Hitesh Vasudev

List of Publications by Year
in descending order

35	1,361	430874 18	414414 32
papers	citations	h-index	g-index

35	35	35	230
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comprehensive review on sustainable cold spray additive manufacturing: State of the art, challenges and future challenges. Journal of Cleaner Production, 2021, 310, 127606.	9.3	107
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.	1.9	78
3	Microwave cladding of Inconel-625 on mild steel substrate for corrosion protection. Materials Research Express, 2020, 7, 026512.	1.6	76
4	Microwave heating and its applications in surface engineering: a review. Materials Research Express, 2019, 6, 102001.	1.6	73
5	Mechanical and microstructural characterization of microwave post processed Alloy-718 coating. Materials Research Express, 2019, 6, 1265f5.	1.6	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.	4.8	65
7	Investigation on the effect of post weld heat treatment on microwave joining of the Alloy-718 weldment. Materials Research Express, 2019, 6, 086554.	1.6	63
8	Recent developments in the designing of deposition of thermal barrier coatings â€“ A review. Materials Today: Proceedings, 2020, 26, 1336-1342.	1.8	63
9	Microstructural characterization of BN thin films using RF magnetron sputtering method. Materials Today: Proceedings, 2020, 26, 2277-2282.	1.8	62
10	A study on processing and hot corrosion behaviour of HVOF sprayed Inconel718-nano Al2O3 coatings. Materials Today Communications, 2020, 25, 101626.	1.9	61
11	Performance of different coating materials against high temperature oxidation in boiler tubes â€“ A review. Materials Today: Proceedings, 2020, 26, 972-978.	1.8	59
12	Performance of different coating materials against slurry erosion failure in hydrodynamic turbines: A review. Engineering Failure Analysis, 2020, 115, 104622.	4.0	56
13	High temperature erosion behavior of plasma sprayed Al₂O₃ coating on AISI-304 stainless steel. World Journal of Engineering, 2021, 18, 760-766.	1.6	52
14	An investigation on oxidation behaviour of high velocity oxy-fuel sprayed Inconel718-Al2O3 composite coatings. Surface and Coatings Technology, 2020, 393, 125770.	4.8	46
15	Microstructural characterization and electrochemical corrosion behaviour of HVOF sprayed Alloy718-nanoAl₂O₃ composite coatings. Surface Topography: Metrology and Properties, 2021, 9, 035003.	1.6	44
16	Additive manufacturing: expanding 3D printing horizon in industry 4.0. International Journal on Interactive Design and Manufacturing, 2023, 17, 2221-2235.	2.2	43
17	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.	1.6	40
18	ELECTROCHEMICAL CORROSION BEHAVIOR AND MICROSTRUCTURAL CHARACTERIZATION OF HVOF SPRAYED INCONEL718-Al₂O₃COMPOSITE COATINGS. Surface Review and Letters, 2022, 29, .	1.1	33

#	Article	IF	Citations
19	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.	1.6	32
20	Hot corrosion behavior of super alloys. Materials Today: Proceedings, 2020, 26, 1131-1135.	1.8	31
21	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.	0.9	29
22	Influence of heat treatment on the microstructure and corrosion properties of the Inconel-625 clad deposited by microwave heating. Surface Topography: Metrology and Properties, 2021, 9, 025019.	1.6	28
23	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, .	1.1	26
24	In situ surface modification of stainless steel with hydroxyapatite using microwave heating. Surface Topography: Metrology and Properties, 2021, 9, 035053.	1.6	25
25	Corrosion and Tribological Behaviour of BN Thin Films Deposited Using Magnetron Sputtering. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2021, 9, 24-39.	0.4	18
26	A REVIEW ON THE INFLUENCE OF PROCESS PARAMETERS AND HEAT TREATMENT ON THE CORROSION PERFORMANCE OF NI-BASED THERMAL SPRAY COATINGS. Surface Review and Letters, 2022, 29, .	1.1	16
27	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
28	A review on the development of thermal barrier coatings by using thermal spray techniques. Materials Today: Proceedings, 2022, 50, 1458-1464.	1.8	12
29	A short note on the various thermal spray coating processes and effect of post-treatment on Ni-based coatings. Materials Today: Proceedings, 2021, , .	1.8	11
30	PERFORMANCE OF THERMALLY SPRAYED HYDROXYAPATITE COATINGS FOR BIOMEDICAL IMPLANTS: A COMPREHENSIVE REVIEW. Surface Review and Letters, 2023, 30, .	1.1	8
31	A Short Note on the Processing of Materials Through Microwave Route. Lecture Notes in Mechanical Engineering, 2020, , 101-111.	0.4	7
32	A short review on the performance of high velocity oxy-fuel coatings in boiler steel applications. Materials Today: Proceedings, 2022, 50, 1442-1446.	1.8	6
33	Wear Characteristics of Ni-WC Powder Deposited by Using a Microwave Route on Mild Steel. International Journal of Surface Engineering and Interdisciplinary Materials Science, 2020, 8, 44-54.	0.4	4
34	Application of Thermal Spraying Techniques Used for the Surface Protection of Boiler Tubes in Power Plants. Advances in Chemical and Materials Engineering Book Series, 2021, , 112-134.	0.3	4
35	High Temperature Oxidation and Wear Resistant Bi-Layer Coating for Turbocharger Housing. , 0, , .		2