

CURRICULUM VITAE

Name: Mohammed J. Al-Marri Position: Professor and Head

Department of Chemical Engineering

College of Engineering

Qatar University



Date: September 1st, 2025

PERSONAL INFORMATION

Name: Mohammed J. Al-Marri

Nationality: Qatari

Language: Arabic/English

Address: Department of Chemical Engineering

College of Engineering, Qatar University

P.O. Box: 2713, Doha, Qatar

Tel: +974 4403 4146 | 🌭 Fax: +974 4403 4131

🔀 E-mail: <u>m.almarri@qu.edu.qa</u>

Website: http://qufaculty.qu.edu.qa/m-almarri/

Research Profile:

Google Scholar: https://goo.gl/LIZ6jJ
Research Gate: https://goo.gl/LrQ6aG
Scopus: https://goo.gl/pvmfU1
ORCID: 0000-0002-9223-487X

EDUCATION

❖ PhD in Chemical Engineering, University of Leeds, 2009, U.K.

Thesis Title: Modelling the solution crystallization of L-Glutamic acid as prepared via reactive and cooling crystallization.

❖ M.Sc. in Chemical Engineering, Texas A & M University, 2000, USA.

Thesis Title: Analysis of a direct methane conversion to high molecular weight hydrocarbons

❖ B.Sc. in Chemical Engineering, Qatar University, 1995, Qatar.

Final year project: Removal of organic pollutants from Water by adsorption on polymeric resins

Continuing Education (Workshops, Short Courses, etc..):

- ABET Program Assessment Workshop, 2012, Qatar.
- Middle Manager Development Programme, 2013, Qatar.
- ➤ BHR group pre-symposium workshop, 2014, Qatar.
- Emergency First Aid including CPR & AED, 2014, Qatar.
- Technology Entrepreneurship: Lab to Market, Online Harvard University.



EMPLOYMENT HISTORY

DATE	DESCRIPTION
2024-Present	Professor, Department of Chemical Engineering, Qatar University, Qatar
2023-Present	Head of Chemical Engineering Department, Qatar University, Qatar
2017-2024	Associate Professor, Department of Chemical Engineering, Qatar University, Qatar
2013-2017	Director of the Gas Processing Center, Qatar University, Qatar.
2012-2013	Manager of Industrial Relations Office, College of Engineering, Qatar University, Qatar.
2009-2017	Assistant Professor, Department of Chemical Engineering, Qatar University, Qatar
2000-2009	Lecturer, Chemical Engineering Department, Qatar University, Qatar.
1996-2000	Teaching Assistant, Chemical Engineering Department, Qatar University, Qatar

Leadership Roles Highlights:

Throughout my career, I have had the privilege to serve in various leadership roles as follow:

- ➤ Head of Chemical Engineering Department, Qatar University, Qatar, 2023-Present.
- Director of the Gas Processing Center, Qatar University, Qatar, 2013-2017.
- Manager of Industrial Relations Office, College of Engineering, Qatar University, Qatar, 2012-2013.
- Chair of the 5th International Gas Processing Symposium organizing committee, GPC, Qatar University, Qatar, 2016
- Chair of the 4th International Gas Processing Symposium organizing committee, GPC, Qatar University, Qatar, 2014
- Chair of Intellectual Property Advisory Committee, Qatar University, Qatar, 2016-2017.
- Chair of Intellectual Property Advisory Committee, Qatar University, Qatar, 2018-2019.
- ➤ Member of Strategic Plan Committee KPA1, Teaching and Learning, Qatar University, Qatar, 2010-2012.
- Member of Strategic Plan Committee KPA2, Research, Qatar University, Qatar, 2013-2015.
- Member of Qatar National Committee of World Petroleum Council (WPC), WPC with QE, 2010-2015.
- Program Advisory Committee for Chemical Engineering, The College of North Atlantic in Qatar (CNAQ) (became University of Doha for Science and Technology), Qatar, 2017-2018

RESEARCH INTERESTS

My research areas are categorized into the following main areas:

MODELING AND SIMULATION OF CHEMICAL PROCESSES: Simulations emphasizing Molecular Simulation as Applied to Carbon Capture, Solar energy, and Oil & Gas Production.



- CATALYSIS: synthesis and characterization of new catalysts, performance evaluation of CATALYSIS: synthesis and characterization of new catalysts, performance evaluation of CATALYSIS: synthesis and characterization of new catalysts, performance evaluation of CATALYSIS: synthesis and characterization of new catalysts, performance evaluation of CATALYSIS: synthesis and characterization of new catalysts, performance evaluation of CATALYSIS: synthesis and characterization of new catalysts, performance evaluation of CATALYSIS: synthesis and characterization of new catalysts.
- ➤ GAS PROCESSING: CO₂ Capture and Utilization, produced and processed wastewater treatment and management.

TEACHING AND POSTGRADUATE THESIS SUPERVISION

With respect to teaching, I have observed that encouraging and fostering a supportive learning environment are key elements for students' success. Passive lecturing typically results in poor student learning experience. On the other hand, promoting and encouraging student-centered teaching approaches helps students learn and retain the taught materials. One example of such student-centered learning approaches is allowing students to solve problems independently rather than furnish solutions without allowing them to engage in critical thinking about the solutions.

COURSES TAUGHT			
Course Code	Title of Course	Credit-Hours	# of Semesters Taught
CHME 201	Introduction to Chemical Engineering I	3	4
CHME 202	Introduction to Chemical Engineering II	3	4
CHME 212	Chemical Engineering Thermodynamics I	3	2
CHME 313	Mass Transfer I	3	1
CHME 314	Chemical Reaction Engineering	3	8
CHME 325	Chemical Engineering Laboratory II	1	1
CHME 399	Summer Training	3	2
CHME 421	Plant Design I	3	9
CHME 422	Plant Design II	3	9
CHME 495	Graduation Project I	1	2
CHME 496	Graduation Project II	3	2
GENG 300	Numerical Methods	3	15
EEMP 595	Master Thesis I	1	1

GRADUATE STUDENT SUPERVISION

No	Academic Year	Type of Supervision	Project Title
1.	2017	Thesis Committee Member	Emergent Phenomena during Gas Production from Hydrate-bearing Sediments by Depressurization and CH4-CO2 Exchange (PhD student)
2.	2019	Dissertation Committee Member	Bifacial Solar Technology: A multi-scale study from design of solar cells to performance evaluation of photovoltaics in-field.



