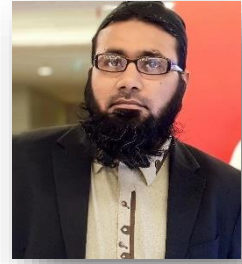


## Curriculum Vitae

**PROF. DR. ABDUL RAZAQUE SAHITO** (Ph.D., P.E.)

(ar.sahito@faculty.muet.edu.pk; arsahto@yahoo.com)



### **Director and Professor**

Institute of Environmental Engineering and Management,  
Mehran University of Engineering and Technology, Jamshoro PAKISTAN

## **PERSONNEL INFORMATION**

**NAME:** ABDUL RAZAQUE  
**FATHER'S NAME:** SADARUDDIN  
**SURNAME:** SAHITO  
**DATE OF BIRTH:** 01-04-1980  
**RELIGION:** ISLAM  
**NATIONALITY:** PAKISTANI  
**DOMICILE:** NAUSHAHRO FEROZE, SINDH  
**C.N.I.C. NO.** 41306-7996637-9  
**P.E.C. REGISTRATION NO.** MECH/17975 (*Life member*)  
**MAILING ADDRESS:** HOUSE # B-14 NASEEM NAGAR  
QASIMABAD HYDERABAD SINDH  
PAKISTAN  
**PHONE NO.** +92 -366 1350366  
**E-MAIL ADDRESS:** ar.sahito@faculty.muet.edu.pk  
[arsahto@yahoo.com](mailto:arsahto@yahoo.com)

| <b>EXPERIENCE:</b> | <b>Field</b> | <b>Teaching and Research</b> | <b>TOTAL</b>      |
|--------------------|--------------|------------------------------|-------------------|
|                    | 3.5 years    | 16 years                     | <b>19.5 years</b> |

| <b>PUBLICATIONS:</b> | <b>HEC recognized Journals</b> | <b>National and International Conferences</b> |
|----------------------|--------------------------------|---|
|                      | <b>31 +</b>                    | <b>45</b>                                     |

**SCI IMPACT FACTOR:** **30 +** (2023)

### **HEC Approved Ph.D. Supervisor**

**THESIS SUPERVISED:** Ph.D. = **02** Students    M.E. = **31** Students    B.E. = **21** Groups

## **JOB EXPERIENCE**

|   |                                 |                 |
|---|---------------------------------|-----------------|
| Field Experience ( <i>Engineering</i> ) | (From 10-01-2004 to 13-07-2007) | 3.5 years       |
| Teaching/ Research Experience           | (From 14-07-2007 to till today) | 15.5 years      |
| <b>Total Job Experience</b>             |                                 | <b>19 Years</b> |

| S NO. | PERIOD                        | POSITION                               | ORGANIZATION  |
|-------|-------------------------------|--|---|
| 01    | From 17-12-2021 to till today | <b>Professor</b><br>(BPS-21)           | Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan                      |
| 02    | From 18-03-2015 to 16-12-2021 | <b>Associate Professor</b><br>(BPS-20) |   |
| 03    | From 23-05-2011 to 17-03-2015 | <b>Assistant Professor</b><br>(BPS-19) | Department of Mechanical Engineering, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan                                     |
| 04    | From 01-03-2008 to 22-05-2011 | <b>Lecturer</b><br>(BPS-18)            |   |
| 05    | From 14-07-2007 to 29-02-2008 | <b>Lecturer</b><br>(BPS-18)            | Department of Energy & Environment Engineering, Quaid-e-Awam University of Engineering & Technology Nawabshah, Sindh, Pakistan                            |
| 06    | From 28-09-2004 to 13-07-2007 | <b>Junior Engineer</b><br>(BPS-17)     | Pakistan Water and Power Development Authority (WAPDA), at Northern Power Generation Company Limited Thermal Power Station Muzaffarghar, Punjab, Pakistan |
| 07    | From 01-12-2003 to 27-09-2004 | <b>Mechanical Engineer</b>             | Ghulam Hyder & Brothers, Government Approved Contractor, registered in Pakistan Engineering Council, Pakistan   |

## **ADMINISTRATIVE RESPONSIBILITIES**

### **A- Head of the Institute**

| S NO. | POSITION | PERIOD                   | Department/ Institute  |
|-------|----------|--------------------------|--|
| 01    | Director | 20-04-2023<br>till today | Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro |

## **B- Laboratory In-charge**

| <b>S NO.</b> | <b>POSITION</b>   | <b>PERIOD</b>               | <b>Department/ Institute</b>  |
|--------------|---|-----------------------------|---|
| 01           | Lab Incharge of Solid Waste Management, Microbiology & Thermo LABs                                | 16-11-2015<br>till today    | Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro          |
| 02           | Lab Incharge of ALL Laboratories  | 18-03-2015 to<br>15-11-2015 | Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro          |
| 03           | Lab Incharge of Engineering Mechanics LAB   | 12-11-2014 to<br>17-03-2015 | Department of Mechanical Engineering, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan |
| 04           | Lab Incharge of Solid Waste Management LAB  | 06-01-2012 to<br>11-11-2014 | Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro          |
| 05           | Lab Incharge of<br>1) Mechanics of Machines LAB<br>2) Environment LAB<br>3) Energy Technology LAB | 18-10-2011 to<br>05-01-2012 | Department of Mechanical Engineering, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan |
| 06           | Lab Incharge of Engineering Mechanics LAB   | 01-03-2008 to<br>05-01-2012 | Department of Mechanical Engineering, Mehran University of Engineering & Technology, Jamshoro                         |

## **C- FACTOTUM of Examinations**

FACTOTUM of Examinations for Postgraduate and Undergraduate Examinations of Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro From 27-04-2015 till today.

## **D- MEMBER of Committees**

- 1) Member Selection Committee since 08-02-2016.
- 2) Member of Department Management Review Committee (DMRC) of Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro since 18-03-2015.

- 3) Member Board of Studies of Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro since 18-03-2015.
- 4) Member Purchase of the Laboratory Equipment for of Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Pakistan from 2012 to 2013.
- 5) Member Syllabus Revision Committee since 24-02-2011.
- 6) Member Purchase of the Laboratory Equipment for Mechanical Engineering Department, Mehran University of Engineering & Technology, Pakistan from 2010 to 2012.

