

- [Optimization of electroless bath process parameter for improving the tribology behavior of Ni-P/CaBr₂ composite coating against the hardened EN-31 steel](#) 2020
A Premkumar, A Elayaperumal, S Arulvel, MS Jagatheeshwaran, ...
Surface Topography: Metrology and Properties
- [Significance of tribolayer on the friction and wear resistance of FSPed AA6082/SiCp composite at various load conditions](#) 1* 2020
M Sivanesh Prabhu, A Elayaperumal, S Arulvel, M Wasim Khan
Surface Topography: Metrology and Properties
- [A study on combustion and performance characteristics of ceramic coated \(PSZ/Al₂O₃\) and uncoated piston-DI engine](#) 1 2020
SM Abbas, A Elayaperumal, G Suresh
Materials Today: Proceedings
- [Enhancement of the hardness and wear-resistance of aluminum-silicon alloy using atmospheric plasma-sprayed ZrO₂, Al₂O₃-ZrO₂ multilayer, and Al₂O₃/ZrO₂ composite coatings](#) 2020
S Mohamed Abbas, A Elayaperumal, S Arulvel
Surface Topography: Metrology and Properties 8 (2), 025027
- [Enhancement of the hardness and wear-resistance of aluminum-silicon alloy using atmospheric plasma-sprayed ZrO₂, Al₂O₃-ZrO₂ multilayer, and Al₂O₃/ZrO₂ composite coatings](#) 2020
SM Abbas, A Elayaperumal, S Arulvel
Surface Topography: Metrology and Properties
- [Development of multi-pass processed AA6082/SiCp surface composite using friction stir processing and its mechanical and tribology characterization](#) 1 2020
MS Prabhu, AE Perumal, S Arulvel
Surface and Coatings Technology, 125900
- [Calcium hexaboride reinforced Nickel-Phosphorus composite coating for increasing the wear properties of low carbon steel](#) 2020
A Premkumar, A Elayaperumal, S Arulvel, MS Jagatheeshwaran, ...
Materials Today: Proceedings
- [Mapping of Wear Mechanism for Mechanical Alloyed Al/CNT Composites-An In-situ Analysis](#) 2020
P Manikandan, A Elayaperumal, RF Issac.

ASME Journal of Tribology, 1-26

[Influence of resistance spot welding process parameters on dissimilar austenitic and duplex stainless steel welded joints](#)

EAVP Vignesh Krishnan 2020

Proc IMechE Part E:J Process Mechanical Engineering

[Wear behaviour of electroless Ni-P and Ni-P-TiO₂ composite coatings on En8 steel](#)

I Saravanan, A Elayaperumal, A Devaraju, M Karthikeyan, A Raji 4 2020

Materials Today: Proceedings 22, 1135-1139

[Investigation of temperature influence in wear studies on nitride coatings](#)

A Devaraju, P Rajendran, AE Perumal, I Saravanan 2020

Materials Today: Proceedings 22, 1167-1174

[Resistance spot welding of AISI-316L SS and 2205 DSS for predicting parametric influences on weld strength—Experimental and FEM approach](#)

K Vignesh, A Elaya Perumal, P Velmurugan 4 2019

Archives of Civil and Mechanical Engineering 19, 1029-1042

[Friction and wear measurements of friction stir processed aluminium alloy 6082/CaCO₃ composite](#)

MS Prabhu, AE Perumal, S Arulvel, RF Issac 16 2019

Measurement 142, 10-20

[The effect of different percentage of carbon on workability behaviour of Fe-C-0.7 Mn sintered composites](#)

APM Raj, N Saravanan, AE Perumal 2019

AIP Conference Proceedings 2128 (1), 030001

[Influence of Ni–Ti shape memory alloy short fibers on the flexural response of glass fiber reinforced polymeric composites](#)

K Pazhanivel, GB Bhaskar, A Elayaperumal, P Anandan, S Arunachalam 4 2019

SN Applied Sciences 1 (7), 789

[Experimental investigation on the effect of ceramic coating on engine performance and emission characteristics for cleaner production](#)

