

MOHAMMED KAMIL MOHAMMED, PHD

Associate Professor in Mechanical
Engineering

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Iraqi Citizen

<https://scholar.google.com/citations?user=KDAsoY4AAAAJ&hl=enr.g>

<https://publons.com/researcher/1724335/mohammed-kamil/>

<https://loop.frontiersin.org/people/710685/overview>




Professional Profile

A leading Associate Professor in Mechanical Engineering with many papers delivered in sustainable energy, hydrogen fuelled Engines and heat transfer processes, amongst others. Influential in research, winning an award for being the most frequently cited researcher at the University of Tikrit. Excellent networking skills, holding ten memberships in professional bodies and being on several committees. Active in university administration, with a present focus on engaging students and promoting their welfare.

Key Skills

Administration:	Held 14 administration posts since 2003, including being a Deputy Dean
Citations:	Google Scholar: 3353 , Scopus: 2395 up till 29 th Aug. 2024
Consultancies:	Two long term industrial consultancies held
Mechanical Engineering:	Alternative energies, Alternative fuels, Computational Fluid Dynamics, Fluid flow, Heat transfer, Hydrogen Fuel, Power Generation Plants, Refrigeration and Air-conditioning, Energy Conversion.
Publications:	52 articles in International Refereed Journals, 15 conference papers
Research Grants:	More than 1,140,000.00 research funds for various research projects with different groups.
Teaching:	Taught 18 different topics relevant to mechanical engineering since 2003. Supervised 88 projects for undergraduate students

Career Summary

 Associate Professor in Mechanical Engineering	Jan 2022 – to date
 Assistant Professor in Mechanical Engineering	Sep 2015 - Jan 2022
 University of Sharjah, UAE	



SUBJECTS TAUGHT

Introduction to Mechanical Engineering, Thermal System Design, Heating, Ventilation and Air-Conditioning, Power Generation Plants, Thermo-Fluids Lab, Energy Conversion, Thermodynamics, Fluid Mechanics, Gas Dynamics, Advanced Refrigeration Systems, Advanced Heating, Ventilation and Air-Conditioning.

ADMINISTRATION



Member of the Student Affairs Committee	Dec 2015-Dec 2017
Member of the Outreach and Communication Committee	Sep 2015-date
Member of the Student Welfare Committee	Sep 2015-Sep 2017
Chair of the Technical Committee in ME for purchasing lab equipment	Sep 2015-date
Member of the Committee of ABET SSR in ME Department	Nov 2015-Jan 2016
Member of the Committee of New Academic Staff Selection for ME Department	Nov 2015-Jan 2016
Member of the Committee of Organizing the UAE Innovation Week Event	Oct 2015-Oct 2018
Coordinator of the Committee for Master of Science in Aerospace Engineering program	Feb 2016-Feb 2018
Coordinator for the Summer Internship Program in ME Department	Nov 2015-Nov 2018
★ Appreciation Certificate of the outstanding efforts in the UAE Innovation Week	2016

★ Hamdan bin Rashid Al Maktoum Award for Distinguished Academic Performance, UAE 2018

 **Assistant Professor in Mechanical and Mechatronics Engineering** Feb 2015-Aug 2015
 Dhofar University, Sultanate of Oman

SUBJECTS TAUGHT

Introduction to Engineering, Engineering Graphics, Thermodynamics, Fluid Mechanics, Kinematics of Mechanical Systems

 **Assistant Professor in Mechanical/Petroleum and Minerals Engineering** Mar 2003-Feb 2015
 Tikrit University, Iraq



Also served as an assistant professor in Mechanical/Petroleum and Minerals Engineering from Dec 2013 to Feb 2015

SUBJECTS TAUGHT

Mathematics 1, Mathematics II, Engineering Drawing and Descriptive Engineering, Mechanical Drawing, Internal Combustion Engines, Air Conditioning and Refrigeration, Fluid Mechanics, Heat Transfer.

ADMINISTRATION

Deputy Dean for Scientific Affairs	Dec 2013-Feb 2015
Coordinator and Member of The Council of College of Engineering	Mar 2003-Mar 2005
Coordinator and Member for Reconstruction Committee in Tikrit University	May 2004-May 2006
Coordinator of Mechanical Engineering Department	Mar 2005-Mar 2007
Coordinator and Member of Bids Analysis and Evaluation Committee	Jan 2014-Feb 2015
★ Best Faculty Staff at the Silver Jubilee of College of Engineering - Tikrit University	2013
★ Best Faculty Staff Researcher at Tikrit University	2014
★ Faculty Staff getting highest Citations and H-index	2014

