

Amit Bansal

List of Publications by Year in descending order

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26
papers

960
citations

516710

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docs citations

26
times ranked

241
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of addition of Al ₂ O ₃ on the high-temperature solid particle erosion behaviour of HVOF sprayed Inconel-718 coatings. <i>Materials Today Communications</i> , 2022, 30, 103017.	1.9	78
2	Microwave cladding of Inconel-625 on mild steel substrate for corrosion protection. <i>Materials Research Express</i> , 2020, 7, 026512.	1.6	76
3	Microwave heating and its applications in surface engineering: a review. <i>Materials Research Express</i> , 2019, 6, 102001.	1.6	73
4	Characterization of bulk stainless steel joints developed through microwave hybrid heating. <i>Materials Characterization</i> , 2014, 91, 34-41.	4.4	69
5	Mechanical and microstructural characterization of microwave post processed Alloy-718 coating. <i>Materials Research Express</i> , 2019, 6, 1265f5.	1.6	67
6	High temperature oxidation and erosion behaviour of HVOF sprayed bi-layer Alloy-718/NiCrAlY coating. <i>Surface and Coatings Technology</i> , 2019, 362, 366-380.	4.8	65
7	A study on processing and hot corrosion behaviour of HVOF sprayed Inconel718-nano Al ₂ O ₃ coatings. <i>Materials Today Communications</i> , 2020, 25, 101626.	1.9	61
8	Microstructure and Abrasive Wear Performance of Ni-Wc Composite Microwave Clad. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3708-3716.	2.5	50
9	An investigation on oxidation behaviour of high velocity oxy-fuel sprayed Inconel718-Al ₂ O ₃ composite coatings. <i>Surface and Coatings Technology</i> , 2020, 393, 125770.	4.8	46
10	Microstructural characterization and electrochemical corrosion behaviour of HVOF sprayed Alloy718-nanoAl ₂ O ₃ composite coatings. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 035003.	1.6	44
11	Erosion behaviour of HVOF sprayed Alloy718-nano Al ₂ O ₃ composite coatings on grey cast iron at elevated temperature conditions. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 035022.	1.6	40
12	Structure-Property Correlations in Microwave Joining of Inconel 718. <i>Jom</i> , 2015, 67, 2087-2098.	1.9	37
13	Investigation on microstructure and mechanical properties of the dissimilar weld between mild steel and stainless steel-316 formed using microwave energy. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 439-448.	2.4	33
14	ELECTROCHEMICAL CORROSION BEHAVIOR AND MICROSTRUCTURAL CHARACTERIZATION OF HVOF SPRAYED INCONEL718-Al ₂ O ₃ COMPOSITE COATINGS. <i>Surface Review and Letters</i> , 2022, 29, .	1.1	33
15	Metallurgical and mechanical characterization of mild steel-mild steel joint formed by microwave hybrid heating process. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2013, 38, 679-686.	1.3	32
16	Electrochemical Corrosion Behavior and Microstructural Characterization of HVOF Sprayed Inconel-718 Coating on Gray Cast Iron. <i>Journal of Failure Analysis and Prevention</i> , 2021, 21, 250-260.	0.9	29
17	Influence of heat treatment on the microstructure and corrosion properties of the Inconel-625 clad deposited by microwave heating. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 025019.	1.6	28
18	On microstructure and strength properties of microwave welded Inconel 718/ stainless steel (SS-316L). <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016, 230, 939-948.	1.1	26

#	ARTICLE	IF	CITATIONS
19	In situ surface modification of stainless steel with hydroxyapatite using microwave heating. Surface Topography: Metrology and Properties, 2021, 9, 035053.	1.6	25
20	Parametric optimization in wire EDM of D2 tool steel using Taguchi method. Materials Today: Proceedings, 2021, 45, 757-763.	1.8	15
21	A review on the oxidation and wear behavior of the thermally sprayed high-entropy alloys. Materials Today: Proceedings, 2022, 50, 1447-1451.	1.8	14
22	Application of microwave in welding of metallic materials – A review. Materials Today: Proceedings, 2021, 43, 466-470.	1.8	8
23	Microwave heating: Fundamentals and application in surface modification of metallic materials – A review. Materials Today: Proceedings, 2021, 43, 564-571.	1.8	4
24	Electrochemical corrosion and erosive wear behaviour of microwave processed WC-10Co4Cr clad on SS-316. Materials Today: Proceedings, 2022, 50, 1900-1905.	1.8	3
25	Hydroxyapatite reinforced surface modification of SS-316L by microwave processing. Surfaces and Interfaces, 2022, 28, 101701.	3.0	3
26	Comparative study of hot corrosion behavior of bare and plasma sprayed Al ₂ O ₃ -40%TiO ₂ coated T-91, A-1 boiler steel and Superfer800H superalloy in Na ₂ SO ₄ -60%V ₂ O ₅ salt environment. Surface Topography: Metrology and Properties, 2021, 9, 025029.	1.6	1