

Name of the DC Member : Dr.N.Senthilkumar
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LIST OF PUBLICATIONS

INTERNATIONAL JOURNALS

1. G. Anbuezhian, B. Mohan, **N. Senthilkumar**, R. Pugazenthi, Synthesis and characterization of silicon nitride reinforced Al-Mg-Zn alloy composites, Metals and Materials International, Doi: 10.1007/s12540-020-00906-3, January 2021. (**Impact Factor: 1.990**)
2. K. Gajalakshmi, **N. Senthilkumar**, B. Mohan, G. Anbuezhian, An investigation on microstructure and mechanical behaviour of copper-nickel coated carbon fibre reinforced aluminium composites, Materials Research Express, Vol. 7, No. 11, Article ID: 115701, November 2020. Doi: 10.1088/2053-1591/abcb4c. (**Impact Factor: 1.929**)
3. C.K. Dhinakarraaj, **N. Senthilkumar**, M.A. Badri and G. Anbuezhian, Vibration and Damping Behavior of Si₃N₄ Reinforced Magnesium Alloy Composite for Structural Applications, Journal of New Materials for Electrochemical Systems, Vol.23, No.3, July, 2020, pp. 182-189. Doi: 10.14447/jnmes.v23i3.a05. (**Impact Factor: 0.259**).
4. C.K. Dhinakarraaj, J. Shivasankar and **N. Senthilkumar**, Investigations of Micro-Milling Parameters in Woven Banana Fibre Reinforced Polymer Composite Filled with Rice Bran Particles, International Journal of Vehicle Structures & Systems, vol. 12, no. 2, pp. 150-156, 2020. Doi: 10.4273/ijvss.12.2.08.
5. D. Murugandhan, R. Valli, **N. Senthilkumar**, S. Arunmozhi, Enhancement of energy storage capacity in lithium polymer batteries incorporated with zirconium oxide nano powders, MaterialsToday: Proceedings, DOI: 10.1016/j.matpr.2020.06.468, 2020.
6. B. Deepanraj, L. Anantha Raman, **N. Senthilkumar**, J. Shivasankar, Investigation and Optimization of Machining Parameters Influence on Surface Roughness in Turning AISI 4340 Steel, FME Transactions, vol. 48, no. 2, pp. 383-390, 2020. Doi: 10.5937/fme2002383B. (**Impact Factor: 1.37**)
7. B. Deepanraj, **N. Senthilkumar**, J. Ranjitha, S. Jayaraj, Hwai Chyuan Ong, Biogas from food waste through anaerobic digestion: optimization with response surface methodology, Biomass Conversion and Biorefinery, 2020. DOI: 10.1007/s13399-020-00646-9, 2020. (**Impact Factor: 2.602**)
8. S. Sundaraselvan, **N. Senthilkumar**, T. Tamizharasan, A. Naveen Sait, Surface modification of AZ61 Magnesium Alloy with Nano TiO₂/Al₂O₃ using Laser Cladding

