

Ahmed Sadeq Ahmed Al-Fatesh

Professor

Chemical Engineering department. Phone W: +966 11 467 6859 College of Engineering, King Saudi University. H: +966 11 486 3092 https://orcid.org/0000-0002-5521-5741 Web of Science ResearcherID: E-7961-2019 P.O. Box 800, Riyadh 11421 Saudi Arabia.
Mobil: +966 50 415 8546
E-mail: <u>aalfatesh@ksu.edu.sa</u> <u>alfatish@homail.com</u>
Fax: +966 11 486 3989
H: +966 11 467 6859

Personal Information

Marital status: Married (9 Childrens) Nationality: Yemen Date of birth: 12/12/1970

Education

PhD. Chemical Engineering, King Saud University, Riyadh, Saudi Arabia.
(02/02/2010) (PhD Dissertation " Development of Catalysts for Dry Reforming of Methane).
MSc. Chemical Engineering, King Saud University, Riyadh, Saudi Arabia.
Bsc. Chemical Engineering, King Saud University Riyadh, Saudi Arabia.
High School, Taiz-Yemen.

Academic Positions

Assistant Professor Chemical Engineering Department, college of Engineering, King Saud University (02/05/2010 - 30/08/2015).

Associate Professor Chemical Engineering Department, college of Engineering, King Saud University (1/9/2015 - 7/12/2020)

Present Title: Professor Chemical Engineering Department, college of Engineering, King Saud University (8/12/2020 - up-to-date)

Professional experience

1994 – 2009 Research assistant, Chemical Engineering Department, College of, Engineering, King Saud University, Riyadh, Saudi Arabia.

- Main research interest: Catalysis: catalysts preparation and testing of the prepared catalysts.
- Pilot plant employed: CDS and ZETON-ALTAMIRA reactor systems.
- Experimental Techniques used include: Gas Chromatograph, SEM, BET, TG/DTA, FTIR, TPR/TPD/TPO, EDX, ICP, GCMS etc.

Research Project accomplished

- Acetic acid Production.
- Methane Reforming.
- Two phase Bubble column flow study using ECT.
- Photo-catalytic reactions.
- Decomposition of Methane
- Acetylene selective hydrogenation (removal) as the commercial technologies suffer from fast catalyst decay
- Development of a Nanocatalyst for The Dry Reforming of Methane

Academic Works & Activities

- Teaching and tutoring chemical engineering courses in KSU, Riyadh
- Supervisor of Sana'a , Taiz universities In Riyadh, KSA
- Participation of 1st International Conference e-Learning & Distance Learning, Riyadh, 2009.
- Short course on nano-technology, 3 days, Riyadh.
- Session Chairman First Annual International Conference –Ibb 2010 (Environmental Science and Technology) 1-3 August, (2010).
- Session Chairman The 2011 International Conference on Chemical, Material and Metallurgical Engineering (ICCMME 2011) Beihai, China, Dece 23-25.
- Guest Editor for Catlaysis Journal on special Issue: Catalytic Reforming of Light Hydrocarbons

Technical Training and Communication Skills Courses

- Two days training session for Gas Chromatograph Alpha-Moss in Toulouse, France
- Three days training session for Temperature Programmed Techniques (TPR-TPD-TPO) Micromeritics in Atlanta, USA
- Two days course session on "International Scientific Publication" in King Saud University, Riyadh, KSA
- Two days course session on "Project Proposal writing and Research Grant" in King Saud University, Riyadh, KSA
- Four days training session for MICTOACTIVITY REACTOR PID Eng& Tech in Madrid-Spain

