FACULTY VITAE

Dr. Basem Al Alwan

Rank: **Assistant Professor**
Chairman of Dept. of Chemical Engg.

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Educational Qualification

Degree	Department	University, Country	Year of passing
PhD	Chemical Engineering	Wayne State University, USA	2014
M.S.	Chemical Engineering	California State University, Long Beach, USA	2009
B.S.	Chemical Engineering	King Saud University, KSA	2003

Academic Experience

Organization name	Position	Department	Period (From - To)
King Khalid University	Assistant Professor	Chemical Engineering	2018-present
University of Michigan	Lecturer	College of Science	2017-2018
Baker College	Lecturer	Engineering	2017-2018

Non-Academic Experience

Organization name	Position	Department	Period (From - To)
National Biofuels Energy Laboratory, Next Energy	Research Scientist	Energy	2016-2017
Fugro-Suhaimi Ltd.	Chemist	Chemistry Lab	2003-2005

Research Expertise and Interest

Chemical Reaction Engineering, Heterogeneous Catalysis & Catalyst Characterization, Renewable energy, Biodiesel and Biofuel Production, Hydrogen Production

Honors, Awards and Grants

4 project grants from Deanship of Scientific Research, King Khalid University Abha

Publications (Journal paper, Conferences and Pattern)

1. Salahuddin, T.; Bashir, A.; Khan, M.; Al Alwan, B.; Almesfer, M.Hybrid nanofluid analysis for a class of alumina particles. Chinese Journal of Physics, doi.org/10.1016/j.cjph.2021.11.012.
2. Salahuddin, T.; Khan, M.; Khan, M.; Al Alwan, B.; Amari, A.An analysis on the flow behavior of MHD nanofluid with heat generation.Fuel, doi.org/10.1016/j.fuel.2021.122548.
3. Salahuddin, T.; Siddique, N.; Khan, M.; Al Alwan, B.; Almesfer, M.Outlining the influence of thermal and solutal stratifications on mixed convection second grade fluid flow near an irregular cylinder with induced magnetic field.Waves in Random and Complex Media, DOI: 10.1080/17455030.2021.2009153.
4. Khan, M.; Salahuddin, T.; Khan, Q.; Al Alwan, B.; Almesfer, M.Numerical study of binary mixture and thermal analysis near a solar radiative heated surface.Solar Energy 2022, 231, 262–269.
5. Zhang, L.; Ullah, S.; Al Alwan, B.; Alshehri, A.; Sumelka, W.Mathematical assessment of constant and time-dependent control measures on the dynamics of the novel coronavirus: An application of optimal control theory.Results in Physics 2021, 31, 104971.
6. Fatima, B.; Al Alwan, B.; Siddiqui, S.; Ahmad, R.; Almesfer, M.; Khanna, M.; Mishra, R.; Ravi, R.; Oh, S.Facile Synthesis of Cu-Zn Binary Oxide Coupled Cadmium Tungstate (Cu-ZnBO-Cp-CT) with Enhanced Performance of Dye Adsorption. Water 2021, 13, 3287.
7. Osman,H.; Shigidi, I.; Elkhaleefa, A.; Ali, I.; Brima, E.; Al Alwan, B.Ni(II) removal using date seed powder biosorbent: Process parameters classification and RSM modeling. Journal ofthe Air & Waste Management Association 2021, DOI: 10.1080/10962247.2021.1990160.
8. Al Mesfer, M.; Danish, M.; Al Alwan, B.; Awwad, N.CO_2 sorption from a mixture of N_2/CO_2 using an activated carbon and silica gel: equilibrium, breakthrough, column efficiency and mass transfer zone.Global NEST Journal 2021, 23(1), 1-12.
9. Renuga, R; Manikandan, A; Mary, J; Muthukrishnaraj, A; Khan, A; Srinivasan, S; Al Alwan, B; Khedher, K.Enhanced Magneto-Optical, Morphological, and Photocatalytic Properties of Nickel-Substituted SnO_2 Nanoparticles. J Supercond Nov Magn (2021) 34:825–836.
10. Al Mesfer, M.; Danish, M.; Al Alwan, B.; Awwad, N. Performance study of activated carbon and silica gel for sorption of CO_2 from a mixture of N_2 /CO_2 : equilibrium, breakthrough and mass transfer zone. Desalination and Water Treatment 204 (2020) 413–428.
11. Amari, A.; Alalwan, B.; Siddeeg, S.; Tahoon, M.; Alsaiari, N.; Ben Rebah, F. Biomolecules Behavior on a Surface of Boron Doped/un-doped Graphene Nanosheets. Int. J. Electrochem. Sci., 15 (2020) 11427 – 11436.
12. Al Mesfer, M.; Amari, A.; Danish, M.; Al Alwan, B.; Shah, M. Simulation study of fixed-bed CO_2 adsorption from CO_2/N_2 mixture using activated carbon. Chemical Engineering Communications, DOI: 10.1080/00986445.2020.1777111.
13. Amari, A.; Alalwan, B.; Eldirderi, M.; Mnif, W.; Rebah, F. Cactus material-based adsorbents for the removal of heavy metals and dyes: a review. Mater. Res. Express 7 (2020) 012002.

Dr. Mohammed K. Al Mesfer

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Dean College of Engineering

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Education:
Ph.D. Chemical Engineering, Missouri University of Science and Technology, U.S.A, 2013
M.Sc. Chemical Engineering, King Saud University, KSA, 2006
B.Sc. Chemical Engineering, King Saud University, KSA, 2000

Academic Experience:

MST	Research Scholar	Chemical and Biochemical Engineering Department	2009-2013	Full time
KKU	Assistant Professor	Chemical Engineering Dep.	2013-2018	Full time
KKU	Associate Professor	Chemical Engineering Dep	2018-Present	Full time

Non-academic Experience:

Asajo Company	Counselor	2006 -2013	Part time
King Khalid University	Chairman of Training and Alumni Unit	2013-2015	Full time
King Khalid University	Chairman KKU	2014– 2016	Full time
King Khalid University	Vice Dean of Academic Affairs, College of Engineering, KKU	2015-2019	Full time
King Khalid University	Editor-in-Chief, Frontiers in Engineering and Built Environment (FEBE)	2019-Present	Full time
King Khalid University	Dean	2019-Present	Full time

Certifications or Professional Registrations:
Member, American Institute of Chemical Engineers (AIChE), Saudi Council of Engineers

Research Expertise and Interest
Chemical Reaction Engineering, Catalysis and Chemical Reactor Design, Environmental Protection, Extraction process, Water, Material Engineering, Renewable Energy, Simulation and Computational Fluid Dynamics

Honors, Awards and Grants
12 project grants from Deanship of Scientific Research, King Khalid University Abha

Publications:

- K.B. Ansari, B. Kamal, S. Beg, M.A.W. Khan, M.S. Khan, **M. K. Al Mesfer**, M. Danish, Renewable and Sustainable Energy Reviews, 150, 111454, **2021**.

- **M. K. Al Mesfer**, M. Danish, M. Shah, Journal of Taiwan Institute of Chemical Engineers, **2021.**
- I.H. Ali, M.I.Khan, A.M. Alraih, **M.K. Al Mesfer**, A. Elkhaleefa, S.M.Dmour, M. Rehan, International Journal of Electrochemical Science, 16, 8, **2021**.
- J. Mallick, S.Taludkar, M.Alsubin, **M.K.Al Mesfer**, Shahfahad,T.H. Hoang, A.Rahman, Geocarto International, 1-35, **2021**.
- J. Mallick, **M.K. Al Mesfer**, V.P. Singh, I.I. Falqi, C.K. Singh, N.B. Kahla, Atmosphere, 12, 5, 1-12, **2021**.
- I.Albaik, R. Al-Dadah, S.Mahmood, **M.K. Al Mesfer**, M.A. Ismail, Thermal Science and Engineering Progress, 22, 100859, **2021**.
- M.Danish, V. Parthasarthy, **M.K.Al Mesfer**, Carbon Letters, **2021**.
- J. Mallick, A.Kumar, **M.K.Al Mesfer**, M. Alsubin, C.K.Singh, M.Ahmed, R.A.Khan, Arabian Journal of Geosciences, 14, 3, 1-17, **2021**.
- A. Amari, **M.K.Al Mesfer**, N.S.Alsaiari, M.Danish, A.M.Alshahrani, M.A.Tahoon, F.B.Rebah, International Journal of Electrochemical Science, 16, 210235, **2021**.
- M.Danish, V. Parthasarthy, **M.K. Al Mesfer**, International Journal of Environmental Research and Public Health, 18,16, 8497, **2021**.
- **M.K. Al Mesfer**, Applied Sciences, 11,15, 6789, **2021**.
- M. Danish, V. Parthasarthy, **M.K.Al Mesfer**, Materials, 14, 14, 3885, **2021**.
- M. Danish, **M.K. Al Mesfer**, K.B.Ansari, M.Hasan, A.Amari, B.Azeem, Energies, 14, 13, 3893, **2021**.
- J. Mallick, C.K. Singh, **M.K. Al Mesfer**, V.P.Singh, M. Alsubin, Water, 13,9, 1266, **2021**.

Development Program:

1. Strategic leadership - Basics of academic leadership Measurement and Evaluation in Higher Education
2. Attended Workshop on CAMSOL program.