 **Research Fellow in Automotive and Industrial Engineering** Nov 2007-Jun 2011
 University Malaysia Pahang, Malaysia

Education

PhD Mechanical Engineering	Universiti Malaysia Pahang, Malaysia	2011
Specializing in Automotive and Alternate Energies Dissertation: Simulation Models to Optimize Hydrogen Fuelled Engine Performance		
MSc Mechanical Engineering in Thermo-Fluids	University of Baghdad, Iraq	2002
Thesis: Performance Study of an Automotive Air-Conditioning System with Alternative Refrigerants		
BSc General Mechanical Engineering	Tikrit University, Iraq	1999
Thesis: Design of a Water Pumping Station for Irrigation Purposes		

Languages: Fully fluent in Arabic and English

Professional Associations

Iraqi Engineering Union	Consultant	1999
Association of University Lecturers in Iraq	Senior	2003
International Association of Hydrogen Energy	Senior	2009
International Desalination Association	Senior	2014
Universal Assoc. of Mechanical and Aeronautical Engineering	Senior	2014
Iraqi Energy Institute	Member	2014
World Academy of Science, Engineering and Technology	Committee and Editorial Reviewer	2016
American Society of HVAC and Refrigeration Engineers	Full Member	2016
Society of Automotive Engineers Internationals	Full Member	2016
International Association of Engineers	Full Member	2016
Society of Automotive Engineers of Japan	Full Member	2019

Appendix: A Refereed Papers B: Professional Development C: Consultancies and International Outreach
D: Students E: Academic Accreditation F: Editorials

REFERENCES ARE AVAILABLE ON REQUEST

Appendix A: Refereed Papers

(a) International Refereed Papers

2024

1. Zhen Liang, Zhenbin Chen, Omar I. Awad, Yu Wang, Yudong Wan, **Mohammed Kamil**, Numerical investigation on spray, combustion and emission characteristics of marine engine for polyol solution-heavy fuel oil blend fuels, *Case Studies in Thermal Engineering*, Volume 53, 2024, 103814, <https://doi.org/10.1016/j.csite.2023.103814>.
2. Elbalki, M.; Shaaban, M.F.; Osman, A.; Pietrasanta, A.; **Mohammed Kamil**; Ali, A. Optimizing Integrated Water and Electrical Networks through a Holistic Water–Energy Nexus Approach. *Sustainability* 2024, 16, 3783. <https://doi.org/10.3390/su16093783>

2023

3. **Mohammed Kamil**; Almarashda, F.M. Economic Viability and Engine Performance Evaluation of Biodiesel Derived from Desert Palm Date Seeds. *Energies* 2023, 16, 1513. <https://doi.org/10.3390/en16031513>
4. Abrar Inayat, Rumaisa Tariq, Zakir Khan, Chaouki Ghenai, **Mohammed Kamil**, Farrukh Jamil & Abdallah Shanableh. A comprehensive review on advanced thermochemical processes for bio-hydrogen production via microwave and plasma technologies. *Biomass Conversion and Biorefinery*, 2023, 13(10), pp. 8593–8602 <https://doi.org/10.1007/s13399-020-01175-1>

2022

5. A.G. Olabi, Hussein M. Maghrabie, Ohood Hameed Kadhim Adhari, Enas Taha Sayed, Bashria A.A. Yousef, Tareq Salameh, **Mohammed Kamil**, Mohammad Ali Abdelkareem, Battery thermal management systems: Recent progress and challenges, *International Journal of Thermofluids*, Volume 15, 2022, 100171, <https://doi.org/10.1016/j.ijft.2022.100171>
6. Lisandra Rocha-Meneses, Rawan Zannerni, Abrar Inayat, Mohamed Abdallah, Abdallah Shanableh, Chaouki Ghenai, **Mohammed Kamil** & Timo Kikas. Current progress in anaerobic digestion reactors and parameters optimization. *Biomass Conv. Bioref.* (2022). <https://doi.org/10.1007/s13399-021-02224-z>

