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International Journal Publication

- 1. Malathy Pushpavanam, Manikandan H. and **Ramanathan K.** (2007), 'Preparation and Characterization of nickel-cobalt-diamond electro composites by sediment co-deposition', Surface and Coatings Technology, Vol. 201, pp. 6372-6379.
- 2. **Ramanathan K.,** Periasamy V.M. and Natarajan U. (2008), 'Comparison of Regression and ANN model for the prediction of volume percent of diamond deposition in Ni-diamond composite coating', Portugaliae Electrochimica Acta, Vol. 26/4, pp. 361-368.
- 3. **Ramanathan K.,** Periasamy V.M., Malathy Pushpavanam and Natarajan U. (2009), 'Particle swarm optimization of hardness in nickel diamond electro composites', Archives of computational materials science and surface engineering, Vol.1, pp. 232-236.
- 4. **Ramanathan K.,** Periasamy V.M., Malathy Pushpavanam and Natarajan U. (2009), 'Optimization of hardness in nickel diamond electro composites using genetic algorithm', ZASTITA MATERIJALA, Vol.50, pp. 162-166.
- 5. **Ramanathan K.**, Periasamy V.M., Malathy Pushpavanam and Natarajan U. (2010), 'Maximizing hardness of nickel-diamond composite metal matrix using PSO', International journal of computational materials science and surface engineering, Vol.3. No.4., pp. 311-320.
- 6. Balasubramanian M., **Ramanathan K** and Senthilkumar V.S. (2012), 'Finite Element Modeling and Numerical Simulation of Superplastic forming of 8089 Al-Li alloy in rectangular die', Advanced Materials Research, Vol.487, pp.116-121.
- 7. Kannadasan N., **Ramanathan K** and Suresh S. (2012), 'Comparison of heat transfer and pressure drop in horizontal and vertical helically coiled

- heat exchanger with Cuo/Water based nano fluids', Experimental Thermal and Fluid Science, Vol.42, pp.64-70.
- 8. Pradeep P., Ayyanar S., Balasubramanian M., **Ramanathan K.,** and Senthilkumar V.S. (2012), 'Advanced finite element analysis and simulation in superplastic forming process of stepped semispherical die', Journal of applied sciences, Vol.12, pp.1048-1052.
 - 9. Balasubramanian M., **Ramanathan K.**, and Senthilkumar V.S (2013), 'Mathematical Modeling and Finite Element Analysis of Superplastic Forming of Ti-6Al-4 V Alloy in a Stepped Rectangular Die' Procedia Engineering, Vol.64, pp.1209-1218.
- 10. Prasanna Venkatesh R., **Ramanathan K**., and Rams Krishnan S. (2014), 'Tensile Properties of NFRP hybrid composite: Modeling and optimization', International journal of soft computing, Vol.9(4), pp.260-266.
- 11. Kannan S., and **Ramanathan K.** (2014), 'A statistical analysis of EDM parameters for Al-TiC metal matrix composites using Response Surface Methodology', International journal of applied environmental sciences, Vol.9, pp.1561-1572.
- 12. Kannan S., and **Ramanathan K.** (2014), 'Optimization of EDM parameters of Al/TiC composites using Taguchi Methodology', Middle-East Journal of Scientific Research, Vol.22 (1), pp.121-127.
- 13. Balasubramanian M., **Ramanathan K.**, Ganesh P., and Senthilkumar V.S (2014), 'Numerical Analysis and simulation of the Superplastic Forming in 5083 Aluminium alloy sheets' International journal of applied Engineering research, Vol.9 (26), pp.9098-9102.
- 14. Balasubramanian M., Ganesh. P, **Ramanathan K.**, and Senthilkumar V.S., (2015), 'Superplastic Forming of three stage hemispherical 5083 Aluminium profile' Journal of Mechanical Engineering, Vol.6 (26), pp.365—373.
- 15. Balasubramanian and **Ramanathan K.,** (2015), 'Simulation and experimental investigation on super plastic forming of 7075 aluminium alloy' International Journal of Applied Engineering Research, Vol.10 (49), pp.429—433.

- 16. Joseph raviselvan R **Ramanathan K.,** and Perumal P (2015), 'Prediction of Micro hardness of TiN coating on steel substrate- An Artificial Neural Network (ANN) approach 'International Journal of Applied Engineering Research, Vol.10 (57), pp.502—508.
- 17. Karthikeyan MS., Jeyaram R., Rajagopal G and **Ramanathan K.** (2015), 'Corrosion studies on nano TiO₂ coating over 316L stainless steel' International Journal of Applied Engineering Research, Vol.10 (57), pp.432—437.
- 18. Ravindran K., Elango A, **Ramanathan K.** and Karunakaran K. (2015), 'CFD analysis and design effects in a centrifugal impeller' International Journal of Applied Engineering Research, Vol.10 (57), pp.420—425.
- 19. Balasubramanian and **Ramanathan K.,** (2015), 'Numerical Simulation and analysis of super plastic forming in Ti-6Al-4V alloy' International Journal of Applied Engineering Research, Vol.10 (55), pp.3746—3750.
- 20. Nagasubramanian N., Thansekhar M.R., Venkatesan M and **Ramanathan K.**, (2015), 'Numerical Investigation of Natural Convection in a Square Enclosure with a Baffle Mounted on Vertical Wall', Applied Mechanics and Materials, Vol. 813-814, pp 748-753.
- 21. Joseph Raviselvan R., **Ramanathan K.**, Perumal P and Thansekhar R., (2015), 'Response surface methodology for optimum hardness of TiN on steel substrate', World academy of science, Engineering and Technology, Vol.9 No.12, pp.1331-1337.
- 22. Prasanna Venkatesh R., **Ramanathan K.**, and Srinivasan V, (2016), 'Textile, Flexural, Impact and Water Absorption Properties of Natural Fiber Reinforced Polyester Hybrid Composites, Fibers & Textiles in Eastern Europe, Vol.24 No.3 (117), pp.90-94.
- 23. Jamuna Rani M., and **Ramanathan K**, (2016), 'Design and Analysis of Piping System with Supports Using CAESAR-II, World academy of science, Engineering and Technology, Vol.10 No.05, pp.907-911.
- 24. Kannan S., Ramanathan K and **Elango A,** (2016), 'A new hybrid approach to Optimize the MRR and Tool wear of EDM for Al/TiC composites', Applied Mathematics & Information sciences, Vol.10 (6), pp.2197-2205.
- 25. Athijayamani A., Chrispin Das M., Sekar S., and **Ramanathan K**, (2016), 'Mechanical properties of phenol formaldehyde hybrid composites