- Technique, *MaterialsToday: Proceedings*, vol. 21, no. 1, pp. 717-721, 2020. DOI: 10.1016/j.matpr.2019.06.745.
9. A. Muniappan, R. Srinivasan, M.V.V. Sai Sandeep, **N. Senthilkumar**, P.V. Senthil, Mode-1 fracture toughness analysis of coffee bean powder reinforced polymer composite, *MaterialsToday: Proceedings*, vol. 21, no. 1, pp. 537-542, 2020. DOI: 10.1016/j.matpr.2019.06.694, 2019.
 10. S. Thirumalvalavan, **N. Senthilkumar**, Optimizing the wear performance of HVOF Thermal spray coated Ti-6Al-4V alloy by Grey Relational Approach, *International Journal of Rapid Manufacturing*, vol. 9, no. 1, pp. 25-47, 2020. DOI: 10.1504/IJRAPIDM.2020.104418.
 11. M. Anbarasan, **N. Senthilkumar**, T. Tamizharasan, Modelling and Simulation of Conventional Drilling Process using Deform 3D, *International Journal of Mechanical Dynamics & Analysis*, vol. 5, no. 2, pp. 9-16, 2019.
 12. P.E. Anbunathan, G. Perumal, **N. Senthilkumar**, Characterization and Wear studies on Non-Asbestos Organic fiber reinforced low metallic friction composites, *International Journal of Mechanical and Production Engineering Research and Development*, Vol. 9, Special Issue, pp. 133-143, 2019.
 13. V. Monica, G. Kakshmikanth, S. Lathicashree, **N. Senthilkumar**, A. Muniappan, B. Deepanraj, An experimental analysis and optimization of heat treatment parameters of Al6061 alloy for improved mechanical properties, *International Journal of Mechanical and Production Engineering Research and Development*, Vol. 9, Special Issue, pp. 46-59, 2019.
 14. B. Deepanraj, **N. Senthilkumar**, J. Ranjitha, Effect of solid concentration on biogas production through anaerobic digestion of rapeseed oil cake, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (Accepted for Publication). DOI: 10.1080/15567036.2019.1636902. **(Impact Factor: 0.555)**.
 15. P. Vasanthkumar, N. Senthilkumar, K. Palanikumar, N. Rathinam, Influence of Seashell Addition on Thermo-Mechanical Properties of Nylon 66 Polymer Matrix Composite, *Journal of New Materials for Electrochemical Systems*, vol. 22, no. 1, pp. 25-31 (2019). DOI: 10.14447/jnmes.v22i1.a06. **(Impact Factor: 0.259)**.
 16. S. Thirumalvalavan, **N. Senthilkumar**, Experimental Investigation and Optimization of HVOF Spray parameters on wear resistance behaviour of Ti-6Al-4V Alloy, *Comptes rendus de l'Academie bulgare des Sciences*, Vol. 72, No. 5, pp. 665-674, 2019. DOI: 10.7546/CRABS.2019.05.15. **(Impact Factor: 0.321)**
 17. K. Gajalakshmi, **N. Senthilkumar**, B. Prabu, Multi-response Optimization of Dry Sliding Wear Parameters of AA6026 Using Hybrid Grey Relational Analysis Coupled with Response Surface Method, *Measurement and Control*, Vol. 52, No. 5-6, pp. 540-553, 2019. DOI: 10.1177/0020294019842603. **(Impact Factor: 1.229)**

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20. S. Sundaraselvan, **N. Senthilkumar**, Surface Modification of AZ61 Magnesium alloy with nano-Al₂O₃ using Laser Cladding Technique: Optimization of wear properties through Hybrid GRA-PCA, International Journal of Rapid Manufacturing, Volume 8, No. 3, pp. 221-242, 2019. DOI: 10.1504/IJRAPIDM.2019.10020259.
21. S. Ponnuvel, **N. Senthilkumar**, A study on machinability evaluation of Al-Gr-B₄C MMC using response surface methodology-based desirability analysis and artificial neural network technique, International Journal of Rapid Manufacturing, Vol. 8, No. 1-2, pp. 95-122, 2019. DOI: 10.1504/IJRAPIDM.2019.10017666.
22. S. Sundaraselvan, **N. Senthilkumar**, Dry Sliding wear behaviour of surface modified AZ61 Magnesium alloy reinforced with Nano Titanium Dioxide, Journal of the Balkan Tribological Association, Vol. 24, No 3, pp. 429-452, 2018.
23. G. Hariharan, **N. Senthilkumar**, S. Gopalakannan, Modeling & Numerical Analysis of Supersonic Combustor with double inclined ramp-cavity fuel injector, International Journal of Mechanical and Production Engineering Research and Development, Vol. 8, No. 8, pp. 326-331, 2018.
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- Treatment, Vol. 85, pp. 68-72, 2017. Doi: 10.5004/dwt.2017.21189. (**Impact Factor: 1.631**)
29. **N. Senthilkumar**, B. Deepanraj, K. Vasantharaj, V. Sivasubramanian, Optimization and performance analysis of process parameters during anaerobic digestion of food waste using hybrid GRA-PCA technique, Journal of Renewable Sustainable Energy 8, 063107 (2016); doi: 10.1063/1.4972884. (**Impact Factor: 1.611**)
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 35. B. Deepanraj, G. Sankaranarayanan, **N. Senthilkumar**, M. Pugazhivadivu, Influence of dimethoxymethane addition on performance, emission and combustion characteristics of the diesel engine, International Journal of Ambient Energy, Vol. 38, No. 6, pp. 622-626, 2017. DOI:10.1080/01430750.2016.1181568.
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39. **N. Senthilkumar**, T. Tamizharasan, Flank Wear and Surface Roughness prediction in Hard Turning via Artificial Neural Network and Multiple Regressions, Australian Journal of Mechanical Engineering. Vol. 13, No. 1, pp. 31-45, 2015. DOI:10.7158/M13-045.2015.13.1. (Impact Factor: 0.555)