



Syed Ali Husain Jafri, PhD

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[Google Scholar Citation](#), | [Orcid Id](#), [Scopus](#), | [Web Of Science](#), | [Research gate](#)

PROFILE

Experience:

- **Twenty three years of teaching experience** at various positions (Department of Mechanical Engineering, Integral University erstwhile Institute of Integral Technology, Lucknow):
- **Associate Professor** (since 1st March 2015)
- **Jr. Associate Professor** (1st August 2011- 28th February 2015)
- **Assistant Professor** (1st July 2009 to 31st July 2011)
- **Sr. Lecturer** (15th September 2007 to 30th June 2009)
- **Lecturer** (17th September 2001 to 14th September 2007)

Academic Qualifications:

- **Ph.D.** Integral University, Lucknow, India.
- **M. Tech., Thermal Sciences** A.M.U., Aligarh, India
- **B. Tech. Mechanical Engg.** A.M.U., Aligarh, India
- **S.S.S.C. (10+2)** A.M.U., Aligarh, India
- **High School** UP Board

Academic Achievement:

- **GATE 2000** qualified with a percentile score of 82.53.

RESEARCH INTEREST:

- Thermo-economic analysis of building thermal insulation
- Friction stir welding
- Thermal analysis of I.C. engine

SUMMARY OF RESEARCH ACCOMPLISHMENT:

- Number of publications in SCI / Scopus indexed journals :03
- Number of publications in Non-SCI/Scopus but Peer Reviewed :16
- Book Chapters :01
- Citations :72

PROFESSIONAL MEMBERSHIP:

- Member of Indian Society of Heating, Refrigerating and Air Conditioning Engineers (Membership No. 24882)
- Member of the International Association of Engineers (IAENG).

COURSE TAUGHT:

- Basic Mechanical Engineering
- Fluid Mechanics
- Applied Thermodynamics
- Fluid Machinery
- Power Plant Engineering

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- Program Coordinator: B.Tech. Mechanical Engineering
- Member of CBCS committee of Mechanical Engineering Department
- Coordinator Departmental NAAC team for Criteria I
- Incharge Fluid Machinery Laboratory
- Head examiner
- Flying squad member

STUDENTS SUPERVISION/CO-SUPERVISION

- PhD: 01 (Ongoing)
- M.Tech: 01
- B.Tech: 15 major projects

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- **Jafri, S. A. H.**, & Bharti, P. K. (2021). A comparative analysis of life cycle cost savings through optimum thermal insulation on building wall in cold climatic zone of India. *Journal of management Information and Decision Sciences*, 24(7), 1-8.
- **Husain Jafri, S. A.**, & Bharti, P. K. (2018). Analyzing optimum thickness for combination of two thermal insulation materials for building walls. *IOP Conference Series: Materials Science and Engineering*, 404(1).
- MF Khan, A Hussain, AY Usmani, R Yadav, **SAH Jafri** (2018). Multiphase flow modeling of molten steel and slag flow for different tundish configurations *Materials Today: Proceedings*, 2018.

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- Mohd Anees Siddiqui, **S.A.H. Jafri**, Shahnawaz Alam, "*Pre-Experimental Simulation For Prediction Of Rotational Speeds For Required Range Of Temperature In Friction Stir Welding Of Butt Joint Of Aluminium Alloy*", International Conference On Academic Research In Engineering, Management And Information Technology, 21-23 February, 2015 held at Department of Mechanical Engineering & Electronics and Communication Engineering M.J.P.Rohilkhand University, Bareilly.

