AMR IBRAHIM

1. **Name and academic rank**

   Amr Ibrahim, Associate Professor, full time.

2. **Education – degree, discipline, institution, year**
   - Ph.D., Mechanical Engineering, University of South Australia, Australia, August 2009.
   - M.S., Mechanical Engineering, Alexandria University, Egypt, July 2004.
   - B.S., Mechanical Engineering, Degree of Honor, Alexandria University, June 2000.

3. **Academic and Professional experience**

   3.1 Academic experience
   - Beirut Arab University, Lebanon, Associate Professor, Fall 2016-present, full time.
   - Alexandria University, Egypt, Assistant Professor, 2009-2016, full time.
   - Practical Supervisor, Workshop Coordinator, and Marker, University of South Australia, 2006-2009, part time.
   - Tutor at the Department of Mechanical Engineering, Alexandria University, full time, 2000-2006, full time.

   3.2 Professional experience
   - Engineering Center for Consultancy, Alexandria University, 2000-2016, part time

4. **Professional credentials, certificates, or licensing**

   Egyptian Engineers Syndicate, member since 2000

   ASME member

5. **Professional development activities**
   - Participated in ASME & AEE seminars and workshops
   - Research interests

6. **Contribution to the discipline**

   6.1 Recent Service activities
   - Member of BAU Faculty of Engineering Research Committee
   - Mechanical Engineering lab coordinator
   - Mechanical Engineering internship advisor
   - Mechanical Engineering postgraduate advisor
   - Reviewer for several international scientific journals.

6.2 Publications

Journal Publications:

- Youssef A., and Ibrahim A., "A numerical investigation on enhancing the performance of a diesel engine fuelled with diesel-biodiesel blend using a diethyl ether as an additive", Journal of Engineering Reports, in press, accepted on 28/4/2024, e12915. http://doi.org/10.1002/eng2.12915 , John Wiley & Sons.

- Youssef A., and Ibrahim A., "An experimental evaluation for the performance of a single cylinder CI engine fueled by a Diesel-Biodiesel blend with alcohols and Zinc-Aluminate nanoparticles as additives", Journal of Materials Today: Proceedings, in press, accepted on 5/4/2024, https://doi.org/10.1016/j.matpr.2024.04.015, Elsevier.

- Ibrahim A., "Optimizing a spark-ignition engine fuelled with methane using a two zone combustion model", Journal of Energy Storage and Saving, vol 1, pp272-283, 2022, Elsevier.

- Ibrahim A., "An Experimental Study on Using Diethyl ether in a diesel engine operated with diesel-biodiesel fuel blend", Engineering Science and Technology, an International Journal, vol 21, pp1024-1033, 2018, Elsevier.

- Ibrahim A., "Investigating the effect of using diethyl ether as a fuel additive on diesel engine performance and combustion", Journal of Applied Thermal Engineering, vol 107, pp 853-862, 2016, Elsevier.

- Bassiony M.A., Ibrahim A., El-Kassaby M.M., "An experimental study on the effect of using gas-to-liquid (GTL) fuel on diesel engine performance and emissions", Alexandria Engineering Journal, vol 55, pp 2115-2124, , 2016, Elsevier.

- Ibrahim A., "Performance and combustion characteristics of a diesel engine fuelled by butanol-biodiesel-diesel blends", Journal of Applied Thermal Engineering, vol 103, pp 651-659, 2016, Elsevier.

- El-Adawy M., Ibrahim A., El-Kassaby M.M., "An Experimental Evaluation of Using Waste Cooking Oil Biodiesel in a Diesel Engine", Journal of Energy Technology, vol 1, No. 12, pp 726-734, 2013, John Wiley & Sons.

- Ibrahim A., El-Adawy M., El-Kassaby M.M., "The Impact of Changing the Compression Ratio on the Performance of an Engine Fuelled by Biodiesel Blends", Journal of Energy Technology, vol 1, No. 7, pp 395-404, 2013, John Wiley & Sons.

- Ibrahim A. ,"An Investigation on the Use of EGR in a Natural Gas SI Engine", Journal and Proceedings of the Royal Society of New South Wales, vol 142, no. 3-4, 2011.

- Ibrahim A. and Bari S., "An Experimental Investigation on the Use of EGR in a Supercharged Natural Gas SI Engine", Journal of Fuel, vol 89, pp 1721-1730, 2010, Elsevier.

- Ibrahim A. and Bari S., "Effect of Varying Compression Ratio on a Natural Gas SI Engine Performance in the Presence of EGR", Journal of Energy & Fuels, vol 23, pp 4949-4956, 2009, ACS Publications, American Chemical Society.

- Ibrahim A. and Bari S., " A Comparison between EGR and Lean-Burn Strategies Employed in a Natural Gas SI Engine Using a Two-Zone Combustion Model", Journal of Energy Conversion and Management, vol 50, pp 3129-3139, 2009, Elsevier.

- Ibrahim A. and Bari S., " Optimizing a Natural Gas SI Engine Employing EGR Strategy Using a Two-Zone Combustion Model", Journal of Fuel, vol 87, pp 1824-1834, 2008, Elsevier.

- Ibrahim A., El-Kassaby M., Osman M., and Hanafy M., " A Theoretical Investigation on the Effect of EGR vs. Excess Air on SI Engine Performance", Alexandria Engineering Journal, vol 45, No. 2, 2006, Elsevier.

International Conference Proceedings:

- Youssef A. and Ibrahim A., "An Experimental Evaluation for the Performance of a Single Cylinder CI Engine Fuelled by a Diesel-Biodiesel Blend with Alcohols and Zinc-Aluminate Nanoparticles as Additives", The 3rd International Conference on Materials Science & Engineering, ICMSE 2023, Department of Mechanical Engineering, National Institute of Technology Jalandhar, India, 23-25 November 2023.

- Ibrahim A., Bari S., and Bruno F., " A Study on EGR Utilization in Natural Gas SI Engines Using a Two-Zone Combustion Model", Society of Automotive Engineers, SAE paper no. 2007-01-2041, Kyoto, Japan, 2007.

- Ibrahim A. and Bari S., "A Theoretical Investigation on Using EGR in Natural Gas SI Engines", Proceedings of the International Conference on Mechanical Engineering, 29-31 December, 2007, Dhaka, Bangladesh.