

## **Dr. Muhammad Abdul Mujeebu**

### **Associate Professor**

College of Architecture and Planning

Department of Building Engineering

Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia

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**Nationality: Indian**



### **Profile Highlights:**

- Listed among the world's top 2% most-cited researchers by Stanford University in 2020, 2021 and 2022.
- Selected as Engineering Program Evaluator by ABET, USA.
- MIET: Member of the Institution of Engineering and Technology, UK.
- Member of American Academy of Environmental Engineers and Scientists
- Exposure to QS and THE world university ranking process
- Significant experience in academic quality and accreditation processes.
- Excellent teaching record of 25 years in undergraduate and graduate levels.
- Over 80 publications in highly indexed journals.
- Strong research, analytical, and writing abilities.
- Novel projects worth funding and having commercial potential ready at hand.
- Clear strategic goals and objectives to improve the profile of an academic setup.
- Wide research collaboration network.
- Strong communication and interpersonal skills.
- Strong passion to work with full loyalty and commitment to the employer.
- Strong exposure to administrative committees with proven record of quality delivery of assignments.
- Uncompromised adherence to professional ethics and integrity.

### **Scopus Profile:**

57076945500; <https://www.scopus.com/authid/detail.uri?authorId=57076945500>

### **WoS Profile:**

Q-2973-2019; <https://www.webofscience.com/wos/author/record/1181171>

### **ORCID ID & Profile:**

0000-0001-5057-5206; <http://orcid.org/0000-0001-5057-5206>

### **Research Gate Profile:**

[https://www.researchgate.net/profile/M\\_Abdul\\_Mujeebu2](https://www.researchgate.net/profile/M_Abdul_Mujeebu2)

### **Google Scholar Profile:**

<http://scholar.google.com.sg/citations?user=gaVNggcAAAAJ&hl=en>

### **LinkedIn Profile:**

<https://sa.linkedin.com/in/dr-abdul-mujeebu-m-69477684>

### **Facebook**

<https://www.facebook.com/muhammad.abdulmujeebu.5>

### **Twitter**

<https://twitter.com/MAbdulMujeebu>

## **RESEARCH AREAS**

- ✚ Energy and thermal performance of buildings
- ✚ Green buildings
- ✚ Indoor air quality
- ✚ Building sustainability
- ✚ Combustion in porous media
- ✚ Industrial cogeneration (CHP) and trigeneration (CCHP)
- ✚ Energy efficient refrigeration systems
- ✚ Energy Harvesting from Pavements

- ✚ Energy from waste
- ✚ Absorption refrigeration system
- ✚ Micro combustors & MEMS
- ✚ Electronic cooling & packaging
- ✚ CFD analysis of energy systems
- ✚ IC engines and combustion
- ✚ Heat pipes for CPU cooling
- ✚ Composite materials
- ✚ Nanotechnology
- ✚ Higher education quality
- ✚ Reforms in Science and Technology Education

## EDUCATIONAL QUALIFICATION

Degree	Major/Specialization	University	Qualifying Year
Postdoctoral Fellowship	Energy Management: Combustion in Porous Media	Universiti Sains Malaysia, Penang, Malaysia	2011
Doctor of Philosophy (PhD)	Energy Management: Combustion in Porous Media	Universiti Sains Malaysia, Penang, Malaysia	2010
Master of Technology (M Tech)	Energy Management	National Institute of Technology Calicut, India	2004
Bachelor of Technology (B Tech)	Mechanical Engineering	Kerala University, India	1988

## EMPLOYMENT HISTORY

**Current Job:** May 2013 till date: Associate Professor, Department of Building Engineering, College of Architecture and Planning, Imam Abdulrahman Bin Faisal University (previously University of Dammam), Saudi Arabia

<http://www.uod.edu.sa/en/colleges/college-of-architecture-and-planning/faculty/dr-muhammad-abdul-mujeebu>

### Responsibilities:

- ✓ Teaching Research Methods, Technical Writing, Senior Project Report, Design Studio – Integrated Building Design, Graduation Research and Application.
- ✓ Head of Quality and Academic Accreditation, College of Architecture and Planning.
- ✓ Member, Risk Management Committee, College of Architecture and Planning.
- ✓ Member, Doctoral Programs Committee, Dept. of Building Engineering.
- ✓ Coordinator, Academic Quality Assurance Unit, Dept. of Building Engineering
- ✓ Head, Program Assessment & Annual Program Report Committee
- ✓ Member, External Advisory Panel, Building Engineering program.
- ✓ Member of Quality Assurance Committee, Dept. of Building Engineering
- ✓ Member, Basic Sciences Committee, Dept. of Building Engineering

- ✓ Member, Building Services Committee, Dept. of Building Engineering

### **Previous Jobs**

**1. December 2011 May 2013: Professor of Mechanical Engineering, and Director of Postgraduate Studies and Research**

Anjuman Institute of Technology and Management, Bhatkal ([Visvesvaraya Technological University, Belgaum](#)), India

**2. December 2010 - November 2011: Postdoctoral Fellow**

Universiti Sains Malaysia (Science University of Malaysia), Penang, Malaysia

**3. September 2007 - November 2010: Research officer**

School of Mechanical Engineering, Universiti Sains Malaysia, Penang, Malaysia (worked as research officer parallel to PhD program)

**4. March 1998- August 2007: Teaching Faculty**

Anjuman Institute of Technology and Management, Bhatkal Anjuman Institute of Technology and Management, Bhatkal ([Visvesvaraya Technological University, Belgaum](#)), India

1998 to 2004: Lecturer

2004 to 2006: Senior lecturer

2006 to 2007: Assistant Professor

2007 to 2011: Deputed for higher studies

Dec 2011- Joined back, and was promoted to Professor

**5. August 1989 –February 1998: Industrial Jobs**

August 1989\_– July 1990: Project Supervisor at Ajssir Constructions, Alwaye Kerala, India

May 1991 – June 1993: Production Engineer at Nafee Electronics, Bangalore, India

April 1995 – Feb. 1998: Production Engineer at HHYS Group of Concerns, Kerala, India

## **LIST OF PUBLICATIONS**

### **International Refereed Journals**

2023

1. Waleed Khalid Alhuwayil, Faris Almaziad, and **M. Abdul Mujeebu**. Energy performance of passive shading and thermal insulation in multistory hotel building under different outdoor climates and geographic locations. *Case Studies in Thermal Engineering*. 2023. 45: 102940.
2. M. Palanisamy, L. K. Kaushik, A. K. Mahalingam, S. Deb, P. Maurya, S. R. Shaik, and **M. Abdul Mujeebu**. Evolutions in Gaseous and Liquid Fuel Cook-Stove Technologies. *Energies*. 2023. 16(2): 763: <https://doi.org/10.3390/en16020763>
3. M. Toledo, A. Arriagada, N. Ripoll, E. A. Salgansky, **M. Abdul Mujeebu**. Hydrogen and syngas production by hybrid filtration combustion: Progress and challenges. *Renewable and Sustainable Energy Reviews*. 2023. 177: 113213: <https://doi.org/10.1016/j.rser.2023.113213>

