

Xiao-Bo Huang

List of Publications by Year in descending order

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38
papers

1,655
citations

394421

19
h-index

330143

37
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38
docs citations

38
times ranked

2222
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of titania nanotubes with embedded silver oxide nanoparticles on bacteria and osteoblasts. <i>Biomaterials</i> , 2014, 35, 4223-4235.	11.4	305
2	A multifaceted coating on titanium dictates osteoimmunomodulation and osteo/angio-genesis towards ameliorative osseointegration. <i>Biomaterials</i> , 2018, 162, 154-169.	11.4	206
3	Biocompatibility, corrosion resistance and antibacterial activity of TiO ₂ /CuO coating on titanium. <i>Ceramics International</i> , 2017, 43, 16185-16195.	4.8	109
4	Microenvironment of alginate-based microcapsules for cell culture and tissue engineering. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 1-8.	2.2	96
5	Effects of copper nanoparticles in porous TiO ₂ coatings on bacterial resistance and cytocompatibility of osteoblasts and endothelial cells. <i>Materials Science and Engineering C</i> , 2018, 82, 110-120.	7.3	96
6	Differential effect of hydroxyapatite nano-particle versus nano-rod decorated titanium micro-surface on osseointegration. <i>Acta Biomaterialia</i> , 2018, 76, 344-358.	8.3	93
7	AgCl/Ag ₃ PO ₄ : A stable Ag-Based nanocomposite photocatalyst with enhanced photocatalytic activity for the degradation of parabens. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 10-17.	9.4	64
8	Antibacterial ability and angiogenic activity of Cu-Ti-O nanotube arrays. <i>Materials Science and Engineering C</i> , 2017, 71, 93-99.	7.3	60
9	Microstructure and cytotoxicity evaluation of duplex-treated silver-containing antibacterial TiO ₂ coatings. <i>Materials Science and Engineering C</i> , 2014, 45, 402-410.	7.3	58
10	High-current anodization: A novel strategy to functionalize titanium-based biomaterials. <i>Electrochimica Acta</i> , 2015, 173, 345-353.	5.2	52
11	Antibacterial, osteogenic, and angiogenic activities of SrTiO ₃ nanotubes embedded with Ag ₂ O nanoparticles. <i>Materials Science and Engineering C</i> , 2017, 75, 1049-1058.	7.3	45
12	Dual light-induced <i>in situ</i> antibacterial activities of biocompatible TiO ₂ /MoS ₂ /PDA/RGD nanorod arrays on titanium. <i>Biomaterials Science</i> , 2020, 8, 391-404.	5.4	44
13	A nano-silver composite based on the ion-exchange response for the intelligent antibacterial applications. <i>Materials Science and Engineering C</i> , 2014, 41, 134-141.	7.3	43
14	Osteogenic and angiogenic activities of silicon-incorporated TiO ₂ nanotube arrays. <i>Journal of Materials Chemistry B</i> , 2016, 4, 5548-5559.	5.8	39
15	Electrochemical corrosion, wear and cell behavior of ZrO ₂ /TiO ₂ alloyed layer on Ti-6Al-4V. <i>Bioelectrochemistry</i> , 2018, 121, 105-114.	4.6	34
16	Highly ordered Ni-Ti-O nanotubes for non-enzymatic glucose detection. <i>Materials Science and Engineering C</i> , 2015, 51, 37-42.	7.3	31
17	Length-dependent corrosion behavior, Ni ²⁺ release, cytocompatibility, and antibacterial ability of Ni-Ti-O nanopores anodically grown on biomedical NiTi alloy. <i>Materials Science and Engineering C</i> , 2018, 89, 1-7.	7.3	28
18	Antibacterial Property of Cu Modified Stainless Steel by Plasma Surface Alloying. <i>Journal of Iron and Steel Research International</i> , 2012, 19, 75-79.	2.8	22

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19	Matrix Stiffness in Three-Dimensional Systems Effects on the Behavior of C3A Cells. <i>Artificial Organs</i> , 2013, 37, 166-174.	1.9	21
20	Cellular response to nano-structured Zr and ZrO ₂ alloyed layers on Ti-6Al-4V. <i>Materials Science and Engineering C</i> , 2018, 90, 523-530.	7.3	20
21	Enhancement of Antibacterial and Mechanical Properties of Photocurable μ -Poly-L-lysine Hydrogels by Tannic Acid Treatment. <i>ACS Applied Bio Materials</i> , 2021, 4, 2713-2722.	4.6	20
22	Synthesis and biological properties of Zn-incorporated micro/nano-textured surface on Ti by high current anodization. <i>Materials Science and Engineering C</i> , 2017, 78, 175-184.	7.3	18
23	Titanium-based implant comprising a porous microstructure assembled with nanoleaves and controllable silicon-ion release for enhanced osseointegration. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5100-5114.	5.8	18
24	Effect of a biomimetic titania mesoporous coating doped with Sr on the osteogenic activity. <i>Materials Science and Engineering C</i> , 2018, 91, 153-162.	7.3	16
25	Preparation, characterization, corrosion behavior and cytocompatibility of NiTiO ₃ nanosheets hydrothermally synthesized on biomedical NiTi alloy. <i>Materials Science and Engineering C</i> , 2019, 97, 715-722.	7.3	16
26	In vitro biodegradability of Mg-2Gd-xZn alloys with different Zn contents and solution treatments. <i>Rare Metals</i> , 2019, 38, 620-628.	7.1	15
27	A cytocompatible micro/nano-textured surface with Si-doped titania mesoporous arrays fabricated by a one-step anodization. <i>Materials Science and Engineering C</i> , 2017, 73, 120-129.	7.3	14
28	One-step fabrication of cytocompatible micro/nano-textured surface with TiO ₂ mesoporous arrays on titanium by high current anodization. <i>Electrochimica Acta</i> , 2016, 199, 116-125.	5.2	12
29	A high current anodization to fabricate a nano-porous structure on the surface of Ti-based implants. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 2.	3.6	12
30	A scalelike micro/nano-textured structure on Ti-based implants with enhanced cytocompatibility and osteogenic activities. <i>Surface and Coatings Technology</i> , 2021, 422, 127497.	4.8	10
31	3D Printing Polymer-based Bolus Used for Radiotherapy. <i>International Journal of Bioprinting</i> , 2021, 7, 414.	3.4	10
32	Mechanical, Electrochemical, and Osteoblastic Properties of Gradient Tantalum Coatings on Ti6Al4V by Prepared Plasma Alloying Technique. <i>Coatings</i> , 2021, 11, 631.	2.6	8
33	Modulating the behaviors of C3A cells via surface charges of polyelectrolyte multilayers. <i>Carbohydrate Polymers</i> , 2013, 92, 1064-1070.	10.2	6
34	A self-regulating antimicrobial model based on the ion-exchange stimuli. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 208.	3.6	5
35	Three-Dimensional Printing Chitosan-Based Bolus Used for Radiotherapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 7094-7102.	4.6	4
36	A hybrid co-culture model with endothelial cells designed for the hepatic tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2017, 28, 139.	3.6	3

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37	Failure Behavior Characterization of Mo-Modified Ti Surface by Impact Test and Finite Element Analysis. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2678-2687.	2.5	2
38	INVESTIGATION ON ANTIBACTERIAL PROPERTY OF Cu-COATING ON PURE TITANIUM FABRICATED VIA PLASMA SURFACE ALLOYING. <i>Modern Physics Letters B</i> , 2013, 27, 1341017.	1.9	0