

Publications of DC member 6(Dr. T.P.D. RAJAN)

NUMBER OF PUBLICATIONS: 13

1. S.B. Ulaeto, G.M. Mathew, J.K. Pancrecious, J.B. Nair, **T.P.D. Rajan**, K.K. Maiti, B.C. Pai. Biogenic Ag Nanoparticles from Neem Extract: Their Structural Evaluation and Antimicrobial Effects against *Pseudomonas nitroreducens* and *Aspergillus unguis* (NII 08123), *ACS Biomaterials Science & Engineering* 6 (1): 235-245, 2020
2. S. Prathap Singh, T. Prabhuram, K. Vinoth Babu, D. Elilraja, M. Uthayakumar, **T.P.D. Rajan**. Solid particle erosion studies on SiC reinforced functionally graded aluminium matrix composites, *MS & E* 764 (1): 012005, 2020
3. S.B. Ulaeto, J.K. Pancrecious, K.K. Ajekwene, G.M. Mathew, **T.P.D. Rajan**. Advanced nanocoatings for anticorrosion, *Corrosion Protection at the Nanoscale*, 499-510, 2020
4. M. Uthayakumar, K.V. Babu, S.T. Kumaran, S.S. Kumar, J.T.W. Jappes, **T.P.D. Rajan**. Study on the machining of Al-SiC functionally graded metal matrix composite using die-sinking EDM, *Particulate Science and Technology* 37 (1): 103-109, 2019
5. K.M.S. Manu, L.A. Raag, **T.P.D. Rajan**, B.C. Pai, V. Petley, S.N. Verma. Self-lubricating bidirectional carbon fiber reinforced smart aluminum composites by squeeze infiltration process, *Journal of Materials Science & Technology* 35 (11): 2559-2569, 2019
6. J.K. Pancrecious, S.B. Ulaeto, R. Ramya, **T.P.D. Rajan**, B.C. Pai. Metallic composite coatings by electroless technique—a critical review, *International Materials Reviews* 63 (8): 488-512, 2018
7. J.K. Pancrecious, J.P. Deepa, V. Jayan, U.S. Bill, **T.P.D. Rajan**, B.C. Pai. Nanoceria induced grain refinement in electroless Ni-B-CeO₂ composite coating for enhanced wear and corrosion resistance of Aluminium alloy, *Surface and Coatings Technology* 356: 29-37, 2018
8. E. Jayakumar, A.P. Praveen, **T.P.D. Rajan**, B.C. Pai. Studies on tribological characteristics of centrifugally cast SiCp-reinforced functionally graded A319 aluminium matrix composites, *Transactions of the Indian Institute of Metals* 71 (11): 2741-2748, 2018
9. S. Maimunnisa, P. Gore, **T.P.D. Rajan**, V.S. Raja. Role of Centrifugal Casting on Electrochemical Corrosion Behavior of A356-SiCp Composite in 3.5 wt.% NaCl, *Journal of Materials Engineering and Performance* 27 (8): 4210-4224, 2018
10. J. Banhart, U.T.S. Pillai, **T.P.D. Rajan**, B.S. Murty. Preface on International Conference on Solidification Science and Processing, *Transactions of the Indian Institute of Metals* 71 (11): 2615-2615, 2018
11. K.M.S. Manu, S.A. Kumar, **T.P.D. Rajan**, M.R. Mohammed, B.C. Pai. Effect of alumina nanoparticle on strengthening of Al-Si alloy through dendrite refinement, interfacial bonding and dislocation bowing, *Journal of Alloys and Compounds* 712: 394-405, 2017
12. K.V. Babu, M. Uthayakumar, J.T.W. Jappes, **T.P.D. Rajan**. Optimization of Drilling Process on Al-SiC Composite using Grey Relation Analysis, *Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications*, 392-406, 2017
13. L. Vijaya, R. Rajan, A. Raju, **T.P.D. Rajan**, C. Pavithran. Microstructural Aspects of Particle-Assisted Breath Figures in Polystyrene-Alumina Hybrid Free Standing Film, *The Journal of Physical Chemistry C* 121 (28): 15154-15159, 2017