2021

7. Mohammad Ali Abdelkareem, Khaled Elsaid, Tabbi Wilberforce, **Mohammed Kamil**, A. Olabi. Environmental aspects of fuel cells: A review. *Science of the Total Environment*, 2021, 752, 141803. <https://doi.org/10.1016/j.scitotenv.2020.141803>
8. Mikhail A. Ershov, Ekaterina V. Grigoriev, Tamer M. M. Abdellatif, Vladimir M. Kapustin, Mohammad Ali Abdelkareem, **Mohammed Kamil**, A.G. Olabi. Hybrid low-carbon high-octane oxygenated gasoline based on low-octane hydrocarbon fractions. *Science of the Total Environment*, 2021, 756, 142715.
9. Shanableh, A., Abdallah, M., Tayara, A., Chaouki Ghenai, **Mohammed Kamil**, Inayat, A., Shabib, A. Experimental characterization and assessment of bio- and thermo-chemical energy potential of dromedary manure. *Biomass and Bioenergy*, 2021, 148, 106058. <https://doi.org/10.1016/j.biombioe.2021.106058>
10. Abdellatif, T.M.M., Ershov, M.A., Kapustin, V.M., Abdelkareem, M.A., **Mohammed Kamil**, M., Olabi, A.G. Recent trends for introducing promising fuel components to enhance the anti-knock quality of gasoline: A systematic review. *Fuel*, 2021, 291, 120112. <https://doi.org/10.1016/j.fuel.2020.120112>.
11. Omar Awad, Ma Xiao, **Mohammed Kamil**, Zhou Bo, Obed Majeed Ali, and Shijin Shuai. A Review of the Effects of Gasoline Detergent Additives on the Formation of Combustion Chamber Deposits of Gasoline Direct Injection Engines. *SAE International Journal of Fuels and Lubricants*, 2021, 14 (1). <https://doi.org/10.4271/04-14-01-0002>
12. K. M. Ramadan, Mohammed Kamil, I. Tlili, O. Qsieh. Analysis of Thermal Creep Effects on Fluid Flow and Heat Transfer in a Microchannel Gas Heating. *Journal of Thermal Sciences and Engineering Applications*. 2021, 13 (6). <https://doi.org/10.1115/1.4050236>
13. Inayat, Abrara, A.; Jamil, Farrukhc; Ghenai, Chaoukia ; **Kamil, Mohammed**; Bokhari, Awais; Waris, Ammara ; Rafiq, Sikander; Khurram, Shahzad. Biodiesel synthesis from neem oil using neem seeds residue as sustainable catalyst support. *Biomass Conversion and Biorefinery*, 2021,

2020

14. Khaled Elsaid, **Mohammed Kamil**, Enas Taha Sayed, Mohammad Ali Abdelkareem, Tabbi Wilberforce, A. Olabi. Environmental impact of desalination technologies: A review. *Science of the Total Environment*. 748, 15 (2020): 141528. DOI: <https://doi.org/10.1016/j.scitotenv.2020.141528>
15. Mohamed Alawadhi, Jumah Almazrouie, **Mohammed Kamil** & Khalil Abdelrazek Khalil. Review and analysis of the importance of autonomous vehicles liability: a systematic literature review. *International Journal of System Assurance Engineering and Management*. (2020), <https://doi.org/10.1007/s13198-020-00978-9>
16. Saad Abed, **Mohammed Kamil**, N Abdurahman, Rosli Yunus and Omar Awad, "An overview of reforming technologies and Effect of Parameters on Catalytic Performance of mesoporous silica/alumina supported nickel catalysts for syngas production by methane dry reforming", *Recent Innovations in Chemical Engineering* (2020) 13: 4. <https://doi.org/10.2174/2405520413666200313130420>
17. Awad OI, Ma X, **Mohammed Kamil**, Ali OM, Zhang Z, Shuai S. Particulate emissions from gasoline direct injection engines: A review of how current emission regulations are being met by automobile manufacturers. *Science of the Total Environment* 2020;718:137302. <https://doi:10.1016/J.SCITOTENV.2020.137302>
18. Humada AM, Darweesh SY, Mohammed KG, **Mohammed Kamil**, Mohammed SF, Kasim NK, et al. Modeling of PV system and parameter extraction based on experimental data: Review and investigation. *Solar Energy* 2020;199:742–60. <https://doi.org/10.1016/j.solener.2020.02.068>
19. AL Muallim B, Wahid MA, Mohammed HA, **Mohammed Kamil**, Habibi D. Thermal-Hydraulic Performance in a Microchannel Heat Sink Equipped with Longitudinal Vortex Generators (LVGs) and Nanofluid. *Processes* 2020, 8, 231. <https://doi.org/10.3390/pr8020231>
20. Mohamed Alawadhi, Jumah Almazrouie, **Mohammed Kamil** & Khalil Abdelrazek Khalil. A systematic literature review of the factors influencing the adoption of autonomous driving. *International Journal of System Assurance Engineering and Management*. (2020), <https://doi.org/10.1007/s13198-020-00961-4>
21. Omar I. Awad, Xiao Ma, **Mohammed Kamil**, Obed M. Ali, Yue Ma, Shijin Shuai. Overview of polyoxymethylene dimethyl ether additive as an eco-friendly fuel for an internal combustion engine: Current application and environmental impacts. *Science of the Total Environment*, 715 (2020): 136849. DOI: <https://10.1016/J.SCITOTENV.2020.136849>
22. **Mohammed Kamil**, Khalid M. Ramadan, Abdul Ghani Olabi, Eman I. Al-Ali, Xiao Ma, Omar I. Awad. Economic, technical, and environmental viability of biodiesel blends derived from coffee waste. *Renewable Energy* 147 March 2020 pages 1880-1894. DOI: <https://doi.org/10.1016/j.renene.2019.09.147>

