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#### **Overview:-**

Dr. P. Vasanthkumar Working as an Assistant Professor (Sr.G) in the Department of Mechanical Engineering at SRMIST, Ramapuram. He Graduated in Mechanical Engineering at Anna University, Chennai, Tamilnadu, India. He secured Master of Engineering in Thermal Engineering at Anna University, Chennai, India. He Pursued Ph.D. in the field of Polymer Matrix Composites at Anna University, Chennai, India. He is in teaching profession for more than 16 years. A number of papers he has presented at conferences and symposiums have been presented at national and international levels.

#### **Areas of Research:**

Polymer Matrix Composites, Phase Change Materials, Cold Thermal Energy Storage Systems

#### **Selected Publications:**

##### **SCI / WoS**

1. P. V. Arunraj, **P. Vasanthkumar**, N. Senthilkumar, K. Dhandapani, 2023, Fabrication and characterization of ceramic foam material for vibration reduction, AIP Conference Proceedings, Vol. 2690, Article ID. 020033, pp. 1-8. <https://doi.org/10.1063/5.0119700>.
2. P. Balu, **P. Vasanthkumar**, P. Govindan & T. Sathish (2023) An experimental investigation on ceramic coating with retarded injection timing on diesel engine using Karanja oil methyl ester, International Journal of Ambient Energy, Vol. 44, no 1, pp. 1031-1035, DOI: 10.1080/01430750.2022.2161632. **Impact Factor: 2.236.**
3. S.Esakkiyappan, S.Chockalingam, P.VasanthKumar, V.Aakash, G.S.Sudhir, S. Raveen Kumar & A. Mohammed Saif, 2022, Experimental Study of Magneto Rheological Suspension Systems with Addition of Multi-Walled Carbon Nano-Tubes on the CI particles, AIP Conference Proceedings 2648, Article ID. 030006, pp. 1-7. <https://doi.org/10.1063/5.0115606> .
4. **P. Vasanthkumar**, R. Balasundaram, N. Senthilkumar, K. Palanikumar, K. Lenin, B. Deepanraj, 2022, Thermal and thermo-mechanical studies on seashell incorporated Nylon-6 polymer

composites, Journal of Materials Research and Technology, Vol. 21, pp. 3154-3168. <https://doi.org/10.1016/j.jmrt.2022.10.117> . **Impact Factor: 6.4.**

5. **P.Vasanthkumar**, N.Senthilkumar, Koppula Srinivas Rao, Ahmed Sayed Mohammed Metwally, Islam MR.Fattah, T.Shaafi, V.SakthiMurugan, 2022, Improving energy consumption prediction for residential buildings using Modified Wild Horse Optimization with Deep Learning model, Chemosphere, Volume 308, Part 1, Dec 2022, 136277. <https://doi.org/10.1016/j.chemosphere.2022.136277> **Impact Factor: 8.943.**
6. **P. Vasanthkumar**, A.R. Revathi, G. Ramya Devi, R.J. Kavitha, A. Muniappan, C. Karthikeyan, Improved wild horse optimizer with deep learning enabled battery management system for internet of things based hybrid electric vehicles, Sustainable Energy Technologies and Assessments, Vol. 52, Article No. 102281, 2022. <https://doi.org/10.1016/j.seta.2022.102281> **Impact Factor: 8.**
7. **P. Vasanthkumar**, Balasundaram, R & Senthilkumar, N 2022, ‘Sliding- Friction Wear of Seashell Particulate Reinforced Polymer Matrix Composite: Modeling and Optimization through RSM and Grey Wolf Optimizer’, Transactions of the Canadian Society for Mechanical Engineering, vol. 46, issue 2, pp. 329-345, 2022. <https://doi.org/10.1139/tcsme-2021-0139> . **Impact Factor: 1.45.**
8. Yoganand K, **Vasanthkumar P**, Poongundran U, Mohanraj M, Jothi Ramalingam R, Hamad Al-Lohedan, Dhaifallah M. Al-dhayan, and Ishwarya Komalnu R, Influence of Aluminum Silicate and Cerium (IV) Oxide Nanofluid on Pool Boiling Characteristics, International Journal of Photoenergy, Volume 2022, Article ID 5357053, 2022. <https://doi.org/10.1155/2022/5357053> . **Impact Factor: 3.2.**
9. P. Vetrivezhan, C. Ayyanar, P.V. Arunraj, **P. Vasanthkumar**, D. Ganesan, Electroless deposition of aluminium alloy LM25 by SiC and Ni-P nano coating, Materials Today: Proceedings, Vol. 45, pp. 6449-6453, 2021. <https://doi.org/10.1016/j.matpr.2020.11.280> . **Impact Factor: 1.46.**
10. **P Vasanthkumar**, P V Arunraj, N Mohammed Bilal Khan , A V Akash, R. Mukunthan, R. Harish Babu, Fuzzy Logic Algorithm and GSM IoT Based Fire Fighting Robot, Journal of Physics: Conference Series, Vol. 2040 Article No. 012045, 2021, pp. 1-8, <https://doi.org/10.1088/1742-6596/2040/1/012045> .
11. Vasanthkumar P, Senthilkumar N, Palanikumar K, & Rathinam N, 2019, ‘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. <https://doi.org/10.14447/jnmes.v22i1.a06>. **Impact Factor: 1.316.**

**Patents:**

1. Published a patent as a co-inventor as a title of “3 Phase BLDC Electric Wheel Hub Motor with Inner Rotor and Outer Stator Configuration” on 20th May, 2022.
2. Published a patent as a co-inventor as a title of “Design and Optimization of Rescue robot for Deep Well Applicant” on 08th January 2021.
3. Published a patent as a co-inventor as a title of “Design and Optimization of Carbon Particulate Elimination in Diesel Exhaust Emissions” on 26th June 2020

**Web Link:**

**Google Scholar:** <https://scholar.google.co.in/citations?user=fwmofFoAAAAJ&hl=en>

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