Personal Data

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| Name | Dr Farooq Ahmad Fazli Amin |
| Department | Chemical and Material Engineering |
| Nationality | Pakistan |
| Date | 2/7/2023 |
| Official Email | [Faroog.Amin@nbu.edu.sa](mailto:Faroog.Amin@nbu.edu.sa) |
| Phone | Ext.4368 |

Language proficiency

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| --- | --- | --- | --- |
| Language | Read | Write | Speak |
| English | Proficient | Proficient | Proficient |
| Urdu | Proficient | Proficient | Proficient |
| Arabic | Conversational | Conversational | Conversational |

Academic Qualifications (Beginning with the most recent)

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| --- | --- | --- | --- |
| Date | Academic Degree | Place of issue | Address |
| 24 August 2008 | PhD in Chemical Engineering | University of Technology PETRONAS | Malaysia |
| January 2004 | Master of Science in Chemical Engineering | University of Engineering and Technology Lahore | Pakistan |
| March 2000 | Bachelor of Science in Chemical Engineering | University of Engineering and Technology Peshawar | Pakistan |

PhD, Master or Fellowship Research Title

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| PhD | Studies on Separation of Gas Mixtures By Membranes Processes |
| Master | Aeration Studies in Industrial Effluents |

Professional Record(Beginning with the most recent)

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| Job Rank | Place And Address of work | Date |
| Associate Professor | Chemical and Material Engineering Northern Border University Kingdom of Saudi Arabia | 1/11/2013 to Present |
| Assistant Professor | Chemical and Material Engineering Northern Border University Kingdom of Saudi Arabia | 10th Sep.2011 to 30/10/2013 |
| Assistant Professor | King Khalid University Kingdom of Saudi Arabia | 3rd Oct.2010 to 5th Sep.2011 |
| Lecturer | Chemical Engineering Program University of Technology PETRONAS | 2nd Nov.2008 to 2nd Oct.2010. |

Management Position(Beginning with the most recent)

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| Administrative position | The disk | Date |
| N/A |  |  |
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Scientific Achievements (Published Refereed Scientific Research)