3.	2022-2023	Main Supervisor	Walnut shell based adsorbents (Graduate Assistant)		
4.	2022-Present	Main Supervisor	Development of an advanced produced water treatment for possible recycling and reuse: coupled electrocoagulation- Membrane technologies (PhD student)		
5.	2023-Present	Main Supervisor	Role of transition metals single atoms on oxygen storage property of CeO2 to modulate catalytic performance for CO2 conversion (PhD student)		
6.	2024-Present	Main Supervisor	Metal-free carbon catalysts for Hydrogen Evolution Reaction (MSc student)		
LIND	LINDED CRADITATE SUBERVISION				

UNDERGRADUATE SUPERVISION

No	Academic Session	Number of students	Project Title
1.	2011-2012	4	Hydrocarbons Vapour-Liquid Equilibrium
2.	2015-2016	4	Experimental determination of the kinetics of CO2 reaction with a mixture of amine solvents using stopped flow technique

RESEARCH GRANTS

PROJECT TITLE	SPONSOR	DURATION	ROLE	AMOUNT (U.S. \$)
Gas to liquid (GTL) catalysis	Qatar University	October 2011-	LPI	\$ 10,000.00
study		May 2012		
GTL catalysis study project	Qatar University	May 2012	LPI	\$ 450,000.00
De-watering of water-in-oil	Qatar National	April 2013-	P.I.	\$ 1,028,122.00
emulsions by	Research	September 2016		
electrocoalescence and	Foundation (QNRF),			
development of compact	NPRP5-366-2-143			
electro-coalescers				
Advanced Produced Water	Maersk Qatar	December 2013-	P.I.	\$ 1,000,000.00
Treatment		June 2016		
Learning from Nature:	QNRF, NPRP7-227-	January 2015-	LPI	\$ 899,923.20
Coherence for Novel Solar	1-034	January 2018		
Applications				
CO ₂ Conversion to Value-added	Shell Qatar	February 2018-	P.I.	\$ 300,000.00
Chemical		February 2021		
Enhancing Natural Gas	QNRF, NPRP10-	April 2018-April	LPI	\$ 541,690.00
Recovery by CO ₂ Injection and	0125-170235	2021		
Storage in Qatar's Reservoirs:				
From Molecular Modeling to				
Core-Scale Flooding.				
Determining the OGIP for the	QNRF, NPRP12S-	April 2020-April	P.I.	\$ 598,824.00
Qatari Shale Reservoirs: Pore to	0130-190023	2023		
Core Scale Investigation				
Thermo-neutral Tri-reforming	QNRF, NPRP14S-	March 2023-	P.I.	\$ 623,700.00
of Methane - Catalysis and	0302-210011	March 2027		
Reactor Design				



SCHOLARLY ACHIEVEMENTS

My goals are to conduct research in areas of great interest to Qatar and the region and to develop new knowledge in areas of my expertise for applied research.

PATENTS (P)

- P1 Aboubakr M. ABDULLAH, Vincenzino VIVACQUA, Mohammed J. AL-MARRI, Barry AZZOPARDI, Bijan KERMANI, Ali HASSANPOUR, Buddhika HEWAKANDAMBY, Mojtaba Ghadiri, COMPACT ELECTROCOALESCER WITH CONICAL FRUSTUM ELECTRODES, Patent No.: US 10,786,757 B2.
- **P2 Mohammed J. Al-Marri**, Mohammed A. Saad, Mahmoud M. Khader, Sardar Ali, Ahmed G. Abdelmoneim, NICKEL CATALYST FOR DRY AND LOW TEMPERATURE STEAM REFORMING OF METHANE, Pub. No.: **US 11,311,860 B2**.
- P3 Mahmoud M. Khader, Mohammed J. Al-Marri, Sardar Ali, Ahmed G. Abdelmoneim, Anand Kumar, PALLADIUM CATALYST FOR OXIDATION OF METHANE AND METHOD OF PREPARATION AND USE THEREOF, Pub. No.: US 11,458,457 B2.
- **P4** Renju Zacharia, **Mohammed J. Al-Marri**, NANOPOROUS CERIUM OXIDE WITH INTERCONNECTED PORES FOR CATALYSIS AND A COST EFFECTIVE METHOD OF PREPARING THEREOF, Patent No .: **US 10,639,621 B2**.

Books and/or Book Chapters (B)

- **B1. Mohammed J. Al-Marri**, and Fadwa T. Eljack. Advances in Gas Processing, Proceeding of the 4th International Gas Processing Symposium, 2014.
- **B2.** Benamor, A., Nasser, M., **Al-Marri, Mohammed J.**, Encyclopedia of Sustainable Technologies by Abraham, M.: Gas Processing Technology-Treatment and Utilization, 2017.
- **B3**. Renju Zacharia, Muftah H El-Naas, **Mohammed J. Al-Marri**, Water Management, CRC Press, 2018.

REFEREED JOURNAL PAPERS (J.P.)

- JP01. Al Marri MJ, Fayyad EM, Hassan A, Khader MM. Mechanism of GaAs surface sulfidation. International Journal of Electrochemical Science. **2014**; 9(12):7287-99. (IF=1.33), https://www.electrochemsci.org/papers/vol9/91207287.pdf.
- JP02. Al-Marri MJ, Khader MM, Giannelis EP, Shibl MF. Optimization of selection of chain amine scrubbers for CO2 capture. Journal of molecular modeling. 2014; 20(12):2518. (IF=1.438), <a href="doi:oio:doi:o
- JPO3. Judd S, Qiblawey H, Al-Marri M, Clarkin C, Watson S, Ahmed A, et al. The size and performance of offshore produced water oil-removal technologies for reinjection. Separation and Purification Technology. 2014; 134:241-6. (IF=3.299), doi.org/10.1016/j.seppur.2014.07.037.
- JP04. Almarouf HS, Nasser MS, Al-Marri MJ, Khraisheh M, Onaizi SA. Demulsification of stable emulsions from produced water using a phase separator with inclined