## **ACADEMIC QUALIFICATION**

| <b>Degree/<br/>Examination</b>                               | <b>Division/<br/>Position</b>  | <b>% of<br/>Marks</b> | <b>University/ Board</b>  | <b>Year of<br/>Passing</b> |
|--|--|-----------------------|---|----------------------------|
| <b>Ph.D.</b><br>(Environmental Engineering)                  | <b>1<sup>st</sup> Division</b>   | 90.44%                | Mehran University of<br>Engineering & Technology,<br>Jamshoro                 | 2014                       |
| <b>M.E.</b><br>(Environmental Engineering<br>& Management)   | <b>1<sup>st</sup> Division</b>   | 89.03%                |   | 2010                       |
| <b>P.G.D.</b><br>(Environmental Engineering<br>& Management) | <b>1<sup>st</sup> Division</b>   | 89.03%                |   | 2009                       |
| <b>B.E.</b><br>(Mechanical Engineering)                      | <b>1<sup>st</sup> Division,<br/>1<sup>st</sup> Position,<br/>Faculty Top</b> | 90.64%                | Quaid-e-Awam University of<br>Engineering, Science &<br>Technology, Nawabshah | 2004                       |

## **PROJECT EXPERIENCE**

### **From 2009 to 2011 (Three years)**

Worked as the **Project Engineer** and have done the feasibility study, Design, Construction and operation of Pilot Scale Biogas Plant. Project funded by United Nations Environment Programme (UNEP) Osaka Japan.

## **ADJUNCT/ VISITING FACULTY**

### **From 2017 to 2018**

Adjunct Faculty in the US-Pakistan Center of Advance Studies in Water (USPCAS-W) Jamshoro Sindh Pakistan.

## **PROFESSIONAL TRAININGS**

1. **IOSH Managing Safely** a course approved and validated by the Institution of Occupational Safety and health, United Kingdom in association with Maxtrain International, held on 11<sup>th</sup> September 2016 with the Certificate No. 481379.
2. **Full Day Workshop** on “Capacity Building for Outcome Based Education and Assessment Implementation” held on 30<sup>th</sup> September, 2016, organized by Mehran University of Engineering & Technology Jamshoro in collaboration with Pakistan Engineering Council.
3. **One Day Workshop** on “Outcome Based Education and Accreditation System” held on 5<sup>th</sup> May, 2016, organized by Office of Research, Innovation & Commercialization (ORIC), Mehran University of Engineering & Technology Jamshoro.
4. **One Day Short Course** on “Application of MATLAB in Modeling of Environmental Systems”, held in September 2013, organized by Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology Jamshoro.
5. **Three Day workshop** on “Applications of Chromatographic Techniques in residue analysis”, organized by National Centre of Excellence in Analytical Chemistry, Jamshoro, Sindh – PAKISTAN, 18-20 February, 2013.
6. **Basic Operation and Maintenance Training of Gas Chromatograph**, on GC-2010 plus, SHIMADZU Japan, February to March, 2012.
7. **2<sup>nd</sup> Teachers Training Course**, held in February 2009, organized by The Directorate of Continuing Education, Mehran University of Engineering & Technology Jamshoro.
8. **28<sup>th</sup> Management Induction Course for Junior Engineers** at WAPDA staff College Islamabad from 22-11-2004 to 01-01-2005
9. **27<sup>th</sup> Integrated Induction Course for Jr. Engineers (Generation)** at WAPDA Engineering Academy Faisalabad from 18-10-2004 to 13-11-2004
10. **Internship at Pakistan Machine Tool Factory (Pvt.) Ltd.** A company of State Engineering Corporation, Ministry of Industries and Production, Government of Pakistan, for five weeks from 19-06-2002 to 20-07-2002

## **AWARDS & MEDALS**

1. **Ph.D. Tuition Fee** was financed through Prime Minister's Fee Reimbursement of Scheme for the session 2013-14.
2. **Ph.D. RESEARCH SCHOLARSHIP** awarded by Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan for the session 2012-14.
3. **M.E. SCHOLARSHIP** awarded by Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan for the session 2008-2010.
4. **GOLD MEDAL**, from Quaid-e-Awam University of Engineering, Science & Technology Nawabshah, on **FACULTY TOP** in Faculty of Engineering in 2004.
5. **SILVER MEDAL**, from Quaid-e-Awam University of Engineering, Science & Technology Nawabshah, on securing **1<sup>ST</sup> POSITION** in B.E. (Mechanical Engineering) in 2004.
6. Nominated for **PRESIDENTIAL AWARD** for **IZAZ-E-SADAQAT** for the year 2005 (passing year 2004) for best students on cumulative record basis at Graduate in Engineering.
7. **2<sup>ND</sup> POSITION SHIELD** in all Pakistan project design competition, arranged by SAFE and Higher Education Commission Pakistan in 2003.
8. Continuous **four times** yearly **MERIT SCHOLARSHIPS** on securing class position during undergraduate studies by Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah, Pakistan for the year 2000-04.
9. Quaid-e-Azam Aligarh Trust, **MERIT SCHOLARSHIP** awarded for the year 2002.

## **COMPUTER LITERACY**

1. MS DOS 6.22
2. MS Windows 3.2 to 11
3. MS FORTRAN 95
4. MS Office 97 to 365
  - a. MS World
  - b. MS Excel
  - c. MS Power Point
  - d. MS Draw
  - e. MS Publisher
5. Corel Graphics Suit 5 to X12
  - a. Corel Draw
  - b. Corel Photo-paint
  - c. Corel Trace
  - d. Corel R.A.V.E
6. Inpage Urdu 2000/Xp
7. Visual Fox Pro (Essentials)
8. MATLAB (Essentials)
9. Visual Basic (Essentials)
10. C ++ (Essentials)
11. Math CAD 2000
12. Auto CAD 2000/ 2002/ 2006/ 2011/ 2014/ 2015
  - a. 2D working and assembly drawings
  - b. 3D parts and assembly drawings
13. Graph Pad Prism 5.0/ 6.0/ 8.0
14. Sweet Home 3D
15. Data Fit 9.0