2019

23. **Mohammed Kamil**, Khalid M. Ramadan, Abdul Ghani Olabi, Abdallah Shanableh, Chaouki Ghenai, Amna K. Al Naqbi, Omar I. Awad, Xiao Ma. Comprehensive evaluation of the life cycle of liquid and solid fuels derived from recycled coffee waste. *Resources, Conservation & Recycling*, Volume 150, (November) 2019. <https://doi.org/10.1016/j.resconrec.2019.104446>
24. **Mohammed Kamil**, Khalid Ramadan, Omar I. Awad, Thamir K. Ibrahim, Abrar Inayat, Xiao Ma. 2019. Environmental impacts of biodiesel production from waste spent coffee grounds and its implementation in a compression ignition engine. *Science of The Total Environment*. Volume 675, 20 July 2019, Pages 13-30 <https://doi.org/10.1016/j.scitotenv.2019.04.156>
25. **Mohammed Kamil**; Ramadan, K.; Olabi, A.G.; Ghenai, C.; Inayat, A.; Rajab, M.H. Desert Palm Date Seeds as a Biodiesel Feedstock: Extraction, Characterization, and Engine Testing. *Energies* 2019, 12, 3147. <https://doi.org/10.3390/en12163147>
26. **Mohammed Kamil**; Ramadan, K.; Ghenai, C.; Olabi, A.G.; Nazzal, I.T. Emissions from Combustion of Second-Generation Biodiesel Produced from Seeds of Date Palm Fruit (*Phoenix dactylifera* L.). *Applied Sciences* 2019, 9, 3720. <https://doi.org/10.3390/app9183720>
27. Saad, M.A.; **Mohammed Kamil**; Abdurahman, N.H.; Yunus, R.M.; Awad, O.I. An Overview of Recent Advances in State-of-the-Art Techniques in the Demulsification of Crude Oil Emulsions. *Processes* 2019, 7, 470. <https://doi.org/10.3390/pr7070470>

28. **Mohammed Kamil**, Wadhah Al Doori, Atalah Jassim, Thamir Ibrahim, Ahmed Al-Sammarraie, 2019. Energy and exergy analysis of the steam power plant based on effect the numbers of feed water heater. *Journal of Advanced Research in Fluid Mechanics and Thermal Sciences*, 56, Issue 2 (2019) 211-222
29. **Mohammed Kamil**, Saad Nazir, 2019. Effect of Evaporator Load on Heat Pump Operating Parameters and Performance. *Journal of Energy and Power Engineering*, 13 (2019) 124-129
<https://doi.org/10.17265/1934-8975/2019.03.004>
30. Ahmed N. Abdalla, Hai Tao, Salam A. Bagaber, Obed M. Ali, **Mohammed Kamil**, Omar I. Awad, 2019. Prediction of Emissions and Performance of a Gasoline Engine Running with Fusel Oil–Gasoline Blends Using Response Surface Methodology. *Fuel*, 253(2019), 1-14.
<https://doi.org/10.1016/j.fuel.2019.04.085>
31. Thamir K. Ibrahim, **Mohammed Kamil**, Wadhah H. Al Doori, Ahmed T. Al-Sammarraie, Firdaus Basrawi, 2019. Study of The Performance of The Gas Turbine Power Plants from The Simple to Complex Cycle: A Technical Review. *Advanced Research in Fluid Mechanics and Thermal Sciences*, 57, Issue 2 (2019) 228-250.
32. Khalid M. Ramadan, **Mohammed Kamil**, and Mohammad S. Bataineh, 2019. Conjugate heat transfer in a microchannel simultaneously developing gas flow: a vorticity stream function-based numerical analysis. *Journal of Thermal Science and Engineering Applications*, 1-21 (2019) (21 pages).
<https://doi.org/10.1115/1.4043468>
33. Omar I. Awad, Zhou Zhang, **Mohammed Kamil**, Xiao Ma, Obed Majeed Ali and Shijin Shuai. 2019. Wavelet Analysis of the Effect of Injection Strategies on Cycle to Cycle Variation GDI Optical Engine under Clean and Fouled Injector. *Processes* 2019, 7 (11), 817.
<https://doi.org/10.3390/pr7110817>

2018

34. Thamir k. Ibrahim, Mohammed Kamil, Omar I. Awad, Marwah N. Mohammed, G. Najafi, Firdaus Basrawi, Ahmed N. Abdullah and Rizalman, 2018. A Comprehensive Review on the Exergy Analysis of Combined Cycle Power Plants. *Renewable and Sustainable Energy Reviews*, Volume 90, July 2018, Pages 835-850.
<https://doi.org/10.1016/j.rser.2018.03.072>
35. Thamir K. Ibrahim, Marwah N. Mohammed, **Mohammed Kamil**, G. Najafi, Nor Azwadi Che Sidik, Firdaus Basrawi, Ahmed N Abdalla, S.S. Hoseini. 2018. Experimental study on the effect of perforations shapes on vertical heated fins performance under forced convection heat transfer. *International Journal of Heat and Mass Transfer*, 118 (March), pp 832–846. <https://doi.org/10.1016/j.ijheatmasstransfer.2017.11.047>