- Two days training session for Particle Size NanoPlus Micromeritics in Atlanta, USA (2014)
- One days training session Learning Theories in King Saud University, Riyadh, KSA 11-11-2016
- One days training session Teaching Based Specialty and Literature in King Saud University, Riyadh, KSA 12-02-2017
- Two days training Qualitative analysis of research Literature in King Saud University, Riyadh, KSA -02-2016
- Two days training Government procurement and disbursement using advances Literature in King Saud University, Riyadh, KSA -02-2016
- Three days training Effective university teaching skills Literature in King Saud University, Riyadh, KSA -04-2016
- One day training Mini Teaching Literature in King Saud University, Riyadh, KSA -04-2016
- One day training Learning theories Literature in King Saud University, Riyadh, KSA -12-2016
- One day training Support students' learning Literature in King Saud University, Riyadh, KSA -1-2017
- One day training Engage stakeholders Literature in King Saud University, Riyadh, KSA -3-2017
- One day training Teaching based on specialization and educational research Literature in King Saud University, Riyadh, KSA -2-2017
- One day training Skills of supervision of scientific messages Literature in King Saud University, Riyadh, KSA -4-2017
- One day training Teaching based on specialization and educational research Literature in King Saud University, Riyadh, KSA -2-2017
- One day training Skills of supervision of scientific messages Literature in King Saud University, Riyadh, KSA -4-2017
- One day training Patent constituents and determinants Literature in King Saud University, Riyadh, KSA -12-2017
- Two days training Total Quality Management in Higher Education Institutions Literature in King Saud University, Riyadh, KSA -10-2017
- Two days training Standards of the National Commission for Academic Evaluation and Accreditation Literature in King Saud University, Riyadh, KSA -11-2017
- One day training The basics of academic leadership Literature in King Saud University, Riyadh, KSA -01-2018
- Personality patterns of students and methods of dealing with them at King Saud University, Riyadh, KSA -09-2021
- Scientific supervision for postgraduate students at King Saud University, Riyadh, KSA -09-2021

Academic Teaching Contribution

- Momentum and Transport Operation
- Mass Transfer Operation Courses
- Reaction Engendering Courses
- Mass Transfer Operation Lab
- Separation Processes Lab
- Heat Transfer Tutorial
- Advanced reaction engineering
- Air pollution engineering
- Chemical engineering application in waste treatment
- Advanced Topics in Chemical Engineering
- Advanced Separation Processes
- Graduation project "Production of Hydrogen by Dry Reforming" for BSc (4-students)
- Graduation project "Catalyst Preparation for Decomposition of Methane " for BSc (4students)
- Graduation project "PRODUCTION OF AMMONIA" for BSc (5-students)
- Graduation project "PRODUCTION OF MTBE" for BSc (4-students)
- Graduation project "Catalytic Préparation for Partial Oxydation of CH4" for BSc (4students)
- Graduation project "Production of Di Ethyl Ether " for BSc (5-students)
- Graduation project " Production of Ethyl Benzene "for BSc (4-students)
- Graduation project "Production Of Acetone" " for BSc (2-students)
- Graduation project "Syngas Production from Greenhouse Gases: Catalyst Preparation" for BSc (3-students)

Committee and Board Member

Member of purchasing Committee Member of laboratory Committee

Graduate Students Thesis Supervision

I have co-supervised the master thesis of following students:

Muhammad Awais Naeem

Title of Thesis: Dry Reforming of Methane on Nano-Supported Nickel Catalysts

- Wasim Ullah Khan

Title of Thesis: Catalyst Development for Production of Hydrogen via Catalytic Decomposition of Methane

- Shamsudeen Olajide Qasim
 Title of Thesis: Hydrogen Production via Ethanol Dry Reforming on Nano Nickel Supported Catalyst
- Abdulrahman Nasser Kurdi

Title of Thesis: Hydrogen Production via Methane Dry Reforming On Ni/ZrO2 Catalyst

 Mahmud Sofiu Lanre
 Title of Thesis: Catalytic Performance of Ni/ZrO2 in Carbon Dioxide Reforming of Methan

Activities

I am responsible for the analytical laboratory of the department and I do serve the department and the college in general.

I have partaken in the arrangement of symposium concerning workshop on catalyst characterization.