- parallel arc coalescing plates. Journal of Petroleum Science and Engineering. **2015**; 135:16-21. (IF=1.655), doi.org/10.1016/j.petrol.2015.08.005.
- JP05. Al-Marri MJ, Khader MM, Tawfik M, Qi G, Giannelis EP. CO2 sorption kinetics of scaled-up polyethylenimine-functionalized mesoporous silica sorbent. Langmuir. 2015; 31(12):3569-76. (IF=3.993), doi.org/10.1021/acs.langmuir.5b00189.
- JP06. Al-Marri MJ, Masoud MS, Nassar AMG, Zagho MM, Khader MM. Synthesis and characterization of poly(vinyl alcohol): Cloisite® 20A nanocomposites. Journal of Vinyl and Additive Technology. 2015. (IF=1.55), http://onlinelibrary.wiley.com/doi/10.1002/vnl.21496/pdf.
- JP07. Atilhan M, Aparicio S, Ejaz S, Zhou J, Al-Marri M, Holste JJ, et al. Thermodynamic characterization of deepwater natural gas mixtures with heavy hydrocarbon content at high pressures. Journal of Chemical Thermodynamics. 2015; 82:134-42. (IF=2.196), doi.org/10.1016/j.jct.2014.10.018.
- JP08. Benamor A, Al-Marri MJ, Hawari A. Experimental determination of carbamate formation and amine protonation constants in 3-amino-1-propanol-CO2-H2O system and their temperature dependency. International Journal of Greenhouse Gas Control. 2015; 37:237-42. (IF=4.064),.
- JP09. Liang Z, Rongwong W, Liu H, Fu K, Gao H, Cao F, Zhang R, Sema T, Henni A, Sumon K, Nath D., Gelowitz D., Srisang W, Saiwan C, Benamor A, Al-Marri MJ, Shi H, Supap T, Chan C, Zhou Q, Abu-Zahra M, Wilson M, Olson W, Idem R, Tontiwachwuthikul P. Recent progress and new developments in post-combustion carbon-capture technology with amine based solvents, International Journal of Greenhouse Gas Control, 2015, 40, 26-54. (IF=4.064), dx.doi.org/10.1016/j.ijggc.2015.06.017
- JP10. Mhatre S, Vivacqua V, Ghadiri M, Abdullah AM, Al-Marri MJ, Hassanpour A, Hewakandamby B, Azzopardi B, Kermani B. Electrostatic phase separation: A review, *Chemical Engineering Research and Design* **2015**, 96, 177-195. (IF=2.525), doi:org/10.1016/j.cherd.2015.02.012.
- JP11. Vivacqua V, Mhatre S, Ghadiri M, Abdullah AM, Hassanpour A, Al-Marri MJ, Azzopardi B, Hewakandamby B, Kermani B. Electrocoalescence of water drop trains in oil under constant and pulsatile electric fields, *Chemical Engineering Research and Design* 2015, 104, 658-668. (IF=2.525), doi.org/10.1016/j.cherd.2015.10.006.
- JP12. Ali S, Al-Marri MJ, Abdelmoneim AG, Kumar A, Khader MM. Catalytic evaluation of nickel nanoparticles in methane steam reforming. International Journal of Hydrogen Energy. 2016; 41(48):22876-85. (IF=3.582)
- JP13. Ashok A, Kumar A, Bhosale RR, Saleh MAH, Ghosh UK, Al-Marri M, Almomani FA, Khader MM, Tarlochan F. Cobalt oxide nanopowder synthesis using cellulose assisted combustion technique, *Ceramics International* **2016**. (IF=2.758), doi.org/10.1016/j.ceramint.2016.05.035.
- JP14. Benamor A, Al-Marri MJ, Khraisheh M, Nasser MS, Tontiwachwuthikul P. Reaction kinetics of carbon dioxide in aqueous blends of N-



- methyldiethanolamine and glycine using the stopped flow technique. Journal of Natural Gas Science and Engineering. **2016**; 33:186-95. (IF=2.045), doi.org/10.1016/j.jngse.2016.04.063.
- JP15. Chen J, Liu D, Al-Marri MJ, Nuuttila L, Lehtivuori H, Zheng K. Photo-stability of CsPbBr3 perovskite quantum dots for optoelectronic application. Science China Materials. 2016; 59(9):719-27
- JP16. Ihsanullah, Abbas A, Al-Amer AM, Laoui T, Al-Marri MJ, Nasser MS, Khraisheh M, Atieh MA. Heavy metal removal from aqueous solution by advanced carbon nanotubes: Critical review of adsorption applications. Separation and Purification Technology. 2016; 157:141-61. (IF=3.299), doi.org/10.1016/j.seppur.2015.11.039.
- JP17. Junsheng C, Karel Ž, Mohamed A, **Al-Marri MJ**, Kaibo Z, Tõnu P. Surface plasmon inhibited photo-luminescence activation in CdSe/ZnS core—shell quantum dots. Journal of Physics: Condensed Matter. **2016**; 28(25):254001. (IF=2.649), https://iopscience.iop.org/article/10.1088/0953-8984/28/25/254001/meta.
- JP18. Kayvani Fard A, Rhadfi T, McKay G, Al-Marri MJ, Abdala A, Hilal N, Hussien MA. Enhancing oil removal from water using ferric oxide nanoparticles doped carbon nanotubes adsorbents. Chemical Engineering Journal. 2016; 293:90-101. (IF=5.310), doi.org/10.1016/j.cej.2016.02.040.
- JP19. Kumar A, Ashok A, Bhosale RR, Saleh MAH, Almomani FA, Al-Marri MJ, Khader MM, Tarlochan F. In situ DRIFTS Studies on Cu, Ni and CuNi catalysts for Ethanol Decomposition Reaction. Catalysis Letters. **2016**; 146(4):778-87. (IF=2.307), doi.org/10.1007/s10562-016-1706-9.
- JP20. Kumar A, Bhosale RR, Malik SS, Abusrafa AE, Saleh MAH, Ghosh UK, **Al-Marri MJ**, Almomani FA, Khader MM, Abu-Reesh IM. Thermodynamic investigation of hydrogen enrichment and carbon suppression using chemical additives in ethanol dry reforming. International Journal of Hydrogen Energy. **2016**; 41(34):15149-57. (IF=3.205), doi.org/10.1016/j.ijhydene.2016.06.157.
- JP21. Lenngren N, Abdellah MA, Zheng K, Al-Marri MJ, Zigmantas D, Zidek K, Pullerits T. Hot electron and hole dynamics in thiol-capped CdSe quantum dots revealed by 2D electronic spectroscopy. Physical Chemistry Chemical Physics. 2016; 18(37):26199-204. (IF=4.449), doi: 10.1039/C6CP04190F.
- Manasrah AD, Al-Mubaiyedh UA, Laui T, Ben-Mansour R, **Al-Marri MJ**, Almanassra IW, Abdala A, Atieh MA. Heat transfer enhancement of nanofluids using iron nanoparticles decorated carbon nanotubes. Applied Thermal Engineering. **2016**; 107(Supplement C):1008-18. (IF=3.043), doi.org/10.1016/j.applthermaleng.2016.07.026.
- JP23. Nasser MS, Al-Marri MJ, Benamor A, Onaizi SA, Khraisheh M, Saad MA. Flocculation and viscoelastic behavior of industrial papermaking suspensions. Korean Journal of Chemical Engineering. 2016; 33(2):448-55. (IF=1.166), doi.org/10.1007/s11814-015-0167-y.



