Shiladitya Paul

List of Publications by Year
in descending order

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Version: 2024-02-01

68 papers	1,520 citations	331538 21 h-index	345118 36 g-index
71 all docs	71 docs citations	71 times ranked	1424 citing authors

#	Article	IF	Citations
1	Regulating the use of degraded oil/fat in deepâ€fat/oil food frying. Critical Reviews in Food Science and Nutrition, 1997, 37, 635-662.	5.4	190
2	Correlation between full width at half maximum (FWHM) of XRD peak with residual stress on ground surfaces. Philosophical Magazine, 2012, 92, 4194-4204.	0.7	102
3	Sintering characteristics of plasma sprayed zirconia coatings containing different stabilisers. Surface and Coatings Technology, 2009, 203, 1069-1074.	2.2	100
4	Numerical modelling of surface topography in superabrasive grinding. International Journal of Advanced Manufacturing Technology, 2008, 39, 29-38.	1.5	65
5	Effects of Impurity Content on the Sintering Characteristics of Plasma-Sprayed Zirconia. Journal of Thermal Spray Technology, 2007, 16, 798-803.	1.6	51
6	ENVIRONMENTALLY CONSCIOUS MACHINING AND GRINDING WITH CRYOGENIC COOLING. Machining Science and Technology, 2006, 10, 87-131.	1.4	47
7	Properties and Performance of High-Purity Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2007, 16, 804-808.	1.6	46
8	Influence of silica nanoparticles on corrosion resistance of sol-gel based coatings on mild steel. Surface and Coatings Technology, 2017, 324, 368-375.	2.2	46
9	Effect of Coating Thickness on the Characteristics and Dry Machining Performance of TiN Film Deposited on Cemented Carbide Inserts Using CFUBMS. Materials and Manufacturing Processes, 2011, 26, 1028-1033.	2.7	43
10	Thermal decomposition of precipitated fine aluminium trihydroxide. Scandinavian Journal of Metallurgy, 2004, 33, 211-219.	0.3	40
11	Impact of silica nanoparticles on the morphology and mechanical properties of sol-gel derived coatings. Surface and Coatings Technology, 2018, 342, 48-56.	2.2	39
12	A steady-state Bi-substrate technique for measurement of the thermal conductivity of ceramic coatings. Surface and Coatings Technology, 2006, 201, 1414-1420.	2.2	38
13	Corrosion Testing of Ni Alloy HVOF Coatings in High Temperature Environments for Biomass Applications. Journal of Thermal Spray Technology, 2013, 22, 316-327.	1.6	38
14	A Review on the Electrodeposition of Aluminum and Aluminum Alloys in Ionic Liquids. Coatings, 2021, 11, 80.	1.2	38
15	DYNAMICS of FAT/OIL DEGRADATION DURING FRYING BASED ON PHYSICAL PROPERTIES. Journal of Food Process Engineering, 1996, 19, 201-221.	1.5	35
16	Progress in Electrodeposition of Zinc and Zinc Nickel Alloys Using Ionic Liquids. Applied Sciences (Switzerland), 2020, 10, 5321.	1.3	33
17	Stiffness of Plasma Sprayed Thermal Barrier Coatings. Coatings, 2017, 7, 68.	1.2	29
18	Sacrificial Thermally Sprayed Aluminium Coatings for Marine Environments: A Review. Coatings, 2020, 10, 267.	1.2	28

