

Journal Publications

1. M. S. Jagatheeshwaran, AyyasamyElayaperumal, S. Arulvel: Impact of nano zinc oxide on the friction – Wear property of electroless nickel-phosphorus sea shell composite coatings. *Materials Science and Engineering B* 11/2017; 225:160-172., DOI:10.1016/j.mseb.2017.08.026.
2. M.S. Jagatheeshwaran, A. Elayaperumal, S. Arulvel: The role of calcinated sea shell particles on friction-wear behavior of electrolessNiP coating: Fabrication and characterization. *Surface and Coatings Technology* 07/2016; 304., DOI:10.1016/j.surfcoat.2016.07.053
3. M. S. Jagatheeshwaran, AyyasamyElayaperumal, S. Arulvel: Wear characteristics of electrolessNiP/bio-composite coatings on En8 steel. *Journal of Manufacturing Processes* 08/2015; 20., DOI:10.1016/j.jmapro.2015.08.002.
4. S. Arulvel, A. Elayaperumal, M.S. Jagatheeshwaran: Controlling adhesive wear failure of nickel-phosphorus coating at high load condition using crab shell particle as reinforcement. *Engineering Failure Analysis* 04/2018; 90., DOI:10.1016/j.engfailanal.2018.04.004.
5. S. Arulvel, A. Elayaperumal, M.S. Jagatheeshwaran: Electroless nickel – phosphorus coating on crab shell particles and its characterization. *Journal of Solid-State Chemistry* 02/2017; 248., DOI:10.1016/j.jssc.2017.02.001.
6. Arulvel S., Elayaperumal A., Jagatheeshwaran M.S.: Discussion on the feasibility of using proteinized/deproteinized crab shell particles for coating applications: Synthesis and characterization. *Journal of Environmental Chemical Engineering* 12/2016; 4(4):3891-3899., DOI:10.1016/j.jece.2016.08.031.
7. Arulvel S., Elayaperumal A., Jagatheeshwaran M.S., Satheeshkumar A., 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, *Surface and Coatings Technology*, Volume 357, 2019, Pages 543-558.
8. Venkateshwaran N, ElayaPerumal A, Jagatheeshwaran MS, Effect of fiber length and fiber content on mechanical properties of banana fiber/epoxy

composite, Journal of Reinforced Plastics and Composites Volume -30, Issue-19
Pages 1621-1627

9. Premkumar A, Elayaperumal A, Arulvel S, Jagatheeshwaran MS, Partial dissolution of precipitated-calcium carbonate (P-CaCO_3) in electroless Nickel-phosphorus (Ni-P) coating and its surface characterization, Material Research, 2019.
10. Premkumar A, Elayaperumal A, Arulvel S, Jagatheeshwaran MS, Optimization of electroless bath process parameter for improving the tribology behavior of Ni-P/CaBr₂ composite coating against the hardened EN-31 steel.
11. A. Premkumar, A. Elayaperumal, S. Arulvel, M.S. Jagatheeshwaran, P. Seenuvasaperumal, Calcium hexaboride reinforced Nickel-Phosphorus composite coating for increasing the wear properties of low carbon steel, Materials Today: Proceedings, 2020.