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- A.Y. Bokhary, Abdullah Turki, Nafis Ahmad and **S.A.H. Jafri**, "*Thermodynamic Simulation and Performance Evaluation of Diesel Engine with Blends of Biogas, Methane and Hydrogen under Dual Fuel Mode*", International Journal of Engineering Science and Computing, Vol. 7, Issue 5, May 2017.
- Mohd Anees Siddiqui, K.M.Moeed, **S.A.H. Jafri**, "*Friction stir welding of rectangular flat plates by using hand drilling machine*", International Journal for Scientific Research & Development, Vol. 4, Issue 6, June 2016.
- Mohd Anees Siddiqui, **S.A.H. Jafri**, K.M.Moeed, "*Effect of process parameters on temperature distribution, strain rate and flow-stress during friction stir welding of aluminium alloy*", International Journal of Research in Engineering and Technology, Vol. 5, Special Issue 6 [COTII-2016], pp. 26-32, May 2016.
- Mohd Anees Siddiqui, K.M.Moeed, **S.A.H. Jafri**, "*Prediction of temperature distribution and weld pool geometry for 304 stainless steel using TIG welding parameters*", International Journal of Mechanical Engineering Research, Forex Publication, Vol.4, Issue 1, March 2016.
- Mohd Anees Siddiqui, **S.A.H. Jafri**, K.M.Moeed, S.Alam, "*Investigation of Effect of Process Parameters on Maximum Temperature During Friction Stir Welding of Aluminium Alloy*", International Journal for Scientific Research & Development, ISSN (online): 2321-0613, Vol. 3, Issue 10, Dec 2015.
- **S. Ali Husain Jafri**, P.K. Bharti, M. Jamil Ahmad, "*Optimum Insulation Thickness for Building Envelope- A Review*", International Journal of Research in Engineering and Technology, Volume: 04 Issue: 09, pp. 214-218, September 2015.
- M.A. Siddiqui, **S.A.H. Jafri**, M. Qazzafi, Mohd Abu Bakr, Mohd Deen, Mohd Afsar, Mohd Bilal, "*Friction Stir Welding Through Fabricated Setup By Using Conventional Hand Drilling Machine*", Vol. 2- Issue 05, IJRDO- Journal Of Mechanical And Civil Engineering, ISSN-3855-0154, pp. 82-86, May-2015.
- Mohd Anees Siddiqui, **S.A.H. Jafri**, Shahnawaz Alam, "*Validation of Maximum Temperature during Friction Stir Welding of Butt Joint of Aluminium Alloy by using HyperWorks*", Vol. 4 - Issue 04, International Journal of Engineering Research & Technology, ISSN: 2278-0181, pp. 817-821, April - 2015.
- Mohd Anees Siddiqui, **S.A.H. Jafri**, Shahnawaz Alam, "*Pre-Experimental Simulation for Prediction of Rotational Speeds for Required Range of Temperature in Friction Stir Welding of Butt Joint of Aluminium Alloy*", International Journal of Advance Research In Science And Engineering IJARSE, Vol. No.4, Special Issue-1ISSN-2319-8354, pp. 84-91, February 2015.
- Mohd Anees Siddiqui, **S.A.H. Jafri**, Shahnawaz Alam, "*Study of Static & Dynamic Simulation of Friction Stir Welding Process*", Vol. 1 Issue 1, Journal of Advanced Research in Mechanical Engineering and Technology, pp. 37-43, February 2015.
- Mohd Anees Siddiqui, **S.A.H. Jafri**, Shahnawaz Alam, "*Friction Stir Welding Process as a Solid State Joining -A Review*", Transactions on Industrial and Manufacturing Engineering, International Science Index, Vol.3 Issue.2, World Academy of Science, Engineering and Technology, February 2015.

- Mohd Anees Siddiqui, **S.A.H. Jafri**, Shahnawaz Alam, "*Study of Simulated Temperature of Butt Joint during Friction Stir Welding of Aluminium Alloy by Using HyperWorks*", International Journal of Engineering Research and Applications, ISSN: 2248-9622 Vol. 5 - Issue 1, pp.117-121, January 2015.
- Mohd Anees Siddiqui, **S.A.H. Jafri**, Shahnawaz Alam, "*Study of Friction Stir Welding Technique as a Solid-State joining of Metallic Plates*", World Scientific and Engineering Academy and Society , ISSN: 2227-4588, pp. 215-218, January 2015.
- Mohd. Anees Siddiqui, **S.A.H.Jafri**, P.K.Bharti, Pramod Kumar, "*Friction Stir Welding as a Joining Process through Modified Conventional Milling Machine: A Review*", International Journal of Innovative Research & Development, Vol3 Issue7, ISSN 2278-021, Jul 2014.
- Pramod Kumar, **S.A.H. Jafri**, P.K. Bharti, Mohd Anees Siddiqui, "*Study of Hazards Related To Cutting Fluids and Their Remedies*", International Journal of Engineering Research & Technology, Vol. 3 Issue7, ISSN: 2278-0181, July 2014.
- A.Y. Bokhary, Abdullah Turki, Nafis Ahmad and **S.A.H. Jafri** "*Mathematical simulation of eccentricity in spark plug and its effects on combustion parameters in spark ignition engine*", International Journal of Engineering Science and Technology (IJEST), Vol. 4 No. 11 November 2012: 4677-4686.

BOOK CHAPTERS

- Harshit, K., Jafri, S.A.H., Gupta, P. (2019). Impact of Material Chemistry on the Performance characteristics of a Coal Handling Plant. In: Hussain, C. (eds) Handbook of Environmental Materials Management. Springer, Cham.
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