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List of Publications by Year
in descending order

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42 papers	1,609 citations	361045 20 h-index	288905 40 g-index
44 all docs	44 docs citations	44 times ranked	2669 citing authors

#	Article	IF	Citations
1	In vitro biocompatibility of an ultrafine grained zirconium. Biomaterials, 2007, 28, 4343-4354.	5.7	161
2	In vitro corrosion behaviour and osteoblast response of thermally oxidised Ti6Al4V alloy. Biomaterials, 2003, 24, 19-26.	5.7	159
3	In vitro biocompatibility and bacterial adhesion of physico-chemically modified Ti6Al4V surface by means of UV irradiation. Acta Biomaterialia, 2009, 5, 181-192.	4.1	131
4	Immunoregulatory potential of mesenchymal stem cells following activation by macrophage-derived soluble factors. Stem Cell Research and Therapy, 2019, 10, 58.	2.4	126
5	Topographical cues regulate the crosstalk between MSCs and macrophages. Biomaterials, 2015, 37, 124-133.	5.7	100
6	Differential inflammatory macrophage response to rutile and titanium particles. Biomaterials, 2006, 27, 5199-5211.	5.7	76
7	In search of representative models of human bone-forming cells for cytocompatibility studies. Acta Biomaterialia, 2011, 7, 4210-4221.	4.1	72
8	Effects of micrometric titanium particles on osteoblast attachment and cytoskeleton architecture. Acta Biomaterialia, 2010, 6, 1649-1660.	4.1	57
9	Calcium phosphate-based particles influence osteogenic maturation of human mesenchymal stem cells. Acta Biomaterialia, 2009, 5, 1294-1305.	4.1	53
10	Osteoblast response to thermally oxidized Ti6Al4V alloy. Journal of Biomedical Materials Research - Part A, 2005, 73A, 97-107.	2.1	51
11	Incorporation of Mg particles into PDLLA regulates mesenchymal stem cell and macrophage responses. Journal of Biomedical Materials Research - Part A, 2016, 104, 866-878.	2.1	50
12	On the role of RhoA/ROCK signaling in contact guidance of bone-forming cells on anisotropic Ti6Al4V surfaces. Acta Biomaterialia, 2011, 7, 1890-1901.	4.1	41
13	Influence of inflammatory conditions provided by macrophages on osteogenic ability of mesenchymal stem cells. Stem Cell Research and Therapy, 2020, 11, 57.	2.4	41
14	Thermal oxidation enhances early interactions between human osteoblasts and alumina blasted Ti6Al4V alloy. Journal of Biomedical Materials Research - Part A, 2007, 81A, 334-346.	2.1	39
15	Controlled silanizationâ€“amination reactions on the Ti6Al4V surface for biomedical applications. Colloids and Surfaces B: Biointerfaces, 2013, 106, 248-257.	2.5	35
16	Rutile and titanium particles differentially affect the production of osteoblastic local factors. Journal of Biomedical Materials Research - Part A, 2008, 84A, 324-336.	2.1	34
17	Concentration-dependent effects of titanium and aluminium ions released from thermally oxidized Ti6Al4V alloy on human osteoblasts. Journal of Biomedical Materials Research - Part A, 2006, 77A, 220-229.	2.1	29
18	Alumina particles influence the interactions of cocultured osteoblasts and macrophages. Journal of Orthopaedic Research, 2006, 24, 46-54.	1.2	29

