

**PERSONAL INFORMATIONS**

**Dr. Khalid Saeed**

Date of Birth: **1<sup>st</sup> March, 1977**

Nationality: **Pakistani**

Qualification: **M. Sc, M. Phil (Pakistan), Ph.D. (Republic of Korea)**

Major: **Chemistry**

Postal Address: **Associate Professor, Department of Chemistry, University of Malakand, Chakdara, Dir (Lower), Khyber Pakhtunkhwa, Pakistan**

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**FIELD OF SPECIALIZATION:** Fuel Chemistry

**RESEARCH EXPERIENCE:**

1) **M. Sc. Research:**

Title: **“Phsico-Chemical Properties and U.V-Analysis of Sample from Landi Kotal”**

2) **M. Phil. Research:**

Title **“Non-Aqueous Potentiometric Identification of Superficial Coal Groups”**

The thesis has been submitted to University of Peshawar in the partial fulfillment of the Degree of Master of Philosophy in Chemistry (Fuel (Applied Chemistry)) and the degree was awarded in January 2004.

3) **Ph.D. Research:**

**Title “Preparation and Characterization of Electrospun Nanofibers Modified with Amidoxime and Carbon Nanotubes Incorporation”**

The thesis has been submitted to Kyungpook National University, Republic of Korea, in the partial fulfillment of the requirement for the degree of Doctor of Philosophy (Ph.D.) in Polymer Science in December 2007 and the degree was awarded in February 2008.

**Professional Experience:**

**Dec. 2008 till now:** Assistant Professor in the Department of Chemistry, University of Malakand, Pakistan

**March, 2008-Dec 2008:** Assistant Professor in Institute of Chemical Sciences, at University of Peshawar, Pakistan.

**Research Interest**

- 1) **Preparation and Analysis of CNTs/Polymer Nanocomposites.**
- 2) **Preparation of Electrospun Multiwalled Carbon Nanotube/Polymer composite Nanofibers**
- 3) **Electrospun Nanofibers as a separating media/filter**
- 4) **Preparation and Analysis of Polymer Blends**
- 5) **Adsorption of toxic materials on polymeric material**
- 6) **Nanoparticles and Polymer Nanocomposites use as Photocatalyst for degradation of Organic pollutants.**

**Total Citations more than 340.**

**PUBLICATIONS:**

- 1). M. Ishaq, Imtiaz Ahmed, **Khalid Saeed**, M Ismail, Ali Bahader. "Spectroscopic and Chromatographic Identification of Hydrocarbon Group Types in Pakistani Crude Oils" *Journal of the Chinese Chemical Society*, 50(5), **2003**, 1023-1029.
- 2). **K. Saeed**, M. Ishaq, Soo-Young Park and I. Ahmed. "Determination of Surface Acidity of Coal by Non-Aqueous Potentiometric Titration" *Journal of Chemical Society of the Pakistan* 27(6), **2005**, 631-636.
- 3). **K. Saeed**, M. Ishaq, I. Ahmad, M. Shakirullah, S.Y. Park, H. Khan and N. Ali "Characterization and Evaluation of Thur Coal for Different Mineral Contents" *Journal of the Chemical Society of Pakistan*, 28 (3), **2006**, 207-210.
- 4). **Khalid Saeed**, Soo-Young Park, Hwa-Jeong Lee and Jong-Beom Baek, Wan-Soo Huh "Preparation of Electrospun Nanofibers of Carbon Nanotubes /Polycaprolactone Composites" *Polymer*, 47(22), **2006**, 8019-8025.
- 5). **Khalid Saeed** and Soo-Young Park "Preparation and Properties of Multiwalled Carbon Nanotube/Polycaprolactone (MWNT/PCL) Nanocomposites" *Journal of Applied Polymer Science*, 104 (3), **2007**, 1957-1963.
- 6). Sajjad Haider, Soo-Young Park, **Khalid Saeed** and B.L. Farmer "Swelling and Electroresponsive Characteristics of Gelatin Immobilized onto Multi-Walled Carbon Nanotubes" *Sensors and Actuators B-Chemical*, 124 (2), **2007**, 517-528.
- 7). **Khalid Saeed**, M. Ishaq, Imtiaz Ahmad, Mohammad Shakirullah and Soo-Young Park "Investigation of Surface Acidity of Coal by Aqueous Potentiometric Titration" *Journal of the Chemical Society of Pakistan*, 29 (2), **2007**, 111-115.
- 8). **Khalid Saeed** and Soo-Young Park "Preparation of Multiwalled Carbon Nanotube /Nylon-6 (MWNT/Nylon) Nanocomposites by In-situ Polymerization" *Journal of Applied Polymer Science*, 106 (6), **2007**, 3729-3735.