I have reviewed many scientific papers such as:

- Journal: International Journal of Hydrogen Energy
 - **Title**: Effects of Ce on CO2 Reforming of CH4 over Ni/ZSM-5 Catalysts.
- Journal: International Journal of Hydrogen Energy
 - **Title**: Effect of Synthesis Route of Mesoporous Zirconia Based Ni Catalysts on Coke Minimization in Conversion of Biogas to Synthesis Gas.
- Journal: Catalysis Today

Title: Reforming of methane with CO2 over Ni nanoparticle supported on mesoporous ZSM-5.

- Journal: International Journal of Hydrogen Energy

Title: Syngas production from CO2 reforming of methane over Ni supported on hierarchical silicalite-1 fabricated by microwave-assisted hydrothermal synthesis.

- Journal: RSC Advances

Title: Mg-promotion of Pillared Natural Clays in the Preparation of Ni-Containing Catalysts for the Dry Reforming of Methane.

- Journal: Applied Catalysis A

Title: Promotional Effect of Al addition on the Co/ZrO2 Catalyst for Dry Reforming of CH4.

- Journal: International Journal of Hydrogen Energy
 - Manuscript Number: HE-D-19-05655
 - **Title**: Methane decomposition over Fe-based catalysts.
- Journal: Journal of CO2 Utilization
 - Ref: JCOU_2019_1252

Title: Ni@yolk-ZrO2 Catalyst for Dry Reforming of Methane: Effect of Variation in Ni@SiO2 Size as the Hard-Template Towards the Yolk-Shell Catalyst.

- Journal: Journal of Advanced Research

Ms. Ref. No.: JARE-D-19-01439

Title: Interaction between V2O5 Nanowires and High Pressure CO2 Gas up to 45 bar: Electrical and Structural Study.

- Journal: Applied Catalysis A: General

Ms. No.: APCATA-D-19-02369

Title: A thermally-stable fibrous Ni/LaAlO3 nanocatalyst for high temperature methane reforming.

Patents

- Karim, K., Mamedov, E., Al-Hazmi, M.H., Fakeeha, A.H., Soliman, M.A., Al-Zeghayer, Y.S., <u>Al-Fatish, A.S</u>., Al-Arify, A.A., "Catalysts for producing acetic acid from ethane oxidation, processes of making same and method of using same", United States Patent 6030920, Feb.29,2000.
- Karim, K., Mamedov, E., Al-Hazmi, M.H., Fakeeha, A.H., Soliman, M.A., Al-Zeghayer, Y.S., <u>Al-Fatish, A.S</u>., Al-Arify, A.A., "Catalysts methods for producing acetic acid from ethane oxidation using MO, V, Pd and Nb based catalysts, processes of making same and methods of using same. "United States Patent 6310241, October 30, 2001.
- Karim, K., Mamedov, E., Al-Hazmi, M.H., Fakeeha, A.H., Soliman, M.A., Al-Zeghayer, Y.S., <u>Al-Fatish, A.S</u>., Al-Arify, A.A., "Catalysts methods for producing acetic acid from ethane oxidation using MO, V, Pd and Nb based catalysts, processes of making same and methods of using same. "United States Patent 6383977 B1, May 7, 2002.

Publications

- Jehad Saleh , Ahmed Sadeq Al-Fatesh, Ahmed Aidid Ibrahim, Francesco Frusteri , Ahmed Elhag Abasaeed, Anis Hamza Fakeeha, Fahad Albaqi, Khalid Anojaidi, Salwa B. Alreshaidan, Ibrahim Albinali, Abdulrahman A. Al-Rabiah and Abdulaziz Bagaba" Stability and Activity of Rhodium Promoted Nickel-Based Catalysts in Dry Reforming of Methane" Nanomaterials 2023, 13, 547. https://doi.org/10.3390/nano13030547
- Radwa A. El-Salamony, Ahmed S. Al-Fatesh, Kenit Acharya, Abdulaziz A. M. Abahussain, Abdulaziz Bagabas, Nadavala Siva Kumar, Ahmed A. Ibrahim, Wasim Ullah Khan and Rawesh Kumar" Carbon Dioxide Valorization into Methane Using Samarium Oxide-Supported Monometallic and Bimetallic Catalysts" Catalysts 2023, 13, 113. https://doi.org/10.3390/catal13010113