## 2022

4. Fahad Al-Amri, Farooq Saeed and **M. Abdul Mujeebu**. Novel dual-function racking structure for passive cooling of solar PV panels –thermal performance analysis. *Renewable Energy*. 198 (2022) 100–113.
5. Isam Qasem, Ahmed A Hussien, Ayub Ahmed Janvekar, Pramodkumar S Kataraki, Mirosław Pracki, and **M. Abdul Mujeebu**. Experimental Study for Optimizing Superfinishing Process Parameters of High-Quality Alloy Bearing Steel. *Surface Topography: Metrology and Properties*. 2022. 10 (3): 035004.
6. **M. Abdul Mujeebu** and Farheen Bano. Integration of passive energy conservation measures in a detached residential building design in warm humid climate. *Energy*. 2022. 255(15 September): 124587.
7. Mohammad Aqil, . **Abdul Mujeebu**, Shafiq Ur Rehman and Shakil Ahmad. Scholarly output of energy and fuels research in Saudi Arabia during 1972–2020: a bibliometric analysis. *Arabian Journal of Geosciences*. 15, 1082 (2022) <https://link.springer.com/article/10.1007/s12517-022-10307-y>
8. **M. Abdul Mujeebu** and Farheen Bano. Energy-saving potential and cost-effectiveness of active energy-efficiency measures for residential building in warm-humid climate. *Energy for Sustainable Development*. 67(2022): 163-176.

## 2021

9. Arshied Manzoor, Mohammad Ali Khan, **M. Abdul Mujeebu**, Rayees Ahmad Shiekh. Comparative study of microwave assisted and conventional osmotic dehydration of apple cubes at a constant temperature. *Journal of Agriculture and Food Research*. 5(2021): 100176.
10. **M. Abdul Mujeebu**. Top 100 Countries in the Elsevier-Stanford University List of World's 2% Most-Cited Scientists. *International Journal of Advanced Thermofluid Research*. 2021. 7(2):1-12.

## 2020

11. **M. Abdul Mujeebu**. Green nanomaterials and nanotechnologies for energy applications. *International Journal of Advanced Thermofluid Research*. 2020. 6(1):1-14.
12. Asif Afzal and **M. Abdul Mujeebu**. Impact of Curved Vents, Holes and Slots on Thermo-mechanical Behavior of Automobile Disc Brake - FEM Simulation and Validation. *International Journal of Advanced Thermofluid Research*. 2020. 6(1):35-53.

## 2019

13. **M. Abdul Mujeebu** and Noman Ashraf. Impact of location and deadband on energy performance of nano aerogel glazing for office building in Saudi Arabia. *Building Research & Information* 2019; 48:6, 645-658. DOI: [10.1080/09613218.2019.1696171](https://doi.org/10.1080/09613218.2019.1696171).
14. Saifuddin Ahmad, **M. Abdul Mujeebu** and M. Ahmadullah Farooqi. Energy Harvesting from Pavements and Roadways – A Comprehensive Review of Technologies, Materials and Challenges. *International Journal of Energy Research* 2019 43(6): 1974-2015.
15. Waleed Khalid Alhuwayil, **M. Abdul Mujeebu** and Ali Mohammed M. Algarny. Impact of External Shading Strategy on Energy Performance of Multi-Story Hotel Building in Hot-humid Climate. *Energy* 2019 (169): 1166-1174.
16. CA Saleel, **M Abdul Mujeebu** and Salem Algarni. Coconut Oil as Phase Change Material to Maintain Thermal Comfort in Passenger Vehicles – An Experimental Analysis. *Journal of Thermal Analysis and Calorimetry* (2019) 136(2): 629-636.

17. Pedram Abdoli, Seyed Amin Hosseini and **M. Abdul Mujeebu**. Effect of Preheating Inlet Air and Acid Gas on the Performance of Sulfur Recovery Unit—CFD Simulation and Validation. *Forschung im Ingenieurwesen* (2019) 83 (1): 81-89.
18. Rehan Jamil and **M. Abdul Mujeebu**. Empirical Relation between Hazen-Williams and Darcy-Weisbach Equations for Cold and Hot Water Flow in Plastic Pipes. *Water* 10: 104-114. Available Online: <http://waterjournal.org/volume-10/jamil-summary>
19. **M. Abdul Mujeebu**. Nanofluids for energy applications. *International Journal of Advanced Thermofluid Research*. 2019. 5(1):1-3.

#### 2018

20. Asif Afzal and **M. Abdul Mujeebu**. Thermo-Mechanical and Structural Performances of Automobile Disc Brakes – A Review of Numerical and Experimental Studies. *Archives of Computational Methods in Engineering*, Published Online: <https://doi.org/10.1007/s11831-018-9279-y>
21. Salem Algarni, CA Saleel, **M Abdul Mujeebu**. Air-conditioning condensate recovery and applications—Current developments and challenges ahead. *Sustainable Cities and Society*. 37: 263-274, 2018.
22. Pedram Abdoli, Seyed Amin Hosseini and **M. Abdul Mujeebu**. Influence of O<sub>2</sub> Enrichment in Dry Air on Combustion Temperature, Contaminant Production and Sulfur Recovery, in SRU Reaction Furnace. *Forschung im Ingenieurwesen* (2018) 82 (2): 99-106.

#### 2017

23. Othman S Alshamrani, **M. Abdul Mujeebu**, Noman Ashraf, Abdulaziz Al-Ghonamy and Mohamed Aichouni. Selection of External Wall Material by LCC Technique for Office-cum-Commercial Building in the Eastern Province of Saudi Arabia. *Journal of Architecture and Planning* 29(2): 243-256, 2017.

#### 2016

24. **M. Abdul Mujeebu** and Othman Alshamrani. Prospects of Energy Conservation and Management in Buildings – The Saudi Arabian Scenario versus Global Trends. *Renewable and Sustainable Energy Reviews* 58(2016):1647–1663.
25. **M. Abdul Mujeebu**. The Disappearance of MH 370 and the Search Operations—The Role of Technology and Emerging Research Challenges. *IEEE Aerospace and Electronic Systems Magazine* March 2016 31(3): 6-16.
26. Z. M. Fairuz, M. Z. Abdullah, M. Zubair, **M. Abdul Mujeebu**, M. K. Abdullah, H. Yusoff and M. S. Abdul Aziz. Effect of Wing Deformation on the Aerodynamic Performance of Flapping Wings: Fluid-Structure Interaction Approach. *Journal of Aerospace Engineering* (2016) 29 (4).
27. **M. Abdul Mujeebu**. Hydrogen and Syngas Production by Superadiabatic Combustion – A Review. *Applied Energy* 2016 (173):210-224.
28. **M. Abdul Mujeebu**, Noman Ashraf and Abdulkarim Alsuwayigh. Effect of Nano Vacuum Insulation Panel and Nanogel Glazing on the Energy Performance of Office Building. *Applied Energy* 2016 (173):141-151.
29. **M. Abdul Mujeebu**, Noman Ashraf and Abdulkarim Alsuwayigh. Energy performance and economic viability of nano aerogel glazing and nano vacuum insulation panel in multi-story office building. *Energy* 2016 (113): 949-956.

