Ã“scar CastaÃ±o

List of Publications by Year
in descending order

66 papers	3,503 citations	279487 23 h-index	143772 57 g-index
68 all docs	68 docs citations	68 times ranked	5263 citing authors

#	Article	IF	Citations
1	Trackability of distal access catheters: an in vitro quantitative evaluation of navigation strategies. Journal of NeuroInterventional Surgery, 2023, 15, 496-501.	2.0	3
2	Nanotechnology Approaches in Chronic Wound Healing. Advances in Wound Care, 2021, 10, 234-256.	2.6	76
3	Polymeric Composite Dressings Containing Calcium-Releasing Nanoparticles Accelerate Wound Healing in Diabetic Mice. Advances in Wound Care, 2021, 10, 301-316.	2.6	12
4	Chemotactic TEG3 Cellsâ€™ Guiding Platforms Based on PLA Fibers Functionalized With the SDF-1Î±/CXCL12 Chemokine for Neural Regeneration Therapy. Frontiers in Bioengineering and Biotechnology, 2021, 9, 627805.	2.0	4
5	Catheter tip distensibility substantially influences the aspiration force of thrombectomy devices. Journal of NeuroInterventional Surgery, 2021, , neurintsurg-2021-017487.	2.0	4
6	Stochastic modulation evidences a transitory EGF-Ras-ERK MAPK activity induced by PRMT5. Computers in Biology and Medicine, 2021, 133, 104339.	3.9	5
7	A microphysiological system combining electrospun fibers and electrical stimulation for the maturation of highly anisotropic cardiac tissue. Biofabrication, 2021, 13, 035047.	3.7	16
8	Response to letter: How much will a catheter tip expand in aspiration thrombectomy?. Journal of NeuroInterventional Surgery, 2021, , neurintsurg-2021-017919.	2.0	0
9	EP50*â€…Catheter tip distensibility substantially influences the aspiration force of thrombectomy devices. , 2021, , .		1
10	Hydrogel co-networks of gelatine methacrylate and poly(ethylene glycol) diacrylate sustain 3D functional in vitro models of intestinal mucosa. Biofabrication, 2020, 12, 025008.	3.7	27
11	Layer-by-layer modification effects on a nanopore's inner surface of polycarbonate track-etched membranes. RSC Advances, 2020, 10, 35930-35940.	1.7	3
12	In vitro evaluation of degradable electrospun polylactic acid/bioactive calcium phosphate ormoglass scaffolds. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	7
13	Engineering Cellâ€Derived Matrices: From 3D Models to Advanced Personalized Therapies. Advanced Functional Materials, 2020, 30, 2000496.	7.8	14
14	Feasible and pure P2O5-CaO nanoglasses: An in-depth NMR study of synthesis for the modulation of the bioactive ion release. Acta Biomaterialia, 2019, 94, 574-584.	4.1	4
15	Development of a novel automatable fabrication method based on electrospinning co electrospraying for rotator cuff augmentation patches. PLoS ONE, 2019, 14, e0224661.	1.1	2
16	Time-Lapse Intravital Imaging of Biomaterials Integration in Tissues using a Multicolor Multiphoton Microscope. , 2019, , .		0
17	Instructive microenvironments in skin wound healing: Biomaterials as signal releasing platforms. Advanced Drug Delivery Reviews, 2018, 129, 95-117.	6.6	127
18	PEG hydrogel containing calcium-releasing particles and mesenchymal stromal cells promote vessel maturation. Acta Biomaterialia, 2018, 67, 53-65.	4.1	19