- **3.** Ahmed Sadeq Al-Fatesh, Rutu Patel, Vijay Kumar Srivastava, Ahmed Aidid Ibrahim, Muhammad Awais Naeem, Anis Hamza Fakeeha, Ahmed Elhag Abasaeed, Abdullah Ali Alquraini, and Rawesh Kumar" Barium-Promoted Yttria–Zirconia-Supported Ni Catalyst for Hydrogen Production via the Dry Reforming of Methane: Role of Barium in the Phase Stabilization of Cubic ZrO2" ACS Omega 2022, 7, 19, 16468–16483 https://doi.org/10.1021/acsomega.2c00471
- 4. Ahmed S. Al-Fatesh, Samsudeen O. Kasim, Ahmed A. Ibrahim, Ahmed I. Osman, Ahmed E. Abasaeed, Hanan Atia, Udo Armbruster, Leone Frusteri, Abdulrahman bin Jumah, Yousef Mohammed Alanazi, Anis H. Fakeeha "Greenhouse gases utilization via catalytic reforming with Sc promoted Ni/ SBA-15" Full, <u>330</u>, 15, 2022, 125523 https://doi.org/10.1016/j.fuel.2022.125523
- 5. Ahmed S. Al-Fatesh, Jumika Golaviya, Vijay Kumar Shrivastava, Ahmed Aidid Ibrahim, Ahmed I. Osman, Anis Hamza Fakeeha, Ahmed Elhag Abasaeed, Abdulaziz A. Bagabas, Mahmud S. Lanre, Rawesh Kumar, Abrar Hussain, Kuen-Song Lin "A highly active and cost-effective tungsten modified Ni-based catalyst for the production of hydrogen via methane dry reforming" Catalysis Communications, 171, 2022, 106510 <u>https://doi.org/10.1016/j.catcom.2022.106510</u>
- 6. Hammad Ahmad Jan, Igor Šurina, Ahmed S. Al-Fatesh, Abdulaziz M. Almutlaq, Sher Wali and Anton Lisý "Biodiesel Synthesis from Milk Thistle (Silybum marianum (L.) Gaertn.) Seed Oil using ZnO Nanoparticles as a Catalyst" Energies 2022, 15(20), 7818; https://doi.org/10.3390/en15207818
- 7. Ahmed E. Abasaeed, Mahmud S. Lanre, Samsudeen O. Kasim, Ahmed A. Ibrahim, Ahmed I. Osman, Anis H. Fakeeha, Abdulmajeed Alkhalifa, Rasheed Arasheed, Fahad Albaqi, Nadavala Siva Kumar, Wasim U. Khan, Rawesh Kumar, Francesco Frusteri, Ahmed S. Al-Fatesh, Abdulaziz A. Bagabas "Syngas production from methane dry reforming via optimization of tungsten trioxide-promoted mesoporous g-alumina supported nickel catalyst" International Journal of Hydrogen Energy in press <u>https://doi.org/10.1016/j.ijhydene.2022.09.313</u>
