

## Muhammad Zubair

Assistant Professor

Centre for Energy System

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## About

Dr. Muhammad Zubair is working as Assistant Professor in the Centre for Energy System. Dr. Muhammad Zubair has a PhD in Process And Equipment Design. Dr. Muhammad Zubair has published 6 research articles & conference papers having a citation count of 76, carried out 4 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Process And Equipment Design</b> Delft University of Technology , Netherlands	2012 - 2014
<b>MS in Energetic Materials Engineering</b> NUST, Islamabad , Pakistan	2010 - 2012
<b>B.Sc (Hon) in Chemical Engineering</b> UET Lahore , Pakistan	2005 - 2009
<b>F.Sc in Pre-Engineering</b> Board of Intermediate and Secondary Education, Faisalabad , Pakistan	2003 - 2005
<b>Matric (SSC) in Science</b> Board of Intermediate and Secondary Education, Faisalabad , Pakistan	2000 - 2002

## Experience

<b>Assistant Professor</b> Centre for Energy System	2019- Present
<b>Assistant Professor</b> Centre for Energy System	2015 - 2015
<b>Research Associate</b> NRG Biofuels Inc , Calragy, Alberta, Canada	2011 - 2012

## Awards

<b>President's Gold Medal</b> President's Gold Medal by Scoring 4.0/4.0 CGPA with a Research Publication	2014
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## Professional Memberships

<b>PEC</b>	Since 2010
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## Research Projects

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### National Projects

<b>Enhanced Hydrogen Production from Algae using Artificial Electron Donors and Inhibiting Agents for Ferredoxin NADP Reductase</b> <b>Funding Agency:</b> HEC <b>Amount:</b> PKR 8,801,000.00 <b>Status:</b> Completed	2014
<b>Energy Efficiency Improvements for Building Sector of Pakistan</b> <b>Funding Agency:</b> USAID <b>Amount:</b> PKR 3,000,000.00 <b>Status:</b> Completed	2018
<b>Development of Hybrid Micro Combined Heat and Power System for Distributed Generation in Pakistan</b> <b>Funding Agency:</b> USAID / USPCASE <b>Amount:</b> PKR 3,000,000.00 <b>Status:</b> Approved_inprocess	2017
<b>Sustainable production of bioenergy and soil conditioners from bio-residues in Pakistan for energy and food supply security</b> <b>Funding Agency:</b> Germany ministry of Education <b>Amount:</b> PKR 2,147,483,647.00 <b>Status:</b> Approved_inprocess	2017

### International Projects

## Research Articles

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<b>Parametric analysis of a steady state equilibrium-based biomass gasification model for syngas and biochar production and heat generation</b> <i>Wajeha Tauqir Wajeha Tauqir Muhammad Zubair Hassan Nazir</i> <i>Energy Conversion and Management</i> , Volume: 199, Article Number: 111954 <b>Impact Factor:</b> 8.208   <b>Quartile:</b> 1   <b>Citations:</b> 74 <b>DOI:</b> DOI: 10.1016/j.enconman.2019.111954	2019
<b>CFD simulation of chemical reaction between sulfur dioxide and water in a venturi scrubber</b> <i>I. Saïdar M. Zubair N. Iqbal M. Ali</i> <i>Separation Science and Technology</i> , - <b>Impact Factor:</b> 1.718   <b>Quartile:</b> 3   <b>Citations:</b> 2 <b>DOI:</b> 10.1080/01496395.2019.1594897	2019
<b>Design and Comparison of PID and Proportional Resonant Controllers for Matrix Converter</b> <i>M. Arifeen Ali Mohsin Jamil Raheel Afzal Asad Nawaz Gussan Mufti Muhammad Zubair Syed Omer Gilani</i> <i>Indian Journal of Science and Technology</i> , Volume 10(5), Pages 1-6 <b>Impact Factor:</b> - <b>DOI:</b> DOI:10.17485/ijst/2017/v10i5/111269	2017

### Sensitivity Analysis and Clean Utilization of Thar Coal Pakistan with Aspen Plus Simulation

2018

*Bilal Bashir Muhammad Zubair*

*4th Multi Disciplinary Student Research International Conference (MDSRIC), res.country(177,)*

**Citations:** N/A

**DOI:** <http://www.uow.edu.pk/ORIC/Publications/4th%20MDSRIC-157.pdf>

### Optimization of Influential Constraints with The Thar Coal Pakistan for Clean Utilization

2018

*Bilal Bashir Muhammad Zubair*

*WORKSHOP "Options for an Energy Mix: Issues of Cost and Sustainability, res.country(177,)*

**Citations:** N/A

**DOI:** N/A

### Development of Hybrid Micro Combined Heat and Power System Based on Solar Thermal and Biomass

2018

#### Resources

*Muhammad Zubair Brian.M. Fronk M. Bilal Sajid M. Asaad Iftikhar H.M. Abdullah*

*USAID-ASU Stakeholders Meeting and Expo , res.country(177,)*

**Citations:** N/A

**DOI:** N/A