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List of Publications:

- 1. **S Renold Elsen**, T Ramesh, 'Optimization to develop multiple response hardness and compressive strength of zirconia reinforced alumina by using RSM and GRA, International Journal of Refractory Metals and Hard Materials 52, 159-164, 2015.
- SR Elsen, T Ramesh, Analysis and optimization of dry sliding wear characteristics of zirconia reinforced alumina composites formed by conventional sintering using response surface method, International Journal of Refractory Metals and Hard Materials 58, 92 -103, 2016.
- 3. **S Renold Elsen**, T Ramesh, Shrinkage characteristics studies on conventional sintered zirconia toughened alumina using computed tomography imaging technique, International Journal of Refractory Metals and Hard Materials 54, 383-394, 2016.
- 4. K Jegadeesan, **R Elsen**, Empirical and finite element prediction and validation of weld bead profile generated during TIG welding process, Global Journal of Pure and Applied Mathematics (GJPAM) 12 (4), 15-20, 2016.
- 5. S Aggarwal, **R Elsen,** Design and Fabrication of CFRP Wheel Centre for FSAE Race-Car, SAE Technical Paper, 2019
- JR Aseer, PB Sethupathi, J Chandradass, R Elsen, Taguchi Based Analysis on Hole Diameter Error of Drilled Glass/Bahunia Racemosa Fiber Polymer Composites, SAE Technical Paper, 2017.
- 7. S Renold Elsen, K Jegadeesan, JR Aseer, X-Ray Diffraction Analysis of Mechanically Milled Alumina and Zirconia Powders, Nano Hybrids and Composites 17, 96-100, 2017.
- 8. **SR Elsen**, K Jegadeesan, JR Aseer, A Comparative Study of Flow Characteristics of BMW M6 and AUDI R8 Commercial Sports Car Using Flow Design Software, Advances in Manufacturing Technology, 243-253, 2019.

- S Renoldelsen, M Vivekananthan, A preliminary study on the physical and biocompatibility characteristics of zirconia-silicon nitride bio-ceramics, IOP Conf Ser Mater Sci Eng 402, 012031, 2018.
- 10. SR Elsen, K Dhamodaran, JR Aseer, Multi-objective optimization of end milling process parameter for stir casted alumina reinforced aluminium metal matrix composite using RSM, IOP Conf. Ser. Mater. Sci. Eng 402, 012193, 2018.
- 11. JR Aseer, SR Elsen, Surendarnath, K Jegadeesan, AM Rilwan, Finite element modeling and damping properties of micro cellulose bahunia racemosa fiber reinforced nylon/polyester hybrid composites, AIP Conference Proceedings 2283 (1), 020048, 2020.
- 12. SJ D'mello, **SR Elsen**, JR Aseer, Generative design study of a remote-controlled plane's wing ribs, AIP Conference Proceedings 2283 (1), 020046, 2020.
- 13. JR ASEER, **R Elsen**, M RILWAN, Finite Element Modeling of Elastic Properties of Flax Fiber Reinforced Epoxy Composites, SAE Technical Paper, 2020.
- 14. J Krishnan, S Krishnapillai, R Elsen, S Chandrasekaran, T Rao, Design and Optimization of Laminated Composite Plate for Maximum Fundamental Frequency, SAE Technical Paper, 2020.
- 15. SS Aulakh, R Elsen, Modeling and Fabrication of CFRP Tubes for Double Wishbone Suspension of Formula SAE Race-Car, SAE Technical Paper, 2020.
- 16. **R Elsen**, J Deepa, Motorist Warning System on Road Bends in Hilly Regions for Safer Riding, SAE Technical Paper, 2020.
- 17. SS Aulakh, D Patil, R Elsen, S Aggarwal, Application of Response Surface Method to Optimize Waterjet Cutting Process Parameter of Glass Fiber Reinforced Polymer Matrix Laminates, SAE Technical Paper, 2019.
- 18. **R Elsen**, K Bharadwaj, T Ramesh, A Parametric Study on Electro Thermally Actuated Novel Compliant Micro gripper, SAE Technical Paper, 2019.
- 19. SR Elsen, R Bharanidaran, S Surendarnath, Biodegradable Composites from Leaf Wastes for Packing Applications, Advances in Manufacturing Technology, 233-241, 2019.

- 20. D Manikandan, S Renold Elsen, Fact-Finding on Physical and Mechanical Properties of 3Y-TZP Toughened Alumina (ZTA) Composites Incorporation of Functionalized Multiwalled Carbon Nano tubes, Advances in Materials and Metallurgy, 249-259, 2019.
- 21. **S.Renold Elsen**, K.Dhamodaran, S.Razak Mohamed, Limbs Related Handicap Drivable Non-Commercial Electric Shuttle Vehicle, SAE Technical Papers, 2018.
- 22. V Mathiyalazhan, **R Elsen**, Bike with Modified Steering System to Assist People with Forearm Disability, SAE Technical Paper, 2018.
- 23. **R Elsen. S,** Experimental Investigation and Optimization of Process Parameters For Conventionally Sintered Zirconia Reinforced Alumina Composites Using Response Surface Method, National Institute of Technology Trichy, 2016.
- 24. **R elsen S,** Development of Electricity free Automatic water filling system for house hold application, International Conference On Innovation Management IM-2015,
- 25. **S.RENOLD ELSEN**, S.Zubair Ahamed, A. Mohammed Rilwan, Linear Hydro Impulse Energy to Torque Converter Device, IN Patent App. 5218/CHE/2015.
- 26. GSBKS Ronald Aseer, J. S. Renold Elsen, Effect of Drilling Process Parameters on Bahunia Racemosa/Glass Fiber Composites using Taguchi Method, International Conference on Advances in Mechanical Engineering 2 (1), 811-814, 2015.