- JP24. Nasser MS, Onaizi SA, Hussein IA, Saad MA, Al-Marri MJ, Benamor A. Intercalation of ionic liquids into bentonite: Swelling and rheological behaviors. Colloids and Surfaces A: Physicochemical and Engineering Aspects. 2016; 507(Supplement C):141-51. (IF=2.760), doi.org/10.1016/j.colsurfa.2016.08.006.
- Nwaoha C, Saiwan C, Supap T, Idem R, Tontiwachwuthikul P, Rongwong W, Al-Marri MJ, Benamor A. Carbon dioxide (CO2) capture performance of aqueous tri-solvent blends containing 2-amino-2-methyl-1-propanol (AMP) and methyldiethanolamine (MDEA) promoted by diethylenetriamine (DETA). International Journal of Greenhouse Gas Control. 2016; 53(Supplement C):292-304. (IF=4.064), doi.org/10.1016/j.ijggc.2016.08.012.
- Nwaoha C, Saiwan C, Tontiwachwuthikul P, Supap T, Rongwong W, Idem R, Al-Marri MJ, Benamor A. Carbon dioxide (CO2) capture: Absorption-desorption capabilities of 2-amino-2-methyl-1-propanol (AMP), piperazine (PZ) and monoethanolamine (MEA) tri-solvent blends. Journal of Natural Gas Science and Engineering. 2016; 33(Supplement C):742-50. (IF=2.045), doi.org/10.1016/j.jngse.2016.06.002.
- JP27. Saad MA, Al-Marri MJ, Yaumi AL, Hussein IA, Shawabkeh R. An Experimental and Kinetic Study of the Sorption of Carbon Dioxide onto Amine-Treated Oil Fly Ash. Journal of Chemistry. **2016**; 2016. (IF=0.996), doi.org/10.1155/2016/6021798.
- JP28. Schulze J, Shibl MF, **Al-Marri MJ**, Kühn O. Multi-layer multi-configuration time-dependent Hartree (ML-MCTDH) approach to the correlated exciton-vibrational dynamics in the FMO complex. The Journal of Chemical Physics. **2016**; 144(18):185101. (IF=1.758), doi.org/10.1063/1.4948563.
- Singto S, Supap T, Idem R, Tontiwachwuthikul P, Tantayanon S, Al-Marri MJ, Benamor A. Synthesis of new amines for enhanced carbon dioxide (CO2) capture performance: The effect of chemical structure on equilibrium solubility, cyclic capacity, kinetics of absorption and regeneration, and heats of absorption and regeneration. Separation and Purification Technology. 2016; 167:97-107. (IF=3.299), <a href="doi:oio:oio:doi:oio:oio:doi:oio:do
- JP30. Vivacqua V, Ghadiri M, Abdullah AM, Hassanpour A, Al-Marri MJ, Azzopardi B, Hewakandamby B, Kermani B. Analysis of partial electrocoalescence by Level-Set and finite element methods. Chemical Engineering Research and Design. 2016; 114(Supplement C):180-9. (IF=2.525), doi:10.1016/j.cherd.2016.08.019.
- JP31. Vivacqua V, Ghadiri M, Abdullah AM, Hassanpour A, Al-Marri MJ, Azzopardi B, Hewakandamby B, Kermani B. Linear dynamics modelling of droplet deformation in a pulsatile electric field. Chemical Engineering Research and Design. 2016; 114(Supplement C):162-70. (IF=2.525), doi.org/10.1016/j.cherd.2016.08.015.
- JP32. Zheng K, Abdellah M, Zhu Q, Kong Q, Jennings G, Kurtz CA, Messing ME, Niu Y, Gosztola DJ, Al-Marri MJ, Zhang X, Pullerits T, Canton, SE. Direct Experimental Evidence for Photoinduced Strong-Coupling Polarons in Organolead Halide



- Perovskite Nanoparticles. The Journal of Physical Chemistry Letters. **2016**; 7(22):4535-9.
- JP33. Zheng K, Žídek K, Abdellah M, Chen J, Chábera P, Zhang W, Al-Marri MJ, Pullerits T. High Excitation Intensity Opens a New Trapping Channel in Organic–Inorganic Hybrid Perovskite Nanoparticles. ACS Energy Letters. 2016; 1(6):1154-61.
- JP34. Zheng K, Žídek K, Abdellah M, Messing ME, Al-Marri MJ, Pullerits T. Trap States and Their Dynamics in Organometal Halide Perovskite Nanoparticles and Bulk Crystals. Journal of Physical Chemistry C. 2016; 120(5):3077-84. (IF=4.509), doi.org/10.1021/acs.jpcc.6b00612.
- Zhong N, Liu H, Luo X, **Al-Marri MJ**, Benamor A, Idem R, Tontiwachwuthikul P, Liang Z. Reaction Kinetics of Carbon Dioxide (CO2) with Diethylenetriamine and 1-Amino-2-propanol in Nonaqueous Solvents Using Stopped-Flow Technique. Industrial & Engineering Chemistry Research. **2016**; 55(27):7307-17. (IF=2.567), doi.org/10.1021/acs.iecr.6b00981.
- JP36. Zsirai T, Al-Jaml AK, Qiblawey H, Al-Marri MJ, Ahmed A, Bach S, Watson S, Judd S. Ceramic membrane filtration of produced water: Impact of membrane module. Separation and Purification Technology. 2016; 165:214-21. (IF=3.299), doi.org/10.1016/j.seppur.2016.04.001.
- JP37. Ali S, Zabidi NAM, Al-Marri MJ, Khader MM. Effect of the support on physicochemical properties and catalytic performance of cobalt based nanocatalysts in Fischer-Tropsch reaction. Materials Today Communications. 2017; 10(Supplement C):67-71.
- JP38. Al-Marri MJ, Kuti YO, Khraisheh M, Kumar A, Khader MM. Kinetics of CO2 Adsorption/Desorption of Polyethyleneimine-Mesoporous Silica. Chemical Engineering & Technology. 2017; 40(10):1802-9.
- JP39. Bokareva OS, Shibl MF, Al-Marri MJ, Pullerits T, Kühn O. Optimized Long-Range Corrected Density Functionals for Electronic and Optical Properties of Bare and Ligated CdSe Quantum Dots. Journal of Chemical Theory and Computation. 2017; 13(1):110-6.
- JP40. Chen J, Žídek K, Chábera P, Liu D, Cheng P, Nuuttila L, Al-Marri MJ, Lehtivuori H, Messing ME, Han K, Zheng K, Pullerits T. Size- and Wavelength-Dependent Two-Photon Absorption Cross-Section of CsPbBr3 Perovskite Quantum Dots. The Journal of Physical Chemistry Letters. 2017; 8(10):2316-21.
- JP41. Hossain MA, Al-Gaashani R, Hamoudi H, Al-Marri MJ, Hussein IA, Belaidi A, Merzougui BA, Alharbi FH, Tabet N. Controlled growth of Cu2O thin films by electrodeposition approach. Materials Science in Semiconductor Processing. 2017; 63(Supplement C):203-11.
- JP42. Liu H, Idem R, PaitoonTontiwachwuthikul, Liang Z, Rongwong W, Al-Marri MJ, Benamor A. Analysis of CO2 Solubility and Absorption Heat into Aqueous 1-Diethylamino-2-propanol. Energy Procedia. 2017; 114(Supplement C):873-9.



