

CURRICULUM VITAE

DR. RASHID AHMAD

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ACADEMIC RECORD

Degree	University	Major/s
B. Sc.	University of Peshawar	Chemistry & Biology
M. Sc.	University of Peshawar	Chemistry (Fuel Chemistry)
Ph. D.	University of Peshawar	Chemistry (Fuel Chemistry)

Ph. D. THESIS TOPIC:

Adsorption of Heavy Metal Cations from Aqueous Solutions on Carbon Black: Isotherms and Breakthrough Studies

POST DOCTORAL FELLOWSHIP

Department of Chemistry University of Michigan, Ann Arbor, Michigan, USA from Mar 16, 2008 -Jun26, 2009

INTERNATIONAL WORKSHOP

IAEA/RCA Regional Training Course on Clean Water and Air (radiation processing advanced processes for air, water and soil pollution control), Beijing, China, 27 June-1 July 2005.

EMPLOYMENT HISTORY

Senior Scientist, Chemistry Division, PINSTECH, since 9th May 2000 up to Nov 30th 2008

Principal Scientist, Chemistry Division, PINSTECH, since Dec 1st 2008 up to April 15, 2010.

Associate Professor of Chemistry Hazara University Since April 16, 2010 up to July 31, 2011

Professor, Department of Chemistry, University of Malakand, Since Aug 1, 2011.

CONSULTANCY

Worked as a consultant for River Swat Conservation Project from April 1999 to April 2000.

MEMBERSHIPS

Chemical Society of Pakistan
Environmental Protection Society Swat, Pakistan
Pakistan Nuclear Society

PUBLICATIONS

- 1 Syed Moosa Hasany and **Rashid Ahmad** "*Fixation of micro or submicro amount of Hg(II) ions onto sawdust from aqueous solution*" Main Group Met. Chem. 25 (7), 719-726 (2002).
- 2 Syed Moosa Hasany, **Rashid Ahmad** and Munawar Hussain Chaudhary, "*Investigation of Sorption of Hg(II) ions onto coconut husk from aqueous solution using radiotracer techniques*" Radiochim. Acta, 91, 533-538 (2003).
- 3 Syed Moosa Hasany and **Rashid Ahmad**, "*Sorption profile of Cd(II) ions onto coconut husk*" Main Group Met. Chem. 26 (2), 87-98 (2003).
- 4 Habib Ahmad and **Rashid Ahmad**, "*Agroecology and biodiversity of the catchment area of Swat River*" Nucleus, 40(1-4), 67-75 (2003).
- 5 Syed Moosa Hasany and **Rashid Ahmad**, "*Removal of traces of silver ions from aqueous solutions using coconut husk as a sorbent*" Sep. Sci. Technol. 39 (15), 3509-3525 (2004)
- 6 Imtiaz Ahmad, Mohammad Arsala Khan, Mohammad Shakirullah, Mohammad, Ishaq, **Rashid Ahmad** and Habib-Ur-Rehman, "*Depolymerization study of Pakistani coal in a hydrogen atmosphere. Effect of operating conditions*" J. Chin. Chem. Soc. 51, 723-727 (2004).
- 7 **Rashid Ahmad**, Syed Moosa Hasany and Munawar Hussain Chaudhary, "*Adsorption characteristics of Cr(III) ions onto coconut husk from aqueous solution*" Adsorpt. Sci. Technol. 23 (6), 467-477 (2005).
- 8 **Rashid Ahmad**, "*Sawdust: cost effective scavenger for the removal of chromium (III) ions from aqueous solutions*" Water, Air, Soil Pollut. 163, 169-183 (2005).

- 9 Muhammad Mufazzal Saeed and **Rashid Ahmad**, “Adsorption modeling and thermodynamic characteristics of uranium (VI) ions onto 1-(2-pyridylazo)-2-naphthol (PAN) supported polyurethane foam” *Radiochim. Acta.* 93, 333-339 (2005).
- 10 Muhammad Mufazzal Saeed and **Rashid Ahmad**, *Temperature effected sorption modeling of europium (III) onto 1- (2-pyridylazo)-2- naphthol impregnated polyurethane foam.* *Radioanal. Nucl. Chem.* 267(1), 147-53, (2006)
- 11 Syed Moosa Hasany and **Rashid Ahmad**, “The potential of cost effective coconut husk for the removal of toxic metal ions for environmental protection” *J. Environ. Manage.* 81(3) 286-295, (2006).
- 12 **Rashid Ahmad**, Muhammad Mufazzal Saeed, Akbar Ali and Jamshed Hussain Zaidi, “Removal of Tm(III) Ions from Aqueous Solution using PAN-Incorporated Sol-Gel Matrices”. *Radiochim. Acta.* 95, 451-457, (2007).
- 13 Imtiaz Ahmad, Mohammad Arsala Khan, Mohammad Shakirullah, Mohammad Ishaq, **Rashid Ahmad**, Habib Ur Rehman and Saeed Ur Rehman. *Study on influence of catalysts on product distribution during liquefaction of Pakistani coal.* *Energ. Convers. Manage.* 48(9), 2502-2507, (2007).
- 14 **Rashid Ahmad** and Munir Ahmad, “Removal of Zn(II) Ions from Aqueous Solution using BPHA-Impregnated Polyurethane Foam”. *J. Chin. Chem. Soc.* 55(1), 147-154, 2008.
- 15 **R. Ahmad**, A. G. Wong-Foy and Adam J. Matzger, *Microporous Coordination Polymers as Selective Sorbent for Liquid chromatography.* *Langmuir.* 25 (20), 11977–11979, (2009).
DOI: 10.1021/la902276a
- 16 Katie A. Cychosz, **Rashid Ahmad** and Adam J. Matzger, *Liquid Phase Separations by Crystalline Microporous Coordination Polymers.* *Chem. Sci.* 1 (2), 293-302, (2010).
DOI: 10.3039/C0SC00144A.
- 17 Bin Amin, Iftikhar Ahmad, Muhammad Maqbool, Syed Goumri-Said and **Rashid Ahmad**. *Ab-initio study of the bandgap engineering of Al_{1-x}Ga_xN for optoelectronic applications.* *J. Appl. Phys.* 109, 1-5, (2011).
- 18 Bin Amin, Iftikhar Ahmad, Sunila Arif, Muhammad Maqbool, **Rashid Ahmad**, Syed Goumri-Said and Keith Prsbrey. *Cr-Doped III–V Nitrides: Potential Candidates for Spintronics.* *J. Electron. Mater.* 40, 1428, (2011).

