Sunil Kumar

List of Publications by Year
in descending order

33	451	932766 10	839053 18
papers	citations	h-index	g-index

35	35	35	237
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comprehensive structural, nanomechanical and tribological evaluation of silver doped DLC thin film coating with chromium interlayer (Ag-DLC/Cr) for biomedical application. Ceramics International, 2020, 46, 22805-22818.	2.3	61
2	Friction and tribological behavior of bare nitrided, TiAlN and AlCrN coated MDC-K hot work tool steel. Ceramics International, 2020, 46, 17280-17294.	2.3	55
3	Status of nickel free stainless steel in biomedical field: A review of last 10 years and what else can be done. Materials Today: Proceedings, 2020, 26, 638-643.	0.9	44
4	Mechanical and tribological assessment of composite AlCrN or a-C:Ag-based thin films for implant application. Ceramics International, 2021, 47, 6736-6752.	2.3	32
5	Effect of tribological process parameters on the wear and frictional behaviour of Cr-(CrN/TiN) composite coating: An experimental and analytical study. Ceramics International, 2021, 47, 16018-16028.	2.3	30
6	Effect of heat treatment and TiN coating on AISI O1 cold work tool steel. Materials Today: Proceedings, 2020, 26, 685-688.	0.9	26
7	Modeling of wear parameters and multi-criteria optimization by Box-Behnken design of AlCrN thin film against gamma-irradiated Ti6Al4V counterbody. Ceramics International, 2021, 47, 20494-20511.	2.3	22
8	Optimization of surface roughness and material removal rate in milling of AISI 1005 carbon steel using Taguchi approach. Materials Today: Proceedings, 2020, 22, 654-658.	0.9	19
9	Effect of lubricated sliding wear against CFRPEEK on the nanomechanical properties of Ag alloyed Cr/DLC thin film. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 118, 104478.	1.5	17
10	Lubricated sliding of CFRPEEK/AlCrN film tribo-pair and its effect on the mechanical properties and structural integrity of the AlCrN film. Materials Chemistry and Physics, 2021, 273, 124980.	2.0	14
11	Morphology and Wear Behavior of Monolayer TiAlN and Composite AlCrN/TiAlN-Coated Plasma-Nitrided DAC-10 Tool Steel. Arabian Journal for Science and Engineering, 2022, 47, 15519-15538.	1.7	12
12	Application of Box-Behnken Method for Multi-response Optimization of Turning Parameters for DAC-10 Hot Work Tool Steel. Lecture Notes in Mechanical Engineering, 2021, , 407-415.	0.3	11
13	Die casting parameters and simulations for crankcase of automobile using MAGMAsoft. Materials Today: Proceedings, 2020, 22, 563-571.	0.9	10
14	Wear assessment of Cr₂O₃â€“TiAlNâ€coated DACâ€10 tool steel against steel and Al₂O₃ counterbodies. International Journal of Applied Ceramic Technology, 2022, 19, 1678-1690.	1.1	10
15	DLC/CrN or AlCrN/CrN composite films: The better candidate in terms of anti-Wear performance and lesser ion release in hip implant. Materials Today: Proceedings, 2021, 44, 1214-1220.	0.9	9
16	A comparative study on wear behaviors of hot work and cold work tool steel with same hardness under dry sliding tribological test. Materials Today: Proceedings, 2021, 44, 949-954.	0.9	9
17	Mechanical and Scratch behaviour of TiAlN Coated and 3D Printed H13 Tool Steel. Advances in Materials and Processing Technologies, 0, , 1-15.	0.8	8
18	A novel BWM integrated MABAC decision-making approach to optimize the wear parameter of CrN/TiAlSiN coating. Journal of Industrial and Management Optimization, 2023, 19, 2676-2703.	0.8	8

#	Article	IF	Citations
19	Relation between mechanical and tribological properties of plasma nitrided and TiCrN coated YXR-7 tool steel. AIP Conference Proceedings, 2021, , .	0.3	7
20	Comparative study on the structural make-up and mechanical behavior of silicon and silver doped amorphous carbon films. Silicon, 0, , 1.	1.8	7
21	Evaluation of Crack resistance and Adhesive Energy of AlCrN and Ag doped a-C Films deposited on Chrome Nitrided 316 LVM Stainless Steel. Advances in Materials and Processing Technologies, 0, , 1-22.	0.8	6
22	Effect of annealing on structural, mechanical and tribological properties of Cr-(CrN/TiAlN) coating. Advances in Materials and Processing Technologies, 0, , 1-14.	0.8	6
23	Evaluation of Gamma irradiated Ti6Al4V and Silver alloyed a-C coatings as friction pair via Response Surface Methodology. Advances in Materials and Processing Technologies, 0, , 1-18.	0.8	6
24	Wear parameter optimization for CrN/TiAlSiN coating using novel BWM integrated TODIM decision-making approach. International Journal on Interactive Design and Manufacturing, 2023, 17, 579-601.	1.3	6
25	Relative effect of wear parameters on the wear behavior of TiAlN coated tool steel and parametric optimization using MCDM method. Advances in Materials and Processing Technologies, 2022, 8, 1961-1982.	0.8	5
26	Structural and corrosion study of a-C film with Ti, Cr and Ni interlayers. AIP Conference Proceedings, 2021, , .	0.3	4
27	A Review on Slug Reversal During Punching And Blanking. Materials Today: Proceedings, 2019, 18, 2745-2752.	0.9	3
28	Behavioral studies of process parameters and transient numerical analysis on friction stir welded dissimilar alloys. Materials Today: Proceedings, 2021, 37, 643-647.	0.9	3
29	Study of degradation of quality of soyabean biodiesel with storage time and its emissions on various loads. Materials Today: Proceedings, 2018, 5, 23177-23192.	0.9	1
30	A Comparative Study of Chain Clamping Fixture with Other Clamping Methods for Gate Valve Body: Cycle Time and Rigidity Study. MATEC Web of Conferences, 2016, 77, 01033.	0.1	0
31	Design and development of a special purpose machine for glass insertion in plastic frame for spill guard glass shelf assembly of commercial refrigerators. , 2017, , .		0
32	Box-Behnken Analysis Of Surface Modification Of Aluminium Alloy AA6061 Using Roller Burnishing. Materials Today: Proceedings, 2019, 18, 4613-4621.	0.9	0
33	Enhancement of microstructure and mechanical performance of spray formed Al-6Si-18Pb alloy by warm rolling. Advances in Materials and Processing Technologies, 0, , 1-15.	0.8	0