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| --- | --- | --- |
| Name of Investigators | Research Title | Publisher and Date of Application |
| T Nafees, AA Bhatti, UK Jadoon, F Ahmad, I Ahmad, M Kano, | [Model-Based Quality, Exergy, and Economic Analysis of Fluidized Bed Membrane Reactors](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=SqMJ-n8AAAAJ&citation_for_view=SqMJ-n8AAAAJ:mVmsd5A6BfQC) | Multidisciplinary Digital Publishing Institute  Publication date 2021/10  Journal Membranes Volume 11  Issue10 Pages765 |
| Naveed Ahmad, Farooq Ahmad, Ibrahim Alenezi | [Influence of Starch Content on the Thermal and Viscoelastic Properties of Syndiotactic Polypropylene/Starch Composites](http://www.etasr.com/index.php/ETASR/article/view/4161) | Engineering, Technology & Applied Science Research |
| AZ Al-Khazaal, Farooq Ahmad, N Ahmad | [Study on the Removal of Thiosulfate from Wastewater by Catalytic Oxidation](https://pdfs.semanticscholar.org/baf0/65f34d486728972e8fc468255d5336ee0ccb.pdf) | Engineering, Technology & Applied Science Research(2019) 9 (2), 4053-4056 |
| Naveed Ahmad, E Fouad, Farooq Ahmad | [Effect of Shear Flow on Crystallization of Sydiotactic Polypropylene/Clay Composites](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=SqMJ-n8AAAAJ&alert_preview_top_rm=2&citation_for_view=SqMJ-n8AAAAJ:aqlVkmm33-oC) | Engineering, Technology & Applied Science Research(2018) 8 (4), 3108-3112 |
| Farooq Ahmad, N Ahmad, AZ Al-Khazaal, I Alenezi | [Remediation of sulfidic wastewater by aeration in the presence of ultrasonic vibration](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=SqMJ-n8AAAAJ&alert_preview_top_rm=2&citation_for_view=SqMJ-n8AAAAJ:qxL8FJ1GzNcC) | Engineering, Technology & Applied Science Research (2018), 8 (3), 2919-2928 |
| FarooqAhmad, Saiakt Maitra,Naveed Ahmad | Treatment of Sulfidic Wastewater Using Iron Salts. | Arab J Sci Eng (2017) 42:1455-1462. Springer link. |
| EA Fouad, Farooq Ahmad, Naveed Ahmad. | [Optimization of chromium extraction from aqueous solutions by emulsion liquid membrane](http://scholar.google.com/scholar?cluster=17735044233257541664&hl=en&oi=scholarr) | [Optimization of chromium extraction from aqueous solutions by emulsion liquid membrane](http://scholar.google.com/scholar?cluster=17735044233257541664&hl=en&oi=scholarr) |
| Elsayed Fouad , Farooq Ahmad, Khaled Abdelrahman | Optimization of Emulsion Liquid Membrane for Lead Separation from Aqueous solutions | Engineering, Technology & Applied Science Research Vol7, No.5 2017,2068-2072 |
| Naveed Ahmad, Farooq Ahmad, Ihsanullahkhan, AdnanDaudKhan | Studies on the Oxidative Removal of Sodium Thiosulfate from Aqueous Solution | Arabian Journal for Science and Engineering. 40(2015) 289-293. Springer link. |
| Elsayed Fouad, Farooq Ahmad, Mohamed Elsherbiny | Emulsion Liquid Membrane, Extraction of Cd using Trioctyl phosphine oxide as a carrier: Analytical Process optimization by using Taguchi Design Method | International Journal of Chemical and Environmental Engineering. 5(2014)51-56. |
| Farooq Ahmad | A new approach for the Removal of Thiosulfate from waste water by advanced oxidation process (AOP) | IJCEE (International Journal of Chemical and Environmental Engineering).3(2012) 303-308 |
| SikanderRafiq, Zakaria Man, SaikatMaitra ,Farooq Ahmad, Nawshad Muhammad. | Kinetics of Thermal Degradation of Polysulfone/Polyimide Blended Polymeric Membranes | Journal of Applied Polymer Science,123(2012)3755-3763, Wiley Periodicals, Inc. |
| SikanderRafiq, Zakaria Man, SaikatMaitra, FarooqAhmad, and Nawshad Muhammad | Preparation of Asymmetric Polysulfone/Polyimide Blended Membranes for CO2 separation. | Korean Journal of Chemical .Engineering .28(2011)2050-2056. Springer link. |
| Sikander Rafiq, Zakaria Man and Farooq Ahmad | Silica-Polymer Nano-composite Membranes, for Gas Separation | a Review, Part 2. Interceram 60 (2011)1. |
| FarooqAhmad, Hilmi Mukhtar, Zakaria Man and Binay K Dutta | Separation of Carbon dioxide from CO2/CH4 binary mixture using silicone rubber membrane | Platform, 8(2010)2-9. |
| SikanderRafiq, Zakaria Man, Farooq Ahmad | Silica-Polymer Nano-composite Membranes, for Gas Separation | Part 1. Interceram 59 (2010)6 |
| Saikat Maitra, Farooq Ahmad | Effect of curing conditions and ionic additives on properties of fly ash–lime compacts. | Bulletin of Material Science,33(2010)185–190.Springerlink. |
| Naveed Ahmad, SaikatMaitra, Farooq Ahmad and Binay K. Dutta | Remediation of Sulfidic waste water by Catalytic Oxidation with Hydrogen Peroxide | Journal of environmental sciences 21(2009)1735-1740.Elsevier |
| SikandarRafiq, Farooq Ahmad, Zakaria Man, Hilmi Mukhtar, Azmi Shariff, Saikat Maitra | Separation of Carbon dioxide from Natural gas through Polymer-Silica Mixed Matrix Membranes A Review | Indian Ceramic Review, 45(2009)85-92 |
| BiruhShimekit, HilimiMukhtar, Farooq Ahmad and SaikatMaitra | Ceramic Membranes for the Separation of Carbon Dioxide, A Review. | Trans.Ind.Ceram.Soc.,68(3)115-138(2009).Taylor and Francis |
| Farooq Ahmad, Hilmi Mukhtar, Zakaria Man | Removal of Thiosulphate from waste water by hydrogen peroxide oxidation in the presence of UV Radiation | Platform.,7(2009) 2. |
| Ananta Das, Narayan Bandyopadhyay, FarooqAhmad,SaikatMaitra. | Physio- Mechanical behavior of theFlyash-lime Sand based building materials in relation to fly ash/sand ratios. | . Indian Ceramic Review, 46(2009)8-12. |
| Farooq Ahmad, Z. man, H. Mukhtar, and Binay K Dutta | A theoretical analysis of non-chemical separation of hydrogen sulfide from methane by capillary condensation Chemical Eng& Processing | Chemical Eng& Processing., 47(2008)2203-2208.Elsevier |
| Ayaz, Amir shafeeq, Farooq Ahmad | Decolonization of Turquoise Blue Dye by Ozonation, O2/ H2O2 and Fenton Processes. | Research Journal of Environmental Sciences. 2(2008)310-315. |
| Farooq.Ahmad, H.Mukhtar, Z.K.Man, B.K.Kutta | Predicting separation of lower hydrocarbons from Natural gas by capillary condensation using a nano-porous membrane | Chemical Engineering and Technology, 30(2007)1274-1279.Wiley Inter Science. |

