AntonÃ-n BroÅ¾

List of Publications by Year
in descending order

33 papers	1,020 citations	567281 15 h-index	434195 31 g-index
34 all docs	34 docs citations	34 times ranked	1831 citing authors

#	Article	IF	Citations
1	Graphene substrates promote adherence of human osteoblasts and mesenchymal stromal cells. Carbon, 2010, 48, 4323-4329.	10.3	394
2	Applications of Nanocellulose/Nanocarbon Composites: Focus on Biotechnology and Medicine. Nanomaterials, 2020, 10, 196.	4.1	117
3	Influence of the fetal bovine serum proteins on the growth of human osteoblast cells on graphene. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3001-3007.	4.0	31
4	The impact of doped silicon quantum dots on human osteoblasts. RSC Advances, 2016, 6, 63403-63413.	3.6	31
5	A two-layer skin construct consisting of a collagen hydrogel reinforced by a fibrin-coated polylactide nanofibrous membrane . International Journal of Nanomedicine, 2019, Volume 14, 5033-5050.	6.7	30
6	Carbon nanotube/iron oxide hybrid particles and their PCL-based 3D composites for potential bone regeneration. Materials Science and Engineering C, 2019, 104, 109913.	7.3	30
7	Collagen Bioinks for Bioprinting: A Systematic Review of Hydrogel Properties, Bioprinting Parameters, Protocols, and Bioprinted Structure Characteristics. Biomedicines, 2021, 9, 1137.	3.2	30
8	Longâ€term adsorption of fetal bovine serum on H/Oâ€terminated diamond studied in situ by atomic force microscopy. Physica Status Solidi (B): Basic Research, 2009, 246, 2832-2835.	1.5	29
9	Nanocarbon Allotropes-Graphene and Nanocrystalline Diamond-Promote Cell Proliferation. Small, 2016, 12, 2499-2509.	10.0	27
10	Controlled oxygen plasma treatment of single-walled carbon nanotube films improves osteoblastic cells attachment and enhances their proliferation. Carbon, 2011, 49, 2926-2934.	10.3	25
11	Function of thin film nanocrystalline diamondâ€“protein SGFET independent of grain size. Sensors and Actuators B: Chemical, 2012, 166-167, 239-245.	7.8	20
12	Strong influence of hierarchically structured diamond nanotopography on adhesion of human osteoblasts and mesenchymal cells. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2038-2041.	1.8	19
13	Cellulose Mesh with Charged Nanocellulose Coatings as a Promising Carrier of Skin and Stem Cells for Regenerative Applications. Biomacromolecules, 2020, 21, 4857-4870.	5.4	19
14	Study on cellular adhesion of human osteoblasts on nanoâ€structured diamond films. Physica Status Solidi (B): Basic Research, 2009, 246, 2774-2777.	1.5	18
15	Assembly of osteoblastic cell micro-arrays on diamond guided by protein pre-adsorption. Diamond and Related Materials, 2010, 19, 153-157.	3.9	18
16	ZnO hedgehog-like structures for control cell cultivation. Applied Surface Science, 2012, 258, 3485-3489.	6.1	17
17	Silicon nanocrystals and nanodiamonds in live cells: photoluminescence characteristics, cytotoxicity and interaction with cell cytoskeleton. RSC Advances, 2014, 4, 10334-10342.	3.6	15
18	A new way to prepare gold nanoparticles by sputtering â€“ Sterilization, stability and other properties. Materials Science and Engineering C, 2020, 115, 111087.	7.3	14

#	Article	IF	Citations
19	Fabrication of nanoâ€structured diamond films for SAOSâ€2 cell cultivation. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2033-2037.	1.8	13
20	Osteoblast adhesion, migration, and proliferation variations on chemically patterned nanocrystalline diamond films evaluated by liveâ€cell imaging. Journal of Biomedical Materials Research - Part A, 2017, 105, 1469-1478.	4.0	13
21	Morphology of a fibrin nanocoating influences dermal fibroblast behavior. International Journal of Nanomedicine, 2018, Volume 13, 3367-3380.	6.7	13
22	Influence of Drying Method and Argon Plasma Modification of Bacterial Nanocellulose on Keratinocyte Adhesion and Growth. Nanomaterials, 2021, 11, 1916.	4.1	13
23	Nanofibrous Scaffolds for Skin Tissue Engineering and Wound Healing Based on Synthetic Polymers. , 0, , .		11
24	Modulated surface of single-layer graphene controls cell behavior. Carbon, 2014, 72, 207-214.	10.3	10
25	In vitro and in vivo testing of nanofibrous membranes doped with alaptide and L-arginine for wound treatment. Biomedical Materials (Bristol), 2020, 15, 065023.	3.3	10
26	Alterations to the adhesion, growth and osteogenic differentiation of human osteoblast-like cells on nanofibrous polylactide scaffolds with diamond nanoparticles. Diamond and Related Materials, 2019, 97, 107421.	3.9	9
27	Uptake and intracellular accumulation of diamond nanoparticles â€“ a metabolic and cytotoxic study. Beilstein Journal of Nanotechnology, 2017, 8, 1649-1657.	2.8	8
28	Bioreactor Processed Stromal Cell Seeding and Cultivation on Decellularized Pericardium Patches for Cardiovascular Use. Applied Sciences (Switzerland), 2020, 10, 5473.	2.5	7
29	Vascular Remodeling of Clinically Used Patches and Decellularized Pericardial Matrices Recellularized with Autologous or Allogeneic Cells in a Porcine Carotid Artery Model. International Journal of Molecular Sciences, 2022, 23, 3310.	4.1	7
30	Influence of oxygen and hydrogen treated graphene on cell adhesion in the presence or absence of fetal bovine serum. Physica Status Solidi (B): Basic Research, 2012, 249, 2503-2506.	1.5	6
31	The Application of Nanodiamond in Biotechnology and Tissue Engineering. , 0, , .		5
32	Magnetic Superporous Poly(2-hydroxyethyl methacrylate) Hydrogel Scaffolds for Bone Tissue Engineering. Polymers, 2021, 13, 1871.	4.5	5
33	Stochastic model explains formation of cell arrays on H/O-diamond patterns. Biointerphases, 2015, 10, 041006.	1.6	2