

S Arulvel

List of Publications by Year in descending order

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papers

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23
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citing authors

#	ARTICLE	IF	CITATIONS
1	Combined effects of composite thermal energy storage and magnetic field to enhance productivity in solar desalination. <i>Renewable Energy</i> , 2022, 181, 219-234.	4.3	17
2	Effect of Compaction Pressure on the Physical, Mechanical, and Tribological Behavior of Compacted Crab Shell Particles Prepared Using Uniaxial Compaction Route. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 3493-3507.	1.2	5
3	Friction and wear properties of short time heat-treated and laser surface re-melted NiCr-WC composite coatings at various dry sliding conditions. <i>Journal of Materials Research and Technology</i> , 2022, 17, 3080-3104.	2.6	9
4	Calcium hexaboride reinforced Nickel-Phosphorus composite coating for increasing the wear properties of low carbon steel. <i>Materials Today: Proceedings</i> , 2021, 43, 851-856.	0.9	2
5	A review on the steels, alloys/high entropy alloys, composites and coatings used in high temperature wear applications. <i>Materials Today: Proceedings</i> , 2021, 43, 817-823.	0.9	31
6	Assessment on the impact of FSP process parameters on microstructural, mechanical and wear behaviour of FSPed AA6082. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 015016.	0.9	1
7	A novel water quench approach for enhancing the surface characteristics of electroless nickel phosphorous deposit. <i>Surfaces and Interfaces</i> , 2021, 23, 100975.	1.5	6
8	A comprehensive review on mechanical and surface characteristics of composites reinforced with coated fibres. <i>Surfaces and Interfaces</i> , 2021, 27, 101449.	1.5	24
9	Effective role of short time furnace heat treatment and laser treatment on the residual stress and mechanical properties of NiCrBSi-WC weldments produced using plasma transferred arc welding process. <i>Journal of Materials Research and Technology</i> , 2021, 15, 3492-3513.	2.6	10
10	Enhancement of the hardness and wear-resistance of aluminum-silicon alloy using atmospheric plasma-sprayed ZrO_2 , Al_2O_3 - ZrO_2 multilayer, and Al_2O_3/ZrO_2 composite coatings. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 025027.	0.9	5
11	Development of multi-pass processed AA6082/SiCp surface composite using friction stir processing and its mechanical and tribology characterization. <i>Surface and Coatings Technology</i> , 2020, 394, 125900.	2.2	35
12	Significance of tribolayer on the friction and wear resistance of FSPed AA6082/SiCp composite at various load conditions. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 025037.	0.9	3
13	Optimization of electroless bath process parameter for improving the tribology behavior of Ni-P/CaBr ₂ composite coating against the hardened EN-31 steel. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 025038.	0.9	1
14	Friction and wear measurements of friction stir processed aluminium alloy 6082/CaCO ₃ composite. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 142, 10-20.	2.5	48
15	Partial dissolution of precipitated-calcium carbonate (P-CaCO ₃) in electroless nickel-phosphorus (Ni-P) coating and its surface characterization. <i>Materials Research Express</i> , 2019, 6, 066409.	0.8	5
16	Comparative study on the friction-wear property of As-plated, Nd-YAG laser treated, and heat treated electroless Nickel-Phosphorus/Crab shell particle composite coatings on mild steel. <i>Surface and Coatings Technology</i> , 2019, 357, 543-558.	2.2	16
17	Controlling adhesive wear failure of nickel-phosphorus coating at high load condition using crab shell particle as reinforcement. <i>Engineering Failure Analysis</i> , 2018, 90, 310-323.	1.8	28
18	Electroless nickel phosphorus coating on crab shell particles and its characterization. <i>Journal of Solid State Chemistry</i> , 2017, 248, 87-95.	1.4	25

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19	Impact of nano zinc oxide on the friction & Wear property of electroless nickel-phosphorus sea shell composite coatings. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 225, 160-172.	1.7	11
20	Discussion on the feasibility of using proteinized/deproteinized crab shell particles for coating applications: Synthesis and characterization. Journal of Environmental Chemical Engineering, 2016, 4, 3891-3899.	3.3	13
21	The role of calcinated sea shell particles on friction-wear behavior of electroless NiP coating: Fabrication and characterization. Surface and Coatings Technology, 2016, 304, 492-501.	2.2	27
22	Wear characteristics of electroless NiP/bio-composite coatings on En8 steel. Journal of Manufacturing Processes, 2015, 20, 206-214.	2.8	30
23	Tribology Characterization of Plasma Sprayed Zirconia-Alumina and Fused Zirconia-Alumina Composite Coated Al-Si Alloy at Different Sliding Velocity and Load Conditions. Silicon, 0, , 1.	1.8	1