Sunil Kumar

List of Publications by Year in Descending Order

33 papers	237 citations	9 h-index	14 g-index
35 ext. papers	367 ext. citations	1.9 avg, IF	4.83 L-index

#	Paper	IF	Citations
33	A novel BWM integrated MABAC decision-making approach to optimize the wear parameter of CrN/TiAlSiN coating. *Journal of Industrial and Management Optimization*, **2022**,	2	1
32	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	4.1	11
31	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	5.1	11
30	Behavioral studies of process parameters and transient numerical analysis on friction stir welded dissimilar alloys. *Materials Today: Proceedings*, **2021**, 37, 643-647	1.4	1
29	Mechanical and tribological assessment of composite AlCrN or a-C:Ag-based thin films for implant application. *Ceramics International*, **2021**, 47, 6736-6752	5.1	24
28	Relation between mechanical and tribological properties of plasma nitrided and TiCrN coated YXR-7 tool steel **2021**,		2
27	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	1.4	6
26	Structural and corrosion study of a-C film with Ti, Cr and Ni interlayers **2021**,		2
25	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	0.4	7
24	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	5.1	11
23	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	4.4	9
22	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	1.4	5
21	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	5.1	33
20	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	1.4	21
19	Friction and tribological behavior of bare nitrided, TiAlN and AlCrN coated MDC-K hot work tool steel. *Ceramics International*, **2020**, 46, 17280-17294	5.1	33
18	Design and Simulation Study of HPDC for Automotive Parts Pinion Housing Based on ADSTFEAN Simulation System. *Lecture Notes in Mechanical Engineering*, **2020**, 171-184	0.4	
17	Conceptualization of a Machining Fixture for Machining Cylinder Block on a Horizontal Machining Center. *Lecture Notes in Mechanical Engineering*, **2020**, 185-204	0.4	

List of Publications

16	Effect of heat treatment and TiN coating on AISI O1 cold work tool steel. *Materials Today: Proceedings*, **2020**, 26, 685-688	1.4	17
15	Die casting parameters and simulations for crankcase of automobile using MAGMAsoft. *Materials Today: Proceedings*, **2020**, 22, 563-571	1.4	3
14	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	1.4	13
13	Box-Behnken Analysis Of Surface Modification Of Aluminium Alloy AA6061 Using Roller Burnishing. *Materials Today: Proceedings*, **2019**, 18, 4613-4621	1.4	
12	A Review on Slug Reversal During Punching And Blanking. *Materials Today: Proceedings*, **2019**, 18, 2745-2752	1.4	2
11	Study of degradation of quality of soyabean biodiesel with storage time and its emissions on various loads. *Materials Today: Proceedings*, **2018**, 5, 23177-23192	1.4	1
10	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	0.3	
9	Comparative study on the structural make-up and mechanical behavior of silicon and silver doped amorphous carbon films. *Silicon*,1	2.4	4
8	Wear assessment of Cr2O3-/TiAlN-coated DAC-10 tool steel against steel and Al2O3 counterbodies. *International Journal of Applied Ceramic Technology*,	2	3
7	Mechanical and Scratch behaviour of TiAlN Coated and 3D Printed H13 Tool Steel. *Advances in Materials and Processing Technologies*,1-15	0.8	3
6	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*,1-22	0.8	3
5	Effect of annealing on structural, mechanical and tribological properties of Cr-(CrN/TiAlN) coating. *Advances in Materials and Processing Technologies*,1-14	0.8	4
4	Evaluation of Gamma irradiated Ti6Al4V and Silver alloyed a-C coatings as friction pair via Response Surface Methodology. *Advances in Materials and Processing Technologies*,1-18	0.8	3
3	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*,1-22	0.8	1
2	Morphology and Wear Behavior of Monolayer TiAlN and Composite AlCrN/TiAlN-Coated Plasma-Nitrided DAC-10 Tool Steel. *Arabian Journal for Science and Engineering*,1	2.5	2
1	Enhancement of microstructure and mechanical performance of spray formed Al-6Si-18Pb alloy by warm rolling. *Advances in Materials and Processing Technologies*,1-15	0.8	