2017

36. Thamir k. Ibrahim, **Mohammed Kamil**, Omar I. Awad, M.M. Rahman, G. Naja, Firdaus Basrawi, Ahmed N. Abd Alla, Rizalman Mamat, 2017. The optimum performance of the combined cycle power plant: A comprehensive review. *Renewable and Sustainable Energy Reviews*, 79 (November), pp 459-474.
<http://dx.doi.org/10.1016/j.rser.2017.05.060>

2016

37. Thamir K. Ibrahim, M.M. Rahman, **Mohammed Kamil** and Firdaus Basrawi. 2016. Statistical analysis and optimum performance of the gas turbine power plant. *International Journal of Automotive and Mechanical Engineering (IJAME)*, 13 (1), pp 3215-3225. <http://dx.doi.org/10.15282/ijame.13.1.2016.8.0268>
38. **Mohammed Kamil**, M. M. Rahman and Rosli Abu Bakar. 2016. Development of a Complete Single Jet Common Rail Injection System Gas Dynamic Model for Hydrogen Fueled Engine with Port Injection Feeding System. *International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering* Vol: 10, No: 6, pp 881-889.
39. **Mohammed Kamil**, Ibrahim T. Nazzal. 2016. Performance Evaluation of Spark Ignited Engine Fueled with Gasoline-ethanol–methanol blends. *Journal of Energy and Power Engineering*, 10(6). 343-351
<http://dx.doi.org/10.17265/1934-8975/2016.06.002>

2015

40. Mohammed Kamil and M. M. Rahman. 2015. Performance prediction of spark-ignition engine running on gasoline-hydrogen and methane-hydrogen blends. *Applied Energy*, 158 (15 November 2015), pp 556–567. <http://dx.doi.org/10.1016/j.apenergy.2015.08.041>
41. Mohammed Kamil and M. M. Rahman. 2015. Effect of injection hole diameter on operational Conditions of common-rail fuel-injection system for port injection Hydrogen-fueled Engine. *International Journal of Automotive and Mechanical Engineering (IJAME)*, 11 (Jan-June), pp 2383-2395. <http://dx.doi.org/10.15282/ijame.11.2015.19.0200>

2014

42. Khalaf I. Hamada, Mohammed Kamil, M.M. Rahman. 2014. Development of a test-rig for a modern motorcycle engine. *International Journal of Automotive and Mechanical Engineering (IJAME)*. 10 (2) (July-December), pp 2034-2041. <http://dx.doi.org/10.15282/ijame.10.2014.20.0171>
43. Mohammed Kamil, M.M. Rahman¹, and Rosli A. Bakar. 2014. An integrated model for predicting engine friction losses in internal combustion engines. *International Journal of Automotive and Mechanical Engineering (IJAME)*, 11, pp 2383-2395. <http://dx.doi.org/10.15282/ijame.9.2013.19.0141>

2013

44. Mohammed Kamil, M. M. Rahman, Rosli abu Bakar. 2013. Integrated Simulation Model for Composition and Properties of Gases in Hydrogen Fueled Engine. *International Journal of Automotive and Mechanical Engineering (IJAME)*, 8 (July-December): 1242-1255. DOI: <http://dx.doi.org/10.15282/ijame.8.2013.14.1242-1255>

2012

45. Mohammed Kamil, M. M. Rahman, R. A. Bakar, K. Kadrigama. 2012. Modeling of SI engine for dual fuels of hydrogen, gasoline and methane with port injection feeding system. *Energy Education Science and Technology Part A*, 29 (2), pp 1399-1416.

2011

46. Mohammed Kamil, M. M. Rahman and Rosli A. Bakar, 2011. Performance evaluation of External Mixture Formation Strategy in Hydrogen Fueled Engine. *Journal of Mechanical Engineering and Sciences*, 1, pp. 87-98. DOI: <http://dx.doi.org/10.15282/jmes.1.2011.8.0008>
47. Rahman, M.M., Mohammed Kamil. and Rosli, A.B., 2011. Engine performance and optimum injection timing for 4-cylinder direct injection hydrogen fueled engine. *Simulation Modelling Practice and Theory*. 19(2): 734-751. <https://doi.org/10.1016/j.simpat.2010.10.006>

2010

48. Mohammed Kamil, M. M. Rahman and Rosli A. Bakar, 2010. Modeling of Common Rail Fuel Injection System of Four Cylinder Hydrogen Fueled Engine. *Journal of Engineering and Technology*, 1 (1), pp. 37-51.