9). Hamayun Khan, Sajjad Haider, **Khalid Saeed**, and Nauman Ali “Assessment of Potable Water Quality of Kohat Division and its Impact on Health” *Journal of the Chemical Society of Pakistan* 30 (2), 2008, 246-250.

10). **Khalid Saeed**, Soo-Young Park, Sajjad Haider and Tea Jin Oh “Preparation of Amidoxime-Modified Polyacrylonitrile (PAN-Oxime) Nanofibers and their Applications to the Metal Ions Adsorption” *Journal of Membrane Science* 322(2), 2008, 4000-4005.

11). **Khalid Saeed**, Soo-Young Park, Sajjad Haider and Jong-Beom Baek “*In-situ* Polymerization of Multi-Walled Carbon Nanotube/Nylon-6 Nanocomposites and Their Electrospun Nanofibers” *Nanoscale Research Letters* 4 (1), 2009, 39–46.

12). **Khalid Saeed**, Soo-Young Park and Nuanman “Characterization of Poly(butylene Terephthalate) Electrospun Nanofibers Containing Titanium Oxide” *Iranian Polymer Journal* 18 (8), 2009, 671-677.

13). **Khalid Saeed**, Soo-Young Park and Mohammad Ishaq “Adsorption of Multiwalled Carbon Nanotubes on Electrospun Polycaprolacton Nanofibers” *Journal of Chilean Chemical Society* 54(4), 2009, 289-292.

14). Mohammad Ishaq, **Khalid Saeed**, Imtiaz Ahmad, M. Shakirullah and Said Nadeem “Removal of Tartrazine from Aqueous Solutions by Activated Coal” *Tenside Surfactants and Detergents* 2010, (1), 7-13.

15). **Khalid Saeed**, and Soo-Young Park, “Preparation and properties of Multiwalled Carbon Nanotubes/Polyacrylonitrile Composite Nanofibers” *Journal of Polymer Research* 2010, 17 (4), 535-540.

16). **Khalid Saeed**, M. Ishaq, Imtiaz Ahmad, Mohammad Shakirullah and Sajjad Haider “Acidic Surface Functional Groups and Mineral Elements in Lakra (Sindh, Pakistan) Coal” *Journal of the Chemical Society of Pakistan* 2010, 32(2), 162-167.

17). **Khalid Saeed**, “Review on Properties, Dispersion and Toxicology of Carbon Nanotubes” *Journal of the Chemical Society of Pakistan* 2010, 32(4), 559-564.

18). **Khalid Saeed**, Soo-Young Park “Preparation and Properties of PCL/PBT Blends” *Iranian Journal of Chemistry and Chemical Engineering*, 2010, 29 (3), 77-81.

19). **Khalid Saeed**, Muhammad Ishaq, Muhammad Ilyas “Preparation, Morphology, and Properties of Coal Ash/Polyethylene oxide Composites” *Turkish Journal of Chemistry* 2011, 35, 237-243.

20). Mohammad Ishaq, **Khalid Saeed** and Said Nadeem “Kinetics and Adsorption Isotherms for the Removal of Tartrazine from Aqueous Solution by Coal Ash” *Tenside Surfactants and Detergents* 2011 (2), 130-133.

21). **Khalid Saeed**, Soo-Young Park and Tea Jin Oh “Adsorption of Metal ions on Hydrazine-Modified Polyacrylonitrile Nanofibers” *Journal of Applied Polymer Science* 2011, 121, 869–873.

22). Mohammad Ishaq, **Khalid Saeed** Imtiaz Ahmad, Muhammad Shakirullah Muhammad Iqbal Khan “Physico-chemical Properties of Coal samples: Coal samples Used Adsorbent for the Removal of Maleic Acid from Aqueous Solution” *Journal of the Chemical Society of Pakistan* 2011 33 (3), 360-363.