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19	Corrosion Performance of Electrodeposited Zinc and Zinc-Alloy Coatings in Marine Environment. Corrosion and Materials Degradation, 2021, 2, 163-189.	1.0	26
20	EFFECT OF COOLANT PRESSURE, NOZZLE DIAMETER, IMPINGEMENT ANGLE AND SPOT DISTANCE IN HIGH PRESSURE COOLING WITH NEAT OIL IN TURNING Ti-6AL-4V. Machining Science and Technology, 2008, 12, 445-473.	1.4	24
21	Ionic Liquids and Deep Eutectic Solvents for CO2 Conversion Technologiesâ€"A Review. Materials, 2021, 14, 4519.	1.3	23
22	Use of thermally sprayed aluminium (TSA) coatings to protect offshore structures in submerged and splash zones. Surface and Coatings Technology, 2019, 374, 124-133.	2.2	22
23	Suspension and Solution Precursor Plasma and HVOF Spray: A Review. Journal of Thermal Spray Technology, 2022, 31, 1443-1475.	1.6	21
24	Evolution of Lattice Spacing of Gamma Double Prime Precipitates During Aging of Polycrystalline Ni-Base Superalloys: An In Situ Investigation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 574-585.	1.1	20
25	Assessing Coating Reliability Through Pore Architecture Evaluation. Journal of Thermal Spray Technology, 2010, 19, 779-786.	1.6	19
26	Temperature-Dependent Misfit Stress in Gamma Double Prime Strengthened Ni-Base Superalloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1860-1873.	1.1	19
27	Application of Micromagnetic Technique in Surface Grinding for Assessment of Surface Integrity. Materials and Manufacturing Processes, 2009, 24, 488-496.	2.7	18
28	Comparative Study of Corrosion Performance of HVOF-Sprayed Coatings Produced Using Conventional and Suspension WC-Co Feedstock. Journal of Thermal Spray Technology, 2018, 27, 1579-1593.	1.6	18
29	Effect of Grit Blasting Parameters on Surface and Near-Surface Properties of Different Metal Alloys. Journal of Thermal Spray Technology, 2021, 30, 251-269.	1.6	18
30	Study of cathodic reactions in defects of thermal spray aluminium coatings on steel in artificial seawater. Corrosion Science, 2021, 187, 109514.	3.0	18
31	The Effect of Temperature and Local pH on Calcareous Deposit Formation in Damaged Thermal Spray Aluminum (TSA) Coatings and Its Implication on Corrosion Mitigation of Offshore Steel Structures. Coatings, 2017, 7, 52.	1.2	17
32	Modelling of gas permeation through ceramic coatings produced by thermal spraying. Acta Materialia, 2008, 56, 874-883.	3.8	15
33	Study of surface integrity of ground bearing steel using Barkhausen noise technique. International Journal of Advanced Manufacturing Technology, 2012, 63, 771-783.	1.5	15
34	Thermally Sprayed Aluminum Coatings for the Protection of Subsea Risers and Pipelines Carrying Hot Fluids. Coatings, 2016, 6, 58.	1.2	15
35	Minimisation of specific cutting energy and back force in turning of AISI 1060 steel. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 2019-2029.	1.5	15
36	Natural Deposit Coatings on Steel during Cathodic Protection and Hydrogen Ingress. Coatings, 2015, 5, 816-829.	1.2	13

