

Curriculum Vitae

PERSONAL

Dr Javaid Akhtar
Assistant Professor
Centre for Coal Technology
University of the Punjab
Lahore, Pakistan
Email: sweetsanwal@yahoo.com
Mobile: **0092311 4307106**

ENGLISH LANGUAGE SKILLS

- TOEFL 230 (CBT) Essay Rating 5.0
- IELTS 6.5
- Fully conversant with all four modules of English Writing, Reading, Speaking & Listening

EDUCATION

- 2008-2011** PhD Chemical Engineering, Universiti Teknologi Malaysia, Malaysia
- 2003-2005** MPhil Chemical Engineering, Korea Advanced Institute of Science & Technology (KAIST), South Korea
- 1998-2002** Chemical Engineering, University of the Punjab, Pakistan

EXPERIENCE

- March 2013 ~ Conti** Assistant Professor at Centre for Coal Technology at University of the Punjab
- April 2012 ~ Feb 2013** Lecturer at Centre for Coal Technology, University of the Punjab, Lahore Pakistan
- Dec 2011 ~ Mar 2012** Visiting Faculty at Chemical Engineering Department at Universiti Teknologi Malaysia, Malaysia
- Jan2006 ~ July 2008** Lecturer at Centre for Coal Technology, University of the Punjab, Lahore Pakistan
- May 2001** Research training at Layyah Sugar Mills Pakistan

Professional experience instilled in me skills for training undergraduate students, supervising research activities, project management, reporting of professional artefact.

COURSE TAUGHT to undergraduate students

- Combustion Science and Stoichiometry Calculations
- Clean Technologies
- Plant Safety Operations
- Computer applications to Engineers

SCHOLARSHIPS

- 2008-2011** Research students grant Universiti Teknologi Malaysia
- 2003- 2005** KAIST scholarship (full tuition fee waiver) and KOSEF Scholarship (living allowance) for MS studies at KAIST, South Korea
- 1998- 2002** Merit Scholarship in 3rd year of B.Sc. Chemical Engineering, University of the Punjab, Pakistan

JOURNAL ARTICLES IMPACT FACTOR = 34.3

1. A. Wahab, S. Nawaz, K. Shahzad, J. Akhtar, S. Kanwal, S. Munir, N. Sheikh, Desulfurization and Demineralization of Lakhra Coal by Molten Caustic Leaching, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, 37:1219–1223, 2015
2. Javaid Akhtar , Nor Aishah Saidina Amin, Khurram Shahzad, A review on removal of pharmaceuticals from water by adsorption, Desalination and Water Treatment, 55 (2015) 1–19
3. U Rafaqat, J Akhtar, NU Sheikh, S Munir, Cleaning of Dukki (Baluchistan) coal by oil agglomeration process, International Journal of Oil, Gas and Coal Technology 9 (1), 79-88 (2015)
4. K Shahzad, M Saleem, M Ghauri, J Akhtar, N Ali, NA Akhtar, Emissions of NO_x, SO₂ and CO from Co-Combustion of Wheat Straw and Coal under Fast Fluidized Bed Condition, Combustion Science and Technology, (2014)
5. S Nawaz, S Kanwal, U Rahim, N Sheikh, K Shahzad, J Akhtar, Identification of Macerals in Lakhra and Chamalang Coals in Pakistan, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects 36, 24, 2660-2665 (2014) (IF 0.71)
6. MH Chakrabarti, CTJ Low, NP Brandon, V Yufit, MA Hashim, MF Irfan, J Akhtar, E Ruiz-Trejo, MA Hussain, Progress in the electrochemical modification of graphene-based materials and their applications, Electrochimica Acta, 107, 425-440
7. J Akhtar, NS Amin, MK Zahoor, Optimizing removal of cod from water by catalytic ozonation of cephalixin using response surface methodology, Journal of the Chemical Society of Pakistan; v. 35(5) 2013; p. 1251-1255 (IF. 0.603)
8. Javaid Akhtar, NorAishah Saidina Amin and Wang Junjie, Optimization studies for catalytic ozonation of cephalixin antibiotic in a batch reactor, Journal of Water Supply: Research and Technology—AQUA Vol 61 No 7 pp 413–426 (IF 0.95)

