Dr. N. Shenbaga Vinayaga Moorthi

Professor

Department of Mechanical Engineering,

University V.O.C. College Of Engineering, Thoothukudi Campus,

7th Street West, Bryant Nagar Main Road, Thoothukudi, Tamil Nadu 628008.

Email ID: nsvmoorthi@gmail.com

Contact No.: + 91 94436 2002.

List of Publications

- 1 Hariharan G, Shenbaga Vinayaga Moorthi N, Karthickeyan D, and Thanikaikarasan S, "Influence of Annealing Temperature on the Characteristics of Chemical Bath Deposited Zinc Sulphide Thin Films for Solar Cell Applications" Journal of New Materials for Electrochemical Systems, Volume 22, Number 1, March 2019, pp xxx-xxx. (Paper No. JNMES 19-03-1201) Accepted for Publication in Volume 22 (2019).
- **2** Hariharan G, Shenbaga Vinayaga Moorthi N and Karthickeyan D, "Effect of Post Annealing on the Characteristics of Zinc Sulphide Thin Films formed by Chemical Bath Deposition for Solar Cell Applications" Journal of the Balkan Tribological Association, Volume 25, Number 2, 2019, pp 331-341.
- **3** Hariharan G and Shenbaga Vinayaga Moorthi N, "Wear Performance of Hybrid Ceramic Reinforced Aluminium Metal Matrix Composite" Journal of the Balkan Tribological Association, Volume 25, Number 1, 2019, pp 113-130.
- 4 Hariharan G, Shenbaga Vinayaga Moorthi N and Dharani AP, "Synthesis and Structural Characterization of Nano Structured Zinc Sulphide Thin Films Grown on Glass Substrate by Chemical Bath Deposition", International Journal of Advanced Engineering Technology, Volume VII, Issue II, April-June 2016, pp 1191-1194.
- **5** Arun Vijay G, and Shenbaga Vinayaga Moorthi N, "Improved Linearized Breakup Model for the Liquid Sheets Produced by Swirl Atomizers" Journal of Propulsion and Power, Volume 32, Number 2, March-April 2016, pp 448-455.
- 6 Shenbaga Vinayaga Moorthi N, Arul Franco P and Ramesh K, "Application of Design of Experiments and Artificial Neural Network in Optimization of Ultrasonic Energy Assisted Transesterification of Sardinella Longiceps Fish Oil to Biodiesel", Journal of the Chinese Institute of Engineers (JCIE), Volume 38, Issue 6, September 2015, pp 731-741.
- **7** Venkatesan M, Shenbaga Vinayaga Moorthi N, Arul Franco P, Karthikeyan R and Manivannan A, "Spark-Assisted HCCI Engine using Hydrous Methanol as a Fuel: An ANN Approach", Biofuels, Bioproducts and Biorefining, Volume 9, Number 4,

- July/August 2015, pp 344-357.
- 8 Venkatesan M, Shenbaga Vinayaga Moorthi N, Karthikeyan R Manivannan A and Sathish Gandhi V C, "Experimental Investigation on Hydrous Methanol Fuelled Homogeneous Charge Compression Ignition Engine Using Spark Assisted Method", International Journal of Engineering (IJE Transactions A: Basics), Volume 28, Number 7, July 2015, pp 1099-1107.
- **9** Kathirvelu S, Shenbaga Vinayaga Moorthi N, Neelakrishnan S, "Biodiesel Production from High FFA Tree Born Non-Edible Ceiba Pentandra Seed Oil", International Journal for Technological Research in Engineering, Volume 2, Issue 7, March-2015, pp 1100-1106.
- **10** Anand Pratheeban C M, Rajendran M, Vettivel S C, Suresh S and Moorthi N S V, "Mechanical Behavior and Failure Analysis Using Online Acoustic Emission on Nano-Graphite Reinforced Al6061–10TiB2 Hybrid Composite Using Powder Metallurgy", Materials Science and Engineering: A, Volume 632, 24th April 2015, pp 1-13.
- 11 Venkatesan M, Shenbaga Vinayaga Moorthi N, Arul Franco P, Manivannan A and Karthikeyan R, "Hydrous Methanol Fuelled HCCI Using Ignition Improver CAI Method ANN Approach", Mechanics and Mechanical Engineering, International Journal, Volume 19, Number 1, February 2015, pp 31-49.
- **12** Kathirvelu S, Shenbaga Vinayaga Moorthi N, Neelakrishnan S and Santhose M, "Performance, Emission and Combustion Characteristics of Neat Non-Edible Oil Methyl Ester as an Alternative Bio-Fuel for Variable Compression Ratio (VCR) Direct Injection (DI) Diesel Engine", International Journal of Applied Engineering Research, Volume 10, Number 38, 2015 Spl., pp 29327-29333.
- **13** Ashok M, Shenbaga Vinayaga Moorthi N and Neelakrishnan S, "Numerical Analysis of Automobile Cabin Temperature Variation with different Sun Shades for its Windows and Rear Wind Screen Glasses", International Journal of Applied Engineering Research, Volume 10, Number 9, 2015 Spl., pp 13747-13754.
- **14** Arun Vijay G, Shenbaga Vinayaga Moorthi N and Manivannan A, "Internal and External Flow Characteristics of Swirl Atomizers: A Review" Atomization and Sprays, Volume 25, Issue 2, February 2015, pp 153-188.
- **15** Arunachalam U, Shenbaga Vinayaga Moorthi N and Veeramani P, "Conductive Heat Transfer Behaviour of Electro-Deposited Nickel-Tungsten Alloy Coating", Journal of Scientific and Industrial Research, Volume 73, Number 12, December 2014, pp 777-780.
- **16** Kathirvelu S, Shenbaga Vinayaga Moorthi N, Neelakrishnan S and Kuppusamy N, "An Experimental Investigation to Study the Performance, Emissions and Combustion Characteristics of Ceiba Pentandra Oil Methyl Ester as a Renewable Bio-Fuel for Diesel Engine", International Journal of Applied Engineering Research,

