

Contact

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Pakistan
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Top Skills

MS Office Suite
Aspen Plus
Matlab

Languages

English (Professional Working)
Korean (Limited Working)
Urdu (Native or Bilingual)

Publications

Recyclable N-heterocyclic carbene/
palladium catalyst on graphene
oxide for the aqueous-phase Suzuki
reaction

Experimental evaluation of oil
recovery mechanism using a
variety of surface-modified silica
nanoparticles: Role of in-situ
surface-modification in oil-wet
system

Rapid conjunction of 1D carbon
nanotubes and 2D graphitic carbon
nitride with ZnO for improved
optoelectronic properties

Process system engineering (PSE)
analysis on process and optimization
of the isomerization process

Structuring Pd Nanoparticles on 2H-
WS2 Nanosheets Induces Excellent
Photocatalytic Activity for Cross-
Coupling Reactions under Visible
Light

Dr. Faizan Raza Ph.D

Associate Professor Chemical Engineering & Manager Research
Operations and Development ORIC @ NED University of
Engineering & Technology (HEC Approved PhD Supervisor)
Pakistan

Summary

Specialized in developing nanomaterials hybrids for various energy applications in the field of chemical and materials engineering from Hanyang University, South Korea. As well as teaching chemical engineering from undergraduate to PhD level at NEDUET, Pakistan as an assistant professor. Also, expanding my scope of research in conventional process engineering combining experimentation with simulation environment. Having 12 publications (5 in last 2 years) in reputable journals such as JACS, ACS CATALYSIS and AFM with a commutative impact factor of >100

Experience

NED University of Engineering and Technology

4 years 3 months

Associate Professor

January 2022 - Present (5 months)

Karāchi, Sindh, Pakistan

Assistant Professor

March 2018 - January 2022 (3 years 11 months)

Karachi, Pakistan

Engineers & Engineering

Head Of Quality Assurance

September 2017 - March 2018 (7 months)

Karāchi, Sindh, Pakistan

Hanyang University - ERICA

Research Assistant

September 2012 - August 2017 (5 years)

Seoul, Korea

Development of Semiconductor Nanomaterials for Energy applications at
Nanobiochemistry Lab

Al-Ahad Industries

Chemical Engineer

December 2011 - June 2012 (7 months)

F-297 S.I.T.E Karachi

Working on a pilot scale project on extraction of essential oils of different natural products by means of solvent extraction using new and innovative method of using supercritical fluids (CO₂) as solvent

Responsibilities as Engineer:

- Designing and optimization of extraction process and their parameters for different raw materials.
- Working on Scale up of the extraction unit to make it a commercial production unit which includes material and energy balances, process equipment specifications, PFD and P&ID.
- Trouble shooting of equipments such as pump, compressor and storage tank for CO₂. Also selection of equipments such as pressure regulator valves, flow control valve and filters for recycled CO₂.
- Also responsible for the production quantity and quality of the desire product.
- Also do research on many different raw material including flowers and other seeds which give not only essential oil but carrier oils as well. Also use different software such as Aspen tech V 7.3 Hysys, Refporf and MS Visio
- Also working on other techniques of oil extraction such as solvent extraction, steam distillation and cold pressing.
- Also manage the maintenance staff.

Prime Packages Industries

Trainee Engineer

December 2010 - December 2011 (1 year 1 month)

Karachi, Pakistan

Pakistan Synthetic Limited

Internee

June 2010 - July 2010 (2 months)

F-1,2,3 & F-13, 14 & 15, HUB INDUSTRIAL & TRADING ESTATE, DISTRICT LASBELLA,

Compulsory 6 weeks industrial training as per regulation by H.E.C.

-Responsibilities as Trainee:

Study the overall process material balance from catalyst preparation till final polymerization step.

Involved in trouble shooting and maintenance of utility equipments such as boilers, air compressors, nitrogen gas generator and water treatment plant.

Testing of Polyester fiber, Tow, Poly condensation & water.

Also highlighted areas where optimization can be done to increase the efficiency and overall production of process.

-Departments of training:

Polymerization reactor unit

Utilities

Quality assurance

Spinning & Fiber line

Event Works

Event Organizer

January 2007 - January 2007 (1 month)

Manage an event called "2nd Think Science Teaching Aid

Competition" held at Pearl Continental Hotel Karachi on 6th January 2007.

Business Management And Consultancy (BMC)

Internee - Database Administrator

June 2005 - November 2005 (6 months)

Suite 413, 4th Floor, Mashriq Centre, Sir Shah Suleman Road, Gulshan-e-Iqbal Blo

Maintain database for their project "Wedding Asia 2005" held at Expo Center, Karachi. Also take appointment from different Clients.

Education

Hanyang University

PhD, Fusion Chemical Engineering · (2012 - 2017)

University of Karachi

B.E, Chemical Engineering · (2007 - 2010)

Adamjee Govt. Science College Karachi

HSC, Pre Engineering · (2003 - 2005)

Bai Virbaiji Supariwala (B.V.S) Parsi High School

SSC, Science Group · (2001 - 2003)