2009

49. Rahman, M.M., Mohammed Kamil & Rosli, A.B., 2009. Effects of Engine Speed on Injection Timing and Performance for 4-cylinder Direct Injection Hydrogen fueled engine. *Canadian Journal for Pure & Applied Sciences*, 3(1), pp. 731-739.
50. M.M. Rahman, Mohammed Kamil and Rosli A. Bakar, 2009. Effects of Air Fuel Ratio and Engine Speed on Engine Performance of Hydrogen Fueled Port Injection Engine. *European Journal of Scientific Research*, 25(2), pp.214-225.

51. M.M. Rahman, **Mohamed Kamil** and Rosli A. Bakar, 2009. Effects of Air-Fuel Ratio and Engine Speed on Performance of Hydrogen Fueled Port Injection Engine. *Journal of Applied Sciences*, 9(6), pp. 1128-1134. DOI: [10.3923/jas.2009.1128.1134](https://doi.org/10.3923/jas.2009.1128.1134)
52. M.M. Rahman, **Mohamed Kamil** and Rosli A. Bakar, 2009. Air fuel ratio on engine performance and instantaneous behavior of crank angle for four-cylinder direct injection hydrogen fueled engine. *Journal of Applied Sciences*, 9(16), pp. 2877-2886. DOI: [10.3923/jas.2009.2877.2886](https://doi.org/10.3923/jas.2009.2877.2886)
53. M.M. Rahman, **Mohamed Kamil** and Rosli A. Bakar, 2009. Effects of air fuel ratio and engine speed on engine performance of hydrogen fueled port injection engine. *American Journal of Scientific Research*, 1 (2009), pp.23-33.
54. M.M. Rahman, **Mohamed Kamil** and Rosli A. Bakar, 2009. Trends of rotational speed on engine performance for four cylinders direct injection hydrogen fueled engine. *Trends in Applied Sciences Research*, 4(4), pp. 188-199. (ISI Thomson Indexing)
55. Rosli A. Bakar, **Mohammed Kamil** and M. M. Rahman, 2009. Numerical study on the performance characteristics of hydrogen fueled port injection internal combustion engine. *American Journal of Engineering and Applied Sciences*, 2(2); pp. 407-415. DOI: [10.3844/ajeassp.2009.407.415](https://doi.org/10.3844/ajeassp.2009.407.415)

2007

56. **Mohammed Kamil** and Nassir D.M., 2007. Mathematical and computer models for thermodynamic properties of methane (R-50), Ethylene (R-1150) and propylene (R1270). *Tikrit journal for engineering and science*, 13 (2), pp. 93-118.

2003

57. Khalid, A.J., Abdul Sattar, K.M. and **Mohammed Kamil**, 2003. Experimental and computer performance study of an automotive air conditioning system with alternative refrigerants. *Energy Conversion and Management*, 44 (18), pp. 2959- 2976.

(b) Conference Papers

2024

- M. Ghannam, O. A. Ghannam, B. M. Alshwaiki and **Mohammed Kamil**, "Experimental Analysis on Conventional Solar Still Equipped with Ultrasonic Waves," 2023 Advances in Science and Engineering Technology International Conferences (ASET), Dubai, United Arab Emirates, 2023, pp. 1-8, doi: 10.1109/ASET56582.2023.10180692.

2021

- Al-Hawarneh, J., **Mohammed Kamil**, Rashid, H. The Variation of Energy Consumption and Economic Impact in Regards of Location, Building, and System Type in UAE Air Conditioning Industry. Proceedings of the International Conference on Industrial Engineering and Operations Management, 2021, pp. 102–112

2018

- **Mohammed Kamil**, Kh Abdolbaqi, Thamir K. Ibrahim, Rizalman Bin Mamat and Omar I, 2018 Awad. Experimental and Numerical investigation of Heat transfer enhancement using Al2O3-Ethylene Glycol/Water nanofluids in straight

channel. UTP-UMP-VIT Symposium on Energy Systems 2018 (SES 2018) UTP Perak, UMP Pahang, Malaysia and VIT Tamil Nadu, India, September 18-19, 2018. DOI: <https://doi.org/10.1051/mateconf/201822501019>

- **Thamir K. Ibrahim, Mohammed Kamil, Omar I. Awad, Rizalman Bin Mamat and M. Kh Abdolbaqi, 2018. Thermal and Economic Analysis of Gas Turbine Using Inlet Air Cooling System. UTP-UMP-VIT Symposium on Energy Systems 2018 (SES 2018) UTP Perak, UMP Pahang, Malaysia and VIT Tamil Nadu, India, September 18-19, 2018. DOI: <https://doi.org/10.1051/mateconf/201822501020>**