23). **Khalid Saeed**, Soo-Young Park “Morphological, Mechanical and Thermal Properties of Multiwalled Carbon Nanotubes/Poly (butylene terephthalate) Nanofibers, *Iranian Polymer Journal* 2011, 20(10), 795-802.

24). **Khalid Saeed**, Soo Young Park “Preparation and Analyses of Nnaoclay/Nylon-6 Electrospun Nanofibers” *Polymer Composites* 2012, 33(2) 192-195.

25). Mir Azam Khan, **Khalid Saeed** , Abdullah, Waqar Ahmad, Fazal Mabood, Maqsood-ur-Rehman “Sugarcane Baggasse Used an Adsorbent for the Removal of Different Pharmaceutical Drugs from Aqueous Solution” *Journal of Scientific and Industrial Research* 2012, 71(2) 161-167.

- 26). Yousaf Iqbal, Syed Muhammad Sohail, Imtiaz Ahmad, **Khalid Saeed** “Heavy metal determination in various types of soot” *Tenside Surfactants Detergents* **2012**, (4), 300-305.
- 27). Muhammad Ishaq, **Khalid Saeed**, Muhammad Shakirullah, Imtiaz Ahmad, Tayyiba rehman “Effect of coal ash on the morphological, thermal and mechanical properties of poly(methyl methacrylate), *Journal of Chilean Chemical Society*, **2012**, 57, 992-994.
- 28). Muhammad Ishaq, **Khalid Saeed**, M.Shakirullah, Imtiaz Ahmad, Sirraj Sultan “Removal of Murexide from Aqueous Solution Using Pomegranate Bark as Adsorbent” *Journal of the Chemical Society of Pakistan* **2012**, **34**, **1498-1501**.
- 29). Mohammad Shakirullah, Imtiaz Ahamd, Noor Zada, Mohammad Ishaq, Waqas Ahmad, **Khalid Saeed** and Imdadullah Mohammadzai “Thermocatalytic Conversion of Coal Soot to Carbon Nanorods” *Fullerenes, Nanotubes and Carbon Nanostructures*, **2013**, 21, 171-182.
- 30). Mohammad Ishaq, Imtiaz Ahmad, Mohammad Shakirullah, Bushra Salma, **Khalid Saeed** “Production of Biodiesel from *Pinus Roxburghii* Oil and its Evaluation” *Journal of the Chemical Society of Pakistan* **2013**, 35, 353-357.
- 31). Yousaf Iqbal, Syed Muhammad Sohail, Imtiaz Ahmad, **Khalid Saeed** Determination of polyaromatic hydrocarbons in domestic, commercial and industrial soot samples by HPLC” *Tenside Surfactants and Detergents* **2013**, 3, 182-185.
- 32). **Khalid Saeed** , Muhammad Ishaq, M. Shakirullah, Imtiaz Ahmad, Latifullah, Morphological, Thermal and Mechanical Properties of Nanoclay-Filled Polyethylene Oxide Nanocomposites” *Journal of the Chemical Society of Pakistan* **2013**, 35, 699-702.

33). **Khalid Saeed**, Ibrahim “Carbon nanotubes–properties and applications: a review” *Carbon Letters*, 2013, 14, 131-144.

34). **Khalid Saeed**, Ibrahim Khan “Preparation and properties of single-walled carbon nanotubes/poly(butylene terephthalate) nanocomposites. *Iranian Polymer Journal*, 2014, 23, 53–58.

35). **Khalid Saeed**, Nasib Khan, “Reinforcing Effect of Multiwalled Carbon Nanotubes on the Properties of PMMA/PEO Blends. *Journal of the Mexican Chemical Society*, Accepted for publication.

36). Ashraf Ali, **Khalid Saeed**, “Decontamination of Cr(VI) and Mn(II) from aqueous media by untreated and chemically treated banana peel: A comparative studies” *Desalination and Water Treatment*, Accepted for publication.

37). Muhammad Ishaq, **Khalid Saeed**, Imtiaz Ahmad, Sirraj Sultan “Adsorption of xylenol orange from aqueous solution using coal Ash as adsorbent (Submitted for publication).

38). **Khalid Saeed**, Nasib Khan, “Preparation, Morphologies and Properties of Multiwalled Carbon Nanotubes-Filled PMMA/PVC Blends”. (Submitted for publication).

