

Dr. Hazim Fadhil Abbas

Associate Professor

Chemical and Petrochemical Engineering

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Time at UoN: Since 2012

Marital Status: Married.

Ph.D.University of Malaya,Malaysia,2010 M.SC.University of Baghdad,Iraq,1996 B.SC.University of Technology,1989

Academic Qualifications

PhD, University of Malaya, 2012, Thermocatalytic Decomposition of Methane Using a Palm-Shell-Based Activated Carbon: Kinetic, Deactivation, Regeneration and Characterization Studies

Teaching Activities

Master course- Advanced thermodynamics, 2019/2020

Master course - Nanomaterials and nanotechnology, 2020/2021

Separation Processes II, 2012 continued

Petroleum Refining and Petrochemical, 2012 continued

Engineering economy, 2013-2018

Catalysis and Catalytic Processes

Research Activities

- Research Interests

Hydrogen Production

Pyrolysis of plastic material

Production of nanomaterials

- Publications

Article:

1. 2018 (27) Salam A. Mohammed, Lamya Al Amouria, Emad Yousifb, Ali Abd Ali, Fazal Maboodc, Hazim F. Abbas, Sausan Alyaqoobi (2018). Synthesis of NiO:V2O5 nanocomposite and its photocatalytic efficiency for methyl orange degradation. Heliyon. 4(3).

2. 2015 (25) Masoud Asedy, W.M.A.Wan Daud , Hazim F. Abbas (2015). Heterogeneous catalysts for advanced bio-fuel production through catalytic biomass pyrolysis vapor upgrading: A review. Royal Society of Chemistry Advances. 5, 22234-22255. (Impact factor: 3.708).

3. 2015 (24) Nasir Uddin, W.M.A.Wan Daud , Hazim F. Abbas (2015). Co-production of hydrogen and carbon nanofibers from methane decomposition over zeolite Y supported Ni catalysts. Energy Conversion and Management, 90, 218-229. (Impact Factor: 3.59)

4. 2015 (23) Mohammed Ashik, Hazzim F. Abbas , Wan Mohd Ashri Wan Daud (2015). Production of greenhouse gas free hydrogen by thermocatalytic decomposition of methane - A review Renewable & Sustainable Energy Reviews. 44 221–256. (Impact Factor: 5.51)

5. 2014 (22) Md. Nasir Uddin, W.M.A. Wan Daud, Hazzim F. Abbas (2014). Thermal Decomposition of Methane for Production of COx Free Hydrogen over Ni-Supported Y Zeolite Based Catalysts. Applied Mechanics and Materials 679, 194-199.

6. 2014 (21) Usman NF, Hazzim F. Abbas , Wan Mohd Ashri Wan Daud (2014). DRY REFROMING OF METHANE: INFLUENCE OF PROCESS PARAMETERS- A REVIEW. Renewable & Sustainable Energy Reviews. 45, 710–744. (Impact Factor: 5.51)

7. 2014 (20) Olumide B. Ayodele , Hazzim F. Abbas , Wan Mohd Ashri Wan Daud (2014).

Hydrodeoxygenation of stearic acid into normal and iso-octadecane biofuel with zeolite supported palladium-oxalate catalyst. Energy and Fuels. 28 (9), 5872–5881. (Impact Factor: 2.733)

8. 2014 (19) Amjed A. Ali , Hazzim F Abbas, W.M.A. Wan Daud. Production of Cox free hydrogen by the thermal decomposition of methane over activated carbon: Catalyst deactivation. International Journal of Hydrogen Energy. 39(17), 14783-14791. (Impact Factor: 2.93)

9. 2014 Olumide B. Ayodele , Olayinka S. Togunwab, Hazzim F. Abbas , Wan Mohd Ashri Wan Daud (2014). Preparation and characterization of alumina supported nickel-oxalate catalyst for the hydrodeoxygenation of olic acid into normal and iso-octadecane biofuel. Energy Conversion and Management. 88, 1104–1110. (Impact Factor: 3.59)

10. 2014 (17) Nasir Uddin, W.M.A.Wan Daud , Hazim F. Abbas (2014). Kinetics and deactivation mechanisms of the thermal decomposition of methane in hydrogen and carbon nanofiber Co-production over Ni-supported Y zeolite-based catalysts. Energy Conversion and Management. 87, 796–809. (Impact Factor: 3.59)

11. 2014 (16) Olumide B. Ayodele , Hazzim F. Abbas , Wan Mohd Ashri Wan Daud (2014). Preparation and characterization of zeolite supported fluoropalladium oxalate catalyst for hydrodeoxygenation of oleic acid into paraffinic fuel. Ind. Eng. Chem. Res. 53 (2), 650–657. (Impact Factor: 2.235)

12. 2014 (15) Amjed A. Ali, Hazzim F. Abbas, W.M.A. Wan Daud (2014). Hydrogen production via thermo-catalytic decomposition of methane over carbonaceous catalysts: Full factorial design. International Journal of Hydrogen Energy. 39 (13), 7004-7014. (Impact Factor: 2.93)

13. 2014 (14) O. B. Ayodele, Hazzim F. Abbas, Wan Mohd Ashri Wan Daud (2014). Hydrodeoxygenation of Shea butter to produce diesel-like fuel using acidified and basic Al2O3 supported molybdenum oxalate catalyst - with Aspen Hysys simulation study, Energy Education Science and Technology Part A: Energy Science and Research. 32(1): 383-396.

