

Sunil Kumar

List of Publications by Citations

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papers

237
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367
ext. citations

1.9
avg, IF

4.83
L-index

#	Paper	IF	Citations
33	Comprehensive structural, nanomechanical and tribological evaluation of silver doped DLC thin film coating with chromium interlayer (Ag-DLC/Cr) for biomedical application. <i>Ceramics International</i> , 2020 , 46, 22805-22818	5.1	33
32	Friction and tribological behavior of bare nitrided, TiAlN and AlCrN coated MDC-K hot work tool steel. <i>Ceramics International</i> , 2020 , 46, 17280-17294	5.1	33
31	Mechanical and tribological assessment of composite AlCrN or a-C:Ag-based thin films for implant application. <i>Ceramics International</i> , 2021 , 47, 6736-6752	5.1	24
30	Status of nickel free stainless steel in biomedical field: A review of last 10 years and what else can be done. <i>Materials Today: Proceedings</i> , 2020 , 26, 638-643	1.4	21
29	Effect of heat treatment and TiN coating on AISI O1 cold work tool steel. <i>Materials Today: Proceedings</i> , 2020 , 26, 685-688	1.4	17
28	Optimization of surface roughness and material removal rate in milling of AISI 1005 carbon steel using Taguchi approach. <i>Materials Today: Proceedings</i> , 2020 , 22, 654-658	1.4	13
27	Effect of lubricated sliding wear against CFRPEEK on the nanomechanical properties of Ag alloyed Cr/DLC thin film. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 118, 104478	4.1	11
26	Effect of tribological process parameters on the wear and frictional behaviour of Cr-(CrN/TiN) composite coating: An experimental and analytical study. <i>Ceramics International</i> , 2021 , 47, 16018-16028	5.1	11
25	Modeling of wear parameters and multi-criteria optimization by Box-Behnken design of AlCrN thin film against gamma-irradiated Ti6Al4V counterbody. <i>Ceramics International</i> , 2021 , 47, 20494-20511	5.1	11
24	Lubricated sliding of CFRPEEK/AlCrN film tribo-pair and its effect on the mechanical properties and structural integrity of the AlCrN film. <i>Materials Chemistry and Physics</i> , 2021 , 273, 124980	4.4	9
23	Application of Box-Behnken Method for Multi-response Optimization of Turning Parameters for DAC-10 Hot Work Tool Steel. <i>Lecture Notes in Mechanical Engineering</i> , 2021 , 407-415	0.4	7
22	DLC/CrN or AlCrN/CrN composite films: The better candidate in terms of anti-Wear performance and lesser ion release in hip implant. <i>Materials Today: Proceedings</i> , 2021 , 44, 1214-1220	1.4	6
21	A comparative study on wear behaviors of hot work and cold work tool steel with same hardness under dry sliding tribological test. <i>Materials Today: Proceedings</i> , 2021 , 44, 949-954	1.4	5
20	Comparative study on the structural make-up and mechanical behavior of silicon and silver doped amorphous carbon films. <i>Silicon</i> , 1	2.4	4
19	Effect of annealing on structural, mechanical and tribological properties of Cr-(CrN/TiAlN) coating. <i>Advances in Materials and Processing Technologies</i> , 1-14	0.8	4
18	Wear assessment of Cr ₂ O ₃ /TiAlN-coated DAC-10 tool steel against steel and Al ₂ O ₃ counterbodies. <i>International Journal of Applied Ceramic Technology</i> ,	2	3
17	Mechanical and Scratch behaviour of TiAlN Coated and 3D Printed H13 Tool Steel. <i>Advances in Materials and Processing Technologies</i> , 1-15	0.8	3

16	Evaluation of Crack resistance and Adhesive Energy of AlCrN and Ag doped a-C Films deposited on Chrome Nitrided 316 LVM Stainless Steel. <i>Advances in Materials and Processing Technologies</i> ,1-22	0.8	3
15	Evaluation of Gamma irradiated Ti6Al4V and Silver alloyed a-C coatings as friction pair via Response Surface Methodology. <i>Advances in Materials and Processing Technologies</i> ,1-18	0.8	3
14	Die casting parameters and simulations for crankcase of automobile using MAGMASoft. <i>Materials Today: Proceedings</i> , 2020 , 22, 563-571	1.4	3
13	A Review on Slug Reversal During Punching And Blanking. <i>Materials Today: Proceedings</i> , 2019 , 18, 2745-2752	1.4	2
12	Relation between mechanical and tribological properties of plasma nitrided and TiCrN coated YXR-7 tool steel 2021 ,		2
11	Structural and corrosion study of a-C film with Ti, Cr and Ni interlayers 2021 ,		2
10	Morphology and Wear Behavior of Monolayer TiAlN and Composite AlCrN/TiAlN-Coated Plasma-Nitrided DAC-10 Tool Steel. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	2
9	Behavioral studies of process parameters and transient numerical analysis on friction stir welded dissimilar alloys. <i>Materials Today: Proceedings</i> , 2021 , 37, 643-647	1.4	1
8	Study of degradation of quality of soyabean biodiesel with storage time and its emissions on various loads. <i>Materials Today: Proceedings</i> , 2018 , 5, 23177-23192	1.4	1
7	Relative effect of wear parameters on the wear behavior of TiAlN coated tool steel and parametric optimization using MCDM method. <i>Advances in Materials and Processing Technologies</i> ,1-22	0.8	1
6	A novel BWM integrated MABAC decision-making approach to optimize the wear parameter of CrN/TiAlSiN coating. <i>Journal of Industrial and Management Optimization</i> , 2022 ,	2	1
5	Design and Simulation Study of HPDC for Automotive Parts Pinion Housing Based on ADSTFEAN Simulation System. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 171-184	0.4	
4	Conceptualization of a Machining Fixture for Machining Cylinder Block on a Horizontal Machining Center. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 185-204	0.4	
3	A Comparative Study of Chain Clamping Fixture with Other Clamping Methods for Gate Valve Body: Cycle Time and Rigidity Study. <i>MATEC Web of Conferences</i> , 2016 , 77, 01033	0.3	
2	Box-Behnken Analysis Of Surface Modification Of Aluminium Alloy AA6061 Using Roller Burnishing. <i>Materials Today: Proceedings</i> , 2019 , 18, 4613-4621	1.4	
1	Enhancement of microstructure and mechanical performance of spray formed Al-6Si-18Pb alloy by warm rolling. <i>Advances in Materials and Processing Technologies</i> ,1-15	0.8	