9. Javaid Akhtar, NorAishah Saidina Amin, A review on operating parameters for optimum liquid oil yield in biomass pyrolysis, *Renewable and Sustainable Energy Reviews*, Volume 16, Issue 7, September 2012, Pages 5101–5109
10. Javaid Akhtar, NorAishah Saidina Amin, Azmi Aris, Combined adsorption and catalytic ozonation for removal of sulfamethoxazole using Fe₂O₃/CeO₂ loaded activated carbon, *Chemical Engineering Journal*, Volume 170, Issue 1, 15 May 2011, Pages 136–144
11. Javaid Akhtar, Nor Aishah Saidina Amin, A review on process conditions for optimum bio-oil yield in hydrothermal liquefaction of biomass, *Renewable and Sustainable Energy Reviews* 15 (2011) 1615–1624 (IF 6.62)
12. NorAishah Saidina Amin, Javaid Akhtar and H. K. Rai, Catalytic ozonation of aqueous phenol over metal loaded HZSM-5, *Water Science & Technology* 63 (2011) 1651-1656 (IF 1.19)
13. Nor Aishah Saidina Amin', Javaid Akhtar, H.K. Rai, Screening of combined zeolite-ozone system for phenol and COD removal, *Chemical Engineering Journal*, Volume 58, Issue 3, 15 April 2010, Pages 520–527 (IF 3.46)
14. Javaid Akhtar, Soo Kim Kuang, NorAishah Saidina Amin, Liquefaction of empty palm fruit bunch (EPFB) in alkaline hot compressed water, *Renewable Energy*, Volume 35, Issue 6, June 2010, Pages 1220–1227
15. Javaid Akhtar, Nor Aishah Saidina Amin, Ozonation of cephalixin antibiotic using granular activated carbon in a circulating reactor, *Journal of Chemical Society Pakistan* Accepted (2015) (IF 0.603)
16. Javaid Akhtar, NorAishah Saidina Amin, Khurram Shahzad, A review on removal of pharmaceuticals from water by adsorption, *Desalination & Water Treatment* Accepted (2015) (IF 0.988)
17. Hafiz Wahab, Khurram Shahzad, Javaid Akhtar, Naseer Sheikh, Shahid Munir, Desulfurization and demineralization of Lakhra coal by molten caustic leaching, *Energy Sources Part A* (Accepted 2014, to be published very soon) (IF 0.988)
18. Javaid Akhtar, Nor Aishah
19.]]ouSaidina Amin, Yasir Saleem, Khurram Shahzad, khurram Zahoor Removal of sulfamethoxazole using catalytic ozonation: An optimization study, *Pakistan Journal of Chemical Engineers* Vol 41, No 1 (2013)

20. Muhammad Khurram Zahoor , Javaid Akhtar, Muhammad Haris, Phase behavior and compositional analysis of hydrocarbons Part 1: Methodologies and preliminary implementation, Journal of Pakistan Institute of Chemical Engineers, 41 (1) 2013: 1-6
21. Muhammad Khurram Zahoor , Javaid Akhtar, Muhammad Haris, Phase behaviour and compositional analysis of hydrocarbons Part 2: Algorithm development and case studies, Journal of Pakistan Institute of Chemical Engineers, 41 (1) 2013: 7-1
22. Muhammad Haris , Muhammad Khurram Zahoor , Muhammad Saleem Khan , Javaid Akhtar , Carbon dioxide Sequestration in Geological Sources: A Useful Way, to Mitigate Global Warming, Journal of Pakistan Institute of Chemical Engineers, 40 (1) 2012: : 83-86
23. Khurram Shahzad , Javaid Akhtar , Nadeem Feroze, Moinuddin Ghauri , Shahzad Khurram, Effect of hydroxyl ions on recycling of hexavalent chromium from Chromium hydroxide sludge, Science International (Lahore) 26 (2014) 717-720
24. Waqar Ali Khan, Khurram Shahzad, Javaid Akhtar, Moinuddin Ghauri , Najaf Ali, Niaz Ahmed Akhtar, A model of heat transfer in a circulating fluidized bed combustor, Science International (Lahore), 25 (2013) 785-790
25. Javaid Akhtar, Kim Kuang Soo, NorAishah Saidina Amin, Catalyzed liquefaction of empty palm fruit bunch (EPFB) in sub-critical water, 3rd SEATUC Symposium February, 2009, 291-296
26. K. Shahzad, S. Munir, S. Aslam, M. Mukhtar, J. Akhtar, "Parametric Study of Coal Gasification Under Bubbling Fluidized Bed Conditions" in proceeding of Ist International Young Engineers Convention (FIYEC-IYEC- 2014) organized by the Pakistan Engineering Council at University of Engineering & Technology (UET) held on April 18, 2014.
27. Sana Mushtaq, Shumaila Azam, J. Akhtar, N. Sheikh, K. Shahzad, S. Munir, "Up-gradation of Duki Coal by Agglomeration with Xylene". in proceeding of Ist International Young Engineers Convention (FIYEC-IYEC-2014) organized by the Pakistan Engineering Council at University of Engineering & Technology (UET) held on April 18, 2014.
28. Nor Aishah Saidina Amin, Javaid Akhtar, Selhan Karagoz, 19 Hydrothermal Liquefaction, Sustainable Bioenergy Production, ISBN: 1466505524, Publisher: CRC Press, Taylor, and Francis Group 383 (2014) Publication date (2014/4/18)

SUPERVISION

Currently supervising 15 undergraduate and co-supervising one MPhil student of in broad area of Energy and Environment Engineering