- 19 Farman Ali, Saira Bibi, Nadia Bibi and **Rashid Ahmad**, *Kinetic and thermodynamic modeling of Textile dyes Removal from aqueous solution by powder activated charcoal*. Environ. Eng. Sci. (Submitted)
- 20 **Rashid Ahmad**, *Sequestration of Tb(III) Ions from Aqueous Solution using PAN-Incorporated Sol-Gel Matrices*. Water Res. (Submitted).

REPORTS

- 1 **Rashid Ahmad**, “Pollution Survey of River Swat” River Swat Conservation Project.
- 2 Syed Moosa Hasany and **Rashid Ahmad**, “Exploitation of cheaper materials for the removal of toxic and harmful substances from industrial effluents” PSF Research Project (C-PINSTECH/Chem. 341)

PRESENTATIONS

- 1 **Rashid Ahmad** and Mohammad Arsala Khan, “Adsorption of Lead onto Carbon Black N110” First National Conference on Fuel and the Environment, July 20-24,1996, University of Peshawar, Summer Campus Bara Gali (Pakistan).
- 2 **Rashid Ahmad**, “Pollution in River Swat” 1st International and 11th National Chemistry Conference, April 10-14, 2001, University of Peshawar, Peshawar (Pakistan).
- 3 **Rashid Ahmad**, Syed Moosa Hasany and Munawar Hussain Chaudhary, “Coconut husk: An economical and effective scavenger for toxic Hg (II) ions from aqueous solutions” 2nd International and 12th National Chemistry Conference, February 4-6 2002, University of Sindh, Jamshoro (Pakistan).
- 4 **Rashid Ahmad** and S.M. Hasany, “Sawdust: A cost-effective material for the retention/removal of Hg (II) ions from aqueous solution” Conference on “Strategies to address the present and future water quality issues” February 20-21, 2002, Islamabad, (Pakistan).
- 5 **Rashid Ahmad** and Syed Moosa Hasany, “Removal of traces of silver ions from aqueous solutions using cost effective coconut husk as a sorbent” 7th Eurasia Conference on Chemical Sciences, March 8-12, 2002, Karachi (Pakistan).

- 6 **Rashid Ahmad** and Syed Moosa Hasany, “*The efficacy of Coconut husk as a scavenger for Cd(II) ions*” 3rd Executive Management Seminar on Environment and Health, October 1-3, 2002, Islamabad (Pakistan).
- 7 Habib Ahmad and **Rashid Ahmad**, “*Agroecology of the catchment area of River Swat*” 3rd Executive Management Seminar on Environment and Health, October 1-3, 2002, Islamabad (Pakistan).
- 8 Syed Moosa Hasany, **Rashid Ahmad**, “*The potential of cost effective coconut husk for the removal of toxic metal ions for environmental protection and pollution abatement*”. Environmental Issue and WTO Challenges, March 26-28, 2004 Islamabad (Pakistan)
- 9 Syed Moosa Hasany **Rashid Ahmad** and Ummat Rasul Malik, “*Agricultural Waste: An economical and effective scavenger for Hg (II) ions from aqueous solutions*” 6th International and 16th National Chemistry Conference, February 4-6 2006, B. Z. University, Multan (Pakistan).
- 10 **Rashid Ahmad** and Syed Moosa Hasany, “*Potentials of cost effective sorbents for the extraction of Cr(III) ions from aqueous solutions*” 9th Symposium on Analytical and Environmental Chemistry, July 24-26, 2006, University of Peshawar, Summer Campus Bara Gali (Pakistan).
- 11 **Rashid Ahmad**, “*Microporous Coordination Polymers: Adsorbent of 21st Century*” Second National Conference on Fuel and the Environment, July 23-27, 2010, University of Peshawar, Summer Campus Bara Gali (Pakistan).
- 12 **Rashid Ahmad**, “*Tb(III) Ions Sequestration from Aqueous Solution using PAN-Incorporated Sol-Gel Matrices*” 6th Executive Management Seminar on The Current Environmental Pollution Scenario of Pakistan; Findings and Remediation. October 27-29, 2010, Islamabad, Pakistan