## PUBLICATIONS IN RESEARCH JOURNALS

| SNo. | Description  |
|------|--|
| 43   | Abdul Aziz Maher Abdul Razzaque Sahito, Kainat Aziz. FABRICATION AND PERFORMANCE EVALUATION OF IMPROVED FORCED DRAFT STOVE. Science International (Lahore), 35(5),585-590,2023 ISSN 1013-5316  |
| 42   | Farooq Ali, Abdul Razaque Sahito. Environmental, Social & Occupational Health & Safety (ESOHS) Risk and Impact Assessment of 2x660 MW Supercritical Coal Fired Power Plant Jamshoro. International Journal of Innovative Science and Research Technology. Volume 8, Issue 7, July 2023.  |
| 41   | Kainat Mengal, Abdul Razzaque Shaito, Abdul Aziz Maher. Energy Sources for Charging Electric Vehicles in Pakistan: A Solution to Global Problem. ENGINEERING SCIENCE AND TECHNOLOGY INTERNATIONAL RESEARCH JOURNAL, VOL.6, NO.3, SEP, 2022   |
| 40   | Tagar, U., Sahito, A.R., Kumar, L. et al. Lab-scale design and fabrication for biogas quality measurement. Biomass Conversion and Biorefnery (2022). <a href="https://doi.org/10.1007/s13399-022-03573-z">https://doi.org/10.1007/s13399-022-03573-z</a>   |
| 39   | Kandhro, B., Sahito, A.R., Nixon, J.D. et al. Seasonal variation in biogas production in reinforced concrete dome biogas plants with buffalo dung in Pakistan. Biomass Conversion and Biorefnery (2022). <a href="https://doi.org/10.1007/s13399-022-02654-3">https://doi.org/10.1007/s13399-022-02654-3</a>   |
| 38   | Ikirsha Jokhio, Sundus Saeed Qureshi, Abdul Razzaq Sahito, Mehr-un-Nisa Qureshi, Imtiaz Ahmed Lashari, N.M. Mubarak, Manoj Tripathi, Amal M. Al-Mohaimeed, Mohamed S. elshikh. Enhanced bio-methane and bio-hydrogen production using banana plant waste and sewage sludge through anaerobic co-digestion. International Journal of Hydrogen Energy. (IF = 5.8). <a href="https://doi.org/10.1016/j.ijhydene.2022.04.238">https://doi.org/10.1016/j.ijhydene.2022.04.238</a> |
| 37   | Altaf Alam Noonari, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Khan Muhammad Brohi. Effects of isolated fungal pretreatment on bio-methane production through the co-digestion of rice straw and buffalo dung. Energy, 206, (2020), 118107, <a href="https://doi.org/10.1016/j.energy.2020.118107">https://doi.org/10.1016/j.energy.2020.118107</a> <b>{W-Category by HEC}</b>  |
| 36   | Tofique Ahmed Mallah, <b>Abdul Razaque Sahito</b> . OPTIMIZATION OF CASTOR AND NEEM BIODIESEL BLENDS AND DEVELOPMENT OF EMPIRICAL MODELS TO PREDICT ITS CHARACTERISTICS. Fuel, 262, (2020), 116341, <a href="https://doi.org/10.1016/j.fuel.2019.116341">https://doi.org/10.1016/j.fuel.2019.116341</a> <b>{W-Category by HEC}</b>   |
| 35   | Imran Ali Rajar, <b>Abdul Razzaque Sahito</b> , Prem Salhani, Shams Kharrik. Carbon credit potential of biogas plants in Pakistan. International Journal of Modern Research in Engineering & Management (IJMREM), 2(9): 32-38, (2019). [ISSN: 2581-4540]   |
| 34   | Salahudin Panhwar, <b>Abdul Razaque Sahito</b> , Ghulam Shabir Solangi, Rasool Bux Mahar, AND Jawahar Lal. Methane Production by Anaerobic Digestion of Spent Wash in Continuous Stirred Tank Reactor. Mehran University Research Journal of Engineering & Technology, 38:3, pp. 791-798, (2019), DOI: <a href="https://doi.org/10.22581/muet1982.1903.21">https://doi.org/10.22581/muet1982.1903.21</a> <b>{X-Category by HEC}</b>  |



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| 33 | Sundus Saeed Qureshi, <b>Abdul Razaque Sahito</b> , Ankit Jhadav, Sabzoi Nizamuddin, Syed Feroz Shah, N. M. Mubarak. Process optimization and empirical model development for lignocellulosic biomass via gravimetric analysis. <i>Biomass Conversion and Biorefinery</i> , 10, 447–461 (2020), DOI <a href="https://doi.org/10.1007/s13399-019-00434-0">https://doi.org/10.1007/s13399-019-00434-0</a> <b>{W-Category by HEC}</b>   |
| 32 | Rehan Aslam, <b>Abdul Razzaque Sahito</b> , Manoj Kumar Maheshwari, Agha Shafi Muhammad, Allah Dino Amur. Assessing the Energy & Environmental Benefits and Socio-Economic Impacts of Solar Microgrid in Rural Areas in Sindh. <i>International Journal of Modern Research in Engineering &amp; Management (IJMREM)</i> , 2(5): pp. 13 – 29, (2019). [ISSN: 2581-4540]   |
| 31 | Altaf Alam Noonari, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Khan Muhammad Brohi. Optimization of Methane Production from Rice Straw and Buffalo Dung by H <sub>2</sub> O <sub>2</sub> and Ca(OH) <sub>2</sub> : Pretreatments and Its Kinetics. <i>Waste and Biomass Valorization</i> . 10: pp. 899–908, (2019). DOI <a href="https://doi.org/10.1007/s12649-017-0102-z">https://doi.org/10.1007/s12649-017-0102-z</a> <b>{W-Category by HEC}</b>  |
| 30 | Altaf Alam Noonari, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Khan Muhammad Brohi. Anaerobic co-digestion of canola straw and banana plant wastes with buffalo dung: Effect of Fe <sub>3</sub> O <sub>4</sub> nanoparticles on methane yield. <i>Renewable Energy</i> , 133, pp. 1046-1054 (2019). <a href="https://doi.org/10.1016/j.renene.2018.10.113">https://doi.org/10.1016/j.renene.2018.10.113</a> <b>{W-Category by HEC}</b>  |
| 29 | Yaoming Li, Farman Ali Chandio, Zheng Ma, Imran Ali Lakhari, <b>Abdul Razaque Sahito</b> , Fiaz Ahmad, Irshad Ali Mari, Umer Farooq, Muhammad Suleman. Mechanical strength of wheat grain varieties influenced by moisture content and loading rate. <i>International Journal of Agricultural and Biological Engineering</i> , 11:4, pp. 52-57, (2018), Online at <a href="https://ijabe.org/index.php/ijabe/article/view/3737">https://ijabe.org/index.php/ijabe/article/view/3737</a> <b>{W-Category by HEC}</b> |
| 28 | Zulqarnen Asadullah Khoso Baloch, Abdul Latif Qureshi, <b>Abdul Razaque Sahito</b> , Ahsanullah Baloch. Numerical Simulation of Mixing of Effluent through Porous Media: The Effects of Local Inertia on the Flow. <i>Mehran University Research Journal of Engineering &amp; Technology</i> , 37:2, pp. 405-416, (2018), DOI: <a href="https://doi.org/10.22581/muet1982.1802.16">https://doi.org/10.22581/muet1982.1802.16</a> <b>{X-Category by HEC}</b>  |
| 27 | Maryam Arain, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> . Biohydrogen Production from Co-Digestion of High Carbohydrate Containing Food Waste and Combined Primary and Secondary Sewage Sludge. <i>Mehran University Research Journal of Engineering &amp; Technology</i> , 37:1, pp. 139-148, (2018), DOI: <a href="https://doi.org/10.22581/muet1982.1801.12">https://doi.org/10.22581/muet1982.1801.12</a> <b>{X-Category by HEC}</b>   |