#### 2015

30. H. Yusoff, M. Z. Abdullah, K. A. Ahmad, **M. Abdul Mujeebu**. Effect of Skin Flexibility on Aerodynamic Performance of Flexible Skin Flapping Wings for Micro Air Vehicles. *Experimental Techniques*. 39 (2015) 11–20.

31. Othman Alshamrani and **M Abdul Mujeebu**. Effects of Shading Strategy and Orientation on Energy Performance of School Building. *Journal of Architecture and Planning* 2015; 28 (1): 129-141.
32. **M Abdul Mujeebu** and Othman Subhi Alshamrani. A Review of Solar Energy Exploration and Utilization in Saudi Buildings. *International Journal of Advanced Thermofluid Research* 2015; 1(1): 70-85
33. Isabel Malico and **M Abdul Mujeebu**. Potential of Porous Media Combustion Technology for Household Applications. *International Journal of Advanced Thermofluid Research* 2015; 1(1): 50-69.

#### 2014

34. Lau, C., Abdullah, M. Z., **Abdul Mujeebu**, M., & Yusop, N. (2014). Finite element analysis on the effect of solder joint geometry for the reliability of ball grid array assembly with flexible and rigid PCBs, *Journal of Engineering Science and Technology*, School of Engineering Taylor's University. 9(1), 47–63.
35. H.M.T. Khaleed, M.F. Addas, **M Abdul Mujeebu**, Abdullah A. Al-Rashed, Irfan Anjum Badruddin, G.A. Quadir, Salman Ahmed N.J, T.M. Yunus khan, Sarfaraz Kamangar. Flash-less Cold Forging of Cup-shaped Object and Stress Analysis of Forging Die using FEM Simulation and Experiment. *Australian Journal of Basic and Applied Sciences*, 8 (24): 401-410, 2014.

#### 2013

36. Mohamed H A Elnaggar, M. Z. Abdullah and **M. Abdul Mujeebu**. Experimental investigation and optimization of heat input and coolant velocity of finned twin U-shaped heat pipe for CPU cooling. *Experimental Techniques*. Volume 37, Issue 6, November/December 2013.
37. D. Ramdan, C.Y. Khor , **M. Abdul Mujeebu**, M. Z. Abdullah, W. K. Loh and C. K. Ooi, FSI Analysis of Wire Sweep in Encapsulation Process of Plastic Ball Grid Array Packaging, *ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology*. 33(1):101-109, 2013.
38. H. J. Tony Tan, M.Z. Abdullah, **M. Abdul Mujeebu**. Effects of Geometry and number of Hollow on the Performance of Rectangular Fins in Microchannel Heat Sinks. *ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology*. 33(1):01-09, 2013.
39. **M. Abdul Mujeebu**, M. Z. Abdullah, Mohammed Zuber. Experiment and simulation to develop clean porous medium surface combustor using LPG. *ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology*. 33 (1): 55-61, 2013.
40. H.M.T. Khaleed, Z. Samad, **M. Abdul Mujeebu**, A.B. Abdullah. Flash-less Cold Forging of AUV Propeller Blade: Work-piece Optimization and Thermal Analysis. *Arabian Journal for Science and Engineering*. September 2013, Volume 38, Issue 9, pp 2509-2519.
41. H. Yusoff, M. Z. Abdullah, **M. Abdul Mujeebu** and K. A. Ahmad. Development of Flexible Wings and Flapping Mechanism with Integrated Electronic Control System, for Micro Air Vehicle research. *Experimental Techniques* 37(4), 2013, pp. 25-37.

#### 2012

42. Mahfoozur Rehman, **M. Abdul Mujeebu**, Tan Boon Kheng and Basem A. J. A. Abu Izneid, A microprocessor based novel instrument for temperature and thermal conductivity measurements, *Experimental Techniques*. Volume 36, Issue 5, pages 62–70, September/October 2012.
43. Mahfoozur Rehman, **M. Abdul Mujeebu**, Y.S. Cheng and Amir Abu Al Aish, Design and Development of a microcontroller based human response measurement system, *Experimental Techniques*. Volume 36, Issue 5, pages 62–70, September/October 2012.
44. W.C. Leong M.Z. Abdullah, **M. Abdul Mujeebu**. Flow induced deflection and stress on flexible printed circuit board (FPCB) in fan-cooled electronic systems: FSI approach. *IEEE Transactions on Components Packaging and Manufacturing Technology* 2(4): 617 – 624 (2012).

45. C.Y. Khor, M.Z. Abdullah and **M. Abdul Mujeebu**. Influence of gap height in flip chip underfill process with non-Newtonian flow between two parallel plates. *Journal of Electronic Packaging, Transactions of the ASME* 134 (01) 10031-6 (2012).
46. M. H. A. Elnaggar, M. Z. Abdullah and **M. Abdul Mujeebu**. Characterization of working fluid in vertically mounted Finned U-Shape Twin Heat Pipe for Electronic Cooling. *Energy Conversion and Management* Volume 62 (2012), Pages 31–39.
47. D. Ramdan, M. Z. Abdullah, and **M. Abdul Mujeebu**, W. K. Loh, C. K. Ooi, R. C. Ooi, FSI simulation of wire sweep PBGA encapsulation process considering rheology effect, *IEEE Transactions on Components Packaging and Manufacturing Technology*, Vol. 2 (4), April 2012.
48. Abdullah MK, Ismail NC, Abdullah MZ, **Abdul Mujeebu M**, Ahmad KA, Ripin Z. Mohd Effects of Tip Gap and Amplitude of Piezoelectric Fans on the Performance of Heat Sinks in Microelectronic Cooling. *Heat and Mass Transfer*. June 2012, Volume 48, Issue 6, pp 893-901.
49. M. K. Abdullah, B. H. Murni, M. Z. Abdullah, **M. Abdul Mujeebu**, F. Hussin, H. Yusoff, N.C. Ismail, K. A. Ahmad, and Z. Mohd Ripin. Heat transfer enhancement using piezoelectric fan in electronic cooling - experimental and numerical observations. *ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology* (2012) 32 (1): 41-49.
50. M. C. Ting, **M. Abdul Mujeebu**, M. Z. Abdullah, M. R. Arshad, Numerical study on hydrodynamic performance of shallow underwater glider platform, *Indian J. of Marine Sciences*, Vol. 41(2), April 2012, pp. 124-133.
51. M. K Abdullah, N. C Ismail, **M. Abdul Mujeebu**, M. Z Abdullah, K. A Ahmad, Muhamad Husaini, M. N. A. Hamid. Optimum Tip Gap and Orientation of Multi-Piezofan for Heat Transfer Enhancement of Finned Heat Sink in Microelectronic Cooling. *International Journal of Heat and Mass Transfer* Volume 55, Issues 21–22 (2012), Pages 5514–5525.
52. S. F. Shaker, M.Z. Abdullah, **M. Abdul Mujeebu**, K.A. Ahmad and M.K. Abdullah. Study on the Effect of Number of Film Cooling Rows on the Thermal Performance of Gas Turbine Blade. *ISI Bilimi ve Teknigi Dergisi-Journal of Thermal Science and Technology*. 32 (2): 89-98, 2012.