SM Abbas, A Elayaperumal 15 2019

Journal of Cleaner Production 214, 506-513

- [Partial dissolution of precipitated-calcium carbonate \(P-CaCO₃\) in electroless Nickel-phosphorus \(Ni-P\) coating and its surface characterization](#) 3 2019
A Premkumar, A Elayaperumal, S Arulvel, MS Jagatheeshwaran
Materials Research Express
- [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 ...](#) 6 2019
S Arulvel, A Elayaperumal, MS Jagatheeshwaran
Surface and Coatings Technology 357, 543-558
- [Wear behavior of HPT processed UFG AZ31B magnesium alloy](#) 8 2018
P Seenuvasaperumal, K Doi, DA Basha, A Singh, A Elayaperumal, ...
Materials Letters 227, 194-198
- [Controlling adhesive wear failure of nickel-phosphorus coating at high load condition using crab shell particle as reinforcement](#) 13 2018
S Arulvel, A Elayaperumal, MS Jagatheeshwaran
Engineering Failure Analysis 90, 310-323
- [Taguchi analysis of tool wear and delamination in milling of GFRP composite using coated K10 end mill](#) 2018
PP Raj, K Pazhanivel, AE Perumal
Progress in Industrial Ecology, an International Journal 12 (1-2), 138-153
- [Drilling of pultruded and liquid composite moulded glass/epoxy thick composites: Experimental and statistical investigation](#) 10 2018
B Ramesh, A Elayaperumal, S Satishkumar, A Kumar
Measurement 114, 109-121
- [Impact of nano zinc oxide on the friction–Wear property of electroless nickel-phosphorus sea shell composite coatings](#) 7 2017
MS Jagatheeshwaran, A Elayaperumal, S Arulvel
Materials Science and Engineering: B 225, 160-172
- [Renewable energy based smart microgrids—A pathway to green port development](#) 12 2017
A Misra, G Venkataramani, S Gowrishankar, E Ayyasam, V Ramalingam
Strategic Planning for Energy and the Environment 37 (2), 17-32
- [Influence of calcium hexaboride reinforced magnesium composite for the mechanical and tribological behaviour](#) 21 2017

P Seenuvasaperumal, A Elayaperumal, R Jayavel

Tribology International 111, 18-25

[Sustainability and environmental management: Emissions accounting for ports](#)

A Misra, K Panchabikesan, E Ayyasamy, V Ramalingam 4 2017

Strategic Planning for Energy and the Environment 37 (1), 8-26

[Drying and energy aspects of tapioca sago processing-an experimental field study](#)

R Sivakumar, A Elayaperumal, R Saravanan 1 2017

Journal of Mechanical Science and Technology 31 (6), 3035-3042

[Fault diagnostics of spur gear using decision tree and fuzzy classifier](#)

A Krishnakumari, A Elayaperumal, M Saravanan, C Arvindan 35 2017

The International Journal of Advanced Manufacturing Technology 89 (9-12 ...

[Electroless nickel–phosphorus coating on crab shell particles and its characterization](#)

S Arulvel, A Elayaperumal, MS Jagatheeshwaran 15 2017

Journal of Solid State Chemistry 248, 87-95

[Optimization of resistance spot welding process parameters and microstructural examination for dissimilar welding of AISI 316L austenitic stainless steel and 2205 duplex ...](#)

25 2017

K Vignesh, A Elayaperumal, P Velmurugan

The International Journal of Advanced Manufacturing Technology, 1-11

[Room temperature ferromagnetism in Cr doped SrSnO₃-pervoskite system](#)

KS M.Muralidharan, V.Anbarasu, A.Elaperumal 23 2017

Journal of Material science:Materials in Electronics 28 (5), 4125-4137

[ROLE OF BIODIESEL WITH NANOADDITIVES IN PORT OWNED TRUCKS AND OTHER VEHICLES FOR EMISSION REDUCTION](#)

A Misra, S Tajudeen, G Venkataramani, A Elayaperumal, V Ramalingam 2 2017

THERMAL SCIENCE 21 (1), 605-614

[GHG emission accounting and mitigation strategies to reduce the carbon footprint in conventional port activities—a case of the Port of Chennai](#)