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| 26 | Muhammad Faizer Ali, <b>Abdul Razaque Sahito</b> , Ali Akbar Babar. Arsenic removal from groundwater by producing activated carbon from cotton gin trash (AC-CGT) - A case study of Sakrand, district Shaheed Benazirabad, Sindh, Pakistan. International Journal of Agricultural and Environmental Research, 4(3): pp. 169 – 175, (2018). <b>ISSN 2414-8245 (Online), ISSN 2518-6116 (Print)</b>   |
| 25 | Iqra Panhwar, <b>Abdul Razaque Sahito</b> , Sukru Dursun. Designing Off-Grid and On-Grid Renewable Energy Systems Using HOMER Pro Software. Journal of International Environmental Application & Science, Vol. 12(4): 270-276 (2017) <a href="https://dergipark.org.tr/tr/download/article-file/567739">https://dergipark.org.tr/tr/download/article-file/567739</a> [ <b>ISSN: 1307-0428</b> ]   |
| 24 | Imdad Ali Kandhar, Ghous Bux Khaskheli, <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar. Assessing the Removal of Turbidity and Coliform Transport through Canal-Bed Sediment at Lab-Scale: Column Experiments. Mehran University Research Journal of Engineering & Technology, 36:4, pp. 995-1008, (2017), <b>DOI: <a href="https://doi.org/10.22581/muet1982.1704.24">https://doi.org/10.22581/muet1982.1704.24</a> {X-Category by HEC}</b>  |
| 23 | Amjad Ali shah, <b>Abdul Razaque Sahito</b> . Appraisal of Biogas Potential of Biogas from Animal Dung in Saeedabad, Pakistan. Mehran University Research Journal of Engineering & Technology, 36:3, pp. 707-718, (2017), <b>DOI: <a href="https://doi.org/10.22581/muet1982.1703.25">https://doi.org/10.22581/muet1982.1703.25</a> {X-Category by HEC}</b>   |
| 22 | Altaf Alam Noonari, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Khan Muhammad Brohi. Improving Methane Production through Co-Digestion of Canola Straw and Buffalo Dung by H <sub>2</sub> O <sub>2</sub> Pretreatment. Mehran University Research Journal of Engineering & Technology, 36:1, pp. 193-200, (2017), <b>DOI: <a href="https://doi.org/10.22581/muet1982.1701.19">https://doi.org/10.22581/muet1982.1701.19</a> {X-Category by HEC}</b>                                 |
| 21 | Imdad Ali Kandhar, Ghous Bux Khaskheli, <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar. Effect of Canal Bank Filtration on Quality of Water along Hyderabad City. Mehran University Research Journal of Engineering & Technology, 35:3, pp. 439-454, (2016), <b>DOI: <a href="https://doi.org/10.22581/muet1982.1603.14">https://doi.org/10.22581/muet1982.1603.14</a> {X-Category by HEC}</b>  |
| 20 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Farooq Ahmed. Optimization of organic loading rate and hydraulic retention time for maximum production of methane through anaerobic co-digestion of canola straw and buffalo dung. The Journal of Animal & Plant Sciences, 26(3), pp. 373-381, (2016), ISSN: 1018-7081 <a href="http://www.thejaps.org.pk/Volume/2016/26-02/abstract/11.php">http://www.thejaps.org.pk/Volume/2016/26-02/abstract/11.php</a> <b>{W-Category by HEC}</b> |
| 19 | Altaf Alam Noonari, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> . Assessment of air pollution and its effects on health of workers of steel re-rolling mills in Hyderabad.  |

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|    | Mehran University Research Journal of Engineering & Technology, 35:2, pp. 293-302, (2016), DOI: <a href="https://doi.org/10.22581/muet1982.1602.15">https://doi.org/10.22581/muet1982.1602.15</a> <b>{X-Category by HEC}</b>  |
| 18 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Manzoor-ul-Haq Rajput. Development of volumetric methane measurement instrument for laboratory scale anaerobic reactors. Mehran University Research Journal of Engineering & Technology, 34:3, 309-316, (2015). <b>{X-Category by HEC}</b>  |
| 17 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Farman Ali Chandio. Anaerobic Digestion of Buffalo Dung: Simulation of Process Kinetics. Mehran University Research Journal of Engineering & Technology, 34:1, 40-45, (2015). <b>{X-Category by HEC}</b>  |
| 16 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar. Enhancing Methane Production from Rice Straw Co-Digested With Buffalo Dung by Optimizing: Effect of Substrate Ratio, Alkaline Doze, and Particle Size. The Journal of Animal & Plant Sciences, 24(4), pp. 1076-1084, (2014), ISSN: 1018-7081 <a href="http://www.thejaps.org.pk/Volume/2014/24-4/abstracts/17.php">http://www.thejaps.org.pk/Volume/2014/24-4/abstracts/17.php</a> <b>{W-Category by HEC}</b> |
| 15 | Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Dongbei Yue, Kamranullah Khan. Modeling and Simulation of landfill gas production from pretreated MSW landfill simulator. Frontiers of Environmental Science and Engineering. April 2014, pp. 1-9. DOI 10.1007/s11783-014-0685-6 <b>{W-Category by HEC}</b>   |
| 14 | Zuhaib Siddiqui, Nigel. J Horan, <b>Abdul Razaque Sahito</b> , Jamila Abdulkadir, Sheeraz Ahmed Memon. Optimising the production of energy from coblended food waste and biosolids using batch reactor studies. Water and Environment Journal. 28:4, 483-489, (2014). <a href="https://doi.org/10.1111/wej.12060">https://doi.org/10.1111/wej.12060</a> <b>{W-Category by HEC}</b>  |
| 13 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Khan Muhammad Brohi. Anaerobic Co-Digestion of Canola Straw and Buffalo Dung: Optimization of Methane Production in Batch Experiments. Mehran University Research Journal of Engineering & Technology, 33:1, 49-60, (2014). <b>{X-Category by HEC}</b>  |
| 12 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Farooq Ahmed. Effect of Buffalo Dung to the Water Ratio on Production of Methane through Anaerobic Digestion. Mehran University Research Journal of Engineering & Technology, 33:2, 237-244, (2014). <b>{X-Category by HEC}</b>   |
| 11 | Muhammad Safar Korai, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> . Characterization and Aerobic Biological Treatment of MSW: A Case Study of Hyderabad City. Mehran  |