- JP43. Mahmud N, Benamor A, Nasser MS, Al-Marri MJ, Qiblawey H, Tontiwachwuthikul P. Reaction kinetics of carbon dioxide with aqueous solutions of I-Arginine, Glycine & Sarcosine using the stopped flow technique. International Journal of Greenhouse Gas Control. 2017; 63(Supplement C):47-58.
- JP44. Matin MA, Kumar A, Bhosale RR, Saleh Saad MAH, Almomani FA, Al-Marri MJ. PdZn nanoparticle electrocatalysts synthesized by solution combustion for methanol oxidation reaction in an alkaline medium. RSC Advances. 2017; 7(68):42709-17.
- JP45. Mohamed FS, Jan S, Al-Marri MJ, Oliver K. Multilayer-MCTDH approach to the energy transfer dynamics in the LH2 antenna complex. Journal of Physics B: Atomic, Molecular and Optical Physics. 2017; 50(18):184001.
- JP46. Moussa DT, El-Naas MH, Nasser M, Al-Marri MJ. A comprehensive review of electrocoagulation for water treatment: Potentials and challenges. Journal of Environmental Management. 2017; 186(Part 1):24-41.
- JP47. N SB, Nemec H, Zidek K, Abdellah M, Al-Marri MJ, Chabera P, Ponseca C, Zheng K, Pullerits T. Time-resolved terahertz spectroscopy reveals the influence of charged sensitizing quantum dots on the electron dynamics in ZnO. Physical Chemistry Chemical Physics. 2017; 19(8):6006-12.
- Nwaoha C, Idem R, Supap T, Saiwan C, Tontiwachwuthikul P, Rongwong W, Al-Marri MJ, Benamor A. Heat duty, heat of absorption, sensible heat and heat of vaporization of 2–Amino–2–Methyl–1–Propanol (AMP), Piperazine (PZ) and Monoethanolamine (MEA) tri–solvent blend for carbon dioxide (CO2) capture. Chemical Engineering Science. 2017; 170(Supplement C):26-35.
- Nwaoha C, Saiwan C, Supap T, Idem R, Tontiwachwuthikul P, **Al-Marri MJ**, Benamor A. Regeneration Energy Analysis of Aqueous Tri–Solvent Blends Containing 2–Amino–2–Methyl–1–Propanol (AMP), Methyldiethanolamine (MDEA) and Diethylenetriamine (DETA) for Carbon Dioxide (CO2) Capture. Energy Procedia. **2017**; 114(Supplement C):2039-46.
- JP50. Nwaoha C, Supap T, Idem R, Saiwan C, Tontiwachwuthikul P, Al-Marri MJ, Benamor A. Advancement and new perspectives of using formulated reactive amine blends for post-combustion carbon dioxide (CO2) capture technologies. Petroleum. 2017; 3(1):10-36.
- JP51. Okonkwo P, Shakoor R, Benamor A, Amer Mohamed A, Al-Marri MJ. Corrosion Behavior of API X100 Steel Material in a Hydrogen Sulfide Environment. Metals. 2017; 7(4):109.
- JP52. Schulze J, Shibl MF, Al-Marri MJ, Kühn O. The effect of site-specific spectral densities on the high-dimensional exciton-vibrational dynamics in the FMO complex. Chemical Physics. 2017; 497(Supplement C):10-6.
- JP53 Ali S, Al-Marri MJ, Al-Jaber AS, Abdelmoneim AG, Khader MM. Synthesis, characterization and performance of Pd-based core-shell methane oxidation



nano-catalysts. Journal of Natural Gas Science and Engineering. **2018**; 55:625-33.

- JP54 Eliebid M, Mahmoud M, Hussein I, Elkatatny S, Shawabkeh R, Sultan A, Al-Marri MJ. Impact of Surfactant on the Retention of CO2 and Methane in Carbonate Reservoirs. Energy & Fuels. 2018; 32(4):5355-63.
- JP55 Khader M, Al-Marri MJ, Ali S, Abdelmoneim A. Active and Stable Methane Oxidation Nano-Catalyst with Highly-Ionized Palladium Species Prepared by Solution Combustion Synthesis. Catalysts. 2018; 8(2):66.
- JP56 Matin MA, Kumar A, Saad MAHS, **Al-Marri MJ**, Suslov S. Zn-enriched PtZn nanoparticle electrocatalysts synthesized by solution combustion for ethanol oxidation reaction in an alkaline medium. MRS Communications. **2018**; 8(2):411-9.
- JP57 Zhang X, Liu H, Liang Z, Idem R, Tontiwachwuthikul P, Al-Marri MJ, Benamor A. Reducing energy consumption of CO2 desorption in CO2-loaded aqueous amine solution using Al2O3/HZSM-5 bifunctional catalysts. Applied Energy. 2018; 229:562-76.
- JP58 Zheng K, Chen Y, Sun Y, Chen J, Chábera P, Schaller R, Al-Marri MJ, Canton SE, Liang Z, Pullerits T. Inter-phase charge and energy transfer in Ruddlesden—Popper 2D perovskites: critical role of the spacing cations. Journal of Materials Chemistry A. 2018; 6(15):6244-50.
- JP59 Zsirai T, Qiblawey H, Buzatu P, Al-Marri MJ, Judd SJ. Cleaning of ceramic membranes for produced water filtration. Journal of Petroleum Science and Engineering. 2018; 166:283-9.
- JP60 Khraisheh M, Dawas N, Nasser MS, Al-Marri MJ, Hussien MA, Adham S, et al. Osmotic pressure estimation using the Pitzer equation for forward osmosis modelling. Environ Technol. 2019:1-13
- JP61 Mahmoud M, Hussein I, Carchini G, Shawabkeh R, Eliebid M, Al-Marri MJ. Effect of rock mineralogy on Hot-CO2 injection for enhanced gas recovery. Journal of Natural Gas Science and Engineering. 2019; 72:103030.
- Matin MA, Saad MAHS, Kumar A, **Al-Marri MJ**, Mansour SA. Effect of fuel content on the electrocatalytic methanol oxidation performance of Pt/ZnO nanoparticles synthesized by solution combustion. Applied Surface Science. **2019**; 492:73-81.
- JP63 Nazir R, Kumar A, Ali S, Saad MAS, Al-Marri MJ. Galvanic Exchange as a Novel Method for Carbon Nitride Supported CoAg Catalyst Synthesis for Oxygen Reduction and Carbon Dioxide Conversion. Catalysts. 2019; 9(10):860.
- JP64 Carchini G, Al-Marri MJ, Hussein IA, Aparicio S. Ab Initio Molecular Dynamics Investigation of CH4/CO2 Adsorption on Calcite: Improving the Enhanced Gas Recovery Process. ACS Omega. 2020; 5(46):30226-36.