Journal Reviewer and Editor

- Editor-in-Chief, **Frontiers in Engineering and Built Environment** (FEBE)
- Reviewer for **Journal of Radio Analytical and Nuclear Chemistry** (Springer)
- Reviewer of **Energy Science and Engineering** (John Wiley and Sons)
- Reviewer **of Environments, Developments and Sustainability** (Springer)
- Reviewer of **International Journal of Environmental Research** (Springer)
- Reviewer of **International Journal of Chemical Engineering** (Hindawi)
- Reviewer of **Journal of Chemistry** (Hindawi)
- Reviewer of **Journal of Environmental Chemical Engineering** (Elsevier)
- Reviewer of **Particulate Science and Technology** (Taylor and Francis)
- Reviewer of **Desalination and Water Treatment** (European Desalination Society)
- Reviewer of **Progress in Reaction Kinetics and Mechanism**

Dr. Hamed Nasser Mohsen Bin Harharah

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Education:

1999 Ph.D., Chemical Technology & Metallurgy University, Sofia, Bulgaria
1993 M.Sc., Chemical Engineering, Higher Institute of Chemical Technology, Bulgaria
1988 Diploma in Engineering, Engineering Institute for Foreign

Academic Experience:

KKU	Professor and Formerly Head of the Department	Department of Chemical Engineering	2012-Present	Full time
Hardramout University of Science & Technology	Assistant Professor	Department of Chemical Engineering	1999-2001	Full time

Certifications or Professional Registrations:

- Chairman of committee of Struggling the Oil Pollution-Foundation of Struggling Cancen-Hadrakout Mukalla

Non-academic Experience:

2002-2011 Certified Instructor at Yemen Petroleum Company -Yemen

Research Expertise and Interests

Petroleum and Refining, Fuel Technology

Honors, Awards and Grants

Determinability Certificates From:

1. Sunrise for Training & Consulting
2. Scientific Council for Systems & Applied Sciences
3. Communication Center for Training, Consulting & Human Development - RSHD
4. The University Presidency of HUST
5. Deanship of Engineering & Petroleum Faculty
6. Engineers of Yemen Petroleum Company

Publications

1. Use of Sodium Sulfite as Oxygen Scavenger to Reduce the Corrosion Rate of Boiler Steel Pipes, Faculty of Science Bulletin-Sana'a University Publications, vol. 23, 2010, pp 45-52
2. Use of Sodium Sulfite as Oxygen Scavenger to Reduce the Corrosion Rate of Boiler Steel Pipes, 2nd Int. Chem. Eng. Conf., 11-13 October 2010, University of Jordan, Amman, Jordan.

3. Study the Effect of 2-Amino-2-metyl-1-propanol as Oxygen Scavenger on the Corrosion of Boiler Steel Pipes, University of Aden Journal of Natural and Applied Sciences, V14 (3) 2010.
4. Study of 2-Amino-2-methyl-1-propanol Effect on Corrosion of Boiler Low Carbon Steel Pipes in Presence of O2 Scavenger, Al-Azhar University Engineering Journal (JAUES),Vol. 5, No. 2, Dec. 2010, pp156-162.
5. Characterization of the Yemen Diesel Fuel for Local Market and Comparison with European Specification, Hadramout University Journal of Natural and Applied Sciences, V(8), No.2 December 2011. PP 207-214.
6. Aloe vera as Promising Material for Water Treatment: A Review, Khadijah Mohammedsaleh Katubi, Abdelfattah Amari, Hamed N. Harhara, Moutaz M. Eldirderi, Mohamed A. Tahoon, Faouzi Ben Rebah Processes 2021, 9, 782. https://doi.org/10.3390/pr9050782, MDPI.
7. Photocatalytic Treatment ofWastewater Containing Simultaneous Organic and Inorganic Pollution: Competition and Operating Parameters Effects, Ahmed Amine Azzaz, Salah Jellali, Nasser Ben Harharah Hamed, Atef El Jery, Lotfi Khezami, Aymen Amine Assadi, Abdeltif Amrane, Catalysts 2021, 11, 855. MDPI.
8. 26. The Biocatalytic Degradation of Organic Dyes Using Laccase Immobilized Magnetic Nanoparticles, Norah Salem Alsaiari, Abdelfattah Amari, Khadijah Mohammed saleh, Katubi, Fatimah Mohammed Alzahrani, Hamed N. Harharah, Faouzi Ben Rebah, Mohamed A. Tahoon, Applied Sciences, Sep. 4 th , 2021, 11, 8216.

Symposium

- "Reforming, Politician Development, Economic, Social & cultural in Yemen"-The Arabic Center for Strategic Studies + ESCWA-United Nations – Beirut- Lebanon - 2006.
- "Struggling the Oil Pollution" – Association of Hadramout for Struggling Cancer- - Mukalla – 2007

Wrokshop

- Struggling of Hazards Chemicals – Hadramout Cancer Foundation- Mukalla, 15/9/2011
- Environmental Academic Research in Field of Chemicals, HCF & HUST-Mukalla 14/10/2011
- Montage of Learning Outcomes of Chemical Engineering Program- Faculty of Engineering Petroleum 17

Books

- The Properties, Classification and Evaluation of Crude Oil & its Derivatives", Dar Jareer of Publication & Distribution, Jordan,1st ed, 2001, ISBN 9789957381950, Arabic.
- Fundamentals in Thermodynamic and Physical Chemistry", King Fahd National Library During Publishing, ISBN 9786030337057, (Arabic)

Dr. Yasser Mohamed Fahmy

Rank: Professor

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Education:

1996	Ph.D. (Chemical Engineering) Cairo University, Egypt and Texas A&M University, US. (Sol-gel Catalyst Preparation for CO Conversion in Vehicles).
1992	M.S. (Chemical Engineering) Cairo University, Egypt, (Catalytic Alkylation on Zeolite)
2006	Diploma (Project Evaluation and Feasibility Studies) Faculty Economic and Political science, Cairo University, Egypt.
Academic Experience:	
2015-Present	**Professor,** Department of Chemical Engineering, King Khalid University, KSA**.**
2012-2015	Professor, Department of Chemical Engineering, National research center, Cairo, Egypt.

Non-academic Experience:

2006-2015 Consultant and general Manager at kimanil industrial consulting (Cairo, Egypt)

Certifications or Professional Registrations:

1. Register as Advisory in the basic and intermediate chemicals' industry, Engineering Association, Egypt.
2. Member of Egyptian Catalysts Society.
3. Member of the Six of October SME Society.
4. Register as TOT Certified by IBCT& NCLFD 2010**.**
5. Review of projects and business plan at Arab organization for Science and Technology.

International and internal training

- 2003**:** project cycle management including project monitoring and evaluation- organized by UNIDO and held at ICS-UNIDO, Italy.
- 2001**:** ASI –NATO on "Chemical Physics of Thin Film Deposition Processes
- 2004: Rapid Prototyping and Remote Manufacturing, ICS-UNIDO, Trieste, Italy.
- 2010: TOT in chemical Hazard Management certified byEG-Germany.

Honors, Awards and Grants:

- 2002-2003: Fellowship, International Center for Science and High Technology-United Nation Industrial Development Organization, ICS-UNDIO, Trieste, Italy.
- 2000: Fellowship, ENEA Trisaia Research Center, Energy Dept., Italy
- 1997: Fellowship, JICA [HITC] Tokyo, Japan**.**

Research Expertise and Interests
Catalysis for cleaner Technology including catalysts preparation, characterization, evaluation and kinetics of catalytic reaction.

Review Editor
Review of projects and business plan at Arab organization for science and technology.
Published book
2007: Compendium: Air Pollution Control technologies.

Publications

- S.A. El-Molla*,1, G.A. El-Shobaky, Y.M. Fahmy and H.G. El-Shobaky, Catalytic Conversion of Isopropanol and CO Oxidation in Presence of NiO Supported on Modified Cordierite, *The Open Catalysis Journal,* 2011, *4,* 9-17
- G.A. El-Shobakya, H.G. El-Shobakyb, Abdelrahman A.A. Badawy, Y.M. Fahmy , Physicochemical, surface and catalytic properties of nanosized copper and manganese oxides supported on cordierite, Applied Catalysis A: General *409– 410 (2011) 234– 238*
- Y.M.Fahmy, G.A.Fagal, Structural and Surface Characteristics of Cordierite Treated with a Mixture of NiO-Mn_2 O_3, World Applied Science Journal, 15 (10): 1382-1385, 2011.
- Y.M.Fahmy, G.A.Fagal, N. A. Hassan, EDX, XRD and Surface Investigations of Fe_2O_3-Mn_2O_3 /Cordierite System, World Applied Science Journal (2012).
- Y.M. Fahmy et al, Cordierite as catalyst support for nanocrystalline CuO/Fe_2O_3 System, Materials Research Bulletin 41 (2006) 1701-1713
- Y.M. Fahmy et al, Nickel cuprate supported on Cordierite as an active catalyst for CO Oxidation by O_2 , Applied Catalysis B: Environmental 63 (2006) 168-177
- Y.M. Fahmy and Wafaa Rashwan, Copper and Cobalt oxides supported on modified starch and their catalytic activities in H2O2 Decomposition, Egyptian J.of Appl. Sci., (2B) 2006.
- Selim, M.M, W.E. Rashwan and Y.M. Fahmy, The Effect of Loading Sequence on the Catalytic Properties of Mn_2O_3/ Cuo/Al_2O_3 System, Egyptian J. of Appl. Sci., 22 (3) 2007

Dr. Ihab Mohamed Taha Shigidi

Rank: Assistant Professor **Address:** Department of Chemical Engineering
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Education:

2007	Ph.D. in Chemical Engineering, Loughborough University, Department of Chemical Engineering, United Kingdom
2003	M.Sc. in Advanced Process Engineering, Loughborough University Department of Chemical Engineering, United Kingdom
2000	B.Sc. in Chemical Engineering Technology,University of Gezira Faculty of Science and Technology, Sudan

Academic Experience:

2014-Present	Director, College of Engineering Research Centre, King Khalid University, KSA
2011-2014	Head of Department of Chemical Engineering, College of Engineering, King Khalid University, KSA
2011-Present	Assistant Professor, Department of Chemical Engineering, King Khalid University, KSA
2008-2011	Assistant Professor, Postgraduate Studies Coordinator, Department of Chemical Engineering, Al-Neelain University, Sudan
2007-2011	Deputy Director, MSc Instructor, Centre for Engineering & Technical Studies (CETS)

Non-academic Experience:

2009-2011 Senior Chemical Engineer Consultant, Centre for Engineering & Technical Studies (CETS)

Certifications or Professional Registrations:

1. Associate Member of Institute of Chemical Engineers (**AMIChemE**) UK.
2. Member of the American Institute of Chemical Engineers (**MAIChE**) USA.
3. Member of European Membrane Society (**MEMS**) EU.
4. Member of Society of Chemistry and Industry (**MSCI**). UK.
5. Junior member of the Isaac Newton Institute for Mathematical Sciences UK.
6. Full Member of Sudanese Engineering Society, (**MSES**), Sudan.
7. Registered as 'Specialist Engineer' within Sudan Engineering Council, (**SEC**) Sudan.
8. Fellow of International Science Congress Association (**FISCA**), India.
9. Member of the American Association of Science and Technology, (**MAASCIT**), USA.