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37	The efficacy of back propagation neural network with delta bar delta learning in predicting the wear of carbide inserts in face milling. International Journal of Advanced Manufacturing Technology, 2006, 31, 434-442.	1.5	12
38	Effect of Microstructural Modifications on the Corrosion Resistance of CoCrFeMo0.85Ni Compositionally Complex Alloy Coatings. Coatings, 2019, 9, 695.	1.2	12
39	Effect of seawater constituents on the performance of thermal spray aluminum in marine environments. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 996-1004.	0.8	11
40	Performance evaluation of PVD TIALN coated carbide toolsvis-Ã-visuncoated carbide tool in turning of titanium alloy (Ti-6Al-4V) by simultaneous minimization of cutting energy, dimensional deviation and tool wear. Machining Science and Technology, 2019, 23, 368-384.	1.4	10
41	Microstructure and Thermal Analysis of Metastable Intermetallic Phases in High-Entropy Alloy CoCrFeMo0.85Ni. Materials, 2021, 14, 1073.	1.3	10
42	Thermally Sprayed Aluminum (TSA) Coatings for Extended Design Life of 22%Cr Duplex Stainless Steel in Marine Environments. Journal of Thermal Spray Technology, 2013, 22, 328-336.	1.6	9
43	Mitigating Localized Corrosion Using Thermally Sprayed Aluminum (TSA) Coatings on Welded 25% Cr Superduplex Stainless Steel. Journal of Thermal Spray Technology, 2015, 24, 629-636.	1.6	9
44	Using Variant Selection to Facilitate Accurate Fitting of Î³â€³ Peaks in Neutron Diffraction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 5421-5432.	1.1	9
45	Influence of Grit Blasting on Residual Stress Depth Profile and Dislocation Density in Different Metallic Substrates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 65-81.	1.1	9
46	Prediction of Thermal Spray Coatings Performance in Marine Environments by Combination of Laboratory and Field Tests. Coatings, 2021, 11, 320.	1.2	8
47	Erosion and Corrosion Resistance Performance of Laser Metal Deposited High-Entropy Alloy Coatings at Hellisheidi Geothermal Site. Materials, 2021, 14, 3071.	1.3	8
48	Progress in the Development of Electrodeposited Catalysts for Direct Liquid Fuel Cell Applications. Applied Sciences (Switzerland), 2022, 12, 501.	1.3	8
49	Grindability of plasma sprayed thermal barrier coating using super abrasive wheel. Transactions of the Institute of Metal Finishing, 2020, 98, 30-36.	0.6	7
50	Progress in Novel Electrodeposited Bond Coats for Thermal Barrier Coating Systems. Materials, 2021, 14, 4214.	1.3	7
51	Effects of Deposition Conditions and Counter Bodies on the Tribological Properties of Pulsed DC Magnetron Sputtered TiNâ€“MoS x Composite Coating. Tribology Letters, 2010, 37, 487-496.	1.2	5
52	Protection of hot subsea risers by using thermally sprayed aluminium. Anti-Corrosion Methods and Materials, 2017, 64, 299-305.	0.6	4
53	Transformation from human-readable documents and archives in arc welding domain to machine-interpretable data. Computers in Industry, 2021, 128, 103439.	5.7	4
54	Corrosion Control for Marine- and Land-Based Infrastructure Applications. , 2013, , 248-252.		4

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55	Effect of Corrosion Products and Deposits on the Damage Tolerance of TSA-Coated Steel in Artificial Seawater. Surfaces, 2022, 5, 113-126.	1.0	4
56	Effect of alloyed target vis-Ã-vis pure target on machining performance of TiAlN coating. International Journal of Advanced Manufacturing Technology, 2013, 66, 721-731.	1.5	3
57	A Comparison of the Potential Capability of SFS, SPS and HVSFS for the Production of Photocatalytic Titania Coatings. Journal of Thermal Spray Technology, 2017, 26, 161-172.	1.6	3
58	Performance Evaluation of a Hard Composite Solid Lubricant Coating When Dry Machining of High-carbon Steel. Tribology Transactions, 2018, 61, 100-110.	1.1	3
59	Hydrogen in Aluminium-Coated Steels Exposed to Synthetic Seawater. Surfaces, 2020, 3, 282-300.	1.0	3
60	Can Thermally Sprayed Aluminum (TSA) Mitigate Corrosion of Carbon Steel in Carbon Capture and Storage (CCS) Environments?. Journal of Thermal Spray Technology, 2017, 26, 184-194.	1.6	2
61	High speed moderate depth grinding of alumina and yittria stabilized zirconia. Advances in Materials and Processing Technologies, 2018, 4, 603-613.	0.8	2
62	Grinding of ceramics â€“ sintered ceramics versus ceramic coatings. Advances in Materials and Processing Technologies, 2018, 4, 538-547.	0.8	1
63	High speed moderate depth grinding of Ti-6Al-4V using monolayer cBN wheel. Advances in Materials and Processing Technologies, 2018, 4, 626-638.	0.8	1
64	Development of Suspension-Based Plasma and HVOF Spray TiO2 Coatings. , 2021, , .		1
65	A Preliminary Assessment of the â€˜Greennessâ€™ of Halide-Free Ionic Liquidsâ€”An MCDA Based Approach. Processes, 2021, 9, 1524.	1.3	1
66	Superabrasive Grinding Characteristics of Additively Manufactured Ti-6Al-4V. , 0, , 1.		1
67	Technological Innovations in Metals Engineering. Jom, 2019, 71, 651-654.	0.9	0
68	SU-F-T-416: Dosimetric Comparison of Coplanar and Non-Coplanar IMRT Plans for Peripheral Lung Lesion. Medical Physics, 2016, 43, 3558-3559.	1.6	0