

# **Dr. Yumna Sadeef**

*PhD in Environmental Engineering from Aalborg University, Denmark*

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## **Career Objectives**

*To work with devotion and dedication in a highly professional environment that offers utilization of my skills, to enhance my knowledge, to pursue a dynamic career and provides learning opportunities to keep pace with advanced technologies.*

## **Skills Summary**

Waste Management / Treatment, Composting, Waste to Energy (Bio-Fuels), Soil Fertility,

## **Academic Profile**

- 2011-2014**                      **PhD Environmental Engineering**    *(with 5 Peer-reviewed journal papers)*  
*Section for Environmental Engineering*  
*Department of Biotechnology, Chemistry*  
*& Environmental Engineering,*  
**(Aalborg University Denmark)**
- 2006-2008**                      **M. Phil Environmental Sciences**                      *(3.4 CGPA)*  
*College of Earth & Environmental Sciences,*  
**(University of the Punjab, Lahore, Pakistan)**

## **Academic Positions:**

- Oct 2014 till to Date                      **Assistant Professor,**  
*College of Earth & Environmental Sciences,*  
*University of the Punjab, Lahore (Pakistan).*
- May 2011 – Oct 2014                      **PhD Employee,**  
*Department of Biotechnology, Chemistry*  
*& Environmental Engineering,*  
*Aalborg University, Denmark*
- Feb 2014 – June 2014                      **Guest PhD Researcher**  
*Department of Civil Engineering,*  
*Xi'an Jiaotong Liver-Pool University, Suzhou, China*
- Apr 2012 – Dec 2013                      **Guest PhD Researcher**  
*Danish Center for Environment & Energy*  
*Department of Environmental Sciences*  
*Aarhus University, Denmark*
- Nov 2004 – Oct 2014                      **Lecturer,**  
*College of Earth & Environmental Sciences,*  
*University of the Punjab, Lahore (Pakistan).*

## **PhD Thesis (Aalborg University, Denmark)**

Assessing organic micro-pollutant removal in sewage sludge during composting:  
Sampling strategy development and effects of composting process conditions

### **Publications:**

#### **Publication in peer reviewed journals:**

1. **Sadef, Y**; Poulsen, TG; Bester, K; *Optimizing sampling strategy for the measurement of biomass properties during full scale composting*. Waste Management and Research 2013; 31(8): 775-782. **(Impact Factor 1.114)**
2. **Sadef, Y**; Poulsen, TG; Bester, K; *Quantifying measurement uncertainty in full-scale compost piles using organic micro-pollutant concentrations*. Waste Management and Research 2014a; 32(5): 371-378. **(Impact Factor 1.114)**
3. **Sadef, Y**; Poulsen, TG; Bester, K; *Impact of temperature on degradation of organic micro-pollutants in compost*. Science of the Total Environment 2014b 494-495, 306-312. **(Impact Factor 3.163)**
4. **Sadef, Y**; Poulsen, TG; Bester, K; *Modelling organic micro pollutant degradation kinetics during sewage sludge composting*. Waste Management 2014c 34(11), 2007-2013. **(Impact Factor 3.157)**
5. **Sadef, Y**; Poulsen, TG; Bester, K; *Impact of Compost Process Conditions on Organic Micro Pollutant Degradation during Full Scale Composting*. Waste Management 2015, 40, 31-37 **(Impact Factor 3.157)**
6. Iqbal, T; Eckhoff, SR; Syed, AF; Nizami, AS; **Sadef, Y**; Akhtar, J; *Airflow Resistance of Chopped Miscanthus on drying platform*. Accepted in American Society of Agricultural and Biological Engineers. **(Impact Factor 0.84)**
7. N. Rahmanian; Siti Hajar Bt Ali; M. Homayoonfard; N. J. Ali; M. Rehan; **Sadef, Y**; A. S. Nizami; *Analysis of Physio-Chemical Parameters to Evaluate the Drinking Water Quality in the State of Perak, Malaysia*. Accepted in Journal of Chemistry. **(Impact Factor 0.622)**
8. **Y Sadef**; AS Nizami; SA Batool; MN Chaudhary; O K M Ouda; ZZ Asam; K Habib; M. Rehan and A. Demibras. *Waste-to-Energy and Recycling Value for Developing Integrated Solid Waste Management Plan in Lahore*. Accepted in Energy Sources, Part B: Economics, Planning, and Policy **(Impact Factor 0.840)**