Research Expertise and Interests:

Separation Technology, Membrane Technology, Computational Fluid Dynamics (CFD) and Filtration

Honors, Awards and Grants:

1. Prize money offered by Amipharma Laboratories Ltd. for services to the company setting the ISO 9001 standards, 2002.
2. PhD Studentship from the Chemical Engineering Department, Loughborough University and the Engineering and Physical Sciences Research Council (EPSRC), 2004-2007.

Funded Projects

- 2019 A funded project by King Khalid University, Deanship of Scientific Research, Titled 'Experimental and Modelling Investigations on different Saudi Natural Resources' and their Industrial Applications' allocated budged 10,000 KSA Riyals (Role : Co-PI).
- 2019-2020 A funded project by King Khalid University, Deanship of Scientific Research, Titled 'Numerical and Experimental Evaluation of Locally Fabricated Solar Still Used for Enhancing Water Desalination in Abha' allocated budged 100,000 KSA Riyals (Role : PI).
- 2021- to date A funded project by King Khalid University, Deanship of Scientific Research, Titled 'Removal of heavy metals and dyes from wastewater using novel separation technologies' allocated budged 100,000 KSA Riyals (Role :Co-PI).
- 2021- to date A funded project by King Khalid University, Deanship of Scientific Research, Titled 'Physical and Chemical Properties of various food additives and their environmental impact' allocated budged 100,000 KSA Riyals (Role :Co-PI).
- 2021- to date A funded project by Najran University, Deanship of Scientific Research, Titled 'Analysis of Energy Savings Performance at Different HRATs in HENs Using Paths Combination Approach' allocated budged 30,000 KSA Riyals (Role :Consultant).

Publications

- Haitham Osman, Ihab Shigidi and Amir Arabi (March 2019) Multiple Modelling Techniques for Assessing Sesame Oil Extraction Under Various Operating Conditions and Solvents, Foods, 2019, 8, (4) 142
- Jamel Madiouli, Ashraf Lashin, Ihab Shigidi, Irfan Anjum Badruddin Magami and Amir Kessentini (January 2020) Experimental Study and Evaluation of Single Slope Solar Still Combined With Flat Plate Collector Parabolic Trough and Paced Bed, Solar Energy, 2020, 196C, 358-366.
- Ihab Shigidi, etal., (February 2020) Waste Engine Oil Remediation Using Low Cost Natural Clay Absorbent Material, International Journal of Engineering (IJE) Transactions B: Applications, 33, 178-185.
- Haitham Osman, Jamal Madiouli and Ihab Shigidi (November 2020) Statistical Analysis and Mathematical Modelling of Modified Single Slope Solar Still, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects. 42, (24), 1-19,
- A. Kraiem, J. Madiouli, J. Sghaier and I. Shigidi (Feb 2021). Significance of Bed Shrinkage on Heat and Mass Transfer during the Transport Phenomenon of Humid Air. Arabian Journal of Science and Engineering. Feb 2021.
- Abubakr Elkhaleefa, Ismat Ali, Eid Brima, Ihab Shigidi, Elhag A. and Babiker Karama (2021) Evaluation of adsorption efficiency on the removal of lead (II) ions from aqueous solutions using Azadirachta Indica leaves as an adsorbent. Processes 2021, 9(3), 539.

Dr. Atef El Jery

Rank: Assistant Professor

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Education:

2010	Ph.D., University of Gabes (UG), National School of Engineers of Gabes (ENIG), Tunisia 2011
2001	M.Sc., Chemical Engineering, National School of Engineers of Gabes (ENIG)
1998	B.Sc., Chemical Engineering, National School of Engineers of Gabes (ENIG)

Academic Experience:

2014-Present	Assistant Professor, Department of Chemical Engineering, King Khalid University, Kingdom of Saudi Arabia.
2011-2014	Assistant Professor, University of Gabes, Department of Agrolimentary, Superior Institute of Applied Biological, Medenine (ISBAM), Tunisia.
2001-2011	Lecturer, Department of Chemical Engineering, Superior Institute of Technological Studies, Gabes, Tunisia

Non-Academic Experience:

2008-2009 Engineer, Production Department, Gabes-Cements Factory

Research Expertise and Interests

Heat transfer, Momentum transfer, Renewable energies, extraction and characterization of essential oils, Computational Fluid Dynamics and coupling transfer phenomena.

Honors, Awards and Grants:

King Khalid University - Abha, Saudi Arabia, under grants R.G.P.1/370/1438 - R.G.P.1/144/40 – R.G.P.1/204/1441 - R.G.P.1/257/1442 - R.G.P.1/195/1442 -R.G.P.1/206/1442.

Publications:

Journal papers

- Co-author. Catalysts 2021, 11(12), 1498
- Co-author. Journal of Environmental Management, 299, 1/12/2021, 113588
- Co-author. Journal of Water Process Engineering, 42, August 2021, 102089
- Co-author. Catalysts 2021, 11(7), 855
- Co-author. Environmental Science and Pollution Research, https://doi.org/10.1007/s11356-021-16625-0.
- Author. Asian Biomed (Res Rev News) 2020; 14(6):1–10.
- Co-author. Processes. 8(10), 1233 August 2020.
- Co-author. Environmental Science and Pollution Research. December 2019. https://doi.org/10.1007/s11356-019-07279-0
- Co-author. Journal of Engineering Technology 8 (2), 60-72. 2019.
- Co-author. Polymer Testing. 77, August 2019.
- Co-author. Journal of the Indian Chemical Society. 96 (5), 615-621, 2019.

- Author. Journal of Essential Oil-Bearing Plants. TEOP 21 (4) 1096 – 1106, 2018
- Author. Internal Journal Review of Physics. (IREPHY) Vol 10, No 2, 42-49, 2016.
- Co-author. Sadhana © Indian Academy of Sciences, Vol. 35, Part 2, pages 1–14, Avril 2010.
- Co-author. Journal of Heat and Mass Transfer, Vol. 3, No. 2, Pages 147 – 166, Juin 2009.
- Co-author. Revue des Energies Renouvelables UNESCO, vol. 6, No. 1, pages 1-14, 2003.

Conferences

1. Co-author. 5th International Renewable Energy Congress (IREC), 25-27 March 2014 Hamamat, Tunisia.
2. Co-author. International Conference on Mechanics and Energy, March 18-20, 2014 Monastir, Tunisia.
3. Author.5th International Congress on Medicinal and Aromatic Plants, Zarzis 17 to 20 March 2014.
4. Co-author. 5th International Congress on Medicinal and Aromatic Plants, Zarzis 17 to 20 March 2014.
5. Co-author. International Chemical Engineering Congress, Djerba 16-19 December 2013.
6. Co-author. 16èmes Journées Internationales de Thermique, Marrakech (Maroc), 13 -15 Novembre, 2013.
7. Co-author. International Symposium on Computational and Experimental Investigations on Fluid Dynamics, 18-20 mars 2013, Sfax, Tunisia.
8. Co-author. Third International Conference on Applied Energy 16-18 May 2011 - Perugia, Italy.
9. Author. Third International Conference on Applied Energy - 16-18 May 2011 Perugia, Italy.
10. Author. Fifth International Conference on Thermal Engineering: Theory and Applications May 10-14, 2010, Marrakesh, Morocco.
11. Author. 1er Colloque International sur l'Energie. CIE'2009. 20-22 Mai 2009 Gafsa Tunisia.
12. Author. 14^{ièmes} Journées Internationales de Thermique, JITH2009, 27-29 Mars, 2009, Djerba, Tunisia.
13. Co-author. Int. Symp. On Convective Heat and Mass Transfer in Sustainable Energy Avril 26 – May 1, 2009, Tunisia.
14. Author. Int. Symp. OnConvective Heat and Mass Transfer in Sustainable Energy Avril 26 – Mai 1, 2009, Tunisia.
15. Author. 4ième editions des Journées Universitaires Côtes d'Armor/Gabès du 9 au 11 mai 2005 à Saint Brieuc, France.
16. Author. 3^{ièmes} Journées Tunisiennes sur les Ecoulements et les Transferts, JTET 2000, Mahdia, 4-6.

