

# Niraj Bala

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5920764/publications.pdf>

Version: 2024-02-01

29  
papers

709  
citations

567281

15  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerated hot corrosion studies of cold spray Ni-50Cr coating on boiler steels. <i>Materials &amp; Design</i> , 2010, 31, 244-253.	5.1	106
2	High-temperature oxidation studies of cold-sprayed Ni-20Cr and Ni-50Cr coatings on SAE 213-T22 boiler steel. <i>Applied Surface Science</i> , 2009, 255, 6862-6869.	6.1	87
3	Investigations on the Behavior of HVOF and Cold Sprayed Ni-20Cr Coating on T22 Boiler Steel in Actual Boiler Environment. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 144-158.	3.1	53
4	High Temperature Corrosion Behavior of Cold Spray Ni-20Cr Coating on Boiler Steel in Molten Salt Environment at 900°C. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 110-118.	3.1	52
5	Performance of cold sprayed Ni based coatings in actual boiler environment. <i>Surface and Coatings Technology</i> , 2017, 318, 50-61.	4.8	40
6	Erosive wear behaviour of HVOF-sprayed Ni-20Cr2O3 coating on pipeline materials. <i>International Journal of Refractory Metals and Hard Materials</i> , 2020, 92, 105332.	3.8	39
7	Corrosion behavior and characterization of HA/Fe3O4/CS composite coatings on AZ91 Mg alloy by electrophoretic deposition. <i>Materials Chemistry and Physics</i> , 2019, 237, 121884.	4.0	29
8	Characterization and preparation of Fe3O4 nanoparticles loaded bioglass-chitosan nanocomposite coating on Mg alloy and in vitro bioactivity assessment. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 519-528.	7.5	28
9	Electrophoretic deposition of hydroxyapatite-iron oxide-chitosan composite coatings on Ti-13Nb-13Zr alloy for biomedical applications. <i>Thin Solid Films</i> , 2020, 697, 137801.	1.8	27
10	Synthesis and characterization of iron oxide-hydroxyapatite-chitosan composite coating and its biological assessment for biomedical applications. <i>Progress in Organic Coatings</i> , 2021, 150, 106011.	3.9	26
11	Fabrication and Tribological Behavior of Stir Cast Mg/B4C Metal Matrix Composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5031-5045.	2.2	20
12	Accelerated Hot Corrosion Studies of D-Gun-Sprayed Cr2O3-50% Al2O3 Coating on Boiler Steel and Fe-Based Superalloy. <i>Oxidation of Metals</i> , 2017, 88, 621-648.	2.1	19
13	Characterization, electrochemical behavior and in vitro hemocompatibility of hydroxyapatite-bioglass-iron oxide-chitosan composite coating by electrophoretic deposition. <i>Surface and Coatings Technology</i> , 2021, 405, 126564.	4.8	19
14	A comparative study of corrosion resistance of biocompatible coating on titanium alloy and stainless steel. <i>Materials Chemistry and Physics</i> , 2019, 238, 121923.	4.0	18
15	Effect of additions of TiC and Re on high temperature corrosion performance of cold sprayed Ni-20Cr coatings. <i>Surface and Coatings Technology</i> , 2015, 280, 50-63.	4.8	17
16	Characterization of Hydroxyapatite Coating on 316L Stainless Steel by Sol-Gel Technique. <i>Surface Engineering and Applied Electrochemistry</i> , 2019, 55, 357-366.	0.8	15
17	Role of friction stir processing in improving wear behavior of Mg/SiC composites produced by stir casting route. <i>Materials Research Express</i> , 2019, 6, 026577.	1.6	15
18	Hot corrosion behavior of HVOF-sprayed carbide based composite coatings for boiler steel in Na2SO4-60 % V2O5 environment at 900 °C under cyclic conditions. <i>Corrosion Science</i> , 2021, 190, 109666.	6.6	14

#	ARTICLE	IF	CITATIONS
19	Electrophoretic deposition of Fe <sub>3</sub> O <sub>4</sub> nanoparticles incorporated hydroxyapatite-bioglass-chitosan nanocomposite coating on AZ91 Mg alloy. <i>Materials Today Communications</i> , 2021, 26, 101870.	1.9	13
20	Electrophoretic deposition of bioactive glass composite coating on biomaterials and electrochemical behavior study: A review. <i>Materials Today: Proceedings</i> , 2018, 5, 20160-20169.	1.8	12
21	High temperature oxidation behaviour and characterization of NiCrAlY-B <sub>4</sub> C coatings deposited by HVOF. <i>Materials Research Express</i> , 2019, 6, 086436.	1.6	9
22	Microstructural Refinement and Enhancement in Mechanical Properties of Magnesium/SiC as-Cast Composites via Friction Stir Processing Route. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 1313-1321.	1.5	9
23	High Temperature Oxidation Behaviour of HVOF Thermally Sprayed NiCrAlY Coating on T-91 Boiler Tube Steel. <i>Materials Today: Proceedings</i> , 2017, 4, 5259-5265.	1.8	8
24	Oxidation Behaviour of HVOF Sprayed NiCrAlY and NiCrAlY-20SiC Coatings on T-91 Boiler Tube Steel. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 134-150.	1.1	8
25	Synthesis and comparative sliding wear behavior of stir cast Mg and Mg/Al <sub>2</sub> O <sub>3</sub> metal matrix composites. <i>Materials Research Express</i> , 2019, 6, 076512.	1.6	7
26	Characterization of Thermal-Sprayed HAP and HAP/TiO <sub>2</sub> Coatings for Biomedical Applications. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 1356-1370.	3.1	6
27	Relative sliding wear behavior of Mg metal matrix composites fabricated by stir cast route. <i>Materials Research Express</i> , 2019, 6, 1065h1.	1.6	6
28	Analysis of in vitro corrosion behavior and hemocompatibility of electrophoretically deposited bioglass-chitosan-iron oxide coating for biomedical applications. <i>Journal of Materials Research</i> , 2020, 35, 1749-1761.	2.6	5
29	Comparison of Surface Coatings by Plasma Spray Technique and Biomimetic Deposition on Ti Alloy Substrate: Morphology, Composition, and Corrosion Resistance Property. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2019, 55, 583-590.	1.1	2