Myoung-Ryul Ok

List of Publications by Year
in descending order

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29	820	759233 12	501196 28
papers	citations	h-index	g-index

30	30	30	1368
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improving hydroxyapatite coating ability on biodegradable metal through laser-induced hydrothermal coating in liquid precursor: Application in orthopedic implants. Bioactive Materials, 2023, 25, 796-806.	15.6	10
2	On/off switchable physical stimuli regulate the future direction of adherent cellular fate. Journal of Materials Chemistry B, 2021, 9, 5560-5571.	5.8	3
3	Femtosecond laser-mediated anchoring of polymer layers on the surface of a biodegradable metal. Journal of Magnesium and Alloys, 2021, 9, 1373-1373.	11.9	11
4	Regulation of cell locomotion by nanosecond-laser-induced hydroxyapatite patterning. Bioactive Materials, 2021, 6, 3608-3619.	15.6	17
5	Robust Hydroxyapatite Coating by Laserâ€Induced Hydrothermal Synthesis. Advanced Functional Materials, 2020, 30, 2005233.	14.9	29
6	Femtosecond laser induced nano-textured micropatterning to regulate cell functions on implanted biomaterials. Acta Biomaterialia, 2020, 116, 138-148.	8.3	16
7	Tailoring H2O2 generation kinetics with magnesium alloys for efficient disinfection on titanium surface. Scientific Reports, 2020, 10, 6536.	3.3	4
8	Interface Engineering of Fully Metallic Stents Enabling Controllable H2O2Generation for Antirestenosis. Langmuir, 2019, 35, 3634-3642.	3.5	6
9	Conceptual Study for Tissue-Regenerative Biodegradable Magnesium Implant Integrated with Nitric Oxide-Releasing Nanofibers. Metals and Materials International, 2019, 25, 1098-1107.	3.4	7
10	Corrosion behavior of biodegradable Mg-based alloys via femtosecond laser surface melting. Applied Surface Science, 2018, 448, 424-434.	6.1	60
11	Effect of spatial arrangement and structure of hierarchically patterned fibrous scaffolds generated by a femtosecond laser on cardiomyoblast behavior. Journal of Biomedical Materials Research - Part A, 2018, 106, 1732-1742.	4.0	5
12	Instrument-Free and Autonomous Generation of H2O2 from Mgâ€“ZnO/Au Hybrids for Disinfection and Organic Pollutant Degradations. Metals and Materials International, 2018, 24, 657-663.	3.4	6
13	A new corrosion-inhibiting strategy for biodegradable magnesium: reduced nicotinamide adenine dinucleotide (NADH). Scientific Reports, 2018, 8, 17743.	3.3	6
14	Molecular dynamics simulation of cytotoxicity of graphene nanosheets to blood-coagulation protein. Biointerphases, 2017, 12, 01A403.	1.6	9
15	Long-term clinical study and multiscale analysis of in vivo biodegradation mechanism of Mg alloy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 716-721.	7.1	337
16	Direct and accurate measurement of size dependent wetting behaviors for sessile water droplets. Scientific Reports, 2015, 5, 18150.	3.3	27
17	Detecting changes in arthritic fibroblastâ€like synoviocytes using atomic force microscopy. Microscopy Research and Technique, 2015, 78, 982-988.	2.2	4
18	Magnesium Corrosion Triggered Spontaneous Generation of H₂O₂ on Oxidized Titanium for Promoting Angiogenesis. Angewandte Chemie - International Edition, 2015, 54, 14753-14757.	13.8	22

#	Article	IF	Citations
19	Surface Patterning of Mesoporous Niobium Oxide Films for Solar Energy Conversion. ACS Applied Materials & Interfaces, 2013, 5, 3469-3474.	8.0	28
20	Nanoforest Nb₂O₅ Photoanodes for Dye-Sensitized Solar Cells by Pulsed Laser Deposition. ACS Applied Materials & Interfaces, 2011, 3, 3929-3935.	8.0	130
21	Suppression of bimolecular recombination by UV-sensitive electron transport layers in organic solar cells. Journal of Applied Physics, 2010, 108, 083101.	2.5	7
22	Research on the surface oxidation procedure of Fe-base metallic glass during wet oxidation treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 159-164.	5.6	13
23	Micro-forming and surface evaluation of Zr41Ti14Cu12.5Ni10Be22.5 bulk metallic glass. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 14-18.	5.6	6
24	Analysis on the phase transition behavior of Cu base bulk metallic glass by electrical resistivity measurement. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 449-451, 521-525.	5.6	13
25	The Structure, Phase Composition and Mechanical Properties of Microplasma Electrolytic Coatings Produced on a Ti-6Al-4V Alloy. Materials Transactions, 2006, 47, 1805-1809.	1.2	2
26	The Dependence of Coating Characteristics on Progress Parameters and Alloy Compositions. Materials Transactions, 2005, 46, 2467-2472.	1.2	1
27	Quantitative Parameters and Definition of Stages of Anodic-Cathodic Microplasma Processes on Aluminum Alloys. Materials Transactions, 2005, 46, 2077-2082.	1.2	10
28	Analysis of the crystallization of Zr41Ti14Cu12.5Ni10Be22.5 bulk metallic glass using electrical resistivity measurement. Scripta Materialia, 2005, 53, 223-228.	5.2	26
29	Development of Organic/Inorganic Hybrid Materials for Fully Degradable Reactive Oxygen Species-Releasing Stents for Antirestenosis. Langmuir, 0, , .	3.5	2