Patten

- 2003, Patent, Title of the invention: Solar distiller. N° 17806 - (INORPI). (http://www.innorpi.tn/Fra/brevet_78_265_D_4105)

Dr. Amari Abdelfattah

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Education:

2010	Ph.D., Chemical Engineering, National School of Engineers, Tunisia
2000	Masters in Chemical Engineering, National School of Engineers, Tunisia
1997	Certificate of Advanced Studies of Chemical Engineering and Processes, National School of Engineers, Tunisia
1996	License of Physical Sciences, University of Sfax, Faculty of Sciences, Tunisia
1993	University Degree of Scientific Studies of Physics and Chemistry, University of Sfax, Faculty of Sciences, Tunisia
1989	Baccalaureate Degree of Mathematics and Sciences, Secondary School, Gabes-Tunisia

Academic Experience:

2014-Present	Assistant Professor, King Khalid University, College of Engineering, Department of Chemical Engineering, Kingdom of Saudi Arabia.
2011-2014	Assistant Professor, University of Gafsa, Higher Institute of Energy Sciences and Technology, Department of Energy, Tunisia
2009-2010	Lecturer, University of Gabes, National School of Engineers, Department of Chemical Engineering and Processes, Tunisia
2003-2009	Technologist Assistant, Higher Institute of Technological Studies of Gabes, Department of Chemical Engineering, Tunisia
1999-2003	Lecturer,Higher Institute of Technological Studies of Gabes, Department of Chemical Engineering, Tunisia.
1997-1999	Lecturer, University of Gabes, Preparatory Institute of Engineering Studies, Department of Physics - Chemistry, Tunisia

Research Expertise and Interests

Chemical Reaction Engineering, Wastewater Treatment by physicochemical methods, Treatment of liquid and gaseous effluents, Valorization of clay resources in the purification of water and air, Research in environmental pollution

Honors, Awards and Grants

Ministry of education (KSA), supervision of research project for the student: Mohammed AlGhaseb, from school in Abha, KSA.

Journal Reviewer and Editor

1. Environmental Science & Technology
2. Chemical Engineering Communications
3. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.
4. Particle Science and Technology

Publications

- Mohd Danish, Mohammed K. Al Mesfer, Khursheed B. Ansari, Mudassir Hasan, **Abdelfattah Amari** and Babar Azeem. Energies 14(13), 3893, (**2021**).
- Norah Salem Alsaiari, **Abdelfattah Amari**, Khadijah MohammedsalehKatubi, Fatimah Mohammed Alzahrani, Hamed N. Harharah, Faouzi Ben Rebah and Mohamed A. Tahoon. Applied Sciences, 11(17), 8216, **2021**.
- Noureddine Mahdhi, Norah Salem Alsaiari, Fatimah Mohammed Alzahrani, Khadijah MohammedsalehKatubi, **Abdelfattah Amari** and Saber Hammami. Water 13(18), 2591, (2021).
- Khurram Shahzad, Muhammad Imran Khan, Abdallah Shanableh, Noureddine Elboughdiri, ShaziaJabeen, Muhammad Altaf Nazir, Nosheen Farooq, Hassan Ali, **Amari Abdelfattah** and Aziz Ur Rehman. Chemistry 51(9), 1147-1296, (2021).
- **Abdelfattah Amari**, Fatimah Mohammed Alzahrani, Khadijah MohammedsalehKatubi, Norah Salem Alsaiari, Mohamed A. Tahoon and Faouzi Ben Rebah. Materials 14(6), 1365, **2021**.
- Norah Salem Alsaiari, **Abdelfattah Amari**, Khadijah MohammedsalehKatubi, Fatimah Mohammed Alzahrani, Faouzi Ben Rebah and Mohamed A. Tahoon. Processes 9(4), 576, **2021**.
- **Abdelfattah Amari**, Fatimah Mohammed Alzahrani, Norah Salem Alsaiari, Khadijah MohammedsalehKatubi, Faouzi Ben Rebah and Mohamed A. Tahoon. Processes 9 (5), 774, **2021**.
- Khadijah MohammedsalehKatubi, Fatimah Mohammed Alzahrani, Norah Salem Alsaiari, **Abdelfattah Amari**, Faouzi Ben Rebah and Mohamed A Tahoon. Processes 9(5), 818, 2021.
- Khadijah MohammedsalehKatubi, Abdelfattah Amari, Hamed N. Harharah, Moutaz M. Eldirderi, Mohamed A. Tahoon and Faouzi Ben Rebah. Processes 9(5), 782, **2021**.
- Fatimah Mohammed Alzahrani, Norah Salem Alsaiari, Khadijah MohammedsalehKatubi, **Abdelfattah Amari**, Faouzi Ben Rebah and Mohamed A. Tahoon. Polymers. *13(11)*, 1742, **2021**.
- Norah Salem Alsaiari, Fatimah Mohammed Alzahrani, Khadijah MohammedsalehKatubi, **Abdelfattah Amari**, Faouzi Ben Rebah and Mohamed A. Tahoon. Applied Sciences, 11(12), 5630, **2021**.
- Fatimah Mohammed Alzahrani, Norah Salem Alsaiari, Khadijah MohammedsalehKatubi, **Abdelfattah Amari**, Abubakr M. Elkhaleefa, Faouzi Ben Rebah and Mohamed A. Tahoon. Molecules, *26(16)*, 4809, **2021**.
- Abdelfattah Amari, Mohammed K. Al Mesfer, Norah Salem Alsaiari, Mohd Danish,Ali M. Alshahrani, Mohamed A. Tahoon, and Faouzi Ben Rebah. ***International Journal of Electrochemical Science,*** 16, (2021).
- Saifeldin M. Siddeeg, **Abdelfattah Amari**, Mohamed A. Tahoon, Norah Salem Alsaiari, Faouzi Ben Rebah. ***Alexandria Engineering Journal,*** 59, 905–914, **2020**.
- Mohammed K. Al Mesfer, **Abdelfattah Amari**, Mohd Danish, Basem Abdullah Al Alwan&Mumtaj Shah.***Chemical Engineering Communication,*****2020**.
- **Abdelfattah Amari**, BasemAlalwan, Saifeldin M. Siddeeg, Mohamed A. Tahoon, Norah Salem Alsaiari, and Faouzi Ben Rebah. ***International Journal of Electrochemical Science,*** 15, 11427 – 11436 (2020).

Dr. Moutaz Mustafa Abdelrahman Eldirderi

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Education:

2010 **Ph.D.**, Sudan University of Science and Technology, sudan

Academic Experience:

2012-Present	Assistant Professor, Department of Chemical Engineering, King Khalid University, Abha, Kingdom Saudi Arabia
2011-2012	Assistant Professor, Department of Chemical Engineering, Red Sea University, Sudan
2010-2011	Assistant Professor, Department of Chemical Engineering, Sabha University, Libya
2010-2010	Assistant Professor, Department of Chemical Engineering, Red Sea University, Sudan
2004-2010	Lecturer, Department of Chemical Engineering, Red Sea University, Sudan

Non-academic Experience:

2006-2007	Process Consultant at FUCHS Oil Plant (Khartoum, Sudan)
1999-2001	Process Engineers at AMAN GAS (Khartoum, Sudan)
2011-2016	Quality activates

Publications

- Modelling and Control of the Crude Atmospheric Unit in Khartoum Refinery Jsr.net ID: SUB153640
- The separation of a binary water/ethanol solution via a continuous feed distillation column as a function of feed stage location and reflux ratio Jsr.net ID: NOV152084
- Cactus material-based adsorbents for the removal of heavy metals and dyes PUBLISHED 23 December 2019, Mater. Res. Express 7 (2020) 012002
- Waste Engine Oil Remediation Using Low Cost Natural Clay Absorbent Material IJE TRANSACTIONS B: Applications Vol. 33, No. 2, (February 2020) 178-185
- Aloe vera as Promising Material for Water Treatment, Processes 2021, 9, 782,MDPI

Dr. Haitham M. O. A. Osman

Rank: Assistant Professor

Address: Department of Chemical Engineering,
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Abha, Kingdom of Saudi Arabia

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Email: **haman@kku.edu.sa**

Education:

2005	**Ph.D.**, University of Newcastle, Newcastle Upon Tyne, United Kingdom
1998	**M.Sc.,** University of Newcastle, Newcastle Upon Tyne, United Kingdom
1996	**B.Sc.,** University of Khartoum, Sudan

Academic Experience:

2011-Present	Assistant Professor at King Khalid University, Abha, KSA
2007-2011	Assistant Professor at University of Science and Technology (UST), Sudan

Non-academic Experience:

2006-2007	Process Consultant at FUCHS Oil Plant (Khartoum, Sudan)
1999-2001	Process Engineers at AMAN GAS (Khartoum, Sudan)

Certifications or Professional Registrations:

1. Associate Member of Institute of Chemical Engineers (**AMIChemE**) UK.
2. Member in IEEE

Research Expertise and Interests

Process Modeling, Control and Optimization, Lube oil recovery, Energy and environment modeling

Honors, Awards and Grants:

1996, Best graduation project award, 5th Year, University of Khartoum Sudan

Publications

1. Recent Book:' Evolutionary Algorithms: Tuning Model Base Predictive Control' (ISBN: 978-3844318548)
2. OSMAN, H. LQ evolution algorithm optimizer for model predictive control at model uncertainty Control, Automation and Systems (ICCAS), 2014 14th International Conference on IEEE
3. Recent Book:' Evolutionary Algorithms: Tuning Model Base Predictive Control' 2013
4. Osman, Haitham. "LQ evolution algorithm optimizer for model predictive control at model uncertainty." Control, Automation and Systems (ICCAS), 2014 14th International Conference on. IEEE, 2014
5. Osman, Haitham. "Modeling and PID control optimization for the crude oil network storage tanks." Control, Automation and Systems (ICCAS), 2016 16th International Conference on. IEEE, 2016
6. Osman, Haitham, IhabShigidi, and AbubakarElkaleefa. "Optimization of Sesame Seeds Oil Extraction Operating Conditions Using the Response Surface Design Methodology." Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, and Food Industry 17.4 (2016): 335-347.