## 2011

53. H.M.T. Khaleed, Z. Samad, A.R. Othman, A. R. Ab-Kadir, **M. Abdul Mujeebu**, A.B. Abdullah, Irfan Anjum Magami, N.J. Salman Ahmed. Computer-aided FE simulation for flash-less cold forging of connecting rod, *Arabian Journal for Science and Engineering*. August 2011, Volume 36, Issue 5, pp 855-865.
54. **M. Abdul Mujeebu**, M. Z. Abdullah and S. Ashok, Husk-Fuelled Steam Turbine Cogeneration for a Rice Mill with Power Export- A Case Study, *Energy Sources Part A- Recovery, Utilization, and Environmental Effects*. Volume 33 Issue 8, 724 (2011).
55. R.M.N. Muhad, M.Z. Abdullah, **M. Abdul Mujeebu**, M.Z. Abu Bakar, R. Zakaria, A.A. Mohamad. Development and performance analysis of partially premixed LPG porous medium combustor, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* 2011; 33(13) 1260-1270.
56. M. Z. Abdullah, **M. Abdul Mujeebu**, H. Gitano, Y. Yaakob and M. K. Abdullah, Transient Natural Convection in a Rectangular Cavity Filled with Porous Medium Heated Discretely at Vertical Wall, *J. of Engineering Science*, Vol. 7, 2011, pp. 1-13.
57. Padmayya Naik, Mohamad Ibrahim, A.O. Surendranathan, **M. Abdul Mujeebu**. Development and characterization of carbon-carbon composite for aircraft brake pad using Preformed Yarn method. *World Journal of Engineering* 8(3) (2011) 251-258.
58. **M. Abdul Mujeebu**, M. Z. Abdullah, A. A. Mohamad. Development of energy efficient porous medium burners on surface and submerged combustion modes, *Energy* 36 (2011) 5132-5139.
59. M. Sri Raj Rajeswari, K.A.M. Azizli, S.F.S. Hashim, M.K. Abdullah, **M. Abdul Mujeebu**, M.Z. Abdullah. CFD Simulation and Experimental Analysis of Flow Dynamics and Grinding Performance of Opposed Fluidized Bed Air Jet Mill, *International Journal of Mineral Processing* 98 (2011) 94–105.
60. C.Y. Khor, M.K. Abdullah, M.Z. Abdullah, **M. Abdul Mujeebu**, D. Ramdan, M.F.M.A. Majid, Z.M. Ariff and M.R Abdul Rahman. Numerical analysis on the effects of different inlet gates and gap heights

in TQFP encapsulation process, *International Journal of Heat and Mass Transfer* 54(9–10), (2011): 1861–1870.

61. H.M.T. Khaleed, Z. Samad, A.R. Othman, **M. Abdul Mujeebu**, A.B. Abdullah, M.M.Zihad. Work-piece optimization and thermal analysis for flash-less cold forging of AUV propeller hubs - FEM simulation and experiment. *Journal of Manufacturing Processes*, 13(1), 2011, Pages 41-49.
62. Mohamed H A Elnaggar, M. Z. Abdullah and **M. Abdul Mujeebu**. Experimental Analysis and FEM Simulation of Finned U-shape Multi Heat Pipe for Desktop PC Cooling. *Energy Conversion and Management* 52 (2011) 2937–2944.
63. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad. Mesoscale premixed LPG burner with surface combustion in porous ceramic foam, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* (2011) 34:1, 9-18.
64. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad. Development of premixed burner based on stabilized combustion within discrete porous medium, *Journal of Porous Media*. 14 (10) (2011) 909-917.

## 2010

65. M.Khalil Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, S. Kamaruddin and Z. M. Ariff , Three-Dimensional Modelling on Effect of Multi Die-Stacking Shape in Mould Filling during Encapsulation of Microelectronic Chips, *IEEE Transactions on Components Packaging and Manufacturing Technology* 2010; 33 (2): 438 – 446.
66. R.M.N. Muhad, M.Z. Abdullah, A. A. Mohamad, **M. Abdul Mujeebu**, M.Z. Abu Bakar, R. Zakaria, 3-D numerical modeling and experimental investigation of partial-premix type porous medium burner using LPG fuel, *Journal of Porous Media* Volume 13, Issue 7, 2010, Pages 655-669.
67. C.Y. Khor, M. Z. Abdullah, **M. Abdul Mujeebu**, M. K. Abdullah and Z. M. Ariff, Three dimensional numerical and experimental investigations on polymer rheology in meso-scale injection molding, *International Communications in Heat and Mass Transfer*, 37 (2010) 131–139.
68. C.Y. Khor, **M. Abdul Mujeebu**, M. Z. Abdullah and F. Che Ani, Finite volume based CFD simulation of pressurized flip chip underfill encapsulation process, *Microelectronics Reliability* 50 (2010) 98–105.
69. M. K. Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, Horizon Gitano, Z. M. Ariff, R. Razali , K. A. Ahmad, Three-Dimensional Modelling of Mould Filling in Microchip Encapsulation Process with Matrix Array Arrangement, *Journal of Electronic Packaging*, Transactions of the ASME, 2010, Vol. 132, pp. 014502-1-6.
70. C.Y. Khor, M. Z. Abdullah, **M. Abdul Mujeebu**, M. K. Abdullah and Z. M. Ariff. FV M based numerical study on the effect of solder bump arrangement on capillary driven flip chip underfill process, *International Communications in Heat and Mass Transfer* 37 (2010) 281–286.
71. H. M.T. Khaleed, Z. Samad, A.R. Othman, **M. Abdul Mujeebu**, A. R. Arsyad, A. R. Ab-Kadir, A. Hussaini, A.B. Abdullah., Finite element analysis and experimental validation of flashless cold forging of propeller hubs and blade of autonomous underwater vehicle, *Proceedings of the Institution of Mechanical Engineers Part B-Journal of Engineering Manufacture* 224 (9):1455-1467, (2010)
72. Mazlan Mohamed, M.Z. Abdullah, **M. Abdul Mujeebu** and M. K. Abdullah, Numerical Investigation of Heat Transfer in Plastic Leaded Chip Carrier (PLCC) Packages in In-line Arrangement, *Journal of Modeling, Design & Management of Engineering Systems*, 5(1):11 – 22 (2010).
73. C.Y. Khor, M.K. Abdullah, M.Z. Abdullah, **M. Abdul Mujeebu**, D. Ramdan, M.F.M.A. Majid, and Z.M. Ariff. Effect of vertical stacking dies on flow behavior of epoxy molding compound during encapsulation of stacked-chip scale packages, *Heat and Mass Transfer* Volume 46, Issue 11-12 (2010):1315-1325.
74. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, Trends in modeling of porous media combustion, *Progress in Energy and Combustion Science* 36 (2010) 627-650.

