biomechanics</i> , 2010, 43, 1989-1996.	2.1	40
16	Spectroscopic visualization of nanoscale deformation in bone: interaction of light with partially disordered nanostructure. <i>Journal of Biomedical Optics</i> , 2010, 15, 060503.	2.6	16
17	Detection of nanoscale structural changes in bone using random lasers. <i>Biomedical Optics Express</i> , 2010, 1, 1401.	2.9	51
18	Random lasing in bone tissue. <i>Optics Letters</i> , 2010, 35, 1425.	3.3	163