7. Osman, H. M. "Optimizing Model Base Predictive Control for Combustion Boiler Process at High Model Uncertainty." Chemical and biochemical engineering quarterly 31.3 (2017): 313-324
8. Osman, Haitham "Constrained Modified Genetic Algorithm for Optimizing RICE Climate Change Model Policy "American Journal of Applied Sciences October 2017,14(10):945-954
9. H Osman, I Shigidi, A Elkhaleefa, I Ali, E Brima, B Al Alwan, Ni (II) removal using date seed powder biosorbent: Process parameters classification and RSM modeling Journal of the Air & Waste Management Association 72 (1), 76-84(2022)
10. A Arabi, H Osman ,Optimal Design Parameters of Exhaust Valve Spring in IC Engines Using Metaheuristic Algorithms2021 21st International Conference on Control, Automation and Systems (ICCAS2021
11. NS Alsaiari, KM Katubi, FM Alzahrani, A Amari, H Osman, FB Rebah, Synthesis, characterization and application of polypyrrole functionalized nanocellulose for the removal of Cr (VI) from aqueous solutionPolymers 13 (21), 3691 (2021)

Journal Reviewer and Editor
Fuel, Applied Science MDPI, Canadian Chemical engineering

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Education:

2006	**Ph.D.**, University of Bradford, United Kingdom
2002	**BEng.,** University of Bradford, United Kingdom

Academic Experience:

2011-Present	Assistant Professor at King Khalid University, Abha, KSA
2007-2009	Senior Lecturer, Department of Polymer Engineering, Universiti Teknologi Malaysia (UTM), Malaysia

Non-academic Experience:

1999-2000 Trainee Chemical Engineer, Mockton Coke and Chemicals Company, Barnsley, England

Certifications or Professional Registrations:

Associate Member of the Institute of Chemical Engineering, AMIChemE

Research Expertise and Interests

Corrosion Inhibition and Corrosion Control, Adsorption of various pollutants from aqueous solutions using different adsorbents

Honors, Awards and Grants:

In 2007, funding of RM 30.000 Malaysian Ringgit was awarded for research in the field of conductive polymers for corrosion protection of steel

Reviewed several papers for:

1. Arabian Journal of Chemistry
2. Iranian Journal of Chemistry and Chemical Engineering
3. NTC Annual conference in Egypt.

Publications

- Ismat H. Ali, Mohammad I. Khan, Alhafez M. Alraih, Mohammed K. Almesfer, Abubakr Elkhaleefa, Saif M.Dmour, Mohammad Rehan, Int. J. Electrochem. Sci., 16 (***2021***) Article ID: 210842, doi: 10.20964/2021.08.49.
- Hamayoun Mahmood, Ahmad Shakeel, Ammar Abdullah, Muhammad Ilyas Khan and Muhammad Moniruzzaman, Polymers, ***2021***, 13, 2504.
- Mohammed Ilyas Khan, Materials Research Express, 7, ***2020***, 055 507.
- Mohammed K. Al Mesfer, Mohd Danish, Mohammed Ilyas Khan, Ismat Hassan Ali, Mudassir Hassan, Atef El Jery, Processes, vol.8, no. 10, ***2020***, 1233.
- Mohammed K. Al Mesfer, Mohd Danish, Ismat Hassan Ali, Mohammed Ilyas Khan, Heat and Mass Transfer, ***2020***

- Shigidi, H. Osman, M. Eldirderi, M. Ilyas Khan, A. Elkhaleefa, D. Dhanapal, M. Al Mesfer, IJE Transactions B: Applications, vol.33, no. 2, ***2020***, pp. 178-185.
- Maryam Chafiq, Abdelkarim Chaouiki, Hassane Lgaz, Rachid Salghi, K. Vijaya Bhaskar, Riadh Marzouki, K. Subrahmanya Bhat, Ismat H. Ali, Mohammad I. Khan, Ill-Min Chung, Materials Chemistry and Physics 243 (***2020***) 122582.
- Hassane Lgaz, Abdelkarim Chaouiki, Mustafa R. Albayati, Rachid Salghi, Yasmina El Aoufir, Ismat H. Ali, Mohammad I. Khan, Shaaban K. Mohamed, Ill-Min Chung, Research on Chemical Intermediates, ***2019***, Volume 45, 4, 2269–2286. ***Q2***, IF = 2.054.
- Maryam Chafiq, Abdelkarim Chaouiki, Hassane Lgaz, Rachid Salghi, Santosh L. Gaonkar, K. Subrahmanya Bhat, Riadh Marzouki, Ismat H. Ali, Mohammad I. Khan, Hiroki Shimizu & Ill-Min Chung, Journal of Adhesion Science and Technology, ***2019***.
- Walid Guerrab, Ill-Min Chung, Sevgi Kansiz, Joel Mague, Necmi Dege, Jamal Taoufik, Rachid Salghi, Ismat H. Ali, Mohammed I. Khan, Hassane Lgaz, Youssef Ramli, Journal of Molecular Structure, 1197, ***2019***, Pages 369-376. ***Q3***, IF = 2.120
- H. Lgaz, S. Zehra, K. Toumiat, A. Chaouiki, Y. El Aoufir, Ismat. H. Ali, M. I. Khan, R. Salghi, I-M. Chung, *International Journal of Electrochemical Science,* 14, ***2019***, 6699 – 6721. ***Q3***, IF = 1.284
- Hassane Lgaz, Ill-Min Chung, Rachid Salghi, Ismat H. Ali, Abdelkarim Chaouiki, Yasmina El Aoufir, Mohammad I. Khan, Applied Surface Science, 463 ***2019***, 647 – 658. ***Q1***, IF = 5.155
- H. Lgaz, S. Zehra, M. R. Albayati, K. Toumiat, Y. El Aoufir, A. Chaouiki, R. Salghi, Ismat. H. Ali, M. I. Khan, I-M. Chung, S. K. Mohamed, *International Journal of Electrochemical Science,* 14 ***2019***, ***Q3***, 6667 – 6681.
- Ismat H. Ali, Mohammed K. Al Mesfer, Mohammad I. Khan, Mohd Danish and Majed M. Alghamdi, *Processes, **2019**,* 7, 217. ***Q2***, IF = 1.963
- M.I. Khan, M.K. Almesfer, I.H. Ali, H. Shoukry, M.A.Sayed, R. Patel, J. Gardy, A.S. Nizami, M. Rehan, Desalination and Water Treatment, 158, ***2019***, 140 – 151. ***Q2***, IF = 1.234
- Abdelkarim Chaouiki, Hassane Lgaz, Saman Zehra, Rachid Salghi, Ill-Min Chung, Yasmina El Aoufir, K. Subrahmanya Bhat, Ismat H. Ali, Santosh L. Gaonkar, Mohammad I. Khan, Hassan Oudda. Journal of adhesion Science and Technology, 33, (9), ***2019***, 921 – 944. ***Q2,*** IF = 1.210
- M.I. Khan, A. Amari, A. Mustafa, Ismat H. Ali, Saviour A. Umoren and A. Madhan Kumar,*International Journal of Electrochemical Science*, 13 (***2018***) 7385 – 7396. ***Q3,*** IF = 1.284
- Abdelfattah Amari, Hatem Gannouni, Mohammad I. Khan, Mohammed K. Almesfer, Abubakr M. Elkhaleefa and Abdelaziz Gannouni, Applied Sciences, ***2018***, 8, 2303. ***Q1***, IF = 1.484
- A. Chaouiki, H. Lgaz, Ill-Min Chung, I.H. Ali, S.L. Gaonkar, K.S. Bhat, R. Salghi, H. Oudda, M.I. Khan,Journal of Molecular Liquids, 266 (***2018***) 603 – 616. ***Q1***, IF = 4.561

Dr. Muhammad Arshad

Rank: Assistant Professor

Address: Department of Chemical Engineering,
King Khalid University,
Abha, Kingdom of Saudi Arabia

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Education:

2008	Ph.D. in Earth Systems & Geoinformation Sciences (ESGS), George Mason University, Fairfax, VA, 2008
2002	M.S. in Environmental Engineering, George Washington University, Washington DC
1989	B.Sc. in Chemical Engineering, University of Engineering & Technology Lahore, Pakistan

Academic Experience:

2011- Present	Assistant Professor, Department of Chemical Engineering, King Khalid University, Abha, Kingdom of Saudi Arabia
2009-2011	Assistant Professor (Research), Institute of Space Technology, Islamabad,
1996-2000	Assistant Professor, Department of Chemical Engineering, NWFP University of Engineering & Technology, Peshawar, Pakistan

Non-academic Experience:

2007-2008	Student Employee, George Mason University at USGS National Center
1991-1996	Industrial Facilities Technical Inspector, Directorate of Labor Welfare, Peshawar, Pakistan
1991-1992	Engineering Intern, Spintex Polyester Industries, Mirpur, Azad Kashmir, Pakistan
1989-1991	Quality Assurance Specialist, Rachana Glass, Lahore, Pakistan

Certifications or Professional Registrations:

1 Remote Sensing of the Environment (RSE)
2 Int. Journal of Remote Sensing (IJRS)
3 Sustainable cities and society
4 Participated in Quality Matters offered by the King Khalid University. Enrolled for Peer Reviewers course

Honors, Awards and Grants:

Grants:

1. Research Grant is received for "Investigation of Lake Abha for Eutrophication problem through remote sensing and field techniques" from King Khalid University, Abha, Saudi Arabia.
2. Research Grant is received for "Determination of nature and extent of pollutants in the effluents of industrial estate Hayatabad, Peshawar, Pakistan" from NWFP University of Engineering & Technology, Peshawar, Pakistan

Research Projects

Mar 2017- Analyzing the Impact of Jazan Economic City (JEC) on the Mangrove

May 2018	Forests through Satellite Remote Sensing at Baish, Jazan, Saudi Arabia.
Sept 2013-	Title: Investigation of Lake Abha for Eutrophication problem through
Sept 2014	remote sensing and field techniques (SUCCESSFULLY COMPLETED)
1998-	Department of Chemical Engineering
2000	NWFP University of engineering & technologynPeshawar, Pakistan

Publications

Research Papers:

