

Biswajit Kumar Swain

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

405
citations

840776

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888059

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docs citations

37
times ranked

120
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on NiTi alloys for biomedical applications and their biocompatibility. <i>Materials Today: Proceedings</i> , 2020, 33, 5548-5551.	1.8	47
2	Mechanical Properties of NiTi Plasma Spray Coating. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 741-755.	3.1	34
3	Failure analysis and materials development of gas turbine blades. <i>Materials Today: Proceedings</i> , 2020, 33, 5143-5146.	1.8	28
4	Mechanical and tribological properties evaluation of plasma-sprayed shape memory alloy coating. <i>Journal of Alloys and Compounds</i> , 2021, 863, 158599.	5.5	27
5	Parametric optimization of atmospheric plasma spray coating using fuzzy TOPSIS hybrid technique. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159074.	5.5	26
6	A brief review of shape memory effects and fabrication processes of NiTi shape memory alloys. <i>Materials Today: Proceedings</i> , 2020, 33, 5552-5556.	1.8	23
7	Development of Highly Durable Superhydrophobic Coatings by One-Step Plasma Spray Methodology. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 405-423.	3.1	22
8	A Review on the Processing of Aero-Turbine Blade Using 3D Print Techniques. <i>Journal of Manufacturing and Materials Processing</i> , 2022, 6, 16.	2.2	21
9	Solid particle erosion wear on plasma sprayed mild steel and copper surface. <i>Materials Today: Proceedings</i> , 2018, 5, 20403-20412.	1.8	17
10	Microstructural evolution of NITINOL and their species formed by atmospheric plasma spraying. <i>Surface Topography: Metrology and Properties</i> , 2019, 7, 015006.	1.6	16
11	Plasma spray parameters to optimize the properties of abrasion coating used in axial flow compressors of aero-engines to maintain blade tip clearance. <i>Materials Today: Proceedings</i> , 2020, 33, 5691-5697.	1.8	12
12	Sensitivity of Process Parameters in Atmospheric Plasma Spray Coating. <i>Journal of Thermal Spray and Engineering</i> , 2018, 1, 1-6.	0.4	12
13	Quality characterization of dissimilar laser welded joints of Ti6Al4V with AISI 304 by using copper deposition technique. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 4577-4591.	3.0	11
14	Wear: A Serious Problem in Industry. , 0, , .		11
15	Atmospheric Plasma Spray Coating of NiTi on Mild Steel Substrate: An Microstructural Investigation. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	10
16	Adhesion strength investigation of plasma sprayed NiTi coating. <i>Engineering Failure Analysis</i> , 2022, 140, 106368.	4.0	8
17	Surface modified mild steel and copper using homogenized fly-ash+quartz+ilmenite by plasma technology. <i>Materials Today: Proceedings</i> , 2020, 33, 5703-5708.	1.8	7
18	The enhancement of laminar jet cooling effectiveness at very high surface temperature by using Al 2 O 3 nanofluid as a coolant. <i>Heat Transfer</i> , 2020, 49, 1554-1567.	3.0	7

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19	Mechanical Properties Evaluation and Parametric Optimization of Atmospheric Plasma Spray NiTi Coating. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 8270-8284.	2.5	7
20	Multi-objective optimization of EDM process for titanium alloy. <i>Materials Today: Proceedings</i> , 2020, 33, 5526-5529.	1.8	6
21	Effect of powder feed rate on adhesion strength and microhardness of APS NiTi coating: a microstructural investigation. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 025039.	1.6	6
22	Interchanging characteristic of plasma spray coating from superhydrophobic to hydrophilic under the applied electric field. <i>Surface Engineering</i> , 2021, 37, 1328-1337.	2.2	6
23	Effect of Bauxite addition on Adhesion Strength and Surface Roughness of Fly ash based Plasma Sprayed Coatings. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 338, 012053.	0.6	5
24	The Boiling Phenomena and their Proper Identification and Discrimination Methodology. <i>Scientific Reports</i> , 2020, 10, 8381.	3.3	5
25	Metallic Glasses: A Revolution in Material Science. , 0, , .		5
26	Enhancement of thermal conductivity of Cu-Cr dispersed nanofluids according to multiscale modeling. <i>Materials Today: Proceedings</i> , 2020, 33, 5514-5520.	1.8	4
27	The Role of Slip and No Slip Behavior on Droplet Impingement. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2021, 143, .	1.5	4
28	The SDS and steel surface interaction behaviour in case of high mass flux spray cooling from very high temperature. <i>Corrosion Science</i> , 2019, 157, 508-517.	6.6	3
29	Fiber-reinforced ceramic matrix nanocomposites. , 2020, , 359-368.		3
30	Co-Axial Laminar Multiphase Jet: A Novel Methodology for the Attainment Enhancement in Transition Boiling Regime. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	1.5	3
31	The experimental and numerical investigation on the enhancement of stagnation and parallel zones of laminar jet. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100649.	2.7	2
32	Enhancement of Flow Boiling at Very High Initial Surface Temperature by Using Various Additives. <i>Journal of Thermal Science and Engineering Applications</i> , 2021, 13, .	1.5	2
33	Thermal spraying of NiTi alloy. , 2022, , 247-269.		2
34	Study of effective utilization of iron ore sinter through arc plasma. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 338, 012022.	0.6	1
35	Multi-objective optimization of WEDM process by hybrid methodology. <i>Materials Today: Proceedings</i> , 2020, 33, 5511-5513.	1.8	1
36	NiTi superhydrophobic materials. , 2022, , 139-149.		1

#	ARTICLE	IF	CITATIONS
37	The modelling of fluidized bed dryer for spherical and non spherical particles. Korean Journal of Chemical Engineering, 0, , 1.	2.7	0