Niraj Bala

List of Publications by Year
in descending order

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29	709	567281 15	552781 26
papers	citations	h-index	g-index

30	30	30	600
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and characterization of iron oxide-hydroxyapatite-chitosan composite coating and its biological assessment for biomedical applications. Progress in Organic Coatings, 2021, 150, 106011.	3.9	26
2	Electrophoretic deposition of Fe3O4 nanoparticles incorporated hydroxyapatite-bioglass-chitosan nanocomposite coating on AZ91 Mg alloy. Materials Today Communications, 2021, 26, 101870.	1.9	13
3	Characterization, electrochemical behavior and in vitro hemocompatibility of hydroxyapatite-bioglass-iron oxide-chitosan composite coating by electrophoretic deposition. Surface and Coatings Technology, 2021, 405, 126564.	4.8	19
4	Hot corrosion behavior of HVOF-sprayed carbide based composite coatings for boiler steel in Na2SO4â€“60 % V2O5 environment at 900 Â°C under cyclic conditions. Corrosion Science, 2021, 190, 109666.	6.6	14
5	Erosive wear behaviour of HVOF-sprayed Ni-20Cr2O3 coating on pipeline materials. International Journal of Refractory Metals and Hard Materials, 2020, 92, 105332.	3.8	39
6	Analysis ofin vitrocorrosion behavior and hemocompatibility of electrophoretically deposited bioglassâ€“chitosanâ€“iron oxide coating for biomedical applications. Journal of Materials Research, 2020, 35, 1749-1761.	2.6	5
7	Characterization and preparation of Fe3O4 nanoparticles loaded bioglass-chitosan nanocomposite coating on Mg alloy and in vitro bioactivity assessment. International Journal of Biological Macromolecules, 2020, 151, 519-528.	7.5	28
8	Electrophoretic deposition of hydroxyapatite-iron oxide-chitosan composite coatings on Tiâ€“13Nbâ€“13Zr alloy for biomedical applications. Thin Solid Films, 2020, 697, 137801.	1.8	27
9	Oxidation Behaviour of HVOF Sprayed NiCrAlY and NiCrAlY-20SiC Coatings on T-91 Boiler Tube Steel. Protection of Metals and Physical Chemistry of Surfaces, 2020, 56, 134-150.	1.1	8
10	Characterization of Hydroxyapatite Coating on 316L Stainless Steel by Solâ€“Gel Technique. Surface Engineering and Applied Electrochemistry, 2019, 55, 357-366.	0.8	15
11	A comparative study of corrosion resistance of biocompatible coating on titanium alloy and stainless steel. Materials Chemistry and Physics, 2019, 238, 121923.	4.0	18
12	Corrosion behavior and characterization of HA/Fe3O4/CS composite coatings on AZ91 Mg alloy by electrophoretic deposition. Materials Chemistry and Physics, 2019, 237, 121884.	4.0	29
13	Relative sliding wear behavior of Mg metal matrix composites fabricated by stir cast route. Materials Research Express, 2019, 6, 1065h1.	1.6	6
14	Comparison of Surface Coatings by Plasma Spray Technique and Biomimetic Deposition on Ti Alloy Substrate: Morphology, Composition, and Corrosion Resistance Property. Protection of Metals and Physical Chemistry of Surfaces, 2019, 55, 583-590.	1.1	2
15	High temperature oxidation behaviour and characterization of NiCrAlY-B₄C coatings deposited by HVOF. Materials Research Express, 2019, 6, 086436.	1.6	9
16	Microstructural Refinement and Enhancement in Mechanical Properties of Magnesium/SiC as-Cast Composites via Friction Stir Processing Route. Transactions of the Indian Institute of Metals, 2019, 72, 1313-1321.	1.5	9
17	Synthesis and comparative sliding wear behavior of stir cast Mg and Mg/Al₂O₃ metal matrix composites. Materials Research Express, 2019, 6, 076512.	1.6	7
18	Role of friction stir processing in improving wear behavior of Mg/SiC composites produced by stir casting route. Materials Research Express, 2019, 6, 026577.	1.6	15

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19	Electrophoretic deposition of bioactive glass composite coating on biomaterials and electrochemical behavior study: A review. Materials Today: Proceedings, 2018, 5, 20160-20169.	1.8	12
20	Characterization of Thermal-Sprayed HAP and HAP/TiO2 Coatings for Biomedical Applications. Journal of Thermal Spray Technology, 2018, 27, 1356-1370.	3.1	6
21	Performance of cold sprayed Ni based coatings in actual boiler environment. Surface and Coatings Technology, 2017, 318, 50-61.	4.8	40
22	Accelerated Hot Corrosion Studies of D-Gun-Sprayed Cr2O3â€“50% Al2O3 Coating on Boiler Steel and Fe-Based Superalloy. Oxidation of Metals, 2017, 88, 621-648.	2.1	19
23	High Temperature Oxidation Behaviour of HVOF Thermally Sprayed NiCrAlY Coating on T-91 Boiler Tube Steel. Materials Today: Proceedings, 2017, 4, 5259-5265.	1.8	8
24	Fabrication and Tribological Behavior of Stir Cast Mg/B4C Metal Matrix Composites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5031-5045.	2.2	20
25	Effect of additions of TiC and Re on high temperature corrosion performance of cold sprayed Niâ€“20Cr coatings. Surface and Coatings Technology, 2015, 280, 50-63.	4.8	17
26	Investigations on the Behavior of HVOF and Cold Sprayed Ni-20Cr Coating on T22 Boiler Steel in Actual Boiler Environment. Journal of Thermal Spray Technology, 2012, 21, 144-158.	3.1	53
27	High Temperature Corrosion Behavior of Cold Spray Ni-20Cr Coating on Boiler Steel in Molten Salt Environment at 900ÂÂ°C. Journal of Thermal Spray Technology, 2010, 19, 110-118.	3.1	52
28	Accelerated hot corrosion studies of cold spray Niâ€“50Cr coating on boiler steels. Materials & Design, 2010, 31, 244-253.	5.1	106
29	High-temperature oxidation studies of cold-sprayed Niâ€“20Cr and Niâ€“50Cr coatings on SAE 213-T22 boiler steel. Applied Surface Science, 2009, 255, 6862-6869.	6.1	87