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Tribology  
Electroless coating  
Metal Matrix composites  
Friction stir processing  
Surface coating- Desalination

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<a href="#">A review on the steels, alloys/high entropy alloys, composites and coatings used in high temperature wear applications</a> VM Gopinath, S Arulvel Materials Today: Proceedings	1	2020
<a href="#">Numerical study of titanium oxide nanoparticle enhanced energy storage material in solar desalination</a> DDW Rufuss, S Arulvel, S Iniyan, L Suganthi Materials Today: Proceedings		2020
<a href="#">Optimization of electroless bath process parameter for improving the tribology behavior of Ni-P/CaBr<sub>2</sub> composite coating against the hardened EN-31 steel</a> A Premkumar, A Elayaperumal, S Arulvel, MS Jagatheeshwaran, ... Surface Topography: Metrology and Properties		2020
<a href="#">Significance of tribolayer on the friction and wear resistance of FSPed AA6082/SiCp composite at various load conditions</a> M Sivanesh Prabhu, A Elayaperumal, S Arulvel, M Wasim Khan Surface Topography: Metrology and Properties	1 *	2020
<a href="#">Enhancement of the hardness and wear-resistance of aluminum-silicon alloy using atmospheric plasma-sprayed ZrO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> multilayer, and Al<sub>2</sub>O<sub>3</sub>/ZrO<sub>2</sub> composite coatings</a> S Mohamed Abbas, A Elayaperumal, S Arulvel Surface Topography: Metrology and Properties		2020
<a href="#">Development of multi-pass processed AA6082/SiCp surface composite using friction stir processing and its mechanical and tribology characterization</a> M Sivanesh Prabhu, A Elayaperumal, S Arulvel Surface and Coatings Technology, 125900	1	2020
<a href="#">Structural and Mechanical Design of Solar Tracking System</a> UO D. Billy, J. Paulmar Pushparaj, M. Vetrivel Sezhian, S. Arulvel International Journal of Engineering and Advanced Technology (IJEAT) 8 (6S3 ...		2019
<a href="#">Friction and wear measurements of friction stir processed aluminium alloy 6082/CaCO<sub>3</sub> composite</a> M Sivanesh Prabhu, A Elayaperumal, S Arulvel, RF Issac Measurement 142, 10-20	16	2019

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<a href="#">Partial dissolution of precipitated-calcium carbonate (P-CaCO<sub>3</sub>) in electroless Nickel-phosphorus (Ni-P) coating and its surface characterization</a> A Premkumar, A Elayaperumal, S Arulvel, MS Jagatheeshwaran Materials Research Express 6 (6), 066409	3	2019
<a href="#">Friction-wear behavior of shot peened aluminium 7075-T651 alloy</a> M. Abeens, R. Muruganatham, S. Arulvel Indian Journal of Engineering & Materials Sciences 26, 20 - 26	4 *	2019
<a href="#">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 ...</a> S Arulvel, A Elayaperumal, MS Jagatheeshwaran Surface and Coatings Technology 357, 543-558	6	2019
<a href="#">Controlling adhesive wear failure of nickel-phosphorus coating at high load condition using crab shell particle as reinforcement</a> S Arulvel, A Elayaperumal, MS Jagatheeshwaran Engineering Failure Analysis 90, 310-323	13	2018
<a href="#">Impact of nano zinc oxide on the friction–Wear property of electroless nickel-phosphorus sea shell composite coatings</a> MS Jagatheeshwaran, A Elayaperumal, S Arulvel Materials Science and Engineering: B 225, 160-172	7	2017
<a href="#">CFD Analysis of Automobile Rear Dynamic Spoiler</a> MS Sivanesh Prabhu. M, Arulvel. S International Journal of Scientific & Engineering Research 8 (8), 1431-1435		2017
<a href="#">Electroless nickel–phosphorus coating on crab shell particles and its characterization</a> S Arulvel, A Elayaperumal, MS Jagatheeshwaran Journal of Solid State Chemistry 248, 87-95	15	2017
<a href="#">Discussion on the feasibility of using proteinized/deproteinized crab shell particles for coating applications: synthesis and characterization</a> S Arulvel, A Elayaperumal, MS Jagatheeshwaran Journal of Environmental Chemical Engineering 4 (4), 3891-3899	12	2016
<a href="#">The role of calcinated sea shell particles on friction-wear behavior of electroless NiP coating: fabrication and characterization</a> MS Jagatheeshwaran, A Elayaperumal, S Arulvel Surface and Coatings Technology 304, 492-501	17	2016
<a href="#">Wear characteristics of electroless NiP/bio-composite coatings on En8 steel</a> MS Jagatheeshwaran, A Elayaperumal, S Arulvel Journal of Manufacturing Processes 20, 206-214	17	2015
<a href="#">Tribological behavior and Characterization of Electroless Ni-P/SiO<sub>2</sub> coating on Stainless Steel</a> M. S. Jagatheeshwaran, A. Elayaperumal, S. Arulvel National conference on emerging trends in design, thermal and manufacturing ...		2014