A Misra, G Venkataramani, K Panchabikesan, A Elayaperumal, ... 6 2017

Carbon Management, 1 -12

- [Sustainable Energy Resources based Smart Microgrid towards Green Port Development-A Pathway for Ecofriendly Society](#) [1](#) 2017
A Misra, G Venkataramani, K Panchabikesan, A Elayaperumal, ...
Asian Journal of Research in Social Sciences and Humanities 7 (3), 190-200
- [Effect of Calcium Hexaboride Particles on Predicting the Dry Sliding Tribological Process Parameter of Magnesium Composite Using Grey Relational Analysis](#) 2017
P Seenuvasaperumal, A Elayaperumal
Materials Today: Proceedings 4 (2), 557-566
- [Drillability study of pultruded and sheet moulding compound thick polymeric composites](#) [6](#) 2017
B Ramesh, A Elayaperumal, S Satishkumar
Proceedings of the Institution of Mechanical Engineers, Part B: Journal of ...
- [Discussion on the feasibility of using proteinized/deproteinized crab shell particles for coating applications: synthesis and characterization](#) [12](#) 2016
S Arulvel, A Elayaperumal, MS Jagatheeshwaran
Journal of Environmental Chemical Engineering 4 (4), 3891-3899
- [The role of calcinated sea shell particles on friction-wear behavior of electroless NiP coating: fabrication and characterization](#) [17](#) 2016
MS Jagatheeshwaran, A Elayaperumal, S Arulvel
Surface and Coatings Technology 304, 492-501
- [Wear study of cross linked UHMWPE hybrid composite-TiN interface](#) [2](#) 2016
I Saravanan, AE Perumal, RF Issac
Surfaces and Interfaces 4, 42-50
- [Fluidized bed drying of some agro products–A review](#) [69](#) 2016
R Sivakumar, R Saravanan, AE Perumal, S Iniyan
Renewable and Sustainable Energy Reviews 61, 280-301
- [Influence of SMA reinforcement on the impact resistance of GFRP composite laminates under different temperatures](#) [2](#) 2016
K Pazhanivel, GB Bhaskar, A Elayaperumal, P Anandan, S Arunachalam
Bulletin of Materials Science 39 (3), 889-899
- [Influence of cooling on the performance of the drilling process of glass fibre reinforced epoxy composites \(vol 16, pg 135, 2016\)](#) 2016

B Ramesh, A Elayaperumal, S Satishkumar, A Kumar, T Jayakumar, ...

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING 16 (3), 564-564

[Studies on combined cooling and drying of agro products using air cooled internal heat recovered vapour absorption system](#)

[9](#) 2016

R Sivakumar, A Elayaperumal, R Saravanan

Applied Thermal Engineering 97, 100-108

[Micro/nanostructure and tribological characteristics of pressureless sintered carbon nanotubes reinforced aluminium matrix composites](#)

[10](#) 2016

P Manikandan, R Sieh, A Elayaperumal, HR Le, S Basu

Journal of nanomaterials 2016

[A study of frictional wear behaviour of Ti6Al4V and UHMWPE hybrid composite on TiN surface for bio-medical applications](#)

[14](#) 2016

BV Saravanan I, Elayaperumal A

Tribology International 98, 179-189

[Optimization of wear parameters and their relative effects on TiN coated surface against Ti6Al4V alloy](#)

[25](#) 2016

I Saravanan, AE Perumal, RF Issac, SC Vettivel, A Devaraju

Materials & Design 92, 23-35

[Influence of cooling on the performance of the drilling process of glass fibre reinforced epoxy composites](#)

[14](#) 2016

B Ramesh, A Elayaperumal, S Satishkumar, A Kumar, T Jayakumar, ...

Archives of Civil and Mechanical Engineering 16 (3), 565-575

[Surfaces and Interfaces](#)

2016

I Saravanan, AE Perumal, RF Issac

[Enhanced ferromagnetism in Cr doped SrMoO₄ scheelite structured compounds](#)

KS M. Muralidharan, V. Anbarasu, A. Elayaperumal

[5](#) 2016

J. Mater. Sci.: Mater Electron 27, 2545-2556

[Enhanced ferromagnetism in Cr doped SrMoO₄ scheelite structured compounds](#)

KS M. Muralidharan, V. Anbarasu, A. Elayaperumal

[5](#) 2016

J. Mater. Sci.: Mater Electron 27, 2545-2556

[Graphene decorated with MoS₂ nanosheets: a synergetic energy storage composite electrode for supercapacitor applications](#)

R Thangappan, S Kalaiselvam, A Elayaperumal, R Jayavel, ...

[126](#) 2016

Dalton transactions 45 (6), 2637-2646

[Wear behavior of \$\gamma\$ -irradiated Ti6Al4V alloy sliding on TiN deposited steel surface](#)

I Saravanan, AE Perumal

[8](#) 2016

Tribology International 93, 451-463