- 8. Anis Hamza Fakeeha, Rutu Patel, Nissrine El Hassan, Salma A. Al-Zahrani, Abdulrhman S. Al-Awadi, Leone Frusteri, Hossein Bayahia, Abdulrahman I. Alharth, Ahmed Sadeq Al-Fatesh, Rawesh Kumar "Holmium promoted yttria-zirconia supported Ni catalyst for H₂ production via dry reforming of methane" International Journal of Hydrogen Energy In press https://doi.org/10.1016/j.ijhydene.2022.09.029
- 9. Nissrine El Hassan, Karam Jabbour, Anis H. Fakeeha, Yara Nasr, Muhammad A. Naeem, Salwa Bader Alreshaidan, Ahmed S. Al-Fatesh "Production of carbon nanomaterials and syngas from biogas reforming and decomposition on one-pot mesoporous nickel alumina catalysts" Alexandria Engineering Journal, In Press <u>https://doi.org/10.1016/j.aej.2022.07.056</u>
- 10. Ahmed I. Osman, Ahmed M. Elgarahy, Neha Mehta, Ala'a H. Al-Muhtaseb, Ahmed S. Al-Fatesh, and David W. Rooney "Facile Synthesis and Life Cycle Assessment of Highly Active Magnetic Sorbent Composite Derived from Mixed Plastic and Biomass Waste for Water Remediation" ACS Sustainable Chem. Eng. 2022, 10, 12433–12447 https://doi.org/10.1021/acssuschemeng.2c04095
- 11. Hammad Ahmad Jan, Igor Šurina, Akhtar Zaman, Ahmed S. Al-Fatesh, Fazli Rahim and Raja L. Al-Otaibi "Synthesis of Biodiesel from Ricinus communis L. Seed Oil, a Promising Non-Edible Feedstock Using Calcium Oxide Nanoparticles as a Catalyst" Energies 2022, 15, 6425. <u>https://doi.org/10.3390/en15176425</u>
- **12.** Salwa Bader Alreshaidan, Ahmed A. Ibrahim ,Anis H. Fakeeha, Abdulaziz M. Almutlaq, Fekri Abdulraqeb Ahmed Ali and Ahmed S. Al-Fatesh "Effect of Modified