- Al-Sodany, Y.M.; Saleh, M.A.; Arshad, M.; Abdel Khalik, K.N.; Al-Bakre, D.A.; Eid, E.M. *Sustainability* 2022, *14*, 1. https://doi.org/10.3390/su14010001.
- Abdellatif, M. A., El Baroudy, A. A., **Arshad, M.**, Mahmoud, E. K., Saleh, A. M., Moghanm, F. S., & Shokr, M. S. (2021). Sustainability, 13(23), 13438.
- Farahat, E.A. Mahmoud, W.F. Awad, H.E.A. Farrag, H.F. **Arshad, M.** Eid, E.M. Fahmy, G.M (2021). Sustainability 13: https://doi.org/10.3390/su131910558.
- Salah, Dina, Farahat S. Moghanm, **Muhammad Arshad**, Abdulaziz A. Alanazi, Salman Latif, Maie I. El-Gammal, Elmahdy M. Shimaa, and Salah Elsayed. Diagnostics 11, no. 7 (2021): 1196.
- **Muhammad Arshad**, Khaled M. Khedher, Ebrahem M. Eid, Yusuf A. Aina (2021). Saudi Arabia. Urban Climate, Volume 36, 1-14.
- **Muhammad Arshad**, Khaled Mohamed Khedher, Hamdi Ayed, Abir Mouldi, Farahat S. Moghanm, Mohamed Hechemi El Ouni, Nabil Benkahla, Essaied Laatar, Muhammad Bilal & Mohamed Abdel Zaher (2020). Carbon Management, 1-14.
- Khalid A. Ibrahim, Essameldin I. Warrag, Sara A. M. Ebraheem, **Muhammad A. Khan**, Khaled F. Fawy, Ali A. Ateeg, Abubar M. Idris (2020). Fresenius Environmental Bulletin, 29(5), 3940-3951.
- Eid, E. M., Khedher, K. M., Ayed, H., **Arshad, M.,** Mouldi, A., Shaltout, K. H. & Alshehri, A. M. (2020). International Journal of Environmental Health Research, 1-15.
- **Arshad, M.,**Eid, E. M., & Hasan, M. (2020). Environmental Monitoring and Assessment, 192(3), 1-15.
- Soomro, A. G., Babar, M. M., **Arshad, M.,** Memon, A., Naeem, B., & Ashraf, A. (2020). Acta Geophysica, 68(1), 219-228.
- Eid, E.M., **Arshad, M.,** Shaltout, K. H., El-Sheikh, M. A., Alfarhan, A. H., Picó, Y., & Barcelo, D. (2019). Environmental research, 176, 108536.
- Idris, A. M., Said, T. O., Brima, E. I., Sahlabji, T., Alghamdi, M. M., El-Zahhar, A. **Arshad. M.**, & El Nemr, A. A. (2019). Fresen Environ Bull, 28, 6059-6069.

Book

- **Muhammad Arshad (2017)**. Remote Sensing Techniques for Locating Irrigation Canals Seepage Sites, Published by: Noor Publishing.

Patent

- Applied for "Improving the Accuracy of Canal Seepage Detection through Geospatial Techniques (Provisional Patent Application # 61/104,909)"

Dr. Mohamed Ismail

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Education:

2014	Ph.D. Chemical and Environmental Engineering, University of Nottingham, UK
2004	M.S. Chemical Engineering, Karary Academy of Technology, Sudan
1999	B.Sc. in Chemical Engineering, NasserUniversity, Libia

Academic Experience:

2016-Present	Assis. Professor at Department of Chemical Engineering, College of Engineering, King Khalid University, Saudi Arabia
2017 – present	Head of Academic Advising Unit, College of Engineering, King Khalid University
2015- present	Head of Metallurgical Engineering and Ceramics Department in the National Center for Research, Khartoum, Sudan
2014- 2016	**Assistant Professor** at Sudan Academy of Science, Ministry of Higher Education and Scientific Research, Sudan
2010-2014	Laboratory Demonstrator at the School of Chemical Engineering, unit operations; crystallizations, Department of Chemical Engineering, University of Nottingham, UK
2000	Teaching assistant, Introduction to Chemical Engineering I&II, Libya,
2013-2014	Teaching assistant, Mathematics I&II and general Chemistry for foundation year, UK

Non-Academic Experience:

2014- present	The representative of International Libyan Company for Renewable Energy (ILCRE) in the UK
2012-2013	A spokesman for the IDB Scholars Association, UK
2012	Represented the Islamic Development Bank at the 10th Anniversary of Developing Solutions Scholarship Program, Unversity of Nottingham, UK
2012	Organized a workshop for establishing the IDB Scholars Association in the UK, University of Nottingham
2010	Established the IDB Scholars Society at the University of Nottingham
2010-2012	The Coordinator of the IDB Scholars at the University of Nottingham
2007-2008	Former Director of the Institute of Materials and Electronics (MERI), National Centre for Research (NCR), Khartoum, Sudan
2006-2007	Former Head of Polymer & Composite Materials Department, Institute (MERI), National Centre for Research (NCR), Khartoum, Sudan,
2006	Diploma in Neuro – Linguistic Programming (NLP) ,Illaf Train, the Human Resource Development Leader (HRDL) , Khartoum, Sudan
2006	Assistant Practioner (AP), (NLP), (HRDL), Illaf Train, (HRDL), Khartoum,Sudan.

Research Experience:

- **Research Associate:** Faculty of Engineering, Department of Chemical and Environmental Engineering**,** *theUniversity of Nottingham*, Dec. 2013 – July 2014.

- **Research Assistant** (Mar.2010-Apr 2013)**:** Part-time, exploring suitable methodology to characterize the microstructure of large coke lumps using optical and SEM techniques using the same specimen.

Research Grants:

- **Prinpal Investigator,** Low Grade Waste-to-Energy Conversion for Electricity, Water Desalination and Cooling using Gasification, MOF Adsorption and Reverse Osmosis in the Kingdom of Saudi Arabia, Resaerch and Development Office, the Ministry of Education, Saudi Arabia, 2020 – 2023 ,(SAR1,764,750).
- **Prinpal Investigator** Developing the characteristics of carbon feed stock to a blast furnace and deveolping the process of iron production, , the National Center for Research, Minsistry of Higher Eduaction and Scintific Research, Sudan, 2015-2018, (SDP 2,000,000)

Professional Memberships

- ACS member No. **31187855.**
- AIChE member No. **9901962097**
- Associate member of the Institution of Chemical Engineers **(AMIChemE)**, UK.
- Advancing Chemical Engineering Worldwide (IChemE) (membership no: **15596**)
- Member of Minerals Engineering Society, UK
- Member of Federation of Sudanese Engineers (**FSE**), Sudan
- Member of Sudanese Engineering Society (**SES**), Sudan.
- Member of Sudanese Environment Conservation Society (**SECS**), Sudan.
- Co-establishing member of Sudanese Occupational Safety Society (**SOSS**), Sudan.

Honors, Awards and Grants:

Oct 2013	Coal Research Forum (CRF), (http://www.coalresearchforum.org/), travel bursary to deliver an oral presentation at the International Scientific Conference at the University of Pennsylvania, US
Oct 2010	Coal Research Forum (CRF), travel bursary to deliver an oral presentation at the International Scientific Conference in the University of Leeds, UK.

Publication and Reports

- Lu Z, Jafar A, Mahmoud S, Al dadah R, Albaik I, **Ismail M**, International Conference on Applied Energy, Bangkok, Thailand, December 2021.
- Alamri A. Yassir, Albaik Ibrahim, Mahmoud Saad, Aldadah, **Ismail A**. Mohamed, Energy Conversion Management, Volume 239, 114235, July 2021.
- Albaik I., Aldadah R., Mahmoud S., Almesfer M., **Ismail M**., Thermal Scince and Engineering Progress, Voulme 22, 100859, May 2021.
- Mudassir H., Mhammad M. Hossain, Mohammed K AlMesfer, **Ismail M**., Polymer Science, Series B,61, 353-662, November 2019.

Dr. Mudassir Hasan

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Education

2010– 2014Ph. D., Chemical Engineering, Yeungnam UniversitySouthKorea
2008 - 2010 M.Tech., Chemical Engineering, Indian Institute of TechnologyRoorke, India

Academic Experience:

September 2017 – Present	Assistant Professor, King Khalid University Abha KSA
March 2015- June 2016	Assistant Professor,Yeungnam University Korea South
Sept. 2014- Feb. 2015	Postdoctoral Research Fellow**,** Yeungnam University Korea South
Job Responsibility	Development of Polymer nanocomposite for enhanced electrical conductivity
March 2013- June 2014	Research AssistantYeungnam University Korea
Job Responsibility	Research on PVC based nanocomposites for adsorption purposes.

Research Interest

- ✓ CNT, graphene and metal oxide based composite materials for technological applications.
- ✓ Nanocomposites synthesis for enhanced electrical conductivity and ammonia sensing purposes.
- ✓ Thermal stability under cyclic ageing conditions.
- ✓ Dynamic mechanical analysis
- ✓ Synthesis of nanofibers using simple facile deposition technique.
- ✓ Nanocomposites suitable for the application in adsorption of heavy metals from waste water.
- ✓ Polymer Nanocomposite thin films to improve electrical and optical properties.

Scholarship and Awards

- **GATE**(Graduate Aptitude Test for Engineers)Fellowship**,**Qualified with All India Rank 296 Government of India, from Aug**.** 2008 to July 2010. For perusing M. Tech
- **Korean Government Scholarship,** from Sept. 2010 to July 2014,for perusing PhD
- **All India merit** scholarship award (High School)

Publications

- Sayyed Ghazali, Muhammad M. Hossain, Abuzar Khan, Mohd Y. Khan, **Mudassir Hasan**[*]**, "**DC electrical conductivity retention, Optical Properties and Ammonia Sensing Analysis of Naturally degraded CSA doped Graphene/polyaniline composite nanofibers Prepared with CTAB" **Journal of Electronic Materials** (**IF: 1.8**), January **2017**, Volume 46, Issue 1, pp 331–339.
- Recrystallization techniques for the synthesis of ZnO nanorods: An in situ process for carbon doping and enhancing the dispersion concentration of ZnO nanorods, Muhammad

Mohsin Hossain, Hossain Shima, Md. Akherul Islam, Mudassir Hasan, Moonyong Lee, RSC Adv., **2018**, 8, 16927.

