

Srijan Sengupta

List of Publications by Year in descending order

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21
papers

426
citations

687363

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794594

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all docs

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21
times ranked

475
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of calcium hydrogen phosphate and hydroxyapatite coating on SS316 substrate through pulsed electrodeposition. <i>Materials Science and Engineering C</i> , 2016, 69, 875-883.	7.3	45
2	Novel bilayer Zn Ni/Ni Co SiC nanocomposite coating with exceptional corrosion and wear properties by pulse electrodeposition. <i>Journal of Alloys and Compounds</i> , 2018, 738, 394-404.	5.5	39
3	3D microporous Sn-Sb-Ni alloy impregnated Ni foam as high-performance negative electrode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 705, 290-300.	5.5	37
4	Comparison of Osteoconduction, cytocompatibility and corrosion protection performance of hydroxyapatite-calcium hydrogen phosphate composite coating synthesized in-situ through pulsed electro-deposition with varying amount of phase and crystallinity. <i>Surfaces and Interfaces</i> , 2018, 10, 1-10.	3.0	34
5	Synergistic effect of peak current density and nature of surfactant on microstructure, mechanical and electrochemical properties of pulsed electrodeposited Ni-Co-SiC nanocomposites. <i>Journal of Alloys and Compounds</i> , 2017, 729, 1093-1107.	5.5	33
6	MWCNT reinforced bone like calcium phosphate-Hydroxyapatite composite coating developed through pulsed electrodeposition with varying amount of apatite phase and crystallinity to promote superior osteoconduction, cytocompatibility and corrosion protection performance compared to bare metallic implant surface. <i>Surface and Coatings Technology</i> , 2017, 325, 496-514.	4.8	29
7	Cu, Cu-SiC functionally graded coating for protection against corrosion and wear. <i>Surface and Coatings Technology</i> , 2019, 374, 833-844.	4.8	28
8	A Study on the Effect of Electrodeposition Parameters on the Morphology of Porous Nickel Electrodeposits. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 920-937.	2.2	27
9	Substrate effect on electrodeposited copper morphology and crystal shapes. <i>Surface Engineering</i> , 2018, 34, 485-492.	2.2	26
10	Sandwich architecture of Sn SnSb alloy nanoparticles and N-doped reduced graphene oxide sheets as a high rate capability anode for lithium-ion batteries. <i>Journal of Power Sources</i> , 2018, 401, 165-174.	7.8	26
11	Synthesis and characterization of novel Cu, Cu-SiC functionally graded coating by pulse reverse electrodeposition. <i>Applied Surface Science</i> , 2019, 467-468, 567-579.	6.1	19
12	Effect of Current Density on the Nucleation and Growth of Crystal Facets during Pulse Electrodeposition of Sn-Cu Lead-Free Solder. <i>Crystal Growth and Design</i> , 2014, 14, 6542-6549.	3.0	18
13	Investigation on lithium conversion behavior and degradation mechanisms in Tin based ternary component alloy anodes for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 721, 236-248.	5.5	17
14	Reciprocating Sliding Wear of Cu, Cu-SiC Functionally Graded Coating on Electrical Contact. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3930-3940.	2.5	11
15	Melt impregnation as a post processing treatment for performance enhancement in high capacity 3D microporous tin-copper-nickel intermetallic anode for Li-ion battery supported by electrodeposited nickel scaffold: A structural study. <i>Applied Surface Science</i> , 2018, 441, 965-977.	6.1	10
16	Effect of Anodic Passivation at High Applied Potential Difference on the Crystal Shape and Morphology of Copper Electrodeposits: Thermodynamics and Kinetics of Electrocrystallization. <i>Crystal Growth and Design</i> , 2017, 17, 1539-1549.	3.0	9
17	Prediction of the Propagation of Fatigue Cracks in Part-Through Cracked Pipes with CASCA and FRANC2D. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 1417-1420.	1.5	8
18	Synthesis and characterization of MWCNT reinforced nano-crystalline copper coating from a highly basic bath through pulsed electrodeposition. <i>Surfaces and Interfaces</i> , 2017, 9, 28-35.	3.0	7

#	ARTICLE	IF	CITATIONS
19	A Novel Multiphase Sn-Sb-Cu Alloy Electrodeposited on 3D Interconnected Microporous Cu Current Collector as Negative Electrode for Lithium Ion Battery. Metallurgical and Materials Transactions E, 2017, 4, 51-59.	0.5	2
20	Optimization of Test Procedure for Simulation of Paper Laminate in Axial Loading Conditions Using FRANC2D and CASCA. Key Engineering Materials, 0, 882, 132-139.	0.4	1
21	Electrodeposited Nickel Coating Reinforced with Chlorophyllâ€Reduced Graphene Oxide. Advanced Engineering Materials, 2021, 23, 2100254.	3.5	0