- JP65 Carchini G, Hussein I, Al-Marri MJ, Shawabkeh R, Mahmoud M, Aparicio S. A theoretical study of gas adsorption on calcite for CO2 enhanced natural gas recovery. Applied Surface Science. 2020; 504:144575.
- JP66 Carchini G, Hussein I, Al-Marri MJ, Shawabkeh R, Mahmoud M, Aparicio S. A theoretical study of gas adsorption on α -quartz (0 0 1) for CO2 enhanced natural gas recovery. Applied Surface Science. **2020**; 525:146472.
- JP67 Khraisheh M, Dawas N, Nasser MS, Al-Marri MJ, Hussien MA, Adham S, McKay G. Osmotic pressure estimation using the Pitzer equation for forward osmosis modelling. Environmental Technology. 2020; 41(19):2533-45.
- JP68 Mahmoud M, Hamza A, Hussein IA, Eliebid M, Kamal MS, Abouelresh M, Shawabkeh R, Al-Marri MJ. Carbon dioxide EGR and sequestration in mature and immature shale: Adsorption study. Journal of Petroleum Science and Engineering. 2020; 188:106923.
- JP69 Ashok A, Kumar A, Saad MAS, Al-Marri MJ. Electrocatalytic conversion of CO2 over in-situ grown Cu microstructures on Cu and Zn foils. Journal of CO2 Utilization. 2021; 53:101749.
- JP70 Carchini G, Hussein IA, Al-Marri MJ, Mahmoud M, Shawabkeh R, Aparicio S. Ab-Initio Molecular Dynamics investigation of gas adsorption on α -quartz (001) for CO2 enhanced natural gas recovery. Journal of Petroleum Science and Engineering. **2021**; 205:108963.
- JP71 Dierks P, Kruse A, Bokareva OS, Al-Marri MJ, Kalmbach J, Baltrun M, et al. Distinct photodynamics of κ -N and κ -C pseudoisomeric iron(ii) complexes. Chemical Communications. **2021**; 57(54):6640-3.
- JP72 Hamza A, Hussein IA, Al-Marri MJ, Mahmoud M, Shawabkeh R. Impact of clays on CO2 adsorption and enhanced gas recovery in sandstone reservoirs. International Journal of Greenhouse Gas Control. 2021; 106:103286.
- JP73 Hamza A, Hussein IA, Al-Marri MJ, Mahmoud M, Shawabkeh R, Aparicio S. CO2 enhanced gas recovery and sequestration in depleted gas reservoirs: A review. Journal of Petroleum Science and Engineering. 2021; 196:107685.
- JP74 Onawole AT, Nasser MS, Hussein IA, Al-Marri MJ, Aparicio S. Theoretical studies of methane adsorption on Silica-Kaolinite interface for shale reservoir application. Applied Surface Science. 2021; 546:149164.
- JP75 Albatrni H, Qiblawey H, Al-Marri MJ. Walnut shell based adsorbents: A review study on preparation, mechanism, and application. Journal of Water Process Engineering. 2022; 45:102527
- JP76 Carchini G, Al-Marri MJ, Hussein I, Shawabkeh R, Mahmoud M, Aparicio S. Molecular dynamics of CH4/CO2 on calcite for enhancing gas recovery. The Canadian Journal of Chemical Engineering. 2022; 100(11):3184-95.



- JP77 Kumar A, Mohammed AAA, Saad MAHS, **Al-Marri MJ**. Effect of nickel on combustion synthesized copper/fumed-SiO2 catalyst for selective reduction of CO2 to CO. International Journal of Energy Research. **2022**; 46(1):441-51.
- Yuda A, Kumar A, Abu Reesh I, Russell CK, Miller JT, Ali Saleh Saad M, Al-Marri MJ. Electrooxidation of methanol on Ag, AgNi, and AgCo catalysts prepared by combustion synthesis technique. International Journal of Energy Research. 2022; 46(15):22162-75.
- JP79 Al-Harbi A, Al-Marri MJ, Carchini G, Saad M, Hussein IA. Hydrogen Underground Storage in Silica-Clay Shales: Experimental and Density Functional Theory Investigation. ACS Omega. 2023; 8(48):45906-13.
- JP80 Yadav VSK, Al-Marri MJ, Saad MAHS, Kumar A. Understanding the progress and challenges in the fields of thermo-catalysis and electro-catalysis for the CO2 conversion to fuels. Emergent Materials. 2024;7(1):1-16..
- JP81 Hamza A, Al-Marri MJ, Hussein IA, Shawabkeh R, Mahmoud M. Adsorption of Flue Gas on Carbonate and Sandstone Rocks at Typical Reservoir Conditions: Influence of Feed Composition. Arabian Journal for Science and Engineering. 2024;49(6):8201-12.
- JP82 Al-Ajmi F, Al-Marri MJ, Almomani F, AlNouss A. A Comprehensive Review of Advanced Treatment Technologies for the Enhanced Reuse of Produced Water. Water . 2024; 16(22).
- Yadav VSK, Saad MAHS, **Al-Marri MJ**, Kumar A. A brief review of in situ spectroscopic methods and electrochemical sensors as essential evaluation tools for the electrochemical reduction of CO2 (EIRC). Sustainable Energy & Fuels. **2024**;8(8):1607-18.
- JP84 Ismail R, Saad MAH, Al-Marri MJ, Sardar A, Mohamed AT, El-Naas M, et al.
 Synthesis and evaluation of novel Cu-based adsorbent-containing catalysts for
 CO2 hydrogenation to methanol and value-added products. Journal of
 Environmental Chemical Engineering. 2024;12(2):112325
- JP85 Cutad MB, Al-Marri MJ, Kumar A. Recent Developments on CO2 Hydrogenation Performance over Structured Zeolites: A Review on Properties, Synthesis, and Characterization. Catalysts. 2024; 14(5)
- Mohammed AAA, Ebrahimi P, Yuda A, **Al-Marri MJ**, Kumar A, Ali M, et al. Role of Ca in Ni-Ca/Fumed-SiO2 Catalysts for CO2 Catalytic Conversion to Methane. Topics in Catalysis. **2024**.
- JP87 Khadri SO, Al-Marri MJ, Nasser M, Sadooni F, Shirif E, Hussein IA. Novel methodology to couple decline curve analysis with CFD reservoir simulations for complex shale gas reservoirs. The Canadian Journal of Chemical Engineering. 2024;102(12):4401-15.
- JP88 Mohammed AAA, Ebrahimi P, Al-Marri MJ, Kumar A. Numerical analysis of spatial distribution of carbon in methane dry reforming over supported nickel



catalyst in a packed bed reactor. International Journal of Hydrogen Energy. **2024.**

- JP89 Al-Ajmi F, Al-Marri MJ, Almomani F. Electrocoagulation Process as an Efficient Method for the Treatment of Produced Water Treatment for Possible Recycling and Reuse. Water. 2025; 17(1)
- JP90 Yadav VSK, Saad MAHS, **Al-Marri MJ**, Kumar A. Electrochemical Reduction of CO2 (ERCO2) on Pb Electrocatalysts using Mn3O4 as Anode. ChemElectroChem. **2025**;12(6):e202400527
- Yadav VSK, Saad MAHS, **Al-Marri MJ**, Kumar A. Synthesis of various Pb catalysts and their examination in the study of electrochemical CO2 reduction (ECR) using a quartz crystal microbalance with a Mn3O4 anode. Catalysis Science & Technology. **2025**
- JP92 Ebrahimi P, Kumar A, Al-Marri MJ. Impact of magnesium substitution on the structural stability and catalytic performance of LaNiO₃ perovskites for methane dry reforming. Gas Science and Engineering. 2025;134:205530
- JP93 Yadav VSK, Saad MAHS, **Al-Marri MJ**, Kumar A. Quartz crystal microbalance (QCM) study of electrochemical CO2 reduction on Sn electrocatalysts.