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19	In situ cell culture monitoring on a Tiâ€“6Alâ€“4V surface by electrochemical techniques. Acta Biomaterialia, 2009, 5, 1374-1384.	4.1	24
20	Interactions of human bone cells with diamond-like carbon polymer hybrid coatings. Acta Biomaterialia, 2010, 6, 3325-3338.	4.1	22
21	Functionalization of 3D scaffolds with protein-releasing biomaterials for intracellular delivery. Journal of Controlled Release, 2013, 171, 63-72.	4.8	22
22	In vitro degradation of biodegradable polylactic acid/Mg composites: Influence of nature and crystalline degree of the polymeric matrix. Materialia, 2019, 6, 100270.	1.3	21
23	Effects of polyethylene and Î±-alumina particles on IL-6 expression and secretion in primary cultures of human osteoblastic cells. Biomaterials, 2002, 23, 901-908.	5.7	20
24	Grit blasting of medical stainless steel: implications on its corrosion behavior, ion release and biocompatibility. Journal of Materials Science: Materials in Medicine, 2012, 23, 657-666.	1.7	20
25	Osteoblast response to plasma-spray porous Ti6Al4V coating on substrates of identical alloy. Journal of Biomedical Materials Research - Part A, 2006, 77A, 608-617.	2.1	18
26	Mechanical forces regulate stem cell response to surface topography. Journal of Biomedical Materials Research - Part A, 2014, 102, 128-140.	2.1	18
27	Paracrine interactions between mesenchymal stem cells and macrophages are regulated by 1,25-dihydroxyvitamin D3. Scientific Reports, 2017, 7, 14618.	1.6	18
28	Feasibility of ceramic-polymer composite cryogels as scaffolds for bone tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, 421-433.	1.3	17
29	Simvastatin prevents the induction of interleukin-6 gene expression by titanium particles in human osteoblastic cells. Acta Biomaterialia, 2013, 9, 4916-4925.	4.1	16
30	Bacterial adhesion reduction on a biocompatible Si+ ion implanted austenitic stainless steel. Materials Science and Engineering C, 2011, 31, 1567-1576.	3.8	15
31	On the interactions of human bone cells with Ti6Al4V thermally oxidized by means of laser shock processing. Biomedical Materials (Bristol), 2016, 11, 015009.	1.7	15
32	Substrate Microarchitecture Shapes the Paracrine Crosstalk of Stem Cells with Endothelial Cells and Osteoblasts. Scientific Reports, 2017, 7, 15182.	1.6	15
33	Influence of particle size in the effect of polyethylene on human osteoblastic cells. Biomaterials, 2001, 22, 755-762.	5.7	12
34	Bioactivity of dexamethasone-releasing coatings on polymer/magnesium composites. Biomedical Materials (Bristol), 2016, 11, 055011.	1.7	12
35	Impaction bone grafting in hip re-revision surgery. Bone and Joint Journal, 2021, 103-B, 492-499.	1.9	10
36	Osteoblast function in patients with idiopathic osteonecrosis of the femoral head. Bone and Joint Research, 2021, 10, 619-628.	1.3	10

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37	Corrosion behaviour and biocompatibility of a novel Ni-free intermetallic coating growth on austenitic steel by hot dipping in an Alâ€“12.6%Si alloy. Journal of Materials Science: Materials in Medicine, 2011, 22, 1005-1014.	1.7	9
38	Vitamin B9 derivatives as carriers of bioactive cations for musculoskeletal regeneration applications: Synthesis, characterization and biological evaluation. European Journal of Medicinal Chemistry, 2021, 212, 113152.	2.6	4
39	Human boneâ€lineage cell responses to anisotropic Ti6Al4V surfaces are dependent on their maturation state. Journal of Biomedical Materials Research - Part A, 2014, 102, 3154-3166.	2.1	3
40	Effect of Thermal Processing on the Dynamic/Isothermal Crystallization and Cytocompatibility of Polylactic Acid for Biomedical Applications. Macromolecular Chemistry and Physics, 2021, 222, 2100274.	1.1	3
41	Wear of hip prostheses increases serum IGFBP-1 levels in patients with aseptic loosening. Scientific Reports, 2021, 11, 576.	1.6	1
42	Polylactide, Processed by a Foaming Method Using Compressed Freon R134a, for Tissue Engineering. Polymers, 2021, 13, 3453.	2.0	0