- Volume 9, Number 24, December 2014, pp 26151-26163.
- 17 Kathirvelu S, Shenbaga Vinayaga Moorthi N, Neelakrishnan S and Krishnaswamy T, "Production of Biodiesel from Non-Edible Ceiba Pentandra Seed Oil Having High FFA Content", ARPN Journal of Engineering and Applied Sciences, Volume 9, Number 12, December 2014, pp 2625-2634.
- **18** Arul Franco P, Shenbaga Vinayaga Moorthi N and Sathish Gandhi V C, "Performance and Emission Study of Sardine Fish Oil Biodiesel in a Diesel Engine", Oxidation Communications, Volume 37, Number 3, October 2014, pp 802-816.
- **19** Venkatesan M, Shenbaga Vinayaga Moorthi N, Karthikeyan R and Manivannan A, "Experimental Investigation on DEE-assisted Hydrous Methanol-Fuelled HCCI Engine", Oxidation Communications, Volume 37, Number 3, October 2014, pp 786-801.
- **20** Suresh S, Shenbaga Vinayaga Moorthi N, Selvakumar N and Vettivel S C, "Tribological, Tensile and Hardness Behaviour of TiB2 Reinforced Aluminium Metal Matrix Composite", Journal of the Balkan Tribological Association, Volume 20, Number 3, October 2014, pp 380-394.
- 21 Kathirvelu S, Shenbaga Vinayaga Moorthi N, Neelakrishnan S and Koshy Mathews P, "An Experimental Investigation on neat Ceiba Pentandra Oil Methyl Ester as a Renewable Bio-Fuel for Diesel Engine", International Journal of ChemTech Research, Volume 7, Number 4, September 2014, pp 1675-1681.
- **22** Arul Franco P, Shenbaga Vinayaga Moorthi N and Venkatesan M, "FT-IR Determination of Free Fatty Acids in Sardinella Longiceps Fish Oil and its Performance and Emission Characteristics in DI Diesel Engine", International Journal of ChemTech Research, Volume 6, Number 7, September 2014, pp 3776-3783.
- 23 Suresh S, Shenbaga Vinayaga Moorthi N, Vettivel S C, Selvakumar N and Jinu G R, "Effect of Graphite Addition on Mechanical Behavior of Al6061/TiB2 Hybrid Composite using Acoustic Emission", Materials Science and Engineering: A, Volume 612, August 2014, pp 16-27.
- **24** Venkatesan M, Shenbaga Vinayaga Moorthi N, Karthikeyan R and Manivannan A, "Experimental Study on Hydrous Methanol Fuelled HCCI Engine using Air Pre-Heater Assisted Controlled Auto Ignition", Transactions of FAMENA, Volume 38, Number 2, July 2014, pp 53-66.
- **25** Suresh S, Shenbaga Vinayaga Moorthi N, Vettivel S C and Selvakumar N, "Mechanical Behavior and Wear Prediction of Stir Cast Al-TiB2 Composites using Response Surface Methodology", Materials & Design, Volume 59, July 2014, pp 383-396.
- **26** Esakkiraj E S, Suresh S, Shenbaga Vinayaga Moorthi N, Krishnakumar M and Jenin

- Ranjith S M, "Study of Mechanical Behavior of Stir Cast Aluminium Based Composite Reinforced with Mechanically Ball Milled TiB2 Nano Particles", Advanced Materials Research, Volume 984-985, July 2014 (ICRAMID 2014), pp 410-415.
- 27 Suresh S, Shenbaga Vinayaga Moorthi N and Emmy Prema C, "Tribological and Mechanical Behavior Study of Al6061-TiB2 Metal Matrix Composites Using Stir Casting", Advanced Materials Research, Volumes 984-985, July 2014 (ICRAMID 2014), pp 200-206.
- 28 Arul Franco P, Shenbaga Vinayaga Moorthi N and Stanly Thomas D, "Taguchi Orthogonal Array Based Parameter Optimization of Biodiesel Production from Fish Oil using Ultrasonic Energy", Research Journal of Applied Sciences, Engineering and Technology, Volume 7, Number 7, February 2014, pp 1220-1225.
- 29 Venkatesan M, Shenbaga Vinayaga Moorthi N, Karthikeyan R and Manivannan A, "Di-Methyl Ether as an Ignition Improver for Hydrous Methanol Fuelled Homogeneous Charge Compression Ignition (HCCI) Engine", World Academy of Science, Engineering and Technology, International Journal of Mechanical, Industrial Science and Engineering, Volume 8, Number 1, January 2014, pp 244-249.