## 2009



75. **M. Abdul Mujeebu**, S. Jayaraj, S. Ashok, M. Z. Abdullah and M. Khalil. Feasibility Study of Cogeneration in a Plywood Industry with Power Export to Grid, *Applied Energy* 86 (2009) 657–662.
76. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z Abu Bakar, A.A. Mohamad, R.M.N Muhad, M. Khalil, Combustion in Porous media and its applications- A comprehensive survey, *Journal of Environmental Management* 90 (2009) 2287–2312.
77. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z Abu Bakar, A.A. Mohamad, R.M.N Muhad, M. Khalil, Corrigendum to “Combustion in porous media and its applications – A comprehensive survey” [*Journal of Environmental Management* 90 (2009) 2287–2312]. *Journal of Environmental Management* 91 (2009) 550.
78. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, M. K. Abdullah., A Review of Investigations on Liquid Fuel Combustion in Porous inert media, *Progress in Energy and Combustion Science* 35 (2009) 216–230.
79. **M. Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, M. K. Abdullah. Applications of porous media combustion technology- A review, *Applied Energy* 2009; 86 (9) 1365–1375.
80. **M. Abdul Mujeebu**, M. Z. Abdullah and S. Ashok, Viability of Biomass Fueled Steam Turbine Cogeneration with Power Export for an Asian Plywood Industry, *Energy Exploration & Exploitation*, Volume 27 • Number 3 • 2009 pp. 213-224.
81. M.Khalil Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, S. Kamaruddin and Z. M. Ariff. A Study on the Effect of Epoxy Moulding Compound (EMC) Rheology during Encapsulation of Stacked-Chip Scale Packages (S-CSP). *Journal of Reinforced Plastics and Composites* 2009; 28 (20): 2527-2538.
82. C S Ramesh, R Noor Ahmed, **M Abdul Mujeebu**, M Z Abdullah, Fabrication and Study on Tribological Characteristics of Cast Copper-TiO<sub>2</sub>- Boric acid hybrid Composites, *Materials & Design* 30 (2009) 1632–1637.
83. C S Ramesh, R Noor Ahmed, **M Abdul Mujeebu**, M Z Abdullah, Development and Performance Analysis of Novel Cast Copper-SiC- Gr hybrid Composites, *Materials and Design* 30 (2009) 1957–1965.
84. M.K. Abdullah, M. Z. Abdullah, M. V. Ramana, C. Y. Khor, K. A. Ahmad, **M. A. Mujeebu** Y. Ooi, and Z. Mohd Ripin. Numerical and experimental investigations on effect of fan height on the performance of piezoelectric fan in microelectronic cooling, *International Communications in Heat and Mass Transfer* 36 (2009) 51–58.
85. S. A. Ageel, A.M. Saleem, B. B. Farhad **M. Abdul Mujeebu** and, J. M. Alalkawi, Cold Extrusion of Carbon Electrodes Using Dies of CRHS Concept and Performance Analysis, *Modern Applied Science (Journal of Canadian Center of Science and Education)*, 2009, Vol. 3, No. 3, pp. 44-54.
86. A. Al-Mofleh, S. Taib, **M. Abdul Mujeebu** and W. Salah, Analysis of Sectoral Energy Conservation in Malaysia, *Energy* 34 (2009) 733–739.
87. Mohamed Osman Saeed, Mohd Nasir Hassan, **M Abdul Mujeebu**. Assessment of Municipal Solid Waste Generation and Recyclable Materials Potential in Kuala Lumpur, Malaysia, *Waste Management* 29 (2009) 2209–2213.
88. S. Yusoff, M. Mohamed, K. A. Ahmad, M. Z. Abdullah, **M. Abdul Mujeebu**, Z. Mohd Ali, F. Idrus, Y. Yaakob, 3-D Conjugate Heat Transfer Analysis of PLCC Packages Mounted In-line on a Printed Circuit Board, *International Communications in Heat and Mass Transfer* 36 (2009) 813–819.
89. N.F.Zulkefli, E.N.Tai, **M. Abdul Mujeebu**, M.Z.Abdullah, K.A.Ahmad, Numerical and experimental investigations of passive flow control devices on a backward facing step, *International Journal of Engineering and Technology*, Vol. 6, No. 2, 2009, pp. 21-29.

## 2008

90. M. A. Ismail, M. Z. Abdullah and **M. Abdul Mujeebu**, CFD-Based Experimental Analysis on the Effect of Free Stream Cooling on the Performance of Micro Processor Heat Sinks, *International Communications in Heat and Mass Transfer*, Volume 35, Issue 6, July 2008, Pages 771-778.
91. M.Khalil Abdullah, M. Z. Abdullah, **M. Abdul Mujeebu**, S. Kamaruddin and Z. M. Ariff. A Study on the Effect of Stack Thickness during Encapsulation of Stacked-Chip Scale Packages (S-CSP). *Journal of Microelectronics & Electronic Packaging*, Vol. 5, No. 2, Second Quarter 2008, Pages 62-67.

92. Mazlan Mohamed, Rasdi Deraman, M.Z. Abdullah, **M. Abdul Mujeebu**, M. K. Abdullah, Three-Dimensional CFD Simulation for 8 PLCC Packages Mounted in Line on a Printed Circuit Board, ESTEEM, (Journal published by Universiti Teknologi Mara, Malaysia) Vol. 4(1), 79–99, 2008.

### Book

93. “**Indoor Environmental Quality**” Published by: IntechOpen, UK:  
<https://www.intechopen.com/books/indoor-environmental-quality>

### Invited Book Chapters

94. **Combustion in porous inert media, Chapter 15**, pp.195-205 in: Combustion Synthesis - Novel Routes to Novel Materials, Edited by Maxmilian Lackner, Bentham Science Publishers Ltd. 2010, eISBN: 978-1-60805-155-7.
95. **Applications of Porous Media Combustion Technology, Chapter 24**, pp.615-633 in: “Role of Colloidal Systems in the Environmental Protection”, Elsevier B.V. 2014, Edited by Monzer Fanun, ISBN: 978-0-444-63283-8.  
URL: <http://www.sciencedirect.com.ezp.uod.edu.sa/science/book/9780444632838>
96. **Porous Media Combustion Technology, Chapter 21** in: “Energy Science and Technology Vol. 12: Energy Management” Edited by J.N.Govil, Studium Press LLC. USA, ISBN 10:1-626990-73-5, 2015.  
URL: <http://www.studiumpress.in/management/energy-science-and-technology-vol-12-energy-management.html>
97. **Nano Aerogel Windows and Glazing Units for Buildings’ Energy Efficiency, Chapter 18 in: Nanotechnology in Eco-Efficient Construction: Materials, Processes and Applications**, Woodhead Publishing, Elsevier Ltd.
98. Introductory Chapter: Indoor Environmental Quality. In “Indoor Environmental Quality” Published by: Intech Open, UK:  
<https://www.intechopen.com/online-first/introductory-chapter-indoor-environmental-quality>
99. Chapter 17. Combustion in Porous Media for Porous Burner Application. In Convective Heat Transfer in Porous Media, 1st Edition 2019, Editors: Yasser Mahmoudi, Kamel Hooman, Kambiz Vafai. CRC Press:  
<https://www.crcpress.com/Convective-Heat-Transfer-in-Porous-Media/Mahmoudi-Hooman-Vafai/p/book/9780367030803>

### Conference Proceedings

100. M. K. Abdullah, M. Z. Abdullah, **M. A. Mujeebu** and Z. M. Ariff, Numerical study on the effect of multi stacking-die arrangement to the mould filling encapsulation process, Proceedings of the Conference, Product & Design 2007, Hotel Park Royal, Penang, Malaysia, Dec. 10-12, 2007, pp.221 -227.
101. M. K. Abdullah, M. Z. Abdullah, **M. A. Mujeebu** and Z. M. Ariff , CFD Challenges in Multi Stacked Microchips During Encapsulation Process, Key note paper, Proceedings of Energy- 2008, Jan 31-Feb 01, 2008, NIT Calicut, Kerala, India, pp. 02-16.
102. **M. A. Mujeebu** S. Jayaraj, S. Ashok, Mathematical Modeling for Optimal Cogeneration, Proc. National Conference on Advances in Mechanical Engg (NAME-2004), JNN College of Engg , Shimoga, Karnataka , S. India.
103. **M. A. Mujeebu** S. Jayaraj, S. Ashok, Moving Towards Trigeneration, Proc. All India Conference on Energy conservation and policy options for small and medium scale industries, PSGCollege of Technology Coimbatore, Tamilnadu, S.India, pp.31-38.