Scientific Achievements (Scientific Research accept for publication)

|  |  |  |  |
| --- | --- | --- | --- |
| Name of Investigators | Research Title | Date | The magazine |
| Farooq Ahmad, Ifikhar Ahmad | Model based exergy analysis of Cumene plant | 31 January, 2023 | Energy |
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Scientific Achievements(Scientific Research submitted for Arbitration of specialized )

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| Name of Investigators | Research Title | Plot And Date of publication |
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Scientific Achievements(Finished Research Projects)

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| Name of Investigators | Research Title | Date Title |
| Farooq Ahmad, Zakaria Man | Development of Mixed Matrix Membrane for carbon dioxide separation from Natural gas (2008-2010 under Short term Institutional Research fund) at University Technology PETRONAS Malaysia. | 2010 |
| Farooq Ahmad , Elsayed Fouad | Separation of heavy metals from electronic wastes by emulsion liquid membrane | 2014 |
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Scientific Achievements(Current Research)

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| --- | --- |
| Name of Investigators | Research Title |
| Farooq Ahmad, Naveed Ahmad | Model Based Exergy Analysis of Petrochemical Plant for Assessment of Thermodynamic Potentials and Identification of Energy Recovery Points |
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Scientific Achievements (Contribution to Scientific Conference and symposia)

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| --- | --- | --- |
| Conference Title | Place And Date of the Conference | Extent of Contribution |
| CHEMECA 2009 | Farooq Ahmad, H. Mukhtar, Zakaria Man. Removal of Thiosulphate from Waste Water by Hydrogen peroxide Oxidation in the Presence of UV Radiation, presentation at CHEMECA 2009 Perth Australia. | 80% |
| nternational Conference on Engineering and Education | Farooq Ahmad, SaikatMaitra, H. Mukhtar, and Binay K Dutta. Perspective of chemical engineering education in the 21st Century, International Conference on Engineering and Educationin the 21st century at Kuching Sarawak, March 2009. | 80% |
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Scientific Achievements(Membership and Committees participating in)

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| 1- | Member Pakistan Engineering Council |
| 2- |  |
| 3- |  |

Teaching Activities(Undergraduate)

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| Course | Course Number | Extent of Contribution |
| Process Control | 1404-442 | 100% |
| Thermodynamics-01 | 1404-301 | 100% |
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Brief Description of the Undergraduate Courses taught

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| 1- |  |
| 2- |  |
| 3- |  |

Teaching Activities (Scientific Studies)

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| Course | Course Number | Extent of Contribution |
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Teaching Activities (academic advising for Student)

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| Stage | Number of Students | Form | To me |
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Teaching Activities(Supervision of master and doctoral theses)

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Teaching Activities(Supervision of Ongoing Research)

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| Scientific Certificate | The Side | The address | Date |
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Administrative Tasks And Community Service

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Administrative Tasks and Community Service (Committee membership)

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Administrative Tasks and Community Service (Educational Consultancy)

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Administrative Tasks and Community Service (Volunteer Work)

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Voluntary Competencies and Skills

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| 2- |  |
| 3- |  |