#	ARTICLE	IF	CITATIONS
19	Bioactive fibers for bone regeneration. , 2018, , 205-220.		1
20	Wound healing-promoting effects stimulated by extracellular calcium and calcium-releasing nanoparticles on dermal fibroblasts. Nanotechnology, 2018, 29, 395102.	1.3	38
21	The proangiogenic potential of a novel calcium releasing composite biomaterial: Orthotopic in vivo evaluation. Acta Biomaterialia, 2017, 54, 377-385.	4.1	18
22	Modular bioink for 3D printing of biocompatible hydrogels: solâ€“gel polymerization of hybrid peptides and polymers. RSC Advances, 2017, 7, 12231-12235.	1.7	39
23	Electrospun polymer scaffolds modified with drugs for tissue engineering. Materials Science and Engineering C, 2017, 77, 493-499.	3.8	32
24	Fast-degrading PLA/ORMOGLASS fibrous composite scaffold leads to a calcium-rich angiogenic environment. International Journal of Nanomedicine, 2017, Volume 12, 4901-4919.	3.3	9
25	A novel hybrid nanofibrous strategy to target progenitor cells for cost-effective in situ angiogenesis. Journal of Materials Chemistry B, 2016, 4, 6967-6978.	2.9	16
26	An ultrasonic through-transmission technique for monitoring the setting of injectable calcium phosphate cement. Materials Science and Engineering C, 2016, 67, 20-25.	3.8	14
27	The proangiogenic potential of a novel calcium releasing biomaterial: Impact on cell recruitment. Acta Biomaterialia, 2016, 29, 435-445.	4.1	39
28	Synthesis of Functional Materials for Bone Regeneration. , 2016, , 4010-4017.		0
29	Optimization of blend parameters for the fabrication of polycaprolactoneâ€silicon based ormoglass nanofibers by electrospinning. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1287-1293.	1.6	10
30	Biofunctionalization of polymeric surfaces. , 2015, 2015, 1745-8.		1
31	Towards 4th generation biomaterials: a covalent hybrid polymerâ€“ormoglass architecture. Nanoscale, 2015, 7, 15349-15361.	2.8	26
32	Fibronectin immobilization on to robotic-dispensed nanobioactive glass/polycaprolactone scaffolds for bone tissue engineering. Biotechnology Letters, 2015, 37, 935-942.	1.1	21
33	Synthesis of Functional Materials for Bone Regeneration. , 2015, , 1-8.		0
34	Neurogenesis and vascularization of the damaged brain using a lactate-releasing biomimetic scaffold. Biomaterials, 2014, 35, 4769-4781.	5.7	90
35	Electrospun gelatin/poly(Îµ-caprolactone) fibrous scaffold modified with calcium phosphate for bone tissue engineering. Materials Science and Engineering C, 2014, 44, 183-190.	3.8	127
36	Effect of structure, topography and chemistry on fibroblast adhesion and morphology. Journal of Materials Science: Materials in Medicine, 2014, 25, 1781-1787.	1.7	18