 International Journal of Hydrogen Energy. **2025**.
- JP94 Ebrahimi P, Kumar A, Al-Marri MJ. Understanding the formation of active site in copper ceria system for carbon dioxide catalytic conversion. Gas Science and Engineering. 2025;144:205764
- JP95 Schmitz L, Argüello Cordero MA, Al-Marri MJ, Schoch R, Egold H, Neuba A, et al. Chromophore Induced Effects in Iron(III) Complexes. Inorganic Chemistry. 2025;64(28):14101-17.
- JP96 Cutad M, Al-Marri MJ, Kumar A. Direct transformation of Carbon Dioxide to aromatics as high-value liquid fuels via the modified fischer-Tropsch synthesis and Methanol-mediated routes. Catalysis Reviews.1-62.
- JP97 Yadav VSK, Saad MAHS, **Al-Marri MJ**, Kumar A. Synthesis of various Pb catalysts and their examination in the study of electrochemical CO2 reduction (ECR) using a quartz crystal microbalance with a Mn3O4 anode. Catalysis Science & Technology. 2025;15(11):3385-92.
- JP98 Ebrahimi P, Cutad MB, Kumar A, Al-Marri MJ. Synergistic Promotion of Ni/La2O3 Catalysts by Copper for Efficient Dry Reforming of Methane. Greenhouse Gases: Science and Technology.n/a(n/a):e2370.

REFEREED CONFERENCE PROCEEDINGS (C.P.):



- **CP01 Mohammed J. Al-Marri**, T Mahmud, and K. J. Roberts. Influence of process conditions on L-glutamic acid precipitation in a semi-batch stirred tank crystalliser, 17th International Symposium of Industrial Crystallization, Netherlands, **2008**.
- **CP02 Mohammed J. Al-Marri**, T Mahmud, and K. J. Roberts. Wall Temperature Effect and Scale-up on Cooling Crystallization, 8th World Congress of Chemical Engineering, **2009**.
- **CP03 Mohammed J. Al-Marri**, T Mahmud, and K. J. Roberts. Influence of Process Conditions on L-Glutamic Acid Reactive Crystallization, 8th World Congress of Chemical Engineering, **2009**
- CP04 Sardar Ali, Moustafa.M. Zhago, Mohammed J. Al-Marri, Yara I. Arafat, Mahmoud M. Khader, "Development of Nickel-based Catalysts for Methane Steam Reforming", the 4th International Gas Processing Symposium, October 26–27, Doha, Qatar, 2014.
- CP05 Sardar Ali, Mohammed J. Al-Marri, Ahmed Gamal Abdul Monem, Yaralbrahim Arafat, , Mahmoud M. Khader, "The Development of Core-Shell, Methane-Oxidation Catalysts", the 4th International Gas Processing Symposium, October 26–27, Doha, Qatar, 2014.
- **CP06 Mohammed J. Al-Marri**, Sardar Ali, Ahmad Gamal, Yara Arafat and Mahmoud Khader, "Development of Methane Oxidation Catalysts", 198th ACS Meeting, San Francisco, Ca , USA, 14 -18 Augut **2014**.
- **CP07 Mohammed J. Al-Marri**, M. M. Khader, M. Tawfik, G. Qi and E.P. Giannelis. "Enhancing CO2 adsorption on Polyethyleneimine mesoporous silica by treatment with a nonioinc surfactant", the 4th International Gas Processing Symposium, October 26–27, Doha, Qatar, **2014**.
- **CP08 Mohammed J. Al-Marri**, S. Ali, M.M. Zhago, M. M. Khader, "Synthesis, Characterization and Catalytic Performance of Supported Nickel Nanoparticles in Methane Steam Reforming", NanoTech France **2015**.
- CP09 Abdelbaki Benamor and Mohammed J. Al-Marri, "Studying The Promoting Effect of Glycine on The Kinetics of Carbon Dioxide Reaction with Methyldiethanolamine Using Stopped Flow Technique", International Conference on Engineering and Natural Science (ICENS), Kuala Lumpur, Malaysia, 14 March 2015.
- CP10 Abdelbaki Benamor and Mohammed J. Al-Marri, "Reactive Absorption of Carbon Dioxide into Piperazine Activated Diethanolamine Solutions", International Conference on Chemical, Industry and Science (ICCIS 2015). February 27-28, Kuching, Malaysia, 2015.
- CP11 Abdelbaki Benamor, Mohammed J. Al-Marri, Wichitpan Rongwong and Paitoon Tontiwachwuthikul, kinetics of co2 reaction with solutions of N-methyldiethanolamine mixed with selected amino acids using stopped flow technique, 2015 AIChE Annual Meeting, November 8-13, Salt Lake City, Utah, USA, 2015.
- **CP12** Abdelbaki Benamor, **Mohammed J. Al-Marri** and Wichitpan Rongwong, Reaction kinetics of some important alkanolamines with carbon dioxide in aqueous solutions