39). **Khalid Saeed**, Tariq Shah, “Graphene nanoplates supported TiO<sub>2</sub> Used for the Photodegradation of bromophenol blue” (Submitted for Publications).

40). **Khalid Saeed**, Idrees Khan, Triq Shah Synthesis of Silver nanoparticles on amidoxime-modified polyacrylonitrile nanofibers for photo-catalytic degradation of methyl orange in aqueous medium” (Submitted for Publications).

41). **Khalid Saeed**, Gauhar Ali “Photodegradation of Methylene Blue in Aqueous Medium using Multiwalled Carbon Nanotubes Supported TiO<sub>2</sub>” (Submitted for Publications).

42).Ashraf Ali, **Khalid Saeed**, Biosorption of Cr (VI), Mn (II) ions and phenol from Aqueous Solutions using Modified Banana peel as Low-cost Adsorbent” (Submitted for Publications)

43). **Khalid Saeed**, Idrees Khan, Soo-Young Park, “TiO<sub>2</sub>/Amidoxime modified Polyacrylonitrile nanofibers and its application for the Photodegradation of Methyl blue in Aqueous Medium” (Submitted for Publications).

**Papers Presented /Various Conferences / Symposia / Workshops:**

1) Sajjad Haider, Mohammad Javed, Nouman Ali and **Khalid Saeed** “**Analysis of Potable Water of District Kohat**” Presented in International Conference on Environmental Challenges. March 11<sup>th</sup>-13<sup>th</sup>, 2004 at Peshawar (Pakistan) p.17.

2) **Khalid Saeed**, Soo-Young Park and Jong-Beom Baek. “**Preparation of Multiwalled Carbon Nanotubes/Polycaprolactone Composite by In-situ Polymerization**” Presented in Annual Spring Meeting 14<sup>th</sup>–16<sup>th</sup> April 2005 at Seoul (South Korea) (pp.139).

3) **Khalid Saeed**, Soo-Young Park, and Jong-Beom Baek “**Preparation and Electrospinning of Multiwalled Carbon Nanotube/Polycaprolactone Nanocomposites**” Presented in Annual Fall Meeting 13<sup>th</sup>–14<sup>th</sup> September 2005 at Jaju (South Korea) (p. 669).

4) **Khalid Saeed**, Soo-Young Park, and Jong-Beom Baek. “**Preparation and Morphological Study of Multiwalled Carbon Nanotubes/Polycaprolactone Composite Nanocomposites**” Presented in 54<sup>th</sup> SPSJ Symposium on Macromolecules September 2005 (Japan).

5) **Khalid Saeed**, Soo-Young Park, and Jong-Beom Baek “**Preparation of Electrospun of Multiwalled Carbon Nanotube/Polycaprolactone Nanocomposite**” Presented in Annual Spring Meeting 6<sup>th</sup> – 7<sup>th</sup> March 2006 at Ilsan (South Korea) (pp.78).

6) **Khalid Saeed**, Soo-Young Park, “**In-Situ Polymerization of Multiwalled Carbon Nanotube/Nylon-6 Nanocomposites and their Electrospun Nanofibers**” Presented in Annual Fall Meeting, 10<sup>th</sup> – 11<sup>th</sup> October 2007 at Ilsan (South Korea) (pp.34).