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|    | University Research Journal of Engineering & Technology, 33:3, 322-329, (2014). <b>{X-Category by HEC}</b>  |
| 10 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Khan Muhammad Brohi. Kinetics of Anaerobically Co–Digested Crop Residues and Buffalo Dung. Sindh University Research Journal (Science Series), 46:1, 09-14, (2014). <a href="https://sujo-old.usindh.edu.pk/index.php/SURJ/article/view/1815">https://sujo-old.usindh.edu.pk/index.php/SURJ/article/view/1815</a> <b>{X-Category by HEC}</b>                                    |
| 9  | Irfan Ahmed Shaikh, Farooq Ahmed, <b>Abdul Razaque Sahito</b> , Ashfaq Ahmed Pathan. In-situ Decolorization of Residual Dye Effluent in Textile Jet Dyeing Machine by Ozone. Pakistan Journal of Analytical & Environmental Chemistry, 15(2), 71-76, (2014). ISSN 2221-5255. <a href="http://www.pjaec.pk/index.php/pjaec/article/view/173">http://www.pjaec.pk/index.php/pjaec/article/view/173</a> <b>{Y-Category by HEC}</b> |
| 8  | Farooq Ahmed, Sidra Saleemi, Abdul Waqar Rajput , Irfan Ahmed Sheikh, <b>Abdul Razaque Sahito</b> . Characterization of Rotor Spun Knitting Yarn at High Rotor Speeds. Technical Journal, {University of Engineering and Technology Taxila Pakistan}, 19(IV), 73-78, 2014. <b>{Y-Category by HEC}</b>   |
| 7  | Farooq Ahmed, Abdul Waqar Rajput, <b>Abdul Razaque Sahito</b> , Sidra Saleemi. Impact of trifling quantity of polyester on physical characterization of low twist rotor spun blended yarn. SCIENCE INTERNATIONAL-LAHORE, 26(1), 279-282, (2014). [ISSN 1013-5316] <b>{Y-Category by HEC}</b>  |
| 6  | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Khan Muhammad Brohi. Assessment of Ex Vitro Anaerobic Digestion Kinetics of Crop Residue through First Order Exponential Models: Effect of Lag Phase Period and Curve Factor. Mehran University Research Journal of Engineering & Technology, 32:4, 657-668, (2013). <b>{X-Category by HEC}</b>   |
| 5  | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Zuhaib Siddiqui, Khan Muhammad Brohi. Estimating calorific values of lignocellulosic biomass from volatile and fixed solids. International Journal of Biomass & Renewables. 2:1, 1-6, (2013). [ISSN 2289-1692],   |
| 4  | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Khan Muhammad Brohi. Anaerobic Biodegradability and Methane Potential of Crop Residue Co–Digested with Buffalo Dung. Mehran University Research Journal of Engineering & Technology, 32:3, 509-518, (2013). <b>{X-Category by HEC}</b>  |
| 3  | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Syed Feroz Shah, Khan Muhammad Brohi. A Correlation for Estimating Elemental Composition of Lignocellulosic Biomass from Its Volatile and Fixed Solids Content. Sindh University Research Journal (Science  |

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| 2 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Mushtaque Ahmed Memon, Khan Muhammad Brohi. Assessment of Waste Agricultural Biomass for Prevailing Management, Quantification and Energy Potential at Sanghar Pakistan. Waste and Biomass Valorization. 3,275-284, (2012). DOI 10.1007/s12649-012-9132-8 <b>{W-Category by HEC}</b>   |
| 1 | Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Muhammad Aslam Uqaili. Biomethanization Potential of Waste Agricultural Biomass in Pakistan: A Case Study. International Journal of Biomass & Renewables. 1, 32-37, (2012). [ISSN 2289-1692] <a href="http://myjms.mohe.gov.my/index.php/ijbr/article/view/6959">http://myjms.mohe.gov.my/index.php/ijbr/article/view/6959</a> |

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1. **Abdul Razaque Sahito**, Rasool Bux Mahar. Waste Agricultural Biomass in Pakistan: Management, Quantification, Characterization and Energy Potential in Sanghar. (2012) ISBN: 978-3-659-18862-6. Lambert Academic Publishing GmbH & Co. KG
2. **Abdul Razaque Sahito**, Applications of Gas Turbine: Future Energy Conversion. (2017) ISBN: 978-3-330-04859-1. Lambert Academic Publishing GmbH & Co. KG

## **PUBLICATIONS IN CONFERENCES**

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| 44 | Saheba Memon, <b>Abdul Razzaque Sahito</b> , Siddiqa Soomro, and Maham Imtiaz. Development of the Model to Estimate the Biodegradable Solid Waste Generation Rate. International Conference on Sustainable Development in Civil Engineering, 16-18 February 2023 (ICSDC 2023), page 293-298.  |
| 43 | Siddiqa Soomro, <b>Abdul Razzaque Sahito</b> , Maham Imtiaz, and Saheba Memon. An Empirical Study on the Cost of Collection of the MSW – A Case Study of Hyderabad. International Conference on Sustainable Development in Civil Engineering, 16-18 February 2023 (ICSDC 2023), page 299-305.   |
| 42 | Ikirsha Jokhio, <b>Abdul Razaque Sahito</b> , Mehr-un-Nisa Qureshi. Stabilization & Optimization of Sewage Sludge in CSTR for Anaerobic Co-Digestion of Banana Plant Waste & Sewage Sludge. 2 <sup>nd</sup> International Conference on Sustainable Development in Civil Engineering held on 5-7 <sup>th</sup> , December, 2019 (ICSDC-2019), page 105. |