- Muhammad Mohsin Hossain, Hossain Shima, Md. Akherul Islam, **Mudassir Hasan**, Synergistic Effect in Moisture Sensing of Nylon-6 Polymer Films through Molecular-Level Interfacial Interactions of Amide Linkages in the Presence of Graphene, J. Phys. Chem. C, **2018**, 122 (43), pp 24672–24683
- Mudassir Hasan, Muhammad Mohsin Hossain, Fabrication of Polyaniline/Activated Carbon composite and its Testing for Methyl Orange Removal : Optimization, Equilibrium, isotherm and Kinetic Study, Volume 77, August **2019**, Article 105909
- Mudassir Hasan, Muhammad Mohsin Hossain ,Polyaniline-Graphene-Gold nanocomposite for Visible Light Active Photo Catalysis and Enhanced Thermal Electrical Stability,Polymer Science, Series B, **2019**, Vol. 61, No. 5, pp. 653–662.

Professional Association and Membership

Korean Institute of Chemical Engineers (KICHE)	since 2012
British Science Association	since 2014
International Association of Engineers (IAENG)	since 2014
International Society for Environmental Information Sciences (ISEIS)	since 2014
International Association of Advanced Materials (IAAM)	Since 2018

Interational Journal Editorial and Reviewing Assignment

RSC *Advances*	Reviewer
Polymer Testing	Reviewer
Advances in Materials	Editorial Board
American Journal of Nano Research and Application	Editorial Board
International Journal of Materials Science and Application	Reviewer
Advances in Materials Science and Engineering	Reviewer

Dr. Varagnapandiyan Natarajan

Rank: Associate Professor

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Education:

2015	Ph.D. Chemical Engineering, Indian Institute of Technology Delhi, India
2008	M.Tech. Chemical Engineering, Anna University, India
2005	B.Tech Chemical Engineering, Anna University, India

Academic Experience:

2015 – 2015	Associate Professor, SSN College of Engineering, Chennai, Tamil Nadu
2018 – 2019	Associate Professor, Sree Sastha Institute of Engineering and Technology

Research Experience:

2016-2018	PDF, HySA Systems Competence Centre, South Africa
2014- 2015	Research Associate, Indian Institute of Technology Delhi, India
2009-2010	Research Intern., Newcastle University, UK

Reserch Interest

- Electrocatalyst sysnthesis and testing for energy application such as Fuel Cell, PEM Hydrogen Generation, Battery
- Electrochemical Treatment of Industrial Effluent and Medical Waste
- Photo(Bio)electrochemical system

Certifications or Professional Registrations:

1 Participated in Quality Matters offered by the King Khalid University. Enrolled for Peer Reviewers course
2 Reviewer Iranian Journal of Chemistry and Chemical Engineering
3 Reviewer Journal of Soils and Sediments
4 Reviewer Materials Today Proceedings

Awards and Honour

- Varagunapandiyan Natarajan and Christopher Reeves David, "Biological Materials For Supercapacitor", DAKSH 2019, Sastra Deemed University, Thanjavur. **(First Prize)**
- UK-India Education Research Initiative (UKIERI-DST) fellowship
- Senior Research Fellowship (SRF) form Council of Scientific and Industrial Research (CSIR), New Delhi, India
- Fellowship from Indian Space Research Organization (ISRO), Thiruvanandhapuram, India
- Awarded 2nd prize in open house poster presentation (Apr 2014) at IIT Delhi
- Awarded best poster presentation in Research Scholars Day (Apr 2014) at IIT Delhi

Funded projects

1. Synthesis of antiviral nano material for coating mask **Budget**: 60,000 SAR
2. 1 project grants from Deanship of Scientific Research, King Khalid University, Abha

Workshop/Training

- Industrial Training at Eppendof India Pvt Ltd, Chennai
- Attended workshop on Laboratory Casework and Chemical Fume Hoods by GD Lab Solutions and Creative solutions, USA
- Attended workshop on Nano Probe Techniques by Nano Scale Research Facility – IIT Delhi by CAMECA-India, AMETEK Instruments India Pvt Ltd
- Attended First Indo-Italian workshop on electrochemistry for future energy solution, University of Delhi, New Delhi.
- Organized one day national workshop on COMSOL Multiphysics, Department of Chemical Engineering SSN College of Engineering Chennai.

Publication

Journals

- Varagunapandiyan Natarajan, Mahalakshmi karunanidhi and Balamanikandan Raja (2020) A Critical Review On Radioactive Waste Management Through Biological Techniques, Environ Sci Pollut Res, 27, 29812-29823
- P. Elavarasan, S. Rengadurai, SB Riswan Ali, S. Ramesh, N. Varagunapandiyan, M.R. Ezhilarasi and Sreedevi Upadhyayula (2020) Optimizing parameter for ionic liquid catalyzed Tert-Butylation of phenol using response surface methodology, Rasayan Journal of Chemistry, 14(1), 260-269.
- Mohan N, Elavarasan P, Natarajan V,(2021) Review selection criteria of microbial fuel cell types and applications, Research J Biotechnology16(5), 193-203
- Sandhya Venkateshalu, G Subashini, Preetam Bhardwaj, George Jacob, Raja Sellappan, Vimala Raghavan, Sagar Jain, Saravanan Pandiaraj, Varagunapandiyan Natarajan, Basem Abdullah M Al Alwan, Mohammed Khaloofah Mola Al Mesfer, Abdullah Alodhayb, Mohamad Khalid, Andrews Nirmala Grace, (2022) Phosphorene, antimonene, silicene and siloxene based novel 2D electrode materials for supercapacitors-A brief review, J Energy Storage, 48, 104027
- Basem Abdulla Al Alwan, Mumtaj Shah, Mohd Danish, Mohammed K Al Mesfer, Mohammed Ilyas Khan, Varagunapandiyan Natarajan (2022) Enhanced methane decomposition over transition metal-based tri-metallic catalysts for the production of COx free hydrogen, 99, 100393

Er. Mohd Danish

Rank: Lecturer

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Education:

2005 Master of Technology (Chemical Engineering), Aligarh Muslim University, Aligarh, India

Academic Experience:

2010-Present	Lecturer, Department of Chemical Engineering, King Khalid University, KSA
2006-2010	Assistant Professor and Head, Meerut Institute of Engineering and Technology, Meerut, India
2003-2006	Lecturer, Jaipur National University *(formally Seedling Academy of Design Technology and Management)*, Jaipur, India
2002-2003	Lecturer, Aligarh Muslim University, Aligarh (India)

Co-Curricular Activities:

1. Attended Short Term course on "Advance Process Control" from June 18-22, 2007 organized by Department of Chemical Engineering, Indian Institute of Technology, Roorkee (India).
2. Attended short term course on "Simulation and Modeling in Process Industries" (Refineries and Petrochemical Focus) from June 9-13, 2009 organized by Department of Chemical Engineering, Indian Institute of Technology, Delhi (India).

Research Expertise and Interest

- Chemical reaction engineering and heterogeneous catalysis
- Hydrocarbon conversion processes to value added product
- Hydrogen production from renewable resources and
- Modeling and Simulation of chemical Processes
- Carbon capture and sequestration

Honors, Awards and Grants

7 project grants from Deanship of Scientific Research, King Khalid University Abha

Journal Reviewer and Editor

- Carbon Letters
- Chemical Engineering Research and Design.

Publications:

- M.K.Al Mesfer, **M.Danish**, M.Shah, Water Environment Research, 2021.
- K.B. Ansari, V.G.Gaikar, Q.T.Trinh, M.S. Khan, A.Banerjee, D.R.Kanchan, M.K.Al Mesfer, **M.Danish**, Journal of Environmental Chemical Engineering, 10, 106910, 2022.
- **M.Danish**, V. Parthasarthy, M.K. Al Mesfer, Separation Science and Technology, 2021.

