

Amit Biswas

List of Publications by Year in descending order

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22
papers

533
citations

516710

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677142

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docs citations

22
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface characterization and mechanical property evaluation of thermally oxidized Ti-6Al-4V. <i>Materials Characterization</i> , 2009, 60, 513-518.	4.4	70
2	Optimization and evaluation of silk fibroin-chitosan freeze-dried porous scaffolds for cartilage tissue engineering application. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016, 27, 657-674.	3.5	58
3	Development of novel electrospun nanofibrous scaffold from P. ricini and A. mylitta silk fibroin blend with improved surface and biological properties. <i>Materials Science and Engineering C</i> , 2015, 48, 521-532.	7.3	39
4	Studies on thermal oxidation of Mg-alloy (AZ91) for improving corrosion and wear resistance. <i>Surface and Coatings Technology</i> , 2008, 202, 3638-3642.	4.8	38
5	Silk fibroin coated TiO ₂ nanotubes for improved osteogenic property of Ti6Al4V bone implants. <i>Materials Science and Engineering C</i> , 2019, 105, 109982.	7.3	34
6	<i>In vitro</i> cartilage construct generation from silk fibroin-chitosan porous scaffold and umbilical cord blood derived human mesenchymal stem cells in dynamic culture condition. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 397-407.	4.0	32
7	Interaction of osteoblast -TiO ₂ nanotubes in vitro: The combinatorial effect of surface topography and other physico-chemical factors governs the cell fate. <i>Applied Surface Science</i> , 2018, 449, 152-165.	6.1	31
8	Diode Laser Assisted Surface Nitriding of Ti-6Al-4V: Properties of the Nitrided Surface. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 3031-3037.	2.2	30
9	Enhanced chondrogenesis of mesenchymal stem cells over silk fibroin/chitosan-chondroitin sulfate three dimensional scaffold in dynamic culture condition. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 2576-2587.	3.4	23
10	Directing osteogenesis of stem cells with hydroxyapatite precipitated electrospun eri-tasar silk fibroin nanofibrous scaffold. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 1440-1457.	3.5	19
11	Development of a novel glucosamine/silk fibroin-chitosan blend porous scaffold for cartilage tissue engineering applications. <i>Iranian Polymer Journal (English Edition)</i> , 2017, 26, 11-19.	2.4	19
12	MgO enables enhanced bioactivity and antimicrobial activity of nano bioglass for bone tissue engineering application. <i>Materials Technology</i> , 2019, 34, 818-826.	3.0	19
13	Evaluation of electrochemical properties of thermally oxidised Ti-6Al-4V for bioimplant application. <i>Surface Engineering</i> , 2009, 25, 141-145.	2.2	18
14	Enhanced osteogenic potential of human mesenchymal stem cells on electrospun nanofibrous scaffolds prepared from eri-tasar silk fibroin. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015, 103, 971-982.	3.4	18
15	Chondrogenic differentiation of mesenchymal stem cells on silk fibroin:chitosan-glucosamine scaffold in dynamic culture. <i>Regenerative Medicine</i> , 2018, 13, 545-558.	1.7	18
16	Design of magnesium oxide nanoparticle incorporated carboxy methyl cellulose/poly vinyl alcohol composite film with novel composition for skin tissue engineering. <i>Materials Technology</i> , 2022, 37, 706-716.	3.0	18
17	Chemical oxidation of Ti-6Al-4V for improved wear and corrosion resistance. <i>Surface Engineering</i> , 2008, 24, 442-446.	2.2	12
18	Antibacterial activity and biocompatibility of curcumin/TiO ₂ nanotube array system on Ti6Al4V bone implants. <i>Materials Technology</i> , 2021, 36, 221-232.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Preparation and Characterization of HAp Coated Chitosan-Alginate PEC Porous Scaffold for Bone Tissue Engineering. Macromolecular Symposia, 2017, 376, 1600205.	0.7	11
20	LASER ASSISTED SURFACE MODIFICATION OF Ti_6Al_4V FOR BIOIMPLANT APPLICATION. Surface Review and Letters, 2007, 14, 531-534.	1.1	7
21	Degradation Mechanism and Control of Blended Eri and Tasar Silk Nanofiber. Applied Biochemistry and Biotechnology, 2014, 174, 2403-2412.	2.9	6
22	SURFACE OXIDATION OF Ti_6Al_4V FOR BIO-IMPLANT APPLICATION. Surface Review and Letters, 2007, 14, 597-600.	1.1	1