104. **M. A. Mujeebu**, Energy Management through Trigeneration - A Case Study, Proc. National Seminar on Trends in Energy Engineering and Manufacturing Technology, Anjuman Engineering College, Bhatkal, Karnataka, S.India
105. Ravi Vardhan, **M. Abdul Mujeebu**, Feasibility study of biomass based captive power plant for a rice mill, Proc. National Conference on “Advances in Mechanical Engg” (AIM-2005), May 13-14, 2005, Vasavi College of Engineering, Hyderabad, S.India, pp. T-141-144.
106. Mazlan Mohamed, M.Z. Abdullah, **M.A. Mujeebu** and M. K. Abdullah, Three Dimensional CFD Simulation for Eight PLCC Packages Mounted In Line on a Printed Circuit Board, Proc. Mechanical Engineering research Colloquium(MERC’08), Universiti Sains Malaysia, 27-28 Aug. 2008, Pages 80-89.
107. M.K. Abdullah, M. Z. Abdullah, S.F. Wong, C. Y. Khor, Y. Ooi, K. A. Ahmad, Z. Mohd Ripin and **M. A. Mujeebu**, Effect of piezoelectric fan height on flow and heat transfer for electronics cooling applications, Proc. 10th International Conference on Electronic Materials and Packaging EMAP 2008, 22-24 Oct. 2008, Taipei, Taiwan, pp.165-170.
108. S.F. Shaker, M.Z. Abdullah, M.A. Ismail, M. K. Abdullah, **M.A. Mujeebu**, Modeling of Gas Turbine Blades for Different Cooling Arrangement, Proc. Mechanical Engineering research Colloquium(MERC’08), Universiti Sains Malaysia 27-28 Aug. 2008, Pages 07-13.
109. H. Yusoff, M. Z. Abdullah, Z. M. Kassim, **M. A. Mujeebu**, and M. Khalil, Study of Vortex Shedding between Two Cylinders in Tandem Arrangement using Flexible PIV Technique, Proc. International Conference on Micro electro mechanical Systems (MEMS 08), Anjuman Engineering College, Bhatkal, S.India, 22-23 Oct. 2008.
110. M. O. Saeed, M.N. Hassan, **M Abdul Mujeebu**, Development of Municipal Solid Waste Generation and Recyclable Materials Component Rate for Kuala Lumpur: Perspective Study , Proc. International Conference on Environment (ICENV 2008), G Hotel, Penang, Malaysia, December 15-17, 2008, School of Chemical Engineering, Universiti Sains Malaysia, page-113.
111. M.O. Saeed, M.S. Ahamad, H.A. Aziza, **M Abdul Mujeebu**, Geographic information system (GIS) components for deriving sanitary landfill site weighting criteria, Proc. International Conference on Environment (ICENV 2008), G Hotel, Penang, Malaysia, December 15-17, 2008, School of Chemical Engineering, Universiti Sains Malaysia, page-83.
112. **M.Abdul Mujeebu**, M.Z Abdullah, M.Z. Abu Bakar, A.A. Mohamad, Development of mesoscale premixed porous medium burners for household applications, Proc. Mechanical Engineering research Colloquium(MERC’09), Universiti Sains Malaysia 30 Sep – 02 Oct. 2009, Pages 01- 06.
113. C.Y. Khor, M. Z. Abdullah, **M. Abdul Mujeebu**, F. Che Ani, Numerical simulation of solder ball effect on capillary flow under-fill process in flip chip packaging, Proc. Mechanical Engineering research Colloquium(MERC’09), Universiti Sains Malaysia 30 Sep – 02 Oct. 2009, Pages 25- 31.
114. Sri Raj Rajeswari Munusamy, Khairun Azizi Mohd Azizli, Mohd Zulkifly Abdullah, Syed Fuad Saiyid Hashim, **M. Abdul Mujeebu**, Muhammad Khalil Abdullah 3D modeling and simulation of air jet mill for ultrafine grinding process using CAD and CFD techniques, Proc. of 4<sup>th</sup> colloquium on post graduate research: National post graduate colloquium on materials, minerals and polymers (MAMIP 2010), Vistana Hotel, Penang, Malaysia, 27-28- Jan. 2010.
115. M.K. Abdullah, M.B. Hashim, M.Z. Abdullah, **M.A. Mujeebu**, K.A. Ahmad, F. Ismail, M. R. Abdul Rahman, N. M. Yusop, Z. Mohd Ripin. Study on piezoelectric fan height on the cooling performance of PLCC electronic package. Proceedings of the 20<sup>th</sup> National and 9th International ISHMT-ASME Heat and Mass Transfer Conference, January 4-6, 2010, Mumbai, India.
116. Khaleed, M.T.H., **Abdul Mujeebu, M.**, Abdullah, A.B., Irfan Anjum, Magami, Ahmed, N.J. Salman. Flash-less cold forging of connecting rod using computer-aided FE simulation. Proceedings of

- International Conference on Applications and Design in Mechanical Engineering 2009 (ICADME 2009), 11th - 13th October 2009 at Batu Feringhi, Penang, Malaysia. ISBN: 978-967-5415-07-4. p.10A 1 - 10A 7.
117. Khaleed, H. M.T., Samad, Z., Othman, A.R., **Abdul Mujeebu, M.**, Hussaini A. Abdullah, A.B., Magami I.B., Ahmed, N.J. Salman. Qadir, G.A., Jeevan, K. FEM analysis and experimental validation of flashless cold forging of autonomous underwater vehicle hubs. Proceedings of International Conference on Applications and Design in Mechanical Engineering 2009 (ICADME 2009), 11th - 13th October 2009 at Batu Feringhi, Penang, Malaysia. ISBN: 978-967-5415-07-4. p.10B 1 - 10B 7.
118. C.Y. Khor, **M. Abdul Mujeebu**, A. Jappara, M.S. Aris, M.Z. Abdullah. Three dimensional CFD simulation of non-Newtonian flow for the underfill flow in flip chip packaging. Proceedings of ICFD 10: Tenth International Congress of Fluid Dynamics. December 16-19, 2010, Stella Di Mare Sea Club Hotel, Ain Soukhna, Red Sea, Egypt (ICFD10-EG-3097).
119. C.Y. Khor, M.Z. Abdullah, **M. Abdul Mujeebu**, F. Che Ani. FVM Based Simulations Study of Different Injection Types on Flip Chip Pressurized Underfill Encapsulation Process. Proceedings of 11<sup>th</sup> International Conference on Electronics Materials and Packaging (EMAP 2009), Penang, Malaysia, 1 – 3 December 2009. Page 67-70.
120. Anwar Al-Mofleh, Soib Taib, **M. Abdul Mujeebu**, Al-Gulman Hamza, W Salah. Approach to Energy Management: USM Practices. Proceedings: GREEDER 2009, Amman-Jordan, March 31st – April 2nd 2009. Paper No.:- 401-d.
121. C.Y. Khor, **M. Abdul Mujeebu**, A. Jappara, M.S. Aris, M.Z. Abdullah. Numerical simulation of non-Newtonian flow for the underfill process in flip chip packaging. Proceedings of 12<sup>th</sup> International Conference on Electronics Materials and Packaging (EMAP 2010), October 25-27, 2010, Orchard Hotel, Singapore. Paper No. 67.

