



Head - SET | Program Chair - ME

Dr. Amarish Badgujar

School of Engineering and Technology

Qualifications

- PhD - Mechanical Engineering (IIT Bombay, Mumbai)
- MTech - Mechanical Engineering (L.D. College of Engineering, Ahmedabad)
- BTech - Mechanical Engineering (L.E. College, Morbi)

Contact Details

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Research Area

- Cryogenic Engineering
- Thermal Science & Fluid Engineering

Work Experience

- Industrial Experience - 4 Years
- Teaching & Research - 19 years

Professional Achievements

- Reviewer of the Reputed International Journals and International Conferences.
- Editorial Board Member of reputed Journals
- Involved in Consultancy work with reputed industries in India.

Publications

- Dipali Pandya, Amarish Badgujar & Nilesh Ghetiya (2020) A novel perception toward welding of stainless steel by activated TIG welding: a review, Materials and Manufacturing Processes, DOI: 10.1080/10426914.2020.1854467, IF 3.69

- Vivek Patel, Nirvesh Mehta, Kamlesh Mehta, Amarish Badgujar, Shreya Mehta & Nisha Bora "Experimental Investigation of Flat Plate Cryogenic Oscillating Heat Pipe" *Journal of Low Temperature Physics - a Springer Nature Journal*, 198, Pages 41-55(2020) <https://link.springer.com/article/10.1007/s10909-019-02243-1>, IF 1.491.
- D.P. Pandya and A.D. Badgujar, Optimization of Weld Bead Geometry for Flux Bounded Tungsten Inert Gas Welding of 316L Stainless Steel, Vol. 2, Issue 2, February 2020 *Interwoven* pages 56-66 (2020)
- V. K. Parikh, A. D. Badgujar, N. D. Ghetiya (2019), "Joining of Metal Matrix Composites Using Friction Stir Welding: A Review" available online on *Journal of Materials and Manufacturing Processes*, Volume 34, 2019 - Issue 2 pp 123-146, IF: 3.046
- A. D. Badgujar, M. D. Atrey (2014) Theoretical and experimental investigations on Stirling-type pulse tube cryocoolers with U-type configuration to achieve temperature below 20 K, *Journal of Mechanical Engineering Science - Part C* 229, Issue 6, PP. 1112-1121, ISSN: 0954-4062, ISSN: 2041-2983, <https://doi.org/10.1177/0954406214542490>, Thomson Reuters Engineering
- A. D. Badgujar, M. D. Atrey (2015) Theoretical and experimental investigation of pressure drop and refrigeration effect in pulse tube cryocooler *Journal of Mechanical Engineering Science - Part C* 230, Issue 11, PP. 1910-1920, ISSN: 0954-4062. ISSN: 2041-2983, <https://doi.org/10.1177/0954406215584393>, Thomson Reuters Engineering
- A. D. Badgujar, M. D. Atrey (2016) Investigation on Thermal Coupled Three Stage Pulse Tube Cryocooler, *Indian Journal of Cryogenics*, 41, 75-80, 0379-0479, Thomson Reuters Engineering
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- A. D. Badgujar, M. D. Atrey (2011) Experimental Investigations on Stirling type Two stage Pulse tube Cryocooler with U type Configuration, *Indian Journal of Cryogenics*, 36, 126-130, 0379-0479, Thomson Reuters Engineering
- A. D. Badgujar, M. D. Atrey (2010) Theoretical and Experimental Investigations on Flow Straighteners in U-type Pulse Tube Cryocooler *Proceedings of 16th International Cryocooler Conference*, 16, 211-217, ISBN-13: 978-1934021026, <http://hdl.handle.net/1853/38780>, Thomson Reuters Engineering
- A. D. Badgujar, M. D. Atrey (2011) Development of 20 K Stirling type Two stage Pulse tube Cryocooler with U Configuration, presented at Asian Cryogenic and Applied Superconductivity Conference
- A. D. Badgujar, Viren Parikh, N. D. Ghetiya (2017) Development of Statistical Model for Predicting Hardness of Friction Stir Welded Dissimilar Aluminium Alloys *International journal of Advance Science and Engineering* Volume 06, Issue 04 PP. 185-190, ISSN: 2319-8354 2319-8346
- A. D. Badgujar, D. P. Pandya, N. D. Ghetiya (2017) Development of Statistical Model for Predicting Hardness of Friction Stir Welded Dissimilar Aluminium Alloy, *International journal of Advance Science and Engineering* Volume 06, Issue 04 PP 191-197 ISSN: 2319-835 2319-8346
- A. D. Badgujar(2015) Investigation on Air separation plant design at Cryogenic Temperature *Journal of Refrigeration Air conditioning heating and ventilation*, 1, 20-25, 2349-2152
- A. D. Badgujar (2017) Experimental Investigation of a Four Stroke Diesel Engine for Varying Fuel Injection Pressure and Compression Ratio, *Journal of Automobile Engineering and Applications*, 3, 23956674
- Priyal Sheth, A. D. Badgujar (2015) Developing safety system for monitoring seat belt and controlling speed accordingly to avoid fatal injuries *International Journal of Scientific and Research*, Vol. 5, issue 10, 1-5, 2250-3153
- A. D. Badgujar (2015) Refrigeration and Air conditioning systems an overview *Journal of Refrigeration Air conditioning heating and ventilation*, 2, 1-4, 2349-2152