Alumina Support on the Performance of Ni-Based Catalysts for CO2 Reforming of Methane" Catalysts 2022, 12(9), 1066; <u>https://doi.org/10.3390/catal12091066</u>

- 13. Mahmud S. Lanre, Ahmed E. Abasaeed, Anis H. Fakeeha, Ahmed A. Ibrahim, Abdulrahman S. Al-Awadi, Abdulrahman bin Jumah, Fahad S. Al-Mubaddel and Ahmed S. Al-Fatesh" Lanthanum–Cerium-Modified Nickel Catalysts for Dry Reforming of Methane" Catalysts 2022, 12, 715, https://doi.org/10.3390/catal12070715
- 14. Mayankkumar L. Chaudhary, Ahmed S. Al-Fatesh, Rawesh Kumar, Mahmud S. Lanre, Francesco Frusteri, Salwa B. AlReshaidan, Ahmed A. Ibrahim, Ahmed E. Abasaeed, Anis H. Fakeeh" Promotional effect of addition of ceria over yttriazirconia supported Ni based catalyst system for hydrogen production through dry reforming of methane" International Journal of Hydrogen Energy, 47, 48, 2022, 20838-20850, <u>https://doi.org/10.1016/j.ijhydene.2022.04.199</u>
- 15. Anis H. Fakeeha, Abdulrahman Kurdi, Yousef A. Al-Baqmaa, Ahmed A. Ibrahim, Ahmed E. Abasaeed and Ahmed S. Al-Fatesh "Performance Study of Methane Dry Reforming on Ni/ZrO2 Catalyst" Energies 2022, 15, 3841, <u>https://doi.org/10.3390/en15103841</u>
- 16. Ahmed Sadeq Al-Fatesh*, Rutu Patel, Vijay Kumar Srivastava, Ahmed Aidid Ibrahim, Muhammad Awais Naeem, Anis Hamza Fakeeha, Ahmed Elhag Abasaeed, Abdullah Ali Alquraini, and Rawesh Kumar "Barium-Promoted Yttria–Zirconia-Supported Ni Catalyst for Hydrogen Production via the Dry Reforming of Methane: Role of Barium in the Phase Stabilization of Cubic ZrO2 "ACS Omega 2022 7 (19), 16468-16483, https://doi.org/10.1021/acsomega.2c00471
- 17. Mahmud S. Lanre, Ahmed E. Abasaeed, Anis H. Fakeeha, Ahmed A. Ibrahim, Abdullah A. Alquraini, Salwa B. AlReshaidan and Ahmed S. Al-Fatesh "Modification of CeNi0.9Zr0.1O3 Perovskite Catalyst by Partially Substituting Yttrium with Zirconia in Dry Reforming of Methane" Materials 2022, 15, 3564, https://doi.org/10.3390/ma15103564
- 18. Abdulrahman N. Kurdi, Ahmed A. Ibrahim, Ahmed S. Al-Fatesh, Abdullah A. Alquraini, Ahmed E. Abasaeed and Anis H. Fakeeha "Hydrogen production from CO₂ reforming of methane using zirconia supported nickel catalyst" RSC Adv., 2022, 12, 10846, DOI: 10.1039/d2ra00789d
- 19. Ahmed Aidid Ibrahim, Anis Hamza Fakeeha, Mahmud Sofiu Lanre, Abdulrhman S. Al-Awadi,Salwa Bader Alreshaidan, Yousef Abdulrahman Albaqmaa, Syed Farooq Adil, Ateyah A. Al-Zahrani, Ahmed Elhag Abasaeed and Ahmed S. Al-Fatesh" The Effect of Calcination Temperature on Various Sources of ZrO2 Supported Ni Catalyst for Dry Reforming of Methane" Catalysts 2022, 12, 361, https://doi.org/10.3390/catal12040361
- 20. Ahmed Aidid Ibrahim, Samsudeen Olajide Kasim, Anis Hamza Fakeeha, Mahmud Sofiu Lanre, Ahmed Elhag Abasaeed, Jehad K. Abu-Dahrieh, Ahmed Sadeq Al-Fatesh" Dry Reforming of Methane with Ni Supported on Mechanically Mixed Yttria-Zirconia Support" Catalysis Letters, <u>https://doi.org/10.1007/s10562-022-03944-1</u>
- 21. Ahmed Sadeq Al-Fatesh, Rawesh Kumar, Samsudeen Olajide Kasim, Ahmed Aidid Ibrahim, Anis Hamza Fakeeha, Ahmed Elhag Abasaeed, Hanan Atia, Udo Armbruster, Carsten Kreyenschulte, Henrik Lund, Stephan Bartling, Yahya Ahmed Mohammed, Yousef Abdulrahman Albaqmaa, Mahmud Sofiu Lanre, Mayankkumar Lakshmanbhai Chaudhary, Fahad Almubaddel, and Biswajit Chowdhury "Effect of Cerium Promoters on an MCM-41-Supported Nickel Catalyst in Dry Reforming of

Methane". Ind. Eng. Chem. Res. 2022, 61, 164-174

https://doi.org/10.1021/acs.iecr.1c03163?urlappend=%3Fref%3DPDF&jav=VoR&rel= cite-as