### **INVITED LECTURES/KEYNOTE SPEECHES**

1. **“Mathematical Modeling for Optimal operation of an industrial Cogeneration system”** AICTE – ISTE STTP on “Thermal design of energy systems” NIT Calicut, Jan 2004
2. **“Trigeneration - an effective method of heat recovery”** AICTE – ISTE STTP on “Tools and Techniques for Peak Load Management” NIT, Calicut, Aug 2004
3. **“An introduction to Trigeneration”** Engineers Day Celebration, AEC, Bhatkal, Dec.15,2004
4. **“How to Cope up with the Engineering Curriculum”** Joint Programme of ISTE Students Chapter and Student’s Guidance Bureau, AEC, Bhatkal, December 2005.
5. **“Development of Energy Efficient and Clean Porous Medium Burners”** International Workshop on Thermofluids, School of Mechanical Engineering, USM. Part of MOU activities between USM and Kumamoto University, Japan, 05th Jan. 2010.
6. **“Confidence Building and Career Improvement Tips”** Jan 2012, Anjuman Institute of Technology and Management, Bhatkal, India
7. **“Study Abroad- Options, Tips and Scholarships”** May 2012, Anjuman Institute of Technology and Management, Bhatkal, India
8. **“Final Year Project, Seminar and Documentation- Objectives, Procedure and Ethics”** May 2012, Anjuman Institute of Technology and Management, Bhatkal, India
9. **“How to Cope up with the Engineering Curriculum”** for 2012-13 UG Batch, Sep 2012. Anjuman Institute of Technology and Management, Bhatkal, India
10. **“Presentation Skills”**, Oct 2012, Anjuman Institute of Technology and Management, Bhatkal, India

11. “Recent Developments in Hydrogen and Syngas Production by Superadiabatic Combustion”  
Keynote Speech, ICAF 2016, December 2-4, 2016. Kayseri, Turkey.

## RECOGNITIONS

### ✚ Reviewer: International Journals

1. Journal of Porous Media (Begell House, Inc.)
2. Combustion Science and Technology (Taylor & Francis)
3. Energy & Fuels (American Chemical Society)
4. Environmental Science & Technology (American Chemical Society)
5. Energy Conversion & Management (Elsevier)
6. Applied Energy (Elsevier)
7. Experimental Techniques (Society for Experimental Mechanics, Inc.)
8. Engineering Applications of Computational Fluid Dynamics
9. Applied Mathematical Modeling (Elsevier)
10. Experimental Thermal and Fluid Science(Elsevier)
11. Biomass & Bioenergy (Elsevier)
12. Combustion and Flame (Elsevier)
13. Chemical Engineering Journal (Elsevier)
14. International Journal of Thermal Sciences (Science Direct)
15. Energy (Elsevier)
16. Fuel Processing Technology (Elsevier)
17. Journal of Petroleum and Gas Exploration Research ([www.interestjournals.org](http://www.interestjournals.org))
18. Journal of the Energy Institute
19. International Journal of Environment and Waste Management([www.interestjournals.org](http://www.interestjournals.org))
20. International Journal of Heat and Mass Transfer (Elsevier)
21. Journal of Zhejiang University-SCIENCE A
22. Journal of Hazardous Materials (Elsevier)
23. Energy and Buildings (Elsevier)
24. International Journal of Hydrogen Energy (Elsevier)
25. IEEE Access
26. International Journal of Green Energy (Taylor & Francis)
27. International Journal of Energy Research (Wiley)

### ✚ Reviewer- Research Proposals

- United States’ Department of Energy, USA.
- American Chemical Society Petroleum Research Fund (ACS PRF), USA.
- JSC "National Center of Science and Technology Evaluation”, Kazakhstan, Russia.
- Chilean National Science and Technology Commission (FONDECYT), Chile

### ✚ Associate Editor:

- Advances in Energy Research (ERi), An International Journal
- International Journal on Heat and Mass Transfer - Theory and Applications (IREHEAT)
- Advances in Microelectronic Engineering

#### ✚ Awards:

- “Sanggar Sajung” (Hall of Fame) award for excellence in publishing, from Universiti Sains Malaysia, in 2008, 2009, 2010 and 2011.
- Honorarium from “Elsevier Science” for the publication: “**Trends in modeling of porous media combustion**”, Progress in Energy and Combustion Science 36 (2010) 627-650.

#### ✚ Scientific Committee Member:

- 10<sup>th</sup> International Conference on Sustainable Energy Technologies SET 2011, Instabul, Turkey, 4-7 September 2011.
- Second International Conference on Electric Information and Control Engineering (ICEICE 2012), Apr. 6-8, 2012, Lushan , China.
- 5<sup>th</sup> International conference on Applications of Porous media 2013- ICAPM2013, August 25-28, 2013, Cluj-Napoca, Romania.
- 4th International Conference on Nuclear and Renewable Energy Resources (NURER2014), Antalya, Turkey, 26-29 October 2014.
- The 1st International Conference on Alternative Fuels: Future and Challenges (ICAF 2016). December 2-4, 2016. Kayseri, Turkey: <http://icaf2016.com/speakers.html>

#### ✚ Resource Person

- Sole mentor for two days national level workshop on “**Research, Writing and Publishing**” at Anjuman Institute of Technology and Management-Bhatkal, India, on 29-30 Dec 2012.
- Main mentor for EUREKA- 3 Days International workshop on “**Research, Writing and Publishing**” Sept 1-3 2016, PA College of Engineering, Mangalore, India.
- Sole mentor for 3- days workshop on “**Research, Writing and Publishing in High Impact Journals**” at Aligarh Muslim University, India, on 17-19 August 2018.
- Mentor for 2 Days Workshop on “**Scientific Writing and Publishing in High Impact Journals**” at Indian Institute of Technology Guwahati, Assam, India, on 2-3 July 2019.
- Sole mentor for 1 Day Seminar on “**Research, Writing and Publishing in Reputed Journals**” July 26, 2019, Bearys Institute of Technology, Mangalore, India.
- Sole mentor for 1 Day International Seminar on “**Research, Writing and Publishing in Reputed Journals**” July 27, 2019, PA College of Engineering, Mangalore, India.
- Main Mentor for EUREKA’19- 3 Days International workshop on “**Research, Writing and Publishing in Reputed Journals**” August 7-9 2019, PA College of Engineering, Mangalore, India.
- Sole Mentor for 1 Day Workshop on “**Research, Writing and Publishing in Reputed Journals**” 15th August 2019. Hosted by Dhaanish Ahmed Institute of Technology, Coimbatore, India.
- Sole mentor for 1 Day Workshop on “**Effective Paper Writing to Publish Reputed Journals**” 14<sup>th</sup> July 2022. Hosted by Bearys Institute of Technology, Mangalore, India.
- Sole mentor for 1 Day Workshop on “**Effective Paper Writing to Publish Reputed Journals**” 5<sup>th</sup> August 2022. Hosted by Islamic University of Science and Technology, Jammu & Kashmir, India.
- Sole mentor for 1 Day Workshop on “**Effective Paper Writing to Publish Reputed Journals**” 27<sup>th</sup> August 2022. Hosted by Anjuman Institute of Technology and Management, Bhatkal, India.

