Lalit Thakur

List of Publications by Year
in descending order

34	1,256	361045	433756
papers	citations	20 h-index	31 g-index

34	34	34	474
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An investigation on erosion behavior of HVOF sprayed WCâ€“CoCr coatings. Applied Surface Science, 2011, 258, 1225-1234.	3.1	95
2	Effect of addition of Al2O3 on the high-temperature solid particle erosion behaviour of HVOF sprayed Inconel-718 coatings. Materials Today Communications, 2022, 30, 103017.	0.9	78
3	Microwave heating and its applications in surface engineering: a review. Materials Research Express, 2019, 6, 102001.	0.8	73
4	A comparative study on slurry and dry erosion behaviour of HVOF sprayed WCâ€“CoCr coatings. Wear, 2013, 303, 405-411.	1.5	71
5	Mechanical and microstructural characterization of microwave post processed Alloy-718 coating. Materials Research Express, 2019, 6, 1265f5.	0.8	67
6	High temperature oxidation and erosion behaviour of HVOF sprayed bi-layer Alloy-718/NiCrAlY coating. Surface and Coatings Technology, 2019, 362, 366-380.	2.2	65
7	A study on processing and hot corrosion behaviour of HVOF sprayed Inconel718-nano Al2O3 coatings. Materials Today Communications, 2020, 25, 101626.	0.9	61
8	Mechanical and microstructural behaviour of wear resistant coatings on cast iron lathe machine beds and slides. Metallic Materials, 2018, 56, 55-63.	0.2	58
9	Performance of different coating materials against slurry erosion failure in hydrodynamic turbines: A review. Engineering Failure Analysis, 2020, 115, 104622.	1.8	56
10	A study of processing and slurry erosion behaviour of multi-walled carbon nanotubes modified HVOF sprayed nano-WC-10Co-4Cr coating. Surface and Coatings Technology, 2017, 309, 860-871.	2.2	50
11	Sliding and Abrasive Wear Behavior of WC-CoCr Coatings with Different Carbide Sizes. Journal of Materials Engineering and Performance, 2013, 22, 574-583.	1.2	49
12	An investigation on oxidation behaviour of high velocity oxy-fuel sprayed Inconel718-Al2O3 composite coatings. Surface and Coatings Technology, 2020, 393, 125770.	2.2	46
13	Microstructural characterization and electrochemical corrosion behaviour of HVOF sprayed Alloy718-nanoAl₂O₃ composite coatings. Surface Topography: Metrology and Properties, 2021, 9, 035003.	0.9	44
14	Erosion behaviour of HVOF sprayed Alloy718-nano Al₂O₃ composite coatings on grey cast iron at elevated temperature conditions. Surface Topography: Metrology and Properties, 2021, 9, 035022.	0.9	40
15	A study on erosive wear behavior of HVOF sprayed nanostructured WC-CoCr coatings. Journal of Mechanical Science and Technology, 2013, 27, 1461-1467.	0.7	35
16	Multi-objective Optimization of Rotary Ultrasonic Machining Parameters for Quartz Glass Using Taguchi-Grey Relational Analysis (GRA). Silicon, 2019, 11, 2033-2044.	1.8	35
17	Abrasive wear behavior of WC-10Co-4Cr cladding deposited by TIG welding process. International Journal of Refractory Metals and Hard Materials, 2020, 88, 105198.	1.7	35
18	An investigation on the parameter optimization and abrasive wear behaviour of nanostructured WC-10Co-4Cr TIG weld cladding. Surface and Coatings Technology, 2020, 386, 125474.	2.2	34

#	Article	IF	Citations
19	ELECTROCHEMICAL CORROSION BEHAVIOR AND MICROSTRUCTURAL CHARACTERIZATION OF HVOF SPRAYED INCONEL718-Al₂O₃COMPOSITE COATINGS. Surface Review and Letters, 2022, 29, .	0.5	33
20	Influence of heat treatment on surface properties of HVOF deposited WC and Ni-based powder coatings: a review. Surface Topography: Metrology and Properties, 2021, 9, 043002.	0.9	32
21	Parameter Optimization of Rotary Ultrasonic Machining on Quartz Glass Using Response Surface Methodology (RSM). Silicon, 2020, 12, 629-643.	1.8	29
22	Electrochemical Corrosion Behavior and Microstructural Characterization of HVOF Sprayed Inconel-718 Coating on Gray Cast Iron. Journal of Failure Analysis and Prevention, 2021, 21, 250-260.	0.5	29
23	An investigation on the development and wear performance of chromium-MWCNTs transformed HVOF sprayed nano-WC-CoCr coatings. Surface and Coatings Technology, 2020, 388, 125610.	2.2	26
24	HIGH-TEMPERATURE OXIDATION AND EROSION RESISTANCE OF NI-BASED THERMALLY-SPRAYED COATINGS USED IN POWER GENERATION MACHINERY: A REVIEW. Surface Review and Letters, 2022, 29, .	0.5	26
25	Solid Particle Erosion Behavior of WC-CoCr Nanostructured Coating. Tribology Transactions, 2013, 56, 781-788.	1.1	19
26	A study of tribological behaviour and optimization of WC-10Co-4Cr Cladding. Surface Engineering, 2021, 37, 70-79.	1.1	15
27	A Study on Micro-hardness and Tribological Behaviour of Nano-WCâ€“Coâ€“Cr/Multi-walled Carbon Nanotubes Reinforced AZ91D Magnesium Matrix Surface Composites. Transactions of the Indian Institute of Metals, 2017, 70, 2477-2483.	0.7	13
28	An investigation of normal and submerged condition on microstructural and tribological properties of friction stir processed AZ91-D magnesium alloy. Canadian Metallurgical Quarterly, 2017, 56, 94-103.	0.4	11
29	Effect of argon flow rate and standoff distance on the microstructure and wear behaviour of WC-CoCr TIG cladding. Journal of Physics: Conference Series, 2019, 1240, 012162.	0.3	10
30	A study of processing and parametric optimization of wear-resistant AZ91-TiB₂ composite fabricated by ultrasonic-assisted stir casting process. Surface Topography: Metrology and Properties, 2022, 10, 025024.	0.9	10
31	Microhardness and biological behavior of AZ91D-nHAp surface composite for bio-implants. Journal of Electrochemical Science and Engineering, 0, , .	1.6	5
32	Comparative analysis of micrometric and nano-metric WC-10Co-4Cr GTA cladding. Engineering Research Express, 0, , .	0.8	3
33	High Temperature Oxidation and Wear Resistant Bi-Layer Coating for Turbocharger Housing. , 0, , .		2
34	Effect of argon flow rate on the weld bead characteristics of TIG coating. IOP Conference Series: Materials Science and Engineering, 2020, 804, 012016.	0.3	1