- 7) Hamayun Khan, Sajjad Haider, **Khalid Saeed**, and Nauman Ali “**Assessment of Potable Water Quality of Kohat Division and its Impact on Health**” Presented in 18<sup>th</sup> National conference Chemical Society of Pakistan at Lahore, 25-27<sup>th</sup> February 2008.
- 8) **Khalid Saeed**, Soo-Young Park, and Mohammad Ishaq “**Preparation of Electrospun Multiwalled Carbon Nanotubes/Polyacrylonitrile Composite Nanofibers**” Workshop on Nanomaterials and Regional Meeting of Nanomaterials Forum at Peshawar, 23<sup>rd</sup> April, 2008.
- 9) 19th National Chemistry Conference, June 09-11, 2009, Organized by the Department of Chemistry, Kohat University of Science and Technology, Kohat under the auspices of The Chemical Society of Pakistan.
- 10). **Khalid Saeed**, Soo-Young Park, “**Effect of Multi-Walled Carbon Nanotubes on the Morphology, Thermal and Mechanical Properties of Electrospun Polyacrylonitrile Nanofibers**” 9<sup>th</sup> International Seminar on Polymer Science and Technology, 17– 21<sup>th</sup> October, 2009 at Tehran, (Iran).
- 11). **Khalid Saeed**, “**Preparation and Analyses of Nnaoclay/Nylon-6 Electrospun Nanofibers**” 2<sup>nd</sup> International Conference on Nanomechanics & Nanocomposites, ICNN-2” 10-13<sup>th</sup> October, 2010, Beijing (China).
- 12). **Khali Saeed**, Nasib Khan, National Symposium on Kinetics and Catalysis, 26-28 Sep, 2011 at Baragali organized by NCEPC, University of Peshawar.
- 13). **Khali Saeed**, Nasib Khan, “**Preparation and Characterization of Multiwalled Carbon Nanotubes-Filled PMMA/PVC**” 10th International and 22nd National Chemistry Conference, 21-23 Nov, 2011 organized by Department of Chemistry and Bio Chemistry, at University of Agriculture Faisalabad.
- 14). **Khali Saeed**, Nasib Khan Preparation and Characterization of Multiwalled Carbon Nanotubes/Poly (Vinyl Chloride) Nanocomposites” in the “The 44<sup>th</sup> IUPAC Word Chemistry Congress” held on 11-16.August, 2013, Istanbul (Turkey).

**PROJECTS:**

**HEC Approved Project (19, 64, 048/ PKR)**

To study the Effect of Single walled carbon nanotubes on the properties of Poly (butylene terephthalate) Polymer. (Principal Investigator). **Completed.**

**Supervisor of MSc/M. Phil/PhD Students**

**PhD**

**Nasib Khan**

**Thesis title:** *In-situ* bulk polymerization of grapheen nanoplates/Polymer nanocomposite and their characterization.

**M. Phil students Produced**

**1. Mohammad Yousaf**

**Thesis title:** *Adsorption of Phenol and Iron from Aqueous Medium using Modified Bagasse* (Completed his studies in July, 2011).

**2. Nasib Khan**

**Thesis title:** Preparation and Characterization of Multiwalled Carbon Nanotubes-Filled Polymer Blends (Completed his studies in April, 2012).

**3. Ashraf Ali**

**Thesis title:** *Removal of Cr (vi), Mn (ii) and phenol from aqueous medium using modified banana peel as adsorbent* (Completed his studies, 2013)

**4. Ibrahim**

**Thesis title:** Effect of single walled carbon nanotubes (SWNTs) on the properties of polymeric materials (Completed his studies, 2013)

**5. Inayatullah**

**Thesis title:** Preparation and characterization of clay reinforced polymer nanocomposites. (Completed).

**BS research Student Supervised**

**1. Tariq Shah**

**Thesis title:** Graphene nanoplates supported TiO<sub>2</sub> Used for the Photodegradation of bromophenol blue.

**2. Idrees Khan**

TiO<sub>2</sub>/Amidoxime modified Polyacrylonitrile nanofibers and its application for the Photodegradation of Methyl blue in Aqueous Medium.

**3. Gauhar Ali**

Photodegradation of Methylene Blue in Aqueous Medium using Multiwalled Carbon Nanotubes Supported TiO<sub>2</sub>.

**Co-supervisor**

**M. Sc.**

**1. Muhammad Ilyas** (2009-2010)

**Thesis title:** *Preparation and Properties of Polyethylene Oxide and Coal Ash Composite*

**2. Tayyiba Rehman** (2009-2010)

**Thesis title:** *Preparation and Analyses of Polymethylmethacrylate/Ash Composite*

**M. Phil**

**1. Sher Ayaz**

Preparation and characterization of polymers blend and its composites with metal oxides.

**HONORS AND AWARDS**

- 1) Doctoral Fellowship Award from Kyungpook National University (South Korea).
- 2) Research Product award (RPA) 2012.

**Member of Editorial board**

1. Journal of Chemistry & Applied Biochemistry

**REFEREE (Journals)**

1. Journal of the Chemical Society of Pakistan.
2. Journal of Applied Polymer Science
3. Iranian Polymer Journal
4. Polymer for Advance Technology
5. Polymer Composites
6. Applied surface Science
7. Polymer International
8. Desalination and Water Treatment