Amaia Cipitria

List of Publications by Year
in descending order

33 papers	2,489 citations	331642 21 h-index	395678 33 g-index
33 all docs	33 docs citations	33 times ranked	3694 citing authors

#	Article	IF	Citations
1	A humanised rat model of osteosarcoma reveals ultrastructural differences between bone and mineralised tumour tissue. Bone, 2022, 158, 116018.	2.9	8
2	Microenvironment-mediated cancer dormancy: Insights from metastability theory. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	17
3	An in silico model predicts the impact of scaffold design in large bone defect regeneration. Acta Biomaterialia, 2022, 145, 329-341.	8.3	16
4	In vivo microCT-based time-lapse morphometry reveals anatomical site-specific differences in bone (re)modeling serving as baseline parameters to detect early pathological events. Bone, 2022, 161, 116432.	2.9	4
5	Optical quantification of intracellular mass density and cell mechanics in 3D mechanical confinement. Soft Matter, 2021, 17, 853-862.	2.7	18
6	Dynamic Mechanical Control of Alginate-Fibronectin Hydrogels with Dual Crosslinking: Covalent and Ionic. Polymers, 2021, 13, 433.	4.5	11
7	Targeted 2D histology and ultrastructural bone analysis based on 3D microCT anatomical locations. MethodsX, 2021, 8, 101480.	1.6	6
8	Osmotic pressure modulates single cell cycle dynamics inducing reversible growth arrest and reactivation of human metastatic cells. Scientific Reports, 2021, 11, 13455.	3.3	15
9	Role of extracellular matrix structural components and tissue mechanics in the development of postoperative pancreatic fistula. Journal of Biomechanics, 2021, 128, 110714.	2.1	2
10	An Early Myeloma Bone Disease Model in Skeletally Mature Mice as a Platform for Biomaterial Characterization of the Extracellular Matrix. Journal of Oncology, 2020, 2020, 1-12.	1.3	3
11	Dual alginate crosslinking for local patterning of biophysical and biochemical properties. Acta Biomaterialia, 2020, 115, 185-196.	8.3	15
12	Human and mouse bones physiologically integrate in a humanized mouse model while maintaining species-specific ultrastructure. Science Advances, 2020, 6, .	10.3	10
13	Alginate Hydrogels for <i>In Vivo</i> Bone Regeneration: The Immune Competence of the Animal Model Matters. Tissue Engineering - Part A, 2020, 26, 852-862.	3.1	24
14	A preclinical large-animal model for the assessment of critical-size load-bearing bone defect reconstruction. Nature Protocols, 2020, 15, 877-924.	12.0	75
15	Enzymatically-degradable alginate hydrogels promote cell spreading and in vivo tissue infiltration. Biomaterials, 2019, 217, 119294.	11.4	95
16	Hydrolytically-degradable click-crosslinked alginate hydrogels. Biomaterials, 2018, 181, 189-198.	11.4	79
17	Mechanotransduction and Growth Factor Signalling to Engineer Cellular Microenvironments. Advanced Healthcare Materials, 2017, 6, 1700052.	7.6	56
18	Scaffold curvature-mediated novel biomineralization process originates a continuous soft tissue-to-bone interface. Acta Biomaterialia, 2017, 60, 64-80.	8.3	62

#	Article	IF	Citations
19	In-situ tissue regeneration through SDF-1Î± driven cell recruitment and stiffness-mediated bone regeneration in a critical-sized segmental femoral defect. Acta Biomaterialia, 2017, 60, 50-63.	8.3	62
20	BMP delivery complements the guiding effect of scaffold architecture without altering bone microstructure in critical-sized long bone defects: A multiscale analysis. Acta Biomaterialia, 2015, 23, 282-294.	8.3	55
21	Polycaprolactone scaffold and reduced rhBMP-7 dose for the regeneration of critical-sized defects in sheep tibiae. Biomaterials, 2013, 34, 9960-9968.	11.4	120
22	A Tissue Engineering Solution for Segmental Defect Regeneration in Load-Bearing Long Bones. Science Translational Medicine, 2012, 4, 141ra93.	12.4	301
23	Porous scaffold architecture guides tissue formation. Journal of Bone and Mineral Research, 2012, 27, 1275-1288.	2.8	97
24	Design, fabrication and characterization of PCL electrospun scaffoldsâ€"a review. Journal of Materials Chemistry, 2011, 21, 9419.	6.7	499
25	Custom-made composite scaffolds for segmental defect repair in long bones. International Orthopaedics, 2011, 35, 1229-1236.	1.9	118
26	Designing biomimetic scaffolds for bone regeneration: why aim for a copy of mature tissue properties if nature uses a different approach?. Soft Matter, 2010, 6, 4976.	2.7	88
27	Heat Transfer Through Plasma-Sprayed Thermal Barrier Coatings in Gas Turbines: A Review of Recent Work. Journal of Thermal Spray Technology, 2009, 18, 809-821.	3.1	143
28	Sintering characteristics of plasma sprayed zirconia coatings containing different stabilisers. Surface and Coatings Technology, 2009, 203, 1069-1074.	4.8	100
29	A sintering model for plasma-sprayed zirconia TBCs. Part I: Free-standing coatings. Acta Materialia, 2009, 57, 980-992.	7.9	185
30	A sintering model for plasma-sprayed zirconia thermal barrier coatings. Part II: Coatings bonded to a rigid substrate. Acta Materialia, 2009, 57, 993-1003.	7.9	85
31	Properties and Performance of High-Purity Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2007, 16, 804-808.	3.1	46
32	Sintering Kinetics of Plasma-Sprayed Zirconia TBCs. Journal of Thermal Spray Technology, 2007, 16, 809-815.	3.1	23
33	Effects of Impurity Content on the Sintering Characteristics of Plasma-Sprayed Zirconia. Journal of Thermal Spray Technology, 2007, 16, 798-803.	3.1	51