- reinforced with natural cellulose fibers', Bio Resources, Vol.12(1), pp.1960-1967.
- 26. Louie Frango T., **Ramanathan K**., Ramesh Babu G.N.K., and Marimuthu P, (2016), 'Artificial Neural network (ANN) modeling for predicting hardness of Ni-CBN composite coatings', International journal of advanced engineering technology, Vol.7, Issue 2, pp.1234-1237.
- 27. Jayaseelan C., Padmanabhan P., Athijayamani A., and **Ramanathan K**, (2017), 'Comparative investigation of mechanical properties of epoxy composites with short fibers, macro particles and micro particles', Bio Resources, Vol.12 (2), pp.2864-2871.
- 28. Sujin Jose A., Athijayamani A., **Ramanathan K.**, and Sidharsdhan S, (2016), 'Effects of addition of prosopis juliflora fiber on the physical and mechanical properties of wood dust and coir pith particle reinforced phenol formaldehyde hybrid composite', Journal of advances in chemistry, Vol.13, No.10, pp.6558-6562.
- 29. Athijayamani A., Sekar S., Sidhardhan S., and **Ramanathan K**, (2016), 'Mechanical Properties of Randomly Oriented Calotropis Gigantea Fiber Reinforced Phenol Formaldehyde Biocomposites', Journal of advances in chemistry, Vol.13, No.11, pp.6043-6050.
- 30. Balasubramanian M., Ganesh P., **Ramanathan K**.., and Senthil Kumar V, (2017), 'An Experimental Investigation and Numerical Simulation in SPF of AA 5083 Alloy using Programming Logic Control Approach' Journal of Mechanical Engineering, Vol.63 (4), pp. 255-264.
- 31. Sujin Jose A, Athijayamani A, **Ramanathan K** and Sidhardhan S, (2017) 'Effects of Aspect Ratio and Loading on the Mechanical Properties of *Prosopis Juliflora* Fiber-reinforced Phenol Formaldehyde Composites', Fibres & Textiles in Eastern Europe, Vol.25, 4(124), pp. 59-64.
- 32. Sujin Jose A, Athijayamani A, **Ramanathan K** and Sidhardhan S, (2017) 'Effects of addition of coir pith particles on the mechanical and erosive wear behavior of wood dust particle reinforced phenol formaldehyde composite', Materiali In Tehnologije / Materials and Technology, Vol.51 (5), pp.805-811.
- 33. Chrispin Das M, Athijayamani A, Sidhardhan S and **Ramanathan K**, (2017), 'Analysis of the effects of fabrication parameters on the mechanical properties of Areca fine fiber-reinforced phenol formaldehyde composite

- using Taguchi technique', Journal of Applied Research and Technology, Vol.15, pp.365-370.
- 34. Valarmathi G, **Ramanathan K**, Sathiya Narayanan C and Kathiresan M, (2017), 'Optimization of formability of tailor-welded Blanks', Materiali in Tehnologije / Materials and Technology, Vol.52 (2), pp.151-155.
- 35. Sekar S, Athijayamani A, **Ramanathan K** and Sidhardhan S (2020), 'Effects of Chemical Modification on the Mechanical Properties of Calotropis Gigantea Fiber-reinforced Phenol Formaldehyde Biocomposites', Materials Science (MEDŽIAGOTYRA) –Vol.26, No.3,pp.295-299.
- 36. Perumal P, Ramanathan K, Ganesan L, Subramanian B, Ganesh V and Stalin B (2019), 'Investigation of TiN coating uniformity and its corrosion behaviour using image process', Materials research express, Vol.6 (4), pp.(Accepted)
- 37. Nagasubramanian N, Thansekhar MR, Venkatesan M and Ramanathan K (2020), 'Effect of Al2O3/water Nanofluid on Conjugate Free Convection in a Baffle Attached Square Enclosure', Mechanika, Vol.26 (2)
- 38. Balasubramanian M, Stalin B, Ramanathan K and Ravichandran M (2020), 'Hot tensile test for determining the material constant on superplastic 5083Al alloy sheet', Materials Today: Proceedings, Vol. 21, pp.324-328.
- 39. Sakthi Sadhasivam RM and **Ramanathan K.** (2018), 'Dry sliding wear behavior of SiC and Zno reinforced aluminium 6061 matrix composite using robust design', Journal of Manufacturing Engineering, Vol. 13, Issue. 2, pp 095-100.