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|  | **Curriculum Vitae** |  |
| 1 | **Personal Information** | **Hizbullah Khan, PhD,**  Department of Environmental Sciences, University of Peshawar, 25120 Peshawar (Pakistan)  Phone: (+92) 91 9216742  e-mail: hizbullah@uop.edu.pk  **Sex** Male **Date of birth** 01/02/1965  **Place of Birth**: Charsadda **Nationality** Pakistani  **POSITION: Tenured Professor**, Department of Environmental Sciences,  University of Peshawar, 25120, Peshawar, Pakistan |
| 2 | **Work Experience**  **02/09/1996 – Present**  **01/09/1996-12/11/2001**  **13/11/2001–21/03/2009**  **22/03/2009–07/02/2011**  **08/02/2011–Present** | **Summary of Teaching, Research and Administrative Experience**  University of Karslruhe, Germany and University of Peshawar   * Teaching and research experience in the areas of Environmental, Analytical and Physical Chemistry at the University of Karlsruhe, University of Freiberg, **Germany**, N.C.E. in Physical Chemistry and University of Peshawar, **Pakistan** * Hand-on experience in the use of different state of the art analytical instruments for the environmental analysis of pollutants in air, water and soil and in their control technologies. * Strong background of university level teaching and instruction in the major areas of environmental, analytical, physical, aquatic, toxicological chemistry, and analytical instrumentation in the Department of Environmental Sciences, University of Peshawar, Pakistan.   **Lecturer, in Chemistry**  **Islamia College, University of Peshawar, Peshawar (Pakistan)**  Undergraduate level Chemistry and Lab  **Lecturer in Environmental Chemistry**  **Department of Environmental Sciences, University of Peshawar, Peshawar (Pakistan)**  Teaching and research experience in the areas of Environmental, Analytical and Toxicological Chemistry. Hand-on experience on the use of G.C.(FID, ECD,TCD and FTD), BET- surface area measurements, XRD, SEM, TPD, TPR, NDIR, FTIR, Chemiluminescence detector (CLD), UV-VIS, Ion Chromatography, HPLC, and Pesticides residue extractor. Strong background of university level teaching and instruction in the major areas of environmental, analytical, physical, aquatic, toxicological chemistry, and analytical instrumentation in the Department of Environmental Sciences, University of Peshawar, Pakistan.  **Associate Professor of Environmental Chemistry**  **Department of Environmental Sciences, University of Peshawar, Peshawar (Pakistan)**  Strong background of university level teaching and instruction in the major areas of environmental, analytical, aquatic, toxicological chemistry, and analytical instrumentation in the Department of Environmental Sciences, University of Peshawar, Pakistan.  **Professor of Environmental Sciences**  **Department of Environmental Sciences, University of Peshawar, Peshawar (Pakistan)**  Strong background of university level teaching and instruction in the major areas of environmental, analytical, physical, aquatic, toxicological chemistry, and analytical instrumentation in the Department of Environmental Sciences, University of Peshawar, Pakistan.  Executed several research Projects related to Air