

Anil Mahapatro

List of Publications by Year in descending order

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39
papers

1,500
citations

471509

17
h-index

377865

34
g-index

40
all docs

40
docs citations

40
times ranked

2286
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of corrosion resistance, mechanical integrity loss and biocompatibility of PCL/HA/TiO ₂ hybrid coated biodegradable ZM21 Mg alloy. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 3179-3204.	11.9	15
2	Investigating TiO ₂ â€“HAâ€“PCL hybrid coating as an efficient corrosion resistant barrier of ZM21 Mg alloy. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 627-646.	11.9	47
3	Effect of polymer coating characteristics on the biodegradation and biocompatibility behavior of magnesium alloy. <i>Polymer-Plastics Technology and Materials</i> , 2020, 59, 301-310.	1.3	2
4	Surface Engineering in Wearable Sensors for Medical Diagnostic Applications. , 2020, , 101-122.		0
5	Magnesium Based Biodegradable Metallic Implant Materials: Corrosion Control and Evaluation of Surface Coatings. <i>Innovations in Corrosion and Materials Science</i> , 2019, 9, 3-27.	0.2	1
6	Highly Sensitive and Reliable Electrospun Polyaniline Nanofiber Based Biosensor as a Robust Platform for COX-2 Enzyme Detections. <i>Fibers and Polymers</i> , 2019, 20, 966-974.	2.1	30
7	Preliminary validation of a dynamic electrochemical biodegradation test bench in pseudo-physiological conditions. <i>Materials Technology</i> , 2018, 33, 135-144.	3.0	3
8	Fabrication of magnesium-based metallic scaffolds for bone tissue engineering. <i>Materials Technology</i> , 2018, 33, 173-182.	3.0	39
9	Bioceramic Coatings on Magnesium Alloys. <i>Journal of Bio- and Tribo-Corrosion</i> , 2017, 3, 1.	2.6	8
10	Spectroscopic Evaluations of Interfacial Oxidative Stability of Phosphonic Nanocoatings on Magnesium. <i>Journal of Spectroscopy</i> , 2015, 2015, 1-8.	1.3	13
11	Bio-functional nano-coatings on metallic biomaterials. <i>Materials Science and Engineering C</i> , 2015, 55, 227-251.	7.3	100
12	Determination of Ionic Liquid and Magnesium Compatibility via Microscopic Evaluations. <i>Journal of Advanced Microscopy Research</i> , 2015, 10, 89-92.	0.3	5
13	Fabrication, Biofunctionality and Biocompatibility Evaluations of Octadecyltrichlorosilane Nano Coatings on Magnesium Alloy. <i>Journal of Nanoengineering and Nanomanufacturing</i> , 2015, 5, 294-303.	0.3	9
14	Nanoscale Surface Pretreatment of Biomedical Coâ€“Cr Alloy. <i>Journal of Surfaces and Interfaces of Materials</i> , 2015, 3, 67-74.	0.5	6
15	In vitro stability study of organophosphonic self assembled monolayers (SAMs) on cobalt chromium (Coâ€“Cr) alloy. <i>Materials Science and Engineering C</i> , 2013, 33, 2050-2058.	7.3	22
16	Microwave-Assisted Biocatalytic Polymerizations. <i>ACS Symposium Series</i> , 2013, , 69-80.	0.5	2
17	Nanolayers on Magnesium (Mg) Alloy for Metallic Bone Tissue Engineering Scaffolds. <i>Journal of Biomaterials and Tissue Engineering</i> , 2013, 3, 196-204.	0.1	17
18	Ambient Atmospheric Stability of Organic Thin Films on Metal Alloys. <i>ECS Transactions</i> , 2012, 41, 61-65.	0.5	2

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19	Electrochemical Corrosion Study of Protective Organic Thin Film Coating on Magnesium Alloy. ECS Transactions, 2012, 41, 115-119.	0.5	4
20	Metals for Biomedical Applications and Devices. Journal of Biomaterials and Tissue Engineering, 2012, 2, 259-268.	0.1	23
21	Microwave assisted lipase catalyzed solvent-free poly- ϵ -caprolactone synthesis. Green Chemistry Letters and Reviews, 2011, 4, 73-79.	4.7	29
22	Nanosized Controlled Surface Pretreatment of Biometallic Alloy 316L Stainless Steel. Journal of Biomedical Nanotechnology, 2011, 7, 794-800.	1.1	22
23	Biodegradable nanoparticles are excellent vehicle for site directed in-vivo delivery of drugs and vaccines. Journal of Nanobiotechnology, 2011, 9, 55.	9.1	538
24	Stability of phosphonic self assembled monolayers (SAMs) on cobalt chromium (Co-Cr) alloy under oxidative conditions. Applied Surface Science, 2011, 257, 5605-5612.	6.1	33
25	Formation of Nanosized Phosphonic Acid Self Assembled Monolayers on Cobalt-Chromium Alloy for Potential Biomedical Applications. Journal of Biomedical Nanotechnology, 2010, 6, 117-128.	1.1	16
26	Surface Patterning Using Self Assembled Monolayers (SAMs). ACS Symposium Series, 2010, , 65-107.	0.5	5
27	Silicon Based Nanocoatings on Metal Alloys and Their Role in Surface Engineering. Silicon, 2010, 2, 117-151.	3.3	18
28	Surface Modification of Cobalt Chromium Alloy via Phosphonic Acid Organic Nanosized Thin Films. ECS Transactions, 2010, 33, 91-95.	0.5	2
29	Drug Delivery from Therapeutic Self-Assembled Monolayers (T-SAMs) on 316L Stainless Steel. Current Topics in Medicinal Chemistry, 2008, 8, 281-289.	2.1	21
30	Polymers for Biomedical Applications. ACS Symposium Series, 2008, , 1-7.	0.5	22
31	Biocatalysis on Surfaces: A Microreview. ACS Symposium Series, 2008, , 180-193.	0.5	0
32	Surface Reactions: Bio-catalysis an Emerging Alternative. , 2008, , 43-62.		0
33	The use of alkanethiol self-assembled monolayers on 316L stainless steel for coronary artery stent nanomedicine applications: an oxidative and in vitro stability study. Nanomedicine: Nanotechnology, Biology, and Medicine, 2006, 2, 182-190.	3.3	35
34	Surface Modification of Functional Self-Assembled Monolayers on 316L Stainless Steel via Lipase Catalysis. Langmuir, 2006, 22, 901-905.	3.5	65
35	Solvent-Free Adipic Acid/1,8-Octanediol Condensation Polymerizations Catalyzed by Candida antarctica Lipase B. Macromolecules, 2004, 37, 35-40.	4.8	100
36	Mild, Solvent-Free ϵ -Hydroxy Acid Polycondensations Catalyzed by Candida antarctica Lipase B. Biomacromolecules, 2004, 5, 62-68.	5.4	102

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37	Lipase-Catalyzed Polycondensations: Effect of Substrates and Solvent on Chain Formation, Dispersity, and End-Group Structure. <i>Biomacromolecules</i> , 2003, 4, 544-551.	5.4	141
38	Evaluation of Polyvinylidene Fluoride (PVDF) integrated sensor for physiological temperature detection. <i>Materials Technology</i> , 0, , 1-9.	3.0	2
39	Hybrid polymeric-metallic foams for bone tissue engineering scaffolds: mechanical properties and biofunctionality evaluations. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 0, , 1-9.	3.4	1