2016

- **Mohammed Kamil, M. M. Rahman, Rosli abu Bakar. 2016. Development of a Complete Single Jet Common Rail Injection System Gas Dynamic Model for Hydrogen Fueled Engine with Port Injection Feeding System. 18th International Conference on Spacecraft and Air Vehicle Designs, Dubai – UAE, June 01-02, 2016.**
- **Mohammed Kamil, Ibrahim T. Nazzal, M.M. Rahman, Rosli abu Bakar. 2016. Engine Performance Response with Direct Injected Hydrogen Fuel. MECHATECH '16, International Mechanical Engineering and Technologies Conference, Istanbul, Turkey, 17-18 May, 2016.**

2013

- **Mohammed Kamil, M. M. Rahman, Rosli abu Bakar. 2013. An Integrated for Predicting Engine Friction Losses in Internal Combustion Engine. International Conference of Mechanical Engineering Research ICMER, 1-3 July 2013, Bukit Gambang Resort City, Kuantan, Pahang, Malaysia.**
- **Mohammed Kamil, M. M. Rahman, Rosli abu Bakar. 2013. Integrated Simulation Model for Composition and Properties of Gases in Hydrogen Fueled Engine. International Conference of Mechanical Engineering Research ICMER, 1-3 July 2013, Bukit Gambang Resort City, Kuantan, Pahang, Malaysia.**

2009

- **M.M. Rahman, Mohammed Kamil, Rosli A. Bakar and M.S.M. Sani. 2009. Study of air fuel ratio and instantaneous behavior on crank angle of four cylinder direct injection hydrogen fueled engine. Proceedings of the World Congress on Engineering (WCE2009), London, UK, 2: 1787-1792.**
- **M.M. Rahman, Khalaf I. Hamada, Mohammed Kamil, Rosli A. Bakar, M.M. Noor, K. Kadirgama, 2009. Numerical investigation of the in -cylinder flow characteristics of hydrogen fueled internal combustion engine. International Advanced of Technology Congress (ATCi), PWTC, Malaysia. November 3 -5, 2009**
- **M. M. Rahman, Mohammed Kamil and Rosli A. Bakar, 2009. Effects of engine speed on gas dynamics of common rail fuel injection system for four-cylinder hydrogen fueled engine. International Advanced of Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.**
- **M.M. Rahman, Mohammed Kamil and Rosli A. Bakar. Investigation into the effect of engine speed on performance of four-cylinder direct injection hydrogen fueled engine. International Conference on Software Engineering and Computer Systems (ICSECS'09), Kuntan, Pahang, Malaysia. October 19th -21st 2009.**
- **Mohammed Kamil, Rahman, M. & Rosli A.B., 2009. Modeling of Common Rail Fuel Injection System of Four Cylinder Hydrogen Fueled Engine. Proceedings of MUCEET2009, June 20-22, Pahang, Malaysia.**
- **M.M. Rahman, Mohammed Kamil and Rosli A. Bakar, 2009. Effect of Air-Fuel Ratio on Engine Performance of Single Cylinder Port Injection Hydrogen Fueled Engine: A Numerical Study. International MultiConference of Engineers and Computer Scientists 2009, Hong Kong, 19-21 March 2009.**

2008

- *M.M. Rahman, **Mohammed Kamil** and Rosli A. Bakar, 2008. Effects Of Air Fuel Ratio On The Performance of Four Cylinders Direct Injection Hydrogen Fueled Engine. 2nd Engineering Conference (ENCON 2008), 17-19 December, 2008, Crowne Plaza Riverside Resort, Kuching, Sarawak, **Malaysia**.*
- *M.M. Rahman, **Mohammed Kamil** and Rosli A. Bakar, 2008. Trends of Air Fuel Ratio And Crank Angle On Engine Performance of Four Cylinders Direct Injection Hydrogen Fueled Engine. Curtin University of Technology Science and Engineerin International Conference (CUTSE 2008), 24-27 November 2008, Miri, Sarawak, **Malaysia**.*
- *M.M. Rahman, **Mohammed Kamil** and Rosli A. Bakar, 2008. Effect of Engine Speed on Performance of Four-Cylinder Direct Injection Hydrogen Fueled Engine. 4th BSME-ASME International Conference on Thermal Engineering, **Bangladesh**, 27-29 December 2008.*

Appendix B: Professional Development

Short term courses

Aircraft Air-Conditioning Systems	ENSAM Engineering School	France	Jul 2006
VVT Systems in internal Combustion Engines	University Technology Petronas	Malaysia	Sep 2008
Internal Combustion Engines	University Kebangsaan UKM	Malaysia	Mar 2009
Accreditation Procedure and Requirements	ABET	Iraq	Sep 2013
Valves: Standards and Manufacturing Process	Galassi & Ortolani	Italy	Aug 2013
Designing Smart Systems for Buildings	KNX	UAE	Feb 2016
Finite Element Modeling	COMSOL	UAE	Nov 2015
Engineering Graphics and Design	CAD CAM CIM FZC	UAE	Dec 2015