### **✚ ABET Program Evaluator**

Selected as ASME/ABET Mechanical Engineering Program Evaluator since November 2022.

### **✚ External Expert – European Commission**

Recognized as external expert for the Research & Innovation program of European Commission-  
Expert ID = **EX 2006C184328**

## **SHORT TERM COURSES / WORKSHOPS/ CONFERENCES ATTENDED**

1. AICTE – ISTE STTP on “Thermal design of energy systems” Jan (5-16) 2004, NIT Calicut.
2. AICTE – ISTE STTP on “Tools and Techniques for Peak Load Management” August (16-28) 2004, NIT Calicut.
3. Workshop on “Alternative Refrigerants and Cycles” sponsored by Swiss agency for development and cooperation, New Delhi, under HIDECOR project, September (10 – 12) 2004, NITK Surathkal, Karnataka.
4. National Workshop on “Energy efficiency for sustainable development”, December (15) 2004, Anjuman Engineering College, Bhatkal, Karnataka.
5. Fifth Indo-Swedish Workshop on “Biofuel Conversion”, Dec-14 – 16, 2005. Indian Institute of Technology, Madras.
6. National Conference on “Biodiesel as Biofuel” July-8, 2005. Urban Health & Research Institute. Bangalore.
7. One day Workshop on “Technology Updates on Rapid Product Development”, 11<sup>th</sup> December 2007, Hotel Park Royal, Penang, Malaysia.
8. One day Workshop on Occupational Safety and Health, 16<sup>th</sup> February, 2008. Universiti Sains Malaysia.
9. “First International Workshop on Green Nanotechnology-2012” Nov 26-27, VTU Belgaum, India.
10. Workshop on “Alignment of Learning Outcomes and Assessment to increase the Validity of a Test”, September 15<sup>th</sup>, 2015. College of Architecture and Planning, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
11. Workshop on “Developing and Scoring Essay Questions”, 9<sup>th</sup>, October 2022. College of Architecture and Planning, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
12. Workshop on “Strategic Plan: Environmental Scan & SWOT Analysis”, 7<sup>th</sup> March, 2017. College of Architecture and Planning, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
13. Workshop on “Qualifications Registration Procedures”, 18<sup>th</sup> November 2018. Deanship of Quality and Academic Accreditation, Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.

## **COURSES TAUGHT/TEACHING**

Basic Thermodynamics, Applied Thermodynamics, Heat and Mass Transfer, Refrigeration and Air Conditioning, Cryogenics, Power Plant Engineering, Engineering System Design, Research Methodology, Technical Writing, Building Services: Mechanical Systems, etc.

## RESEARCH SUPERVISION

	Thesis Title	Level of supervision	Status
<b>PhD</b>	Experimental and Numerical Investigations on The Performance of Multi Piezoelectric Fan for Electronic Cooling Application	Co-supervisor	Completed
	Experimental Thermal Analysis and Numerical Characterization of Working Fluid, of Vertical and Horizontal Heat Pipes for Computer Cooling Applications	Co-supervisor	Completed
	FSI Analysis on Wire-sweep in PGBA Encapsulation	Co-supervisor	Completed
	Experimental Study on Thermoelectric Power Generation using Porous Medium Combustion Technique	Co-supervisor	Completed
	Finite Volume based Numerical Modeling and Simulation to Maximize the Performance of Solar Absorption Cooling System	Main Supervisor	Completed
<b>MSc</b>	FEM Simulation and Optimization of Flash-less Cold Forging of complex geometries	Co-Supervisor	Completed

## THESIS EXAMINATION

SL No.	Thesis Title	PhD/MTech/ MSc	University/ Institution
1	Study of Dynamic Behavior of Fuel Sub-Assemblies of Fast Breeder Reactors	M Tech	Manipal Institute of Technology, India
2	CFD Characterization of Bubble Dynamics and Bubble Collapse Mechanisms	M Tech	Manipal Institute of Technology, India
3	Investigation of Hydrogen Bubble Generation and its Movement in Liquid Sodium due to Sodium-Steam Reaction	M Tech	Manipal Institute of Technology, India
4	Convective Heat Transfer in Porous Annulus	PhD	University of Malaya, Malaysia
5	Experimental Investigation on Waste Heat Recovery from Engine Exhaust for Preheating Biodiesel and Their Blends and Engine Performance Study	PhD	Visvesvaraya Technological University, Belagavi, India
6	Investigation into the Combustion Behavior of a Single-Cylinder Diesel Engine With Porous Media in Piston Bowl	PhD	National Institute of Technology Meghalaya, India.
7	Computational Investigation of Single-phase and Two-phase Heat Transfer in Square Channels Partially Filled with Porous Medium	PhD	Amrita School of Engineering, Amritapuri Campus. Amrita University, India.
8	A Feasibility Study of PV System Applications on Office Buildings in Industrial City of Jubail, Saudi Arabia.	MSc	Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia.
9	Effect of Nano Particle Blended Bio-Diesel on the Performance Emission and Combustion Characteristics of DI Diesel Engine	PhD	Visvesvaraya Technological University, Belagavi, India



## **RESEARCH PROJECTS**

<b>No</b>	<b>Title</b>	<b>Funding Source</b>	<b>Amount</b>	<b>Status</b>
1	Development of premixed LPG porous medium burners (Co-investigator)	Universiti Sains Malaysia, under “Students Research Promotion Grant”	USD 4000	completed
2	Prototype Development of Porous Medium Burner for Household Applications (Jointly with University of Science, Malaysia) (Co-investigator)	The Prototype Development Research Grant Scheme, Ministry of Higher Education, Malaysia	USD 44,360	Completed
3	Selection of Construction Material based on Life Cycle Costing Technique (Co-investigator)	University of Hail Saudi Arabia	SR 100,000	Completed

## **MEMBERSHIPS**

- American Society of Mechanical Engineers (ASME)
  - Saudi Council of Engineers (826235)
  - Member of Institute of Engineering and Technology (MIET), UK (Membership No: 1101069567)
  - Member of American Academy of Environmental Engineers & Scientists (AAEES) (Membership No: 7377080)
  - International Association of Engineers (IAENG- 64513)
  - Indian Society for Technical Education (ISTE- LM 43176)
  - American Chemical Society (No. 30048735)
-