

Biswajit Kumar Swain

List of Publications by Year in descending order

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37
papers

405
citations

840776

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37
all docs

37
docs citations

37
times ranked

120
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on the Processing of Aero-Turbine Blade Using 3D Print Techniques. Journal of Manufacturing and Materials Processing, 2022, 6, 16.	2.2	21
2	Thermal spraying of NiTi alloy. , 2022, , 247-269.		2
3	NiTi superhydrophobic materials. , 2022, , 139-149.		1
4	Mechanical Properties Evaluation and Parametric Optimization of Atmospheric Plasma Spray NiTi Coating. Journal of Materials Engineering and Performance, 2022, 31, 8270-8284.	2.5	7
5	Adhesion strength investigation of plasma sprayed NiTi coating. Engineering Failure Analysis, 2022, 140, 106368.	4.0	8
6	Enhancement of Flow Boiling at Very High Initial Surface Temperature by Using Various Additives. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	2
7	Development of Highly Durable Superhydrophobic Coatings by One-Step Plasma Spray Methodology. Journal of Thermal Spray Technology, 2021, 30, 405-423.	3.1	22
8	The Role of Slip and No Slip Behavior on Droplet Impingement. Journal of Fluids Engineering, Transactions of the ASME, 2021, 143, .	1.5	4
9	Mechanical and tribological properties evaluation of plasma-sprayed shape memory alloy coating. Journal of Alloys and Compounds, 2021, 863, 158599.	5.5	27
10	Atmospheric Plasma Spray Coating of NiTi on Mild Steel Substrate: An Microstructural Investigation. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	2.6	10
11	Parametric optimization of atmospheric plasma spray coating using fuzzy TOPSIS hybrid technique. Journal of Alloys and Compounds, 2021, 867, 159074.	5.5	26
12	Effect of powder feed rate on adhesion strength and microhardness of APS NiTi coating: a microstructural investigation. Surface Topography: Metrology and Properties, 2021, 9, 025039.	1.6	6
13	Interchanging characteristic of plasma spray coating from superhydrophobic to hydrophilic under the applied electric field. Surface Engineering, 2021, 37, 1328-1337.	2.2	6
14	Co-Axial Laminar Multiphase Jet: A Novel Methodology for the Attainment Enhancement in Transition Boiling Regime. Journal of Thermal Science and Engineering Applications, 2021, 13, .	1.5	3
15	The Boiling Phenomena and their Proper Identification and Discrimination Methodology. Scientific Reports, 2020, 10, 8381.	3.3	5
16	The experimental and numerical investigation on the enhancement of stagnation and parallel zones of laminar jet. Thermal Science and Engineering Progress, 2020, 19, 100649.	2.7	2
17	Plasma spray parameters to optimize the properties of abrasion coating used in axial flow compressors of aero-engines to maintain blade tip clearance. Materials Today: Proceedings, 2020, 33, 5691-5697.	1.8	12
18	A brief review of shape memory effects and fabrication processes of NiTi shape memory alloys. Materials Today: Proceedings, 2020, 33, 5552-5556.	1.8	23

#	ARTICLE	IF	CITATIONS
19	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
20	A review on NiTi alloys for biomedical applications and their biocompatibility. <i>Materials Today: Proceedings</i> , 2020, 33, 5548-5551.	1.8	47
21	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
22	Mechanical Properties of NiTi Plasma Spray Coating. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 741-755.	3.1	34
23	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
24	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
25	Multi-objective optimization of WEDM process by hybrid methodology. <i>Materials Today: Proceedings</i> , 2020, 33, 5511-5513.	1.8	1
26	Multi-objective optimization of EDM process for titanium alloy. <i>Materials Today: Proceedings</i> , 2020, 33, 5526-5529.	1.8	6
27	Fiber-reinforced ceramic matrix nanocomposites. , 2020, , 359-368.		3
28	Failure analysis and materials development of gas turbine blades. <i>Materials Today: Proceedings</i> , 2020, 33, 5143-5146.	1.8	28
29	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
30	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
31	Solid particle erosion wear on plasma sprayed mild steel and copper surface. <i>Materials Today: Proceedings</i> , 2018, 5, 20403-20412.	1.8	17
32	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
33	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
34	Sensitivity of Process Parameters in Atmospheric Plasma Spray Coating. <i>Journal of Thermal Spray and Engineering</i> , 2018, 1, 1-6.	0.4	12
35	Wear: A Serious Problem in Industry. , 0, , .		11
36	Metallic Glasses: A Revolution in Material Science. , 0, , .		5

#	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