Symposiums

18th International Conference on Spacecraft and Air Vehicle Designs	Dubai, UAE	Jun 2016
International Mechanical Engineering and Technologies Conference	Istanbul, Turkey	May 2016
International Conference of Mechanical Engineering Research ICMER	Kuntan, Malaysia	Jul 2013
Proceedings of the World Congress on Engineering	London, UK	Jul 2009
International Advanced of Technology Congress, PWTC	Kuala Lumpur, Malaysia	Nov 2009
International Conference on Software Engineering and Computer Systems	Kuntan, Malaysia	Oct 2009
Proceedings of MUCEET2009	Kuntan, Malaysia	Jun 2009
2nd Engineering Conference ENCON	Sarawak, Malaysia	Dec 2008
Curtin University of Technology Science and Engineering International Conference	Sarawak, Malaysia	Nov 2008
International Multi-Conference of Engineers and Computer Scientists	Hong Kong	Mar 2009
4th BSME-ASME International Conference on Thermal Engineering	Bangladesh	Dec 2008

Appendix C:

Consultancies and International Outreach

Abraj Al-Lujein for General Trading, Iraq	Technical Manager	Feb 2004-Feb 2015
Galassi & Ortolani S.P.A, Italy	Sole Agent and Representative	Apr 2012-Feb 2015
Arab Foundation for Training, Consultation, Arbitration, Egypt	Trainer	Oct 2010-Feb 2015
Think Science” program Competition, UAE	Reviewer	2016-date
University Innovation Programme Competition, Dubai	Reviewer	2017
Universal Association of Mechanical and Aeronautical Engineering	Senior Member	2016-date
World Academy of Science, Engineering and Technology	Committee and Editor	2016-date
Iraqi Energy Institute	Member	2014-date
Salahuddin Province Investment Body – Iraq	Consultant	Sep 2013

Conferences

Member

SCON International Conference and Expo on Green Energy and Renewable Energies, Japan	Mar 2020
4th International Conference on Emerging trends in Mechanical & Industrial Engineering, India	Oct 2019
Sustainable Environment and Urban Infrastructure International Conference, UAE	Feb 2018
The UAE Graduate Students Research Conference 2016, UAE	Apr 2016

Editor

International Conference on Advances in Mechanical, Aeronautical and Production Techniques Malaysia	Dec 2014
International Conference on Futuristic Trends in Engineering, Science, Pharmacy and Management India	Dec 2018
International Energy and Engineering Conference 2016, Gaziantep, Turkey	Oct 2018

Speaker

Hydrogen Fuel Future Symposium, Tikrit, Iraq	Mar 2012
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Appendix D: Students

Research Students Supervised/Trained:

PhD Students	1
Master Students	2
Undergraduate Students	80

With one Master student also being examined in the Thesis and Oral Examination Committee

Appendix E: Academic Accreditations

Mechanical Engineering, Tikrit University, Iraq	ABET accreditation	Mar 2011-Dec 2013
Mechanical Engineering, University of Sharjah, UAE	ABET accreditation	Sep 2015-Jan 2016
Desalination and Water Engineering, University of Sharjah, UAE	Ministry of Education	Sep 2016-Sep 2018
Master of Science in Aerospace Engineering, University of Sharjah	Ministry of Education	Feb 2016-date
Master of Science in Mechanical Engineering, University of Sharjah	Ministry of Education	Jan 2019-date

Appendix F: Editorials

Membership of editorial boards

International Journal of Thermofluids	Elsevier	Nov 2019-date
Frontiers in Mechanical Engineering	Frontiers Media S.A., Switzerland	Jun 2019-date
The International Journal of Energy & Engineering Science	Gaziantep University, Turkey	Nov 2017-date
Journal of Energy and Power Engineering	David Publishing Company	2015-date
Central Asian Journal of Environmental Science and Technology Innovation	Central Asian Scientific Press	2018-date

Reviewer

Tikrit Journal for Engineering Sciences	College of Engineering, Tikrit University	Nov 2011
Journal of Mechanical Engineering and Sciences (JMES)	University Malaysia Pahang	Dec 2011-date
IIUM Engineering Journal	International Islamic University Malaysia	Mar 2012
Journal of Energy and Power Engineering	David Publishing Company	Jan 2013
The International Journal of Energy & Engineering Science	Gaziantep University – Turkey	Nov 2017-date
Energy Conversion and Management	Elsevier	Mar 2019-date
IEEE Access	IEEE	Mar 2019-date
Fuel	Elsevier	Dec 2019-date
Agronomy Research	Estonian Agricultural University	Jan 2020-date
Case Studies in Thermal Engineering	Elsevier	Dec 2019-date
Environmental Science and Pollution Research	Springer	Apr 2020-date
Journal of Cleaner Production	Elsevier	Apr 2020-date
Renewable Energy	Elsevier	Oct 2019-date