- 22. Ahmed S. Al-Fatesh, Jyoti Khatri, Rawesh Kumar, Vijay Kumar Srivastava, Ahmed. Osman, Tahani S. AlGarni, Ahmed A. Ibrahim, Ahmed E. Abasaeed, Anis H. Fakeeha1, David W. Rooney " Role of Ca, Cr, Ga and Gd Promotor over lanthana-zirconia supported Ni catalyst towards H2 rich syngas production through Dry reforming of methane" Energy Sci Eng. 2022;10:866–880 <u>https://doi.org/10.1002/ese3.1063</u>
- 23. Samer Fawzy, Ahmed I. Osman, Charlie Farrell, Ala'a H. Al-Muhtaseb, John Harrison, Ahmed S. Al-Fatesh, Anis H. Fakeeha, David W. Rooney "Kinetic modelling for pyrolytic conversion of dedicated short rotation woody crop with predictions for isothermal, non-isothermal and stepwise heating regimes" Applications in Energy and Combustion Science 9, 2022, 100048 https://doi.org/10.1016/j.jaecs.2021.100048
- 24. Samer Fawzy, Ahmed I. Osman, Charlie Farrell, Ala'a H. Al-Muhtaseb, John Harrison, Ahmed S. Al-Fatesh, Anis H. Fakeeha, John Doran, Haiping Yang, David W. Rooney " Characterization and kinetic modeling for pyrolytic conversion of cotton stalks" Energy Sci Eng. 2021;9:1908–1918 https://doi.org/10.1002/ese3.961
- **25.** Abdulrahman I. Alharthi, Mshari A. Alotaibi, Israf Ud Din, E. Abdel-Fattah, Md Afroz Bakht, Ahmed Sadeq Al-Fatesh c, Abdulaziz A. Alanazi "Mg and Cu incorporated CoFe2O4 catalyst: characterization and methane cracking performance for hydrogen and nano-carbon production" Ceramics International 47, 19, 2021, 27201-27209 https://doi.org/10.1016/j.ceramint.2021.06.142
- 26. Abdulaziz Bagabas, Ahmed Sadeq Al-Fatesh, Samsudeen Olajide Kasim, Rasheed Arasheed, Ahmed Aidid Ibrahim, Rawan Ashamari, Khalid Anojaidi, Anis Hamza Fakeeha, Jehad K. Abu-Dahrieh and Ahmed Elhag Abasaeed "Optimizing MgO Content for Boosting -Al₂O₃-Supported Ni Catalyst in Dry Reforming of Methane" Catalysts 2021, 11, 1233, https://doi.org/10.3390/catal11101233
- 27. Anis Hamza Fakeeha, Ahmed Sadeq Al-Fatesh*, Ahmed Aidid Ibrahim, Ahmed Elhag Abasaeed " CO2 reforming of CH4 over Ni-catalyst supported on yttria stabilized zirconia" Journal of Saudi Chemical Society 25, 6,2021, 101244 , <u>https://doi.org/10.1016/j.jscs.2021.101244</u>
- 28. Ahmed Aidid Ibrahim, Anis Hamza Fakeeha, Ahmed Elhag Abasaeed and Ahmed Sadeq Al-Fatesh " Dry Reforming of Methane Using Ni Catalyst Supported on ZrO2: The Effect of Different Sources of Zirconia" Catalysts 2021, 11, 827. https://doi.org/10.3390/catal11070827
- 29. Jyoti Khatri Anis Hamza Fakeeha, Samsudeen Olajide Kasim, Mahmud S. Lanre, Ahmed E. Abasaeed, Ahmed Aidid Ibrahim, Rawesh Kumar, Ahmed Sadeq Al-Fatesh "Ceria promoted phosphate-zirconia supported Ni catalyst for hydrogen rich syngas production through dry reforming of methane" Int J Energy Res. 2021;1–14. https://doi.org/10.1002/er.7026
- 30. Rutu Patel, Ahmed S. Al-Fatesh*, Anis H. Fakeeha, Yasir Arafat, Samsudeen O. Kasim, Ahmed A. Ibrahim, Salma A. Al-Zahrani, Ahmed E. Abasaeed, Vijay Kumar Srivastava, Rawesh Kumar "Impact of ceria over WO3eZrO2 supported Ni catalyst towards hydrogen production through dry reforming of methane" International Journal of

Hydrogen Energy Available online 2 June 2021 , https://doi.org/10.1016/j.ijhydene.2021.05.049

