

PatnaikL

List of Publications by Year in descending order

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32
papers

447
citations

932766

10
h-index

839053

18
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34
all docs

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docs citations

34
times ranked

233
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. <i>Ceramics International</i> , 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. <i>Ceramics International</i> , 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. <i>Materials Today: Proceedings</i> , 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. <i>Ceramics International</i> , 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. <i>Ceramics International</i> , 2021, 47, 16018-16028.	2.3	30
6	Effect of heat treatment and TiN coating on AISI O1 cold work tool steel. <i>Materials Today: Proceedings</i> , 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. <i>Ceramics International</i> , 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. <i>Materials Today: Proceedings</i> , 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. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 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. <i>Materials Chemistry and Physics</i> , 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. <i>Arabian Journal for Science and Engineering</i> , 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. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 407-415.	0.3	11
13	Die casting parameters and simulations for crankcase of automobile using MAGMASoft. <i>Materials Today: Proceedings</i> , 2020, 22, 563-571.	0.9	10
14	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> , 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. <i>Materials Today: Proceedings</i> , 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. <i>Materials Today: Proceedings</i> , 2021, 44, 949-954.	0.9	9
17	Mechanical and Scratch behaviour of TiAlN Coated and 3D Printed H13 Tool Steel. <i>Advances in Materials and Processing Technologies</i> , 0, , 1-15.	0.8	8
18	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> , 2023, 19, 2676-2703.	0.8	8

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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	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
29	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
30	Box-Behnken Analysis Of Surface Modification Of Aluminium Alloy AA6061 Using Roller Burnishing. Materials Today: Proceedings, 2019, 18, 4613-4621.	0.9	0
31	Computational Wear Analysis of Acetabular Cup for Various Daily Activities with Different Biomaterials. Learning and Analytics in Intelligent Systems, 2020, , 119-128.	0.5	0
32	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