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| 41 | Mehr-un-Nisa Qureshi, <b>Abdul Razaque Sahito</b> , Ikirsha Jokhio. Stabilization of 1:1 Ratio of Buffalo Dung and Water in CSTR for Anaerobic Co-Digestion of Banana Plant Waste and Buffalo Dung. 2 <sup>nd</sup> International Conference on Sustainable Development in Civil Engineering held on 5-7 <sup>th</sup> , December, 2019 (ICSDC-2019), page 106.   |
| 40 | Tofique Ahmed Mallah, <b>Abdul Razaque Sahito</b> , Imtiaz Ahmed Lashari. Improving the Quality of Biodiesel Production by Mixing of Non-Edible Ricinus Communis (Castor Seed) Biodiesel with a Neem Biodiesel. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 113                                      |
| 39 | Hasnain Ahmed Khanzada, <b>Abdul Razzaque Sahito</b> . Assessment of Physical Strength of Briquettes Made from Waste Agricultural Biomass at Different Ratios. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 116   |
| 38 | Sundus Saeed Qureshi, Sabzoi Nizamuddin, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Feroz Shah. Microwave-Assisted Hydrothermal Carbonization of Rice Industry Waste. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 124   |
| 37 | Sundus Saeed Qureshi, Sabzoi Nizamuddin, Rasool Bux Mahar, <b>Abdul Razaque Sahito</b> , Feroz Shah. POLYLACTIDE/BIOCHAR COMPOSITE: Application of Biochar Produced by Microwave-Assisted Pyrolysis of Rice Husk as Filler For Polymer Composite. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 125    |
| 36 | Rehan Aslam Arain, <b>Abdul Razzaque Sahito</b> , Aijaz Ali, Shafi Muhammad Pathan, and Manoj Kumar Maheshwari. Assessing the Socio-Economic Impacts and Energy & Environmental Benefits of Solar Micro- Grids on Villages in Gharo District Thatta. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 159 |
| 35 | Imran Ali Rajar, <b>Abdul Razzaque Sahito</b> , Prem Salhani, Shams Kharrik. Global Warming Mitigation Potential of Biogas Plants and its Carbon Credit in Pakistan. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 181   |
| 34 | Shams Kharrik, Abdul Razaque Sahito, Agha Shafi Muhammad Pathan, and Imran Ali Rajar. Quantitative Assessment of Mine Water at Lakhra Coal Field as a Source of Drinking Water. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 262  |
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|    | Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 275   |
| 31 | Ahsan Morai, <b>Abdul Razaque Sahito</b> . Desalination of Groundwater through Adsorptive Multi Effect Distillation. Presented in 5 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16 <sup>th</sup> , November, 2018 (EESD-2018), pp. 276   |
| 30 | <b>Abdul Razaque Sahito</b> , Allah Dino Amur. Assessment and Technology Selection for exploiting energy/material from the wasted crop residues and animal manure in Taluka Mehrabpur Sindh. Presented in 2 <sup>nd</sup> International Conference on Chemical Engineering, organized by Department of Chemical Engineering, Mehran UET Jamshoro held at Movenpick Hotel, Karachi, held on 22-23 January 2018.          |
| 29 | Muhammad Faizer Ali, <b>Abdul Razaque Sahito</b> . Preparation and Characterization of FeCl <sub>3</sub> -Based Activated Carbon Obtained from Cotton Ginning Trash. Presented in International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering, Mehran University of Engineering & Technology Pakistan, held on 23-25 November, 2017, pp. 88.                 |
| 28 | Muhammad Azam Arain, <b>Abdul Razaque Sahito</b> . Comparing Effects of Leachate Circulation on Mixed Municipal Solid Waste Organic Fraction of Municipal Solid Waste. Presented in International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering, Mehran University of Engineering & Technology Pakistan, held on 23-25 November, 2017, pp. 87.               |
| 27 | Ateeq Ahmed Memon, <b>Abdul Razaque Sahito</b> , Syed Amjad Ali, M. Waryal Dahiri. Refused derived fuel production from Hyderabad Municipal Solid Waste. Presented in International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering, Mehran University of Engineering & Technology Pakistan, held on 23-25 November, 2017, pp. 86.                             |
| 26 | Muhammad Babar, <b>Abdul Razaque Sahito</b> , Khan Muhammad Brohi. Value Addition to Fixed Dome Biogas Plant to Anaerobic Digestion. Presented in International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering, Mehran University of Engineering & Technology Pakistan, held on 23-25 November, 2017, pp. 85.   |
| 25 | Abid Ali, <b>Abdul Razaque Sahito</b> . Potential of Bio-ethanol from Waste Bread. Presented in International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering, Mehran University of Engineering & Technology Pakistan, held on 23-25 November, 2017, pp. 61.   |
| 24 | Iqra Panhwar, <b>Abdul Razaque Sahito</b> . Designing Off-Grid and On-Grid Electricity Generation with Renewable Energy Technologies for IEEM, MUET Jamshoro by using HOMER Software. Presented in International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering, Mehran University of Engineering & Technology Pakistan, held on 23-25 November, 2017, pp. 58 |
| 23 | Irfan Hassan Nizamani, <b>Abdul Razaque Sahito</b> . Maximizing the production of the Biogas by varying total solids concentrations through Pilot Scale Anaerobic Digester. Presented in 1 <sup>st</sup> Young Researchers' National Conference on Water and Environment, organized by U.S.-Pakistan Center of Advance Studies in Water,  |

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|    | Mehran University of Engineering & Technology Pakistan and The University of UTAH United States, held on 22-23 May, 2017, pp. 42  |
| 22 | Barkatullah Kandhro, <b>Abdul Razaque Sahito</b> , Khanji Harijan, Jonathan Daniel. Seasonal effect on the efficiency of reinforced concrete dome biogas plant and post digestate potential. Presented in 1 <sup>st</sup> International Conference on Modern Trends in Science, Engineering & Technology: Road Map for Sustainable and Collaborative Development, Organized by Dawood University of Engineering & Technology, Karachi Pakistan, held on 27-28 April, 2017 at Hotel Perl Continental, Karachi. |
| 21 | Sundus Saeed, <b>Abdul Razaque Sahito</b> . Effect of Nitrogen Purging on Gravimetric analysis of Lignocellulosic Biomass. Presented in 1 <sup>st</sup> International Conference on Advance Materials and Processing, held on 28 <sup>th</sup> February to 2 <sup>nd</sup> March, 2017 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 54  |
| 20 | Uroosa Tagar, <b>Abdul Razaque Sahito</b> , Sundus Saeed, Imtiaz Lashari. Design and Fabrication of Simple Lab Scale Apparatus for Measurement of Biogas Quality. Presented in 1 <sup>st</sup> International Conference on Advance Materials and Processing, held on 28 <sup>th</sup> February to 2 <sup>nd</sup> March, 2017 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 59   |
| 19 | Inamullah, Abdul Qayoom, <b>Abdul Razaque Sahito</b> , Faisal Hussain Memon. Shale Reserves; A Key Source to Overcome Energy Crisis. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 109  |
| 18 | Nanik Ram, Munir Abbas Kalhoro, <b>Abdul Razaque Sahito</b> . Environmental Impacts of Oil and Gas Drilling Activities. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 119   |
| 17 | Iqra Panhwar, Saba Rao, <b>Abdul Razaque Sahito</b> . Review Study on Smart Grid. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 131   |
| 16 | Prem Salhani, Imran Ali, <b>Abdul Razaque Sahito</b> . A review on Major Environmental Impacts of Petroleum Industry in Pakistan. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 148   |
| 15 | Saba Rao, <b>Abdul Razaque Sahito</b> , Iqra Panhwar. Environmental Impacts of Thar Coal Mining. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 156  |
| 14 | Arif Hussain Jauto, Asif Ali Khatak, <b>Abdul Razaque Sahito</b> . Environmental Impacts of Hydro Power Plant Naltar [16MW], Gilgit Baltistan. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 258  |