- 31. Ahmed Abasaeed, Samsudeen Kasim, Wasim Khan, Mahmud Sofiu, Ahmed Ibrahim, Anis Fakeeha and Ahmed Al-Fatesh*" Hydrogen Yield from CO2 Reforming of Methane: Impact of La2O3 Doping on Supported Ni Catalysts" Energies 2021, 14, 2412 <u>https://doi.org/10.3390/en14092412</u>
- 32. Fahad S. Al-Mubaddel, Rawesh Kumar c, Mahmud Lanre Sofiu, Francesco Frusteri, Ahmed Aidid Ibrahim, Vijay Kumar Srivastav, Samsudeen Olajide Kasim, Anis Hamza Fakeeha, Ahmed Elhag Abasaeed, Ahmed I. Osman, Ahmed Sadeq Al-Fatesh " Optimizing acido-basic profile of support in Ni supported La₂O₃bAl₂O₃ catalyst for dry reforming of methane" International Journal of Hydrogen Energy, 46, 27, 2021, 14225-14235 <u>https://doi.org/10.1016/j.ijhydene.2021.01.173</u>
- **33.** Rutu Patel, Anis H. Fakeeha, Samsudeen O. Kasim, Mahmud L. Sofiu, Ahmed A. Ibrahim, Ahmed E. Abasaeed, Rawesh Kumar, Ahmed S. Al-Fatesh " Optimizing yttria-zirconia proportions in Ni supported catalyst system for H2 production through dry reforming of methane" Molecular Catalysis, 510, 2021, 111676 https://doi.org/10.1016/j.mcat.2021.111676
- 34. Jyoti Khatri, Ahmed S. Al-Fatesh*, Anis H. Fakeeha, Ahmed A. Ibrahim, Ahmed E. Abasaeed, Samsudeen O. Kasim, Ahmed I. Osman, Rutu Patel, Rawesh Kumar" Ce promoted lanthanazirconia supported Ni catalyst system: A ternary redox system for hydrogen production " Molecular Catalysis, 504, 2021, 111498 <u>https://doi.org/10.1016/j.mcat.2021.111498</u>
- 35. Ahmed Sadeq Al-Fatesh*, Anis Hamza Fakeeha, Ahmed Aidid Ibrahim, Ahmed Elhag Abasaeed "Ni supported on La₂O₃bZrO₂ for dry reforming of methane: The impact of surface adsorbed oxygen species" journal of International Journal of Hydrogen Energy 46, 5, 2021, 3780-3788

https://doi.org/10.1016/j.ijhydene.2020.10.164

- 36. Ahmed Sadeq Al-Fatesh*, Mayankkumar Lakshmanbhai Chaudhary, Anis Hamza Fakeeha, Ahmed Aidid Ibrahim, Fahad Al-Mubaddel, Samsudeen Olajide Kasim, Yousef Abdulrahman Albaqmaa, Abdulaziz A. Bagabas, Rutu Patel and Rawesh Kumar "Role of Mixed Oxides in Hydrogen Production through the Dry Reforming of Methane over Nickel Catalysts Supported on Modified γ-Al₂O₃, Processes 2021, 9, 157. <u>https://doi.org/10.3390/pr9010157</u>
- 37. Anis H. Fakeeha, Ahmed S. Al Fatesh, Ahmed A. Ibrahim, Abdulrahman N. Kurdi, and Ahmed E. Abasaeed "Yttria Modified ZrO₂ Supported Ni Catalysts for CO₂ Reforming of Methane: The Role of Ce Promoter" ACS Omega <u>https://pubs.acs.org/action/showCitFormats?doi=10.1021/acsomega.0c04731&ref= pdfB</u>
- 38. Widi Astuti, Achmad Chafidz, Ahmed S. Al-Fateesh, Anis H. Fakeeha "Removal of lead (Pb(II)) and zinc (Zn(II)) from aqueous solution using coal fly ash (CFA) as a dual-sites adsorbent" Chinese Journal of Chemical Engineering , https://doi.org/10.1016/j.cjche.2020.08.046
- 39. Mohammad S. Al-Hwaiti, Eid M. Alsbou, Rawan M. Al Haddad, Ahmed I. Osman, Ahmed Abu Jrai, Ala'a H. Al-Muhtaseb, Ahmad O. Hasan, Kevin Morgan, El-Sayed M. El-Sayed, Ahmed S. Al-Fatesh, Anis H. Fakeeha, David W. Rooney, Hani A. Al-Rawashde

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