

Dr. M S Alphin, Sri Sivasubramaniya Nadar college of Engineering, Chennai
(Publication last five years:-2015-2020)

- Raja, S; **Alphin, MS**; Systematic effects of Fe doping on the activity of V₂O₅/TiO₂-carbon nanotube catalyst for NH₃-SCR of NO_x Journal of Nanoparticle Research 22 701-712 Dec 2020 Springer
- Tony, B Jain AR; **Alphin, MS**; Krishnan, G Sri; Simulation of L-4 lumbar spine model of motorist exposed to vibration from speed hump Journal of Orthopaedics 22 390-396 2020 Elsevier
- Raja, S; **Alphin, MS**; Low temperature selective catalytic reduction of NO_x by NH₃ over Cu modified V₂O₅/TiO₂-carbon nanotube catalyst Reaction Kinetics, Mechanisms and Catalysis Jan-18 2020 Springer
- Tony, B Jain AR; **Alphin, MS**; Krishnan, G Sri; Analysis of upper body ergonomic parameters on commuter motorbike users Journal of Transport & Health 16 100828 2020 Elsevier
- Raja, S; **Alphin, MS**; Sivachandiran, L; Promotional effects of modified TiO₂ and Carbon supported V₂O₅ and MnO_x based Catalysts for selective catalytic reduction of NO_x: A Review Catalysis Science & Technology 2020 Royal Society of Chemistry
- Tony, BJA; **Alphin, MS**; Velmurugan, D; Influence of handle shape and size to reduce the hand-arm vibration discomfort Work 63 3 415-426 2019 IOS Press
- Gopal, V; **Alphin, MS**; Bharanidaran, R; Design of Compliant Mechanism Microgripper Utilizing the Hoekens Straight Line Mechanism Journal of Testing and Evaluation 49 3 2019 ASTM International
- Tony, Benedict Jain AR; **Alphin, MS**; Masilamany S; Finite element analysis to assess the biomechanical behavior of a finger model gripping handles with different diameters Biomedical Human Kinetics 11 1 69-79 2019 Sciendo
- Tony, B Jain AR; **Alphin, MS**; Assessment of ergonomically designed handle shapes for low-frequency vibration responses Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications 233 8 1564-1573 2019 SAGE Publications Sage UK: London, England
- Velmurugan, Duraisamy; **Alphin, MS**; Masilamany Santha; Micromotion of immediately loaded zirconia dental implants for various parametric conditions: A three-dimensional finite element study Journal of Biomaterials and Tissue Engineering 8 7 962-971 2018 American Scientific Publishers
- Velmurugan, Duraisamy; **Alphin, MS**; Masilamany Santha; Influence of geometric design variable and bone quality on stress distribution for zirconia dental implants-A 3D finite element analysis Computer Modeling in Engineering & Sciences 117 2 125-141 2018 Tech Science Press
- Velmurugan, Duraisamy; **Alphin, MS**; Masilamany Santha; Tony, Benedict Jain AR; The sensitivity of contact stresses in the mandibular premolar region to the shape of Zirconia dental implant: A 3D finite element study Polish Journal of Medical Physics and Engineering 24 2 55-63 2018 Sciendo

Dr. M S Alphin, Sri Sivasubramaniya Nadar college of Engineering, Chennai
(Publication last five years:-2015-2020)

- Krishnan, Navinkumar; **Alphin, MS**; TTB, Roopan Doss; Biomechanical analysis and comparison of actual lumbarbone with lumbar bone prototype 2017
Biomedical Research
- Koushik Balaji, K; **Alphin, MS**; Computer-aided human factors analysis of the industrial vehicle driver cabin to improve occupational health International journal of injury control and safety promotion 23 3 240-248 2016 Taylor & Francis
- Bharathkumar, Adapala; **Alphin, MS**; Selvaraj, M; New Mechanism to Improve the Competence of Power Generation Applied Mechanics and Materials 852
575-581 2016 Trans Tech Publ
- Siddharth, NS; Vishakaraj, S; **Alphin, MS**; Vigneshwar, M; Vijayakumar, L; Design of a Crank Operated Reciprocating Hacksaw Applied Mechanics and Materials 852
564-567 2016 Trans Tech Publ
- Adapala, Bharathkumar; **Alphin, MS**; Selvaraj, M; New Mechanism to Improve the Competence of Power Generation. Applied Mechanics & Materials 852
2016
- Sriramkausik, K; **Alphin, MS**; Experimental Study for Dynamic and Surface Interaction Characteristics of Knee In-vitro Procedia Engineering 144 321-327 2016
Elsevier