- using stopped flow technique, 2015 AIChE Annual Meeting, November 8-13, Salt Lake City, Utah, USA, **2015**.
- **CP13 Al-Marri, Mohammed J.**, Umer Mehmood, Ibnelwaleed A. Hussein, "Enhancement of power conversion efficiency of dyesensitized solar cells using nanocomposites of carbonaceous materials with TiO2", European Advanced Materials Congress, Stockholm, Sweden, August 23-25, **2016**.
- CP14 Benamor, A., Ahmed Gomaa Talkhan and Mohammed J. Al-Marri, Corrosion Study of Carbon Steel in CO2 Loaded Amine-Amino Acid Solutions- Case of N-Methyldiethanolamine and Arginine, Global Conference on Engineering & Technology, Kuala Lumpur, June 1-2, 2016.
- CP15 Mahmoud M. Khader, Sardar Ali, Mohammed J. Al-Marri, Ahmed G. Abdelmoneim "Methane oxidation Pd/CeO2 robust catalyst", The 5th International Gas Processing Symposium, Doha, Nov 27-29, 2016.
- CP16 Sardar Ali, Mohammed J. Al-Marri, Ahmed G. Abdelmoneim, Mahmoud M. Khader "Effects of Shell Composition on the Catalytic Performances of Pd-Based Core-Shell, Methane-Oxidation Catalysts" The 5th International Gas Processing Symposium, Doha, Nov 27-29, 2016.
- CP17 Abdelbaki Benamor, M. N. Nasser, Mohammed J. Al-Marri, Kinetics of Carbon Dioxide Reaction with Aqueous Solution of N-Methyldiethanolamine in the Presence Alkaline Amino Acid Salts Using Stopped Flow Technique. 2016 AIChE Annual Meeting, November 13-18, San Francisco, USA, 2016.
- **CP18** Abdelbaki Benamor, Ahmed Gomaa Talkhan and **Mohammed J. Al-Marri,** Experimental solubility and modelling of CO2 absorption into aqueous blends of Amine-amino acid system, The 5th International Gas Processing Symposium, Nov 27-28, Doha Qatar, **2016**.
- CP19 M. M. Khader, Mohammed J. Al-Marri, Sardar Ali, Ahmed G. Abdelmoneim, Anand Kumar, Mohd Ali H. Saleh, Ahmed Soliman, "Catalytic evaluation of Ni-based nanocatalysts in dry reformation of methane," IEEE 17th International Conference on Nanotechnology (IEEE-NANO), Pittsburgh, PA, 2017, pp. 1051-1055, doi: 10.1109/NANO.2017.8117488.
- CP20 Chikezie Nwaoha, Paitoon Tontiwachwuthikul, Raphael Idem, Mohammed J. Al-Marri, Abdelbaki Benamor, Pilot Plant Study of Novel AMP-Based Amine Solvent Blend for CO2 Capture: Rich Amine Loading, Absorption Rate, Absorber Overall Volumetric Mass Transfer Coefficient and Amine Cost, 14th Greenhouse Gas Control Technologies Conference, Melbourne, Australia, 21-26 October 2018 (GHGT-14)
- CP21 Jan Schulze, Mohamed F. Shibl, Mohammed J. Al-Marri, Oliver Kuhn, High-dimensional exciton-vibrational wave-packet dynamics in the FMO complex. influence of site-specific spectral densities, EPJ Web Conf. 205 10010, XXI International Conference on Ultrafast Phenomena, Hamburg, Germany, 2018.
- G. Carchini, I. Hussein, **Mohammed J. Al-Marri**, S. Aparicio, A Theoretical Study of Gas Adsorption on Calcite for CO2 Enhanced Natural Gas Recovery, Third EAGE WIPIC Workshop: Reservoir Management in Carbonates, Doha, Qatar, Nov **2019**.
- **CP23** F. Al-Ajmi, **Mohammed J. Al-Marri**, F. Almomani, Development of an advanced produced water treatment for possible recycling and reuse, International



Conference on Challenges in Environmental Science & Engineering (CESE), Perth, Australia, 5-9 November **2023**.

CP24 Easwari Padma Kumari, Anand Kumar, Faris Tarlochan, Mohammed J. Al-Marri, Synthesis and Evaluation of Nickel Catalysts for Oxygen Evolution Reaction—Impact of Electrolyte Temperature, 247th ECS Meeting, Montreal, Canada, May 18-22, 2025

NON-TECHNICAL PRESENTATIONS:

Al-Marri, Mohammed J. (Presenter), ITF GCC Meeting, "Current R & D capabilities and Future Work," Qatar. **2013**.

Al-Marri, Mohammed J. (Coordinator/Organizer/Presenter), Technical Advisory Committee (TAC), "TAC Meetings," Q.U., Qatar. **2014**, **2015**, **2016**, **2017**.

Al-Marri, Mohammed J. (Speaker), Organization of Arab Petroleum Exporting Countries (**OAPEC**), "Energy research efforts and achievements Strength and weakness in R & D," Kuwait. **2017**.

AWARDS AND RECOGNITION

- Academic Standing honors during B.S. studies 1991, 1992-93, 1993, 1994-1995.
- A Scholarship by SPE (Society of Petroleum Engineers) during B.S. studies, 1995.
- Received a shield from the English Language Institute for being an outstanding full-time student at Texas A&M University in **1997**.
- Received High Annual Performance Evaluation Scores (Exceeded Expectations) at Q.U., **2012-2021**.
- College of Engineering Top 20 highly cited authors (2014-2020).
- Won 3rd place in the Senior Design Project Competition, 2022.

LEADERSHIP & SERVICES

In terms of my service contributions, I have actively participated in various departmental, college, and university-level committees. Additionally, I have held several administrative positions and served on committees beyond Qatar University. Specifically, I served as the Industrial Relations Office Manager at the College of Engineering, Qatar University, during the period 2012-2013. Subsequently, I assumed the role of Director of the Gas Processing Center (GPC) from 2013 to 2017. Additionally, I am currently serving as the Head of the Chemical Engineering Department.



COMMITTEES (AT QATAR UNIVERSITY)

AT UNIVERSITY LEVEL

Committee Name	Standing/Ad hoc	Applicant Role	Dates
Strategic Plan Committee	Standing	Member	2010-2012
KPA1, Teaching and Learning			
Strategic Plan Committee	Standing	Member	2013-2015
KPA2, Research			
Procurement Committee	Standing	Member	2016-2017
Qatar University & Qatar Shell	Ad hoc	Member	2013-2014
Joint Steering Committee			
Executive Committee for	Ad hoc	Member	2013-2015
Environmental Studies Center			
(ESC)			
Intellectual Property Advisory	Standing	Chair	2016-2017
Committee			
Intellectual Property Advisory	Standing	member	2017-2018
Committee			
Intellectual Property Advisory	Standing	Chair	2018-2019
Committee			

AT COLLEGE LEVEL

Committee Name	Standing/Ad hoc	Applicant Role	Dates
5 th International Gas Processing Symposium organizing committee	Standing	Chair	2016
, , , , , , , , , , , , , , , , , , , ,			
Department Center Integration	Ad hoc	Member	2016
Committee			
4 th International Gas Processing	Standing	Chair	2014
Symposium organizing committee			
Out-reach Committee	Standing	Chair	2012-2013
Research Committee	Standing	Member	2014-2017
KPA 3 Working Group	Ad hoc	Member	2013-2014

AT Department LEVEL

Committee Name	Standing/ Ad hoc	Applicant Role	Dates
Students Activities Committee, Chemical Engineering	Standing	Member	2011-2013
Recruitment Committee, CHME	Standing	Member	2012-2013



GPC strategic planning committee	Ad hoc	Member	2013- 2017
GPC Annual Report Committee	Ad hoc	Chair	2013- 2017
GPC Budgeting Committee	Ad hoc	Chair	2013- 2017
GPC Equipment committee	Ad hoc	Chair	2013- 2017
GPC- Non-Academic Review Committee	Ad hoc	Chair	2013-2014
Research and Graduate Studies Committee, Chemical Engineering	Standing	Member	2013-2023

COMMITTEES (OUTSIDE QATAR UNIVERSITY):

Committee Name	Standing/ Ad hoc	Applicant Role	Dates	Remarks
Qatar National Committee	Standing	Member	2010-	WPC
of World Petroleum Council			2015	
(WPC)				
Doha Carbon and Energy	Standing	Member	2013-	Q.F.
Forum (DCEF) Technical			2014	
Committee				
Program Advisory	Standing	Member	2017-	CNAQ
Committee in The College			2018	
of North Atlantic in Qatar				
(CNAQ) (became				
University of Doha for				
Science and Technology)				
Ministry of Defence	Standing	member	2019-	MoD
(MoD) Task force for			Present	
Laboratory Establishment.				