- A. D. Badgujar, H. B. Naik, M. D. Atrey (2015) Experimental investigation on Stirling type thermally coupled three stage pulse tube cryocoolers with 'U' type configuration, 25th International Cryogenic Engineering Conference, Physics, Procedia, 67, 513-517 1875-3892
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- A. D. Badgujar, Viren Parikh, N. D. Ghetiya (2017) Multi-Objective Optimization of FSW Process Parameter Using MOORA Method International Conference on Production, Mechanical And Automobile Engineering, PP. 19-24, 978-93-85225-88-8
- A. D. Badgujar, D. P. Pandya, N. D. Ghetiya (2017) Multi-objective optimization of activated tig welding process parameters using promethee International Conference on Production, Mechanical And Automobile Engineering, PP. 25-30, 978-93-85225-88-8
- A. D. Badgujar, D. P. Pandya, N. D. Ghetiya (2017) Multi-objective Optimization on the Basis of ratio analysis (MOORA) method for Activated TIG welded Stainless Steel plat , International conference on Emerging trends in engineering technology science and management,978-93-86171-38-2
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- A. D. Badgujar, M. D. Atrey (2014) Experimental Investigation on Stirling type single stage and two stage pulse tube cryocooler with U type of configuration. Mechanical Engineering Graduate Research Symposium, 1, 39-40
- Shah Dipal., A.D. Badgujar (2015) Experimental Investigation on capillary tube an expansion device Innovating for development and sustainability
- Priyal Sheth, A.D. Badgujar (2015) Developing motion based car simulator Innovating for development and sustainability
- A. D. Badgujar (2008) Analytical design of tonnage plant for separation of high purity nitrogen, oxygen and argon from atmospheric air National conference on AFTME
- Keshwani Mukesh P, Jani Deepak S, Chaudhari Ajit N, Badgujar Amarish D (2017) Heat Spreading Characteristics of Heat Sink for Cooling a Concentrated Heat Source National conference on Progress, Research and Innovation in Mechanical Engineering, SCET
- Keshwani Mukesh P, Jani Deepak S, Chaudhari Ajit N, Badgujar Amarish D (2017) Effect of Nano Fluid on Heat Transfer in Corrugated Tube Heat Exchangers National conference on Progress, Research and Innovation in Mechanical Engineering, SCET
- Hemnani Sumeet N, Keshwani Mukesh P, Badgujar Amarish D (2017) Evolution of Generation of Biofuels- A Critical Review National conference on Progress, Research and Innovation in Mechanical Engineering, SCET
- Keshwani Mukesh P, Jani Deepak S, Chaudhari Ajit N, Badgujar Amarish D (2017) Numerical Analysis on Thermal Conductivity of Vapor Chamber Using an Iterative Approach International Conference on Research and Innovation in Science Engineering & Technology at BVM Engineering College