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| 13 | Najeebullah Channa, Dost Ali Abbasi, <b>Abdul Razaque Sahito</b> , Rashid Ali, Sajid Ali, Muhammad Yasir, Muhammad Aslam, Ameet Kumar. Domestic Fixed Dome Biogas Plant Installed at Khaskheli Village Hyderabad Bypass. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 273 |
| 12 | Waqar Asghar, Muhammad Shoab Khan, <b>Abdul Razaque Sahito</b> . Green Supply Chain Management. Presented in 4 <sup>th</sup> International Conference on Energy, Environment and Sustainable Development, held on 1-3 <sup>rd</sup> November, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 299  |
| 11 | Muhammad Babar, Deepak Kumar, <b>Abdul Razaque Sahito</b> , Sheeraz Ahmed Memon, Khan Muhammad Brohi. Potential of Solar Thermal Energy Utilization in Electrical Generation in Pakistan. 1 <sup>st</sup> National Conference on Environmental Engineering & Management, held on 13-14 <sup>th</sup> April, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 13.  |
| 10 | Muhammad Saqib, <b>Abdul Razaque Sahito</b> , Khanji Harijan. Application of Ozone in Cooling Towers. 1 <sup>st</sup> National Conference on Environmental Engineering & Management, held on 13-14 <sup>th</sup> April, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 31.  |
| 09 | Sajid Hussain Mangi, <b>Abdul Razaque Sahito</b> , Khan Muhammad Brohi, Muhammad Asfand Nizamani. Slingshot Water Vapor Distillation System. 1 <sup>st</sup> National Conference on Environmental Engineering & Management, held on 13-14 <sup>th</sup> April, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 15.   |
| 08 | Irfan Hassan Nizamani, <b>Abdul Razaque Sahito</b> , Rafi-u-Zaman, Imtiaz Lashari, Uroosa Tagar and Sundus Saeed. A Review Study on Enhancement in Production of Methane by Varying the Concentration of Total Solid. 1 <sup>st</sup> National Conference on Environmental Engineering & Management, held on 13-14 <sup>th</sup> April, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 25.                                |
| 07 | Uroosa Tagar, <b>Abdul Razaque Sahito</b> , Imtiaz Ahmed Lashari, Irfan Hassan Nizamani, Saeed Ahmad Khooharo. Review Study on Removal Techniques for CO <sub>2</sub> and H <sub>2</sub> S in Biogas. 1 <sup>st</sup> National Conference on Environmental Engineering & Management, held on 13-14 <sup>th</sup> April, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 36.  |
| 06 | Adeel Ali Memon, Barkatullah Kandhro, <b>Abdul Razaque Sahito</b> , Khan Muhammad Brohi. Ethanol Production from Maize. 1 <sup>st</sup> National Conference on Environmental Engineering & Management, held on 13-14 <sup>th</sup> April, 2016 at Mehran University of Engineering & Technology, Jamshoro Pakistan. pp. 28.  |
| 05 | Sundus Saeed, Urooj Baog, Ghazala Akbar Jamali, Saeed Ahmed Khokhar, Irfan Ahmed Nizamani, <b>Abdul Razaque Sahito</b> . Effect of Nitrogen on Lignocellulose Biomasses, Microbial Enzymes and Soil Labile: A Review. pp. 17.  |
| 04 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Khan Muhammad Brohi. Assessment of Environmental Sound Technology for Converting Waste Agricultural Biomass into Energy at District Sanghar, Pakistan. Proceeding of the 3 <sup>rd</sup> International Conference on Energy, Environment and Sustainable Development. Organized by   |

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|    | Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan 22-24 <sup>th</sup> October 2014.  |
| 03 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Khan Muhammad Brohi. Management Practices of Agricultural Biomass in District Sanghar, Pakistan. Proceeding of the 4 <sup>th</sup> National Conference on Energy & Environment "Role of Energy Resources in Sustainability of Environment" Organized by Energy & Environment Engineering Department QUEST, Nawabshah, held on 13-14 <sup>th</sup> February 2014. |
| 02 | <b>Abdul Razaque Sahito</b> , Rasool Bux Mahar, Ashfaq Ahmed Pathan. Prediction of gross calorific values of lignocellulosic biomass from volatile and fixed solids. Proceeding of the 2 <sup>nd</sup> International Conference on Energy, Environment & Sustainable Development, Mehran University of Engineering & Technology Jamshoro, Sindh, Pakistan 27-29 <sup>th</sup> February 2012.                     |
| 01 | Rasool Bux Mahar, Muhammad Safar Korai, <b>Abdul Razaque Sahito</b> . Characterization and quantification of MSW of Hyderabad, Pakistan. Proceeding of the 12 <sup>th</sup> International Conference on Environmental Science and Technology, Rhodes, Greece, 8-10 <sup>th</sup> September 2011.   |

#### **SEMINARS/ WORKSHOPS ORGANIZED**

1. One Day Seminar on "Water, Energy and Sustainable Development" held on 2<sup>nd</sup> November 2016, organized by Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro [*Organizing Secretary*]
2. 1<sup>st</sup> National Conference on Environmental Engineering & Management, 13-14<sup>th</sup> April 2016, organized by Institute of Environmental Engineering & Management, Mehran University of Engineering & Technology, Jamshoro [*Organizing Secretary*]
3. Two days stake holders' consultation workshop on waste agricultural biomass utilization as energy/resource, 13-14<sup>th</sup> January 2010 at Mehran University of Engineering & Technology, Jamshoro & Darbar Hall Sanghar [*Organizing Secretary*]
4. One day stake holders' consultation workshop on technology assessment of waste agricultural biomass, 28<sup>th</sup> April 2010 at Nazim Secretariat, Sanghar [*Organizing Secretary*]
5. One day seminar on environmental sound technology assessment & implementation strategy for converting waste agricultural biomass into energy, 4<sup>th</sup> November 2010 at Mehran University of Engineering & Technology, Jamshoro [*Organizing Secretary*]

#### **CONFERENCES/ SEMINARS/ WORKSHOPS ATTENDED**

1. International Conference on Sustainable Development in Civil Engineering, 16-18 February 2023 (ICSDC 2023), Mehran University of Engineering & Technology Pakistan.