14. 2014 (13) Olumide B. Ayodele , Hazzim F. Abbas , Wan Mohd Ashri Wan Daud (2014). Catalytic upgrading of oleic acid into biofuel using Mo modified zeolite supported Ni oxalate catalyst functionalized with fluoride ion. Energy Conversion and Management. 88, 1111-1119 (Impact Factor: 3.59)

15. 2014 (12) Masoud Asedy, W.M.A.Wan Daud , Hazim F. Abbas (2014). Model compound approach to design process and select catalysts for in-situ bio-oil upgrading. Renewable & Sustainable Energy Reviews. 36, 286-303. (Impact Factor: 5.51)

16. 2014 (11) Olumide B. Ayodele , Hazzim F. Abbas , Wan Mohd Ashri Wan Daud (2014). Preparation and Characterization of Zeolite Supported Fluoro-palladium Oxalate Catalyst for Hydrodeoxygenation of Oleic Acid into Paraffinic Fuel. Industrial & Engineering Chemistry Research. 53 (2), 650–657. (Impact Factor: 2.235)

17. 2014 (10) Nasir Uddin, W.M.A.Wan Daud , Hazim F. Abbas (2014). Effects of pyrolysis parameters on hydrogen formations from biomass. Royal Society of Chemistry. 4, 10467-90. (Impact Factor: 2.562)

18. 2014 (9) Nasir Uddin, W.M.A.Wan Daud , Hazim F. Abbas (2014). Potential hydrogen and non-condensable gases production from biomass pyrolysis: Insights into the process variables. Renewable and Sustainable Energy Reviews 27, 204–224. (Impact Factor: 5.51)

19. 2011 (8) Hazzim F. Abbas, Inas F. Baker (2011). Thermocatalytic decomposition of methane using activated carbon: Studying the influence of process parameters using factorial design. International Journal of Hydrogen Energy. 36(15), 8985 -8993. (ISI-Q1 Journal). (Impact Factor: 2.93)

20. 2010 (7) Hazzim F. Abbas. and Daud, W.M.A.W. (2010). Hydrogen production by thermocatalytic decomposition of methane using a fixed bed activated carbon in a pilot scale unit: apparent kinetic, deactivation and diffusional limitation studies. International Journal of Hydrogen Energy. 35(22), 12268-12276. (ISI-Q1 Journal). (Impact Factor: 2.93)

21. 2010 (6) Hazzim F. Abbas and Daud, W.M.A.W. (2010). Influence of reactor material and activated carbon on the thermocatalytic decomposition of methane for hydrogen production. , Applied Catalysis A: General. 388(1-2), 232–239

22. 2010 (5) Hazzim F. Abbas and Daud, W.M.A.W. (2010). Hydrogen production by methane decomposition: A review. , International Journal of Hydrogen Energy. 35(3), 1160-1190.

23. 2010 (4) Hazzim F. Abbas and Daud, W.M.A.W. (2010). An experimental investigation into the CO2 gasification of deactivated activated-carbon catalyst used for methane decomposition to produce hydrogen, International Journal of Hydrogen Energy. 35(1), 141-150.

24. 2009 (3) Hazzim F. Abbas and Daud, W.M.A.W. (2009). Thermocatalytic decomposition of methane for hydrogen production using activated carbon catalyst: Regeneration and characterization studies., International Journal of Hydrogen Energy. 34(19), 8034-8045.

25. 2009 (2) Hazzim F. Abbas and Daud, W.M.A.W. (2009). Deactivation of palm shell based activated carbon catalyst used for hydrogen production by thermocatalytic decomposition of methane. , International Journal of Hydrogen Energy. 34(15), 6231-6241

26. 2009 (1) Hazzim F. Abbas and Daud, W.M.A.W. Thermocatalytic decomposition of

methane using palm shell based activated carbon: kinetic and deactivation studies., Fuel Processing Technology. 90(9), 1167-1174

Faculty Administrative Experience

2019 - Present: Member of college promotion committee - College of Engineering

2014 - Present: Member of College Board - College of Engineering

2014 - Present: Chairman of Advising Committee in CEA - College of Engineering

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