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LAST FIVE YEAR PUBLICATIONS

S.NO	TITLE OF THE PUBLICATIONS	YEAR
1	Wear and corrosion behaviour on pure aluminium matrix reinforced with SiC and spent catalyst by using the stir casting method P Pragathi, R Elansezhian Materials Today: Proceedings	2020
2	Synthesis and novel development of electroless Ni-P coating on bamboo fibreG Magesh, R Elansezhian Materials Today: Proceedings	2020
3	Wear and corrosion behavior of electroless Ni-P-TiO ₂ -Al ₂ O ₃ nanocomposite coatings on magnesium AZ91D alloy V Krishnakumar, R Elansezhian IOP Conference Series: Materials Science and Engineering 912 (5), 052020	2020
4	Development of Nano Textured Solar PV Cell for Photovoltaic and Self Cleaning Applications Using Different Coating Technique N Purushothaman, R Elansezhian, AV Raviprakash Development 29 (9s), 3677-3685	2020
5	Reuse of petroleum industrial waste as reinforcement in aluminium matrix for enhancement of mechanical properties J Gayathri, R Elansezhian Materials Today: Proceedings 27, 2546-2550	2020
6	Utilization of solar resource using phase change material assisted solar water heater and the influence of nano filler R Dhinakaran, R Muraliraja, R Elansezhian, S Baskar, S Satish, ...Materials Today: Proceedings	2020
7	Wear and corrosion resistance of electroless Ni-P- ZnO - SiO ₂ nanocomposite coatings on magnesium AZ91D alloy V Krishnakumar, R Elansezhian AIP Conference Proceedings 2235 (1), 020001	2020
8	Influence of dual reinforcement (nano CuO+ reused spent alumina catalyst) on microstructure and mechanical properties of aluminium metal matrix composite J Gayathri, R Elansezhian Journal of Alloys and Compounds, 154538	2020
9	Enhancement of mechanical properties of aluminium metal matrix composite by reinforcing waste alumina catalyst and nano Al ₂ O ₃ J Gayathri, R Elansezhian Materials Today: Proceedings	2020
10	Optimization of process parameters of thin film deposition in solar PV cells using magnetron sputtering process N Purushothaman, R Elansezhian, AV Raviprakash AIP Conference Proceedings 2162 (1), 020124	2019
11	Estimation of Zwitterionic surfactant response in electroless composite coating	2019

	and properties of Ni-P-CuO (Nano) coating R Muraliraja, J Sudagar, R Elansezhian, AV Raviprakash, R Dhinakaran, ... Arabian Journal for Science and Engineering 44 (2), 821-828	
12	Synthesis of novel aluminium metal matrix composite using industrial metallic waste: Impact on wear and corrosion behaviour J Gayathri, R Elansezhian AIP Conference Proceedings 2162 (1), 020026	2019
13	Effect of RF/DC Magnetron Sputtering Process Parameters for Improving Efficiency of Solar PV Cell N Purushothaman, R Elansezhian, AV Raviprakash IOP Conference Series: Earth and Environmental Science 312 (1), 012011	2019
14	Effect of iron and copper on the microstructure and mechanical properties of gravity Die-cast Al-Si-Ni-Mg alloys S Gunabalan, R Elansezhian MS&E 402 (1), 012109	2018
15	Influence of Copper and Iron on Corrosion of Gravity Die Cast Al-Si-Mg-Ni Alloys S Gunabalan, R Elansezhian Journal of Advanced Microscopy Research 13 (1), 138-142	2018
16	Investigation of drilling parameters on hybrid polymer composites using grey relational analysis, regression, fuzzy logic, and ANN models G Anand, N Alagumurthi, R Elansezhian, K Palanikumar, ... Journal of the Brazilian Society of Mechanical Sciences and Engineering 40 ...	2018
17	Dynamic mechanical, thermal and wear analysis of Ni-P coated glass fiber/ Al_2O_3 nanowire reinforced vinyl ester composite G Anand, N Alagumurthi, R Elansezhian, N Venkateshwaran Alexandria Engineering Journal 57 (2), 621-631	2018
18	Influence of Surfactants on the properties of electroless nickel boron (thallium and lead-free) coatings M Vijayanand, R Elansezhian Proceedings of the Institution of Mechanical Engineers, Part E: Journal of ...	2018
19	Impact of nano additives on electroless nickel phosphorous (EN-P) coatings MM Mirza, E Rasu, A Desilva International Journal of Automotive and Mechanical Engineering 14 (4), 4863-4879	2017
20	International Journal on Recent Researches In Science, Engineering & Technology TH BINDU, LS RAMAKRISHNA, PR REDDY, M TEJDEEP, BK ANAND	2017
21	Ni-P Coated Glass Fiber/ Al_2O_3 Nanowire Reinforced Vinyl Ester Composite: Investigation on the Mechanical and Thermal Properties V Anand, Alagumurthi, Elansezhian Polymer Korea 41 (3), 443-451	2017
22	Ni-P 가 코팅된 유리섬유와 Al_2O_3 나노선으로 강화된 비닐에스터 복합재료의 기계적-열적 특성 G Anand, N Alagumurthi, R Elansezhian, N Venkateshwaran Polymer (Korea) 41 (3), 443-451	2017