2. 2<sup>nd</sup> International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering and Institute of Environmental Engineering and Management, Mehran University of Engineering & Technology Pakistan, held on 5-7<sup>th</sup>, December, 2019 [Conference Chair]
3. 5<sup>th</sup> International Conference on Energy, Environment and Sustainable Development 14-16<sup>th</sup>, November, 2018 (EESD-2018), organized by Energy & Environmental Engineering Research Group of Mehran University of Engineering & Technology, Jamshoro.
4. 1<sup>st</sup> International Conference on Sustainable Development in Civil Engineering, organized by Department of Civil Engineering and Institute of Environmental Engineering and Management, Mehran University of Engineering & Technology Pakistan, held on 23-25 November, 2017.
5. One Day Workshop on "Biomass Energy", held on 4<sup>th</sup> November 2016 at Makhdoom Daud Hall, Mehran University of Engineering & Technology, Jamshoro funded by HEC Pakistan and British Council United Kingdom under knowledge Economy Partnership (KEP) program.
6. 4<sup>th</sup> International Conference on Energy, Environment and Sustainable Development 2016 (EESD'16), held on November 01-03, 2016, organized by Energy & Environmental Engineering Research Group of Mehran University of Engineering & Technology, Jamshoro.
7. One Day Seminar on "Biomass Resources Utilization for Clean Energy Production and Socio-Economic Development in Rural Areas" - 13<sup>th</sup> Jan 2016, Organized by Mehran University of Engineering & Technology Jamshoro Pakistan [*Keynote Speaker*].
8. Third International Conference on Energy, Environment & Sustainable Development, 22-24 October, 2014; Organized by Mehran University of Engineering & Technology Jamshoro Pakistan.
9. Fourth National Conference on Energy & Environment "Role of Energy Resources in Sustainability of Environment" Organized by Energy & Environment Engineering Department QUEST, Nawabshah, held on 13-14 February 2014.
10. First Coal Conference, 11-13 November, 2013; Organized by Mehran University of Engineering & Technology Jamshoro Pakistan.
11. Second International Conference on Energy, Environment & Sustainable Development, 27-29 February, 2012; Organized by Mehran University of Engineering & Technology Jamshoro Pakistan.
12. Second International Conference on Energy & Environment: Role of Energy Resources in Sustainability of Environment, 16-18 January, 2012; Organized by Quaid-e-Awam University of Engineering, Science & Technology, Nawabshah.
13. First International Conference on Energy, Environment & Sustainable Development, 04-06 May, 2009; Organized by Mehran University of Engineering & Technology Jamshoro Pakistan.
14. First Regional Workshop on Urban Water Demand Management, 27-28 August, 2008; Organized by National Centre of Excellence in Analytical Chemistry, Jamshoro, Sindh; Mehran University of Engineering & Technology Jamshoro; Sindh Agricultural University Tando Jam in collaboration with Exeter University, UK.

15. First International Conference on Engineering Management, Benchmarking Practices in developed countries, 4-5 March, 2008; Organized by Department of Civil Engineering, Mehran University of Engineering & Technology Jamshoro Pakistan.
16. Seminar on Latest Trends in Waste Treatment & Management in Developed Countries & Pakistan. January 8, 2008; Organized by Department of Chemical Engineering, Mehran University of Engineering & Technology Jamshoro Pakistan in collaboration with Institute for the Environment, Brunel University, West London.

## **RESEARCH PROJECTS**

1. Research project titled “Converting Waste Agricultural Biomass into Energy/ Material Resource”, Funded by United Nations Environment Programme (UNEP) Osaka Japan. Worked as the Project Engineer and have done the feasibility study, Design, Construction and operation of Pilot Scale Biogas Plant. 2009-2011. Cost of the Project was US\$ 20000/-
2. Research project titled “Optimization of anaerobic co-digestion of crop residue and buffaloes dung” approved under the HEC research program of “National Research Program for Universities” in 2015. Worked as the Second Co-Principal Investigator. Cost of the Project was Rs. 4.63 Million.

## **SUBJECTS TAUGHT AT UNDERGRADUATE LEVEL**

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| 1. Engineering Mechanics                       | [Theory + Practical] |
| 2. Thermodynamics                              | [Theory + Practical] |
| 3. Hydropower Engineering                      | [Theory + Practical] |
| 4. Fuel & Combustion                           | [Theory + Practical] |
| 5. Environmental Engineering                   | [Theory + Practical] |
| 6. Design Project – I                          | [Practical]          |
| 7. Design Project – II                         | [Practical]          |
| 8. Engineering Statics                         | [Theory + Practical] |
| 9. Engineering Dynamics                        | [Theory]             |
| 10. Solid Waste Management                     | [Theory + Practical] |
| 11. Energy Resources Management                | [Theory]             |
| 12. Thesis Project                             | [Practical]          |
| 13. Modeling of Environmental Systems          | [Theory + Practical] |
| 14. Renewable and Emerging Energy Technologies | [Theory + Practical] |

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| 15. Final Year Project (FYP)              | [Practical] |
| 16. AutoCAD for Environmental Engineering | [Practical] |

### **SUBJECTS TAUGHT AT POSTGRADUATE LEVEL**

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| 1. Environmental Pollution & Control                 | [Theory]    |
| 2. Energy & Environment                              | [Theory]    |
| 3. Municipal and Hazardous Waste Management          | [Theory]    |
| 4. Combustion and Pollution Control                  | [Theory]    |
| 5. Laboratory in Energy Systems – II                 | [Practical] |
| 6. Waste to Energy Processes                         | [Theory]    |
| 7. Advancement in Biofuels                           | [Theory]    |
| 8. Modeling in Environmental Engineering             | [Theory]    |
| 9. Solid and Hazardous Waste Management              | [Theory]    |
| 10. Renewable Energy Resources Engineering           | [Theory]    |
| 11. Green Engineering Technologies                   | [Theory]    |
| 12. Modeling in Energy and Environmental Engineering | [Theory]    |
| 13. Waste to Energy Engineering                      | [Theory]    |
| 14. Biomass Energy Technology                        | [Theory]    |