#### **Papers under review in peer reviewed journals:**

9. Vallecillos, L; **Sadef, Y**; Borrull, F; Pocurull, E; Bester, K; *Degradation of musk fragrances by laccase-mediated system*. Under-review in Talanta. **(Impact Factor 3.867)**
10. AS Nizami; M Rehan; **Y Sadef**; IM Ismail & OKM Ouda; 2014. *Development of waste to energy technologies in Saudi Arabia: perspectives and challenges*. Under-review in Energy Journal. **(Impact Factor 3.867)**

**Publications with ISBN:**

11. **Sadef, Y;** *"Assessing organic micro-pollutant removal in sewage sludge during composting: Sampling strategy development and effects of composting process conditions"* (In Press) (ISBN: 978-87-93100-60-2)

**Participation in International Conferences:**

12. **Sadef, Y;** Poulsen, TG; Bester, K; *Optimizing sampling strategy for measurement of biomass properties during full scale composting.* 1<sup>st</sup> International conference on global environmental changes. January 15-16. 2013, Government University College, Faisalabad, Pakistan.
13. **Sadef, Y;** Poulsen, TG; Bester, K; *Homogeneity aspects in analyzing micro-pollutants in sludge composting degradation.* 23<sup>rd</sup> SETAC Europe annual meeting, May 12-14, 2013 Glasgow, UK.

**Courses, Seminars and Workshops Attended:**

- PhD Course on “**Developing Presentation Skills with focus on Oral and Poster Presentations**” organized by Department of Chemistry and Biotechnology, Aalborg University, Denmark, (fall 2012- spring 2013).
- PhD Course on “**Writing and Reviewing Scientific Papers**” organized by Faculty of Engineering and Science, Aalborg University, Denmark, (spring, 2012).
- Inception workshop of national stakeholders organized by Government of Pakistan Ministry of Environment (IC wing), and UNEP chemicals Branch on “**Management of Mercury and Mercury containing waste in Pakistan**” Avari Hotel, Lahore, (30 July, 2009).
- Workshop on “**Innovations in Assessment**” organized by Faculty of Engineering and Technology, University of the Punjab, Lahore, (15 January, 2007).
- “**Introduction to Gender and Environment**” organized by Chemical Engineering Department (WTM Link) , Mehran UET, Jamshoro, Pakistan in collaboration with Institute for the Environment, Brunel University, West London, UK, (10-15 November, 2008)
- “**18<sup>th</sup> Chemistry Conference by Chemical Society of Pakistan**” organized by Institute of Chemistry, University of the Punjab, Lahore, (25-27 February, 2008).
- One day course on “**Management /Treatment of Wastewaters from Food Processing/ Beverages/ Agro based Industries**” organized by Government of the Punjab (Environmental Protection Department), and College of Earth and Environmental sciences, University of the Punjab, Lahore, (22 February, 2007).
- Consultative workshop for “**Consolidation of Persistent Organic Pollutants (POPs) Inventorization Process**” organized by Environment Protection Department (EPD) Government of Punjab, and UNDP-Pops Enabling Activity Project, Pearl Continental

Hotel, Lahore, (23-24 December, 2005).

- A review workshop organized by Higher Education Commission, Pakistan on “**Resource Material/ Modules for Higher Education Teacher**” (04-16 April, 2005), University of Education, Lahore.

### **Instrument Skills**

- GCMS
- Atomic absorption spectrophotometer
- Flame photometer
- Colorimeter
- Bomb calorimeter
- Flue gas analyzer

### **Countries Visited**

- Denmark, Norway, Sweden, Germany, Qatar, China & Dubai

### **Language Skills**

- English, Urdu, Punjabi, Arabic

### **References**

#### **1. Dr. Tjalfe G. Poulsen**

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Department of Civil Engineering,  
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Fredrik Bajers Vej 7H, 9220 Aalborg East, Denmark  
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#### **2. Dr. Kai Bester**

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Department of Environmental Science,  
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