- M.K. Al Mesfer, **M. Danish**, M. Shah, International Journal of Chemical Kinetics, Available online, 1-10, 2021.
- K.B. Ansari, B. Kamal, S. Beg, M.A.W. Khan, M.S. Khan, M. K. Al Mesfer, **M. Danish**, Renewable and Sustainable Energy Reviews, 150, 111454, 2021.
- M. K. Al Mesfer, **M. Danish**, M. Shah, Journal of Taiwan Institute of Chemical Engineers, 2021.
- M.Ahmad, S.D.Alqadhi, S.Alsulamy, S.Islam, R.Khan, **M.Danish**Sustainability, 13(12), 6756, 2021.
- M. K. Al Mesfer, **M.Danish**, B.A.Alwan, N.S. Awwad, Global Nest Journal,23, 2, 1-12, 2021.
- **M.Danish**, V. Parthasarthy, M.K.Al Mesfer, Carbon Letters, 2021.
- A. Amari, M.K.Al Mesfer, N.S.Alsaiari, **M.Danish**, A.M.Alshahrani, M.A.Tahoon, F.B.Rebah, International Journal of Electrochemical Science, 16, 210235, 2021.
- **M.Danish**, V. Parthasarthy, M.K. Al Mesfer, International Journal of Environmental Research and Public Health, 18,16, 8497, 2021.
- **M. Danish**, V. Parthasarthy, M.K.Al Mesfer, Materials, 14,14, 3885, 2021.
- **M. Danish**, M.K. Al Mesfer, K.B.Ansari, M.Hasan, A.Amari, B.Azeem, Energies, 14, 13, 3893, 2021.
- A EI Jery, M Hasan, M.M. Rashid, Mohammed K. Al Mesfer, **Mohd Danish**, F Ben Rebah, Asian Biomedicine, 14, 261-270, 2020.
- Mohammed K. Al Mesfer, **Mohd Danish**, Basem Abdulla Al Alwan, Nasser S. Awwad, Desalination and Water Treatment, 204, 413-428, 2020.
- Mohammed K. Al Mesfer, **Mohd Danish**, Mohammed Ilyas Khan, Ismat Hassan Ali, Mudassir Hasan, Atef EI Jery, Processes, 8,10, 1233, 2020.
- Mohammed K. Al Mesfer, **Mohd Danish**, Ismat Hasan Ali, Mohammed Ilyas Khan, Heat and Mass Transfer, 56,12, 3243-3259, 2020.
- Mohammed K. Al Mesfer, Abdelfattah Amari, **Mohd Danish**, Basem Abdulla Al Alwan and Mumtaj Shah, 208, 9, 1358-1367, 2020.
- **M.Danish**, Mohammed K. Al Mesfer, Processes, 7, 726 2019.
- Mohammed K. Al Mesfer, MdMamoon Rashid, Mudassir Hasan, El Jery, Narendra Kumar, **Mohd Danish**, Y.M. Fahmy, Journal of Indian Chemical Society, 95, 615-621, 2019.
- M Fahmy, Rashid, M. M, A. El Jery, **M.K Danish**, M.K. Al Mesfer, Journal of Engineering Technology, 8, 2, 66-72, 2019.
- M.I.Khan, M.K. Al Mesfer, **M. Danish**, I.H. Ali, H. Shoukry, R. Patel, J. Gardy, A.S. Nizami, M. Rehan, Desalination and water treatment, 158, 140-151, 2019.
- Ismat H. Ali, Mohammed K. Al Mesfer, Mohammed I. Khan, **Mohd Danish**, Majed M. Alghamdi, Processes, 7, 217, 2019.
- Mudassir Hasan, Md Mammon Rashid, Muhammad M. Hossain, Mohammed K. Al Mesfer, Muhammad Arshad, **Mohd Danish**, MoonyongLeec, Atef El Jery, Narendra Kumar, Polymer Testing, 77, 105909, 2019.

Er. Mohammed Kafeel

Rank: Lecturer

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Education:

2008 Master of Technology, Petroleum Processing & Petrochemical Engineering, Aligarh Muslim University, Aligarh, India

2004 Bachelor of Technology (Petrochemical Engineering), Aligarh Muslim University, Aligarh, India

Academic Experience:

2013-Present	Lecturer, Department of Chemical Engineering, King Khalid University, KSA
2009-2013	Assistant Professor, Department of Chemical Engineering, Bharath Institute of Technology, Meerut, India
2008-2009	Lecturer, Department of Biotechnology, IMS Engineering College, Ghaziabad, India

Research Expertise and Interests:

1. Petroleum Refinery Modeling
2. Petroleum Testing

Publications:

1. Saiful Islam and **Mohd Kafeel**, "Variation of Static and Dynamic head at Different Discharge using Venturimeter", International Journal of Advanced and Innovative Research (2278-7844) / # 158 / Volume 4 Issue 3, Pp156-160
2. Roohul Abad Khan, Shams Al Deen, **Mohd. Kafeel,** Amadur Rahman Khan, "Preliminary Investigation of Groundwater Quality of Abha, Kingdom of Saudi Arabia", International Journal of Engineering Associates (ISSN: 2320-0804) # 35 / Volume 4 issue 8, Pp 35-37

International & National conferences:

1. Mohd. Kafeel and Ashraf Mateen "Refinery Configuration Studies on Heavy Crude Oils**" ,** PETROTECH 2010, November 1-3, 2010, Vigyan Bhawan, New Delhi
2. Mohd Kafeel, and Ashraf Mateen, "Refinery Configuration Studies on Indigenous and Imported Crude Oils" CHEMCON 2009, December 27-30, 2009, Department of Chemical Engineering, Andhra University Vishakhapatnam, India
3. Mohd Kafeel, and Ashraf Mateen, "Studies on Refinery Configuration for Arab Heavy Crude Oil", National Conference on Advances in Petroleum Refining and Petrochemical Technologies" March 21, 2009, Department of Petroleum Studies, Aligarh Muslim University Aligarh, India

Er. Md. Mamoon Rashid

Rank: Lecturer

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Education:

2009 Master of Technology, Chemical Engineering (Specialized in Computer Aided Process Plant Designing), Indian Institute of Technology, Roorkee, India

2007 Bachelor of Technology, Chemical Engineering, ITM, Gwalior, India

Academic Experience:

2013-Present	Lecturer, Department of Chemical Engineering, King Khalid University, KSA
2009-2013	Assistant Professor, Department of Chemical Engineering and Biotechnology, IMS Engineering College, Ghaziabad, India

Honors, Awards and Grants:

Grants:

1. Received grant from **Government of India** through Ministry of New and Renewable Energy for "Development of Technology packages and simulation models for prediction of plant performance based on evaluation of the plants already established in the field".
2. Received grant from AIS Glass Solution for "Minimization of Energy used in production of Glass".

Research Expertise and Interests:

1. Heat Transfer
2. Mass Transfer
3. Fluid Mechanics

Publications:

1. Mohd Danish, Mohammed K. Al Mesfer, **MD Mamoon Rashid**, "Effect of Operating Conditions on CSTR performance: an Experimental Study"Vol. 5 - Issue 2 (February - 2015), International Journal of Engineering Research and Applications (IJERA).
2. **MD Mamoon Rashid**, Mohammed K. Al Mesfer, Hamid Naseem, Mohd. Danish, Hydrogen Production by Water Electrolysis: A Review of Alkaline Water Electrolysis, PEM Water Electrolysis and High Temperature Water Electrolysis. International Journal of Engineering and Advanced Technology, 4(3); 2015; 80-93.
3. Hamid Naseem, **MD Mamoon Rashid**, pH Based Smart Sensor for Condition Monitoring of Overhead Insulators. International Journal of Engineering Sciences & Research Technology, 3(12); 2014; 509- 516.
4. Published a paper on "Membrane Reactor- An Overview" in the Souvenir of all India Seminar on "Emerging Trends of Chemical Engineering in Process Industries" organized by Indian Institute of Roorkee.

Er. Abubakr Mustafa Elkhaleefa Mohammed Osman

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Education:

2005	M.Sc., Chemical Engineering, University of Gezira, Sudan
2002	B.Sc., Chemical Engineering, University of Gezira, Sudan

Academic Experience:

2012-Present	Lecturer, Department of Chemical Engineering, King Khalid University, KSA
2005-2012	Lecturer, Department of Chemical Engineering, Red Sea University, Sudan
2002-2005	Teaching assistant, Department of Chemical Engineering, Red Sea University, Sudan

Research Expertise and Interests:
Water and waste water treatment,Adsorption, Extraction, chemical reactions, analytical chemistry.

Publications:

- Ni(II) removal using date seed powder biosorbent: Porcess parameters classification and RSM modelling.https://www.tandfonline.com/doi/abs/10.1080/10962247.2021.1990160.
- Tribological evaluation of date seed oil and castor oil blends with halloysite nanotube additives as environment friendly bio lubricants. https://link.springer.com/article/10.1007/s13399-021-02020-9
- Adsorption and Corrosion Inhibition Behaviour of Oil Extracted from Moringa peregrina leaves for Carbon Steel in Acidic Media: Experimental and Computational Studies. http://www.electrochemsci.org/papers/vol16/210842.pdf.
- Evaluation of the Adsorption Efficiency on the Removal of Lead (II) Ions from Aqueous Solutions Using Azadirachta indica Leaves as an Adsorbent. https://www.mdpi.com/2227-9717/9/3/559.
- Conductive Polymers and Their Nanocomposites as Adsorbents in Environmental Applications. https://www.mdpi.com/2073-4360/13/21/3810.
- Magnetic nitrogen-doped porous carbon nanocomposite for Pb (II) adsorption from aqueous solution. https://www.mdpi.com/1420-3049/26/16/4809.
- Efficient removal of Ni (II) from aqueous solution by date seeds powder biosorbent: Adsorption kinetics, isotherm and thermodynamics. https://www.mdpi.com/2227-9717/8/8/1001.
- Assessment of major and trace elements in drinking groundwater in Bisha Area, Saudi Arabia. https://www.hindawi.com/journals/jchem/2020/5265634/.
- Waste Engine Oil Remediation Using Low Cost Natural Clay Absorbent Material. https://iranjournals.nlai.ir/handle/123456789/336081.
- Assessment of trace elements in camel (Camelus dromedarius) meat, hump and liver consumed in Saudi Arabia by inductive coupled plasma mass spectrometry.

https://www.indianjournals.com/ijor.aspx?target=ijor:jcpr&volume=26&issue=2&article=011.

- Effect of structure and chemical activation on the adsorption properties of green clay minerals for the removal of cationic dye.https://www.mdpi.com/2076-3417/8/11/2302.
- Synthesis, Characterization and Application of Ferrochrome slag/polyaniline Nanocomposite as Corrosion Protection Coatings for Carbon Steel. http://www.electrochemsci.org/abstracts/vol13/130807385.pdf.
- Waste engine oil characterization and atmospheric distillation to produce gas oil.https://www.ijeat.org/wp-content/uploads/papers/v5i4/D4462045416.pdf.
- Parameters optimization, modelling and kinetics of Balanites aegyptiaca kernel oil extraction.https://www.researchgate.net/publication/289442548_Parameters_Optimization_Modelling_and_Kinetics_of_Balanites_Aegyptiaca_Kernel_oil_extraction.