# Dr. SAAD NADEEM

## EXPERIENCE

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| **_Internship** | ✓ **PSO LUBE MANUFACTURING TERMINAL KARACHI**<br>✓ **JAVEDAN CEMENT INDUSTRY (JCI).**<br>✓ **NATIONAL REFINERY LIMITED (NRL).** |
| **N.E.D University** | Lecturer (Chemical Engineering Department) April 2010 till March 2018 |
| | Assistant Professor (Chemical Engineering Department) March 2018 till date |
| | ✓ Courses Taught<br>• Chemical Process Optimization<br>• Gas Engineering<br>• Mass Transfer<br>• Chemical Reaction Engineering<br>• Particulate Technology<br>• Process Control<br>• Plant Design<br>• Analytical Chemistry<br>• Petroleum Refinery and Petrochemicals<br>• Corrosion Engineering<br>•Designed lab of chemical process optimization<br><br>✓ Area Coordinator (Chemical Department) March 2012-November 2013<br>• Conducted successful PEC visit for department<br>• Conducted Successful Internal and External Audits<br><br>✓ Member Green Society2012-2013<br>✓ Member DUTY Society2012-2013<br>✓ Member Internal Audit Team NEDUET2012-2013<br>✓ Departmental Head for NETA activities2012-2013<br>✓ Project Advisor FINAL Year projects2012-2013<br>✓ Class Advisor Final Year 2011-2013<br>✓ Member THAR Underground Coal Gasification Committee 2013<br>✓ Submitted a proposal for research on Fischer tropsch synthesis gas to Dimethyl Ether through one step conversion.2013<br>✓ Member Board of studies (BOS) Chemical<br>✓ Member Industrial Advisory Board (IAB) Chemical |
| **Novatex** | Worked at NOVATEX as TRAINEE ENGINEER (Process) September 2009-March 2010 |
| **FRC Petrochemicals** | Technical services engineer June -July 2009 |

## CERTIFICATIONS / CONFERENCES

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| **Certificate Courses** | • Certificate course in Project Management from Skill<br>• Development Council Govt. of Sindh.<br>• Certificate course in Outcome Based Education at UTP<br>• Certificate course in XPS |
| **Conferences** | • CES 2013 as participant in NED<br>• ESTCON 2104 as paper presenter in Kualaumpur<br>• ESTCON 2106as paper presenter in Kualalumpur<br>• ESMD 2015 as paper presenter in IEP<br>• ICAST 2017 as paper presenter in Langkawi<br>• ICCEIB 2018 as paper presenter in Pahang |

## TRAININGS

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| **Trainings on Equipment** | • Gas Chromatograph (GC)<br>• Gas Chromatograph with Mass Spectrometer (GCMS)<br>• High Performance Liquid Chromatograph (HPLC)<br>• Temperature Programmed Reduction (TPDRO)<br>• X-ray Photoelectron Spectroscopy (XPS)<br>• BET surface area equipment training |

## PUBLICATIONS

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| 1, | S. Nadeem et al., "Citric Acid Future Prospects for Pakistan, a Short Review", Applied Mechanics and Materials, Vol. 625, pp. 61-64, 2014 10.4028/www.scientific.net/AMM.625.61 |
| 2, | Organic acid production from Fruit waste using Solid State Fermentation as a Green Technology:A Malaysian perspective,journal of chemical engineering and process technology(accepted for publication) |
| 3, | S. Nadeem, I.A. Mutalib, M.S. Shahrun, Synthesis of Metalloporphyrin Encapsulated Zeolite A for Photocatalytic Orange II Degradation, Procedia Engineering, 148 (2016) 1282-1288. |
| 4, | Saad Nadeem, Mohamed Ibrahim Abdul Mutalib, Maizatul Shima Shaharun. "One pot syntheses and characterization of meso-5, 10, 15, 20-copper tetraphenylporphyrin" Rasayan journal of chemistry;Vol. 9 \| No. 3 \|309 -314 \| July-September \| 2016 |
| 5, | S. Nadeem, F. Iqbal, M.I.A. Mutalib, B. Abdullah, M.S. Shaharun, Synthesis and characterization of thermally stable zirconia based mesoporous nanosilica with metalloporphyrin encapsulation, AIP Conference Proceedings, 1891 (2017) 020107. |
| 6, | F. Zafar, P.C. Mandal, K.Z.b.K. Shaari, S. Nadeem, Total acid number reduction kinetics of naphthenic acids using non-catalytic subcritical methanol, AIP Conference Proceedings, 1891 (2017) 020148. |
| 7, | M.S. Khan, I. Ahmed, M.I.b.A. Mutalib, S. Nadeem, S. Ali, Influence of H2O2on LPG fuel performance evaluation, AIP Conference Proceedings, 1621 (2014) 763-768. |

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| 8, | Nanofluid enhanced oil recovery using induced ZnO nanocrystals by electromagnetic energy: Viscosity increment, Mohamad Sahban Alnarabiji, Noorhana Yahya, Saad Nadeem, Muhammad Adil, Mirza Khurram Baig, Ouahid Ben Ghanem, Khairun Azizi, Shehzad Ahmed, Belladonna Maulianda, Jiří Jaromír Klemeš, Khaled Abdalla Elraies, Fuel,Volume 233,2018,Pages 632-643,ISSN 0016-2361,https://doi.org/10.1016/j.fuel.2018.06.068. |
| 9, | Saad Nadeem, Asad Mumtaz, Mudassar Mumtaz, M.I. Abdul Mutalib, Maizatul Shima Shaharun, Bawadi Abdullah,Visible light driven CO2 reduction to methanol by Cu-porphyrin impregnated mesoporous Ti-MCM-48,Journal of Molecular Liquids,Volume 272,2018,Pages 656-667,ISSN 0167-7322,https://doi.org/10.1016/j.molliq.2018.09.077. (http://www.sciencedirect.com/science/article/pii/S0167732218322931) |
| 10, | Electrocatalysts for Lithium–Air Batteries: Current Status and Challenges, Awan Zahoor, Zafar Khan Ghouri, Saud Hashmi, Faizan Raza, Shagufta Ishtiaque, Saad Nadeem, Inayat Ullah, and Kee Suk Nahm, ACS Sustainable Chemistry & Engineering 2019 7 (17), 14288-14320 DOI: 10.1021/acssuschemeng.8b0635 |
| 11, | Hashmi S, Nadeem S, Awan Z, Rehman AU, Ghani AA. Synthesis, Applications and Swelling Properties of Poly (Sodium Acrylate-Coacrylamide) Based Superabsorbent Hydrogels. JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN. 2019 Aug 1;41(4):668-78. |

## SKILLS & LANGUAGES

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| **Computer Skills** | ✓ High proficiency in MS Office, Windows,<br>✓ Visual BASIC 6<br>✓ Hysys<br>✓ HTRI<br>✓ ASPEN PLUS<br>✓ MATLAB<br>✓ EXCEL SOLVER<br>✓ GAMS |
| **Languages** | ✓ English<br>✓ Urdu |