

Davide Ruffoni

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

968
citations

17
h-index

31
g-index

34
ext. papers

1,147
ext. citations

4.6
avg, IF

4.21
L-index

#	Paper	IF	Citations
33	The bone mineralization density distribution as a fingerprint of the mineralization process. <i>Bone</i> , 2007 , 40, 1308-19	4.7	167
32	Local mechanical stimuli regulate bone formation and resorption in mice at the tissue level. <i>PLoS ONE</i> , 2013 , 8, e62172	3.7	141
31	Osteocyte-derived insulin-like growth factor I is essential for determining bone mechanosensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2013 , 305, E271-81	6	66
30	Strain-adaptive in silico modeling of bone adaptation--a computer simulation validated by in vivo micro-computed tomography data. <i>Bone</i> , 2013 , 52, 485-92	4.7	59
29	Effect of temporal changes in bone turnover on the bone mineralization density distribution: a computer simulation study. <i>Journal of Bone and Mineral Research</i> , 2008 , 23, 1905-14	6.3	59
28	Trabecular bone adapts to long-term cyclic loading by increasing stiffness and normalization of dynamic morphometric rates. <i>Bone</i> , 2013 , 55, 325-34	4.7	38
27	Micro-computed tomography based computational fluid dynamics for the determination of shear stresses in scaffolds within a perfusion bioreactor. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 1085-94	4.7	37
26	In vivo monitoring of bone architecture and remodeling after implant insertion: The different responses of cortical and trabecular bone. <i>Bone</i> , 2015 , 81, 468-477	4.7	35
25	The different contributions of cortical and trabecular bone to implant anchorage in a human vertebra. <i>Bone</i> , 2012 , 50, 733-8	4.7	35
24	Mineralization kinetics in murine trabecular bone quantified by time-lapsed in vivo micro-computed tomography. <i>Bone</i> , 2013 , 56, 55-60	4.7	34
23	Wood-Inspired 3D-Printed Helical Composites with Tunable and Enhanced Mechanical Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1805888	15.6	30
22	Mechanics of bioinspired functionally graded soft-hard composites made by multi-material 3D printing. <i>Composite Structures</i> , 2020 , 237, 111867	5.3	27
21	Mechanical response and conformational changes of alpha-actinin domains during unfolding: a molecular dynamics study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2007 , 6, 399-407	3.8	23
20	Bone remodeling and mechanobiology around implants: Insights from small animal imaging. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 584-593	3.8	22
19	Quantitative, structural, and image-based mechanical analysis of nonunion fracture repaired by genetically engineered mesenchymal stem cells. <i>Journal of Biomechanics</i> , 2010 , 43, 2315-20	2.9	22
18	Modeling microdamage behavior of cortical bone. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014 , 13, 1227-42	3.8	18
17	Mechanisms of reduced implant stability in osteoporotic bone. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012 , 11, 313-23	3.8	18

16	Re-entrant inclusions in cellular solids: From defects to reinforcements. <i>Composite Structures</i> , 2017 , 176, 195-204	5.3	17
15	The role of the renal ammonia transporter Rhcg in metabolic responses to dietary protein. <i>Journal of the American Society of Nephrology: JASN</i> , 2014 , 25, 2040-52	12.7	16
14	Mechanical regulation of bone formation and resorption around implants in a mouse model of osteopenic bone. <i>Journal of the Royal Society Interface</i> , 2019 , 16, 20180667	4.1	15
13	Properties and role of interfaces in multimaterial 3D printed composites. <i>Scientific Reports</i> , 2020 , 10, 22285	4.9	15
12	Effect of minimal defects in periodic cellular solids. <i>Philosophical Magazine</i> , 2010 , 90, 1807-1818	1.6	14
11	The Heterogeneous Mineral Content of Bone—Using Stochastic Arguments and Simulations to Overcome Experimental Limitations. <i>Journal of Statistical Physics</i> , 2011 , 144, 316-331	1.5	13
10	High-throughput quantification of the mechanical competence of murine femora—a highly automated approach for large-scale genetic studies. <i>Bone</i> , 2013 , 55, 216-21	4.7	11
9	Impaired bone formation in ovariectomized mice reduces implant integration as indicated by longitudinal in vivo micro-computed tomography. <i>PLoS ONE</i> , 2017 , 12, e0184835	3.7	11
8	Inverse finite element modeling for characterization of local elastic properties in image-guided failure assessment of human trabecular bone. <i>Journal of Biomechanical Engineering</i> , 2015 , 137,	2.1	10
7	Does mechanical stimulation really protect the architecture of trabecular bone? A simulation study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2015 , 14, 795-805	3.8	4
6	Finite element modeling of the cyclic wetting mechanism in the active part of wheat awns. <i>Biointerphases</i> , 2012 , 7, 42	1.8	4
5	Joining soft tissues to bone: Insights from modeling and simulations. <i>Bone Reports</i> , 2021 , 14, 100742	2.6	2
4	Local anisotropy in mineralized fibrocartilage and subchondral bone beneath the tendon-bone interface. <i>Scientific Reports</i> , 2021 , 11, 16534	4.9	2
3	Ultrasound characterization of bioinspired functionally graded soft-to-hard composites: Experiment and modeling.. <i>Journal of the Acoustical Society of America</i> , 2022 , 151, 1490	2.2	2
2	Modelling the interphase of 3D printed photo-cured polymers. <i>Composites Part B: Engineering</i> , 2022 , 109737	10	0
1	Structure and mineralization of the spearing mantis shrimp (Stomatopoda; <i>Lysiosquilla maculata</i>) body and spike cuticles. <i>Journal of Structural Biology</i> , 2021 , 213, 107810	3.4	0