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37	Angiogenesis in Bone Regeneration: Tailored Calcium Release in Hybrid Fibrous Scaffolds. ACS Applied Materials & Interfaces, 2014, 6, 7512-7522.	4.0	79
38	Hybrid Organic-Inorganic Scaffolding Biomaterials for Regenerative Therapies. Current Organic Chemistry, 2014, 18, 2299-2314.	0.9	36
39	The effect of the composition of PLA films and lactate release on glial and neuronal maturation and the maintenance of the neuronal progenitor niche. Biomaterials, 2013, 34, 2221-2233.	5.7	33
40	Hierarchically engineered fibrous scaffolds for bone regeneration. Journal of the Royal Society Interface, 2013, 10, 20130684.	1.5	34
41	A short review: Recent advances in electrospinning for bone tissue regeneration. Journal of Tissue Engineering, 2012, 3, 204173141244353.	2.3	135
42	Electrospinning Technology in Tissue Regeneration. Methods in Molecular Biology, 2012, 811, 127-140.	0.4	21
43	Control of microenvironmental cues with a smart biomaterial composite promotes endothelial progenitor cell angiogenesis. , 2012, 24, 90-106.		66
44	Structural properties, magnetic and oxygen-vacancies order in Y(Ba_{1â^’x}Sr_x)Co₂O_{5.5}layered cobaltites. Journal of Physics: Conference Series, 2010, 200, 012039.	0.3	1
45	Injectable and fast resorbable calcium phosphate cement for body-setting bone grafts. Journal of Materials Science: Materials in Medicine, 2010, 21, 2049-2056.	1.7	32
46	Simultaneous para-ferrimagnetic, metal-insulator, and orthorhombic-monoclinic transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>YBaCo</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml: Physical Review B, 2010, 81, .	1.1	13
47	Electrospun materials as potential platforms for bone tissue engineering. Advanced Drug Delivery Reviews, 2009, 61, 1065-1083.	6.6	438
48	Biomaterials for Tissue Engineering of Hard Tissues. , 2009, , 1-42.		4
49	Biomaterials in orthopaedics. Journal of the Royal Society Interface, 2008, 5, 1137-1158.	1.5	1,161
50	The effect of oxygen disorder on magnetic properties of PrBaCo₂O_{5.50}layered cobaltite. Journal of Physics Condensed Matter, 2008, 20, 104228.	0.7	11
51	Influence of R-ion size on spin state of Co and magnetic properties of RBaCo2O5.50 cobaltites. Journal of Applied Physics, 2008, 103, 07F713.	1.1	11
52	Progress towards all-chemical superconducting YBa2Cu3O7-coated conductors. Superconductor Science and Technology, 2006, 19, S13-S26.	1.8	205
53	Kinetics characterization of YBCO thin films growth on LAO (100) single crystals by the TFA-MOD reaction. Journal of Physics: Conference Series, 2006, 43, 263-266.	0.3	2
54	Preparation of anhydrous TFA solution for deposition of YBa2Cu3O7-xthin films. Journal of Physics: Conference Series, 2006, 43, 178-181.	0.3	3

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55	Nucleation Mechanism OF YBa2Cu3O7by CSD using TFA Precursors. Journal of Physics: Conference Series, 2006, 43, 321-324.	0.3	1
56	Water vapour pressure influence on the kinetics of the superconducting YBCO thin films epitaxic growth by the TFAâ€“MOD method. Physica C: Superconductivity and Its Applications, 2006, 450, 48-55.	0.6	5
57	The influence of growth conditions on the microstructure and critical currents of TFA-MOD YBa2Cu3O7films. Superconductor Science and Technology, 2005, 18, 1141-1150.	1.8	97
58	Kinetics study of YBCO thin film epitaxic growth on LAO(100) single crystals by the TFA-MOD method. Superconductor Science and Technology, 2004, 17, 1415-1419.	1.8	9
59	Chemical solution deposition: a path towards low cost coated conductors. Superconductor Science and Technology, 2004, 17, 1055-1064.	1.8	121
60	Chemical solution techniques for epitaxial growth of oxide buffer and YBa2Cu3O7 films. Journal of the European Ceramic Society, 2004, 24, 1831-1835.	2.8	14
61	Chemical solution growth of superconductors: a new path towards high critical current coated conductors. Physica C: Superconductivity and Its Applications, 2004, 408-410, 913-914.	0.6	4
62	Enhanced low field magnetoresistive response in (La2/3Sr1/3MnO3)x/(CeO2)1âˆ’x composite thick films prepared by screen printing. Journal of Applied Physics, 2003, 94, 2524-2528.	1.1	23
63	High quality YBa2Cu3O7thin films grown by trifluoroacetates metalorganic deposition. Superconductor Science and Technology, 2003, 16, 45-53.	1.8	56
64	Influence of porosity on the critical currents of trifluoroacetate-MOD YBa/sub 2/Cu/sub 3/O/sub 7/ films. IEEE Transactions on Applied Superconductivity, 2003, 13, 2504-2507.	1.1	38
65	Epitaxial nucleation and growth of buffer layers and Y123 coated conductors deposited by metal-organic decomposition. Physica C: Superconductivity and Its Applications, 2002, 372-376, 806-809.	0.6	9
66	Phase Diagram at Low Temperature of the System ZrO2/Nb2O5. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2001, 627, 294-298.	0.6	18