23	Electroless deposition of nanolayered metallic coatings J Sudagar, R Tamilarasan, U Sanjith, R Rajendran, R Kumar Nanoscaled Films and Layers, 27	2017
24	Ni-P Coated Glass Fiber/Al ₂ O ₃ Nanowire Reinforced Vinyl Ester Composite: Investigation on the Mechanical and Thermal Properties G Anand, N Alagumurthi, R Elansezhian, N Venkateshwaran 폴리머 41 (3), 443-451	2017
25	Delamination study on newly formulated Ni-P coated glass fibre/nanowire-reinforced polymer composite using Grey relational analysis G Anand, N Alagumurthi, R Elansezhian, K Palanikumar International Journal of Additive and Subtractive Materials Manufacturing 1 ...	2017
26	A Molecular Orbital Approach to Develop Alloying Framework for Aluminium—A Review S Gunabalan, R Elansezhian Reviews in Advanced Sciences and Engineering 5 (2), 161-173	2016
27	Effect of Surfactant and Tool Material on the Surface Roughness of Al 6061 IN Turning Operation P Vijayalakshmi, A Arokiasamy, R Elansezhian Asian Journal of Research in Social Sciences and Humanities 6 (11), 1264-1272	2016
28	Investigation on the Mechanical Properties of Newly Formulated Hybrid Polymer Composite G Anand, R Dhinakaran, R Elansezhian, N Alagumurthi Applied Mechanics and Materials 852, 49-54	2016
29	Wear and scratch behaviour of electroless Ni-P-nano-TiO ₂ : Effect of surfactants TR Tamilarasan, R Rajendran, U Sanjith, G Rajagopal, J SudagarWear 346, 148-157	2016
30	Surface Coatings on Steel Pipes Used in Oil and Gas Industries-A Review MM Mirza, E Rasu, A Desilva Chemical Science International Journal, 1-23	2016
31	Influence of nano additives on protective coatings for oil pipe lines of Oman MM Mirza, E Rasu, A Desilva International Journal of Chemical Engineering and Applications 7 (4), 221-225	2016
32	Influence of a Zwitterionic surfactant on the surface properties of electroless Ni-P coating on mild steel R Muraliraja, R Elansezhian, J Sudagar, AV Raviprakash Journal of Surfactants and Detergents 19 (5), 1081-1088	2016
33	Electroless Ni-P-Cu-CuO composite coatings on mildsteel with zwitterionic surfactant R Muraliraja, R Elansezhian Proceedings of Malaysian International Tribology Conference 2015, 316-317	2015
34	Development of self-cleaning and energy efficient solar cells using two different coating techniques M Jeevarani, R Elansezhian International Journal of Computer Aided Engineering and Technology 7 (1), 47-59	2015

35	Influence of nickel recovery efficiency on crystallinity and microhardness of electroless Ni–P coatings and optimisation using Taguchi technique R Muraliraja, R Elansezhian Transactions of the IMF 93 (3), 126-132	2015
36	Prediction and Supplementation of Reducing Agent to Improve the Coating Efficiency and Wear Behavior of Electroless Ni-P Plating R Muraliraja, D Sendilkumar, DR Elansezhian Int J Electrochem Sci 10, 5536-47	2015
37	Corrosion Protection of Steel Pipe Lines used in Oil and Gas Industry of OmanMM Mirza, E Rasu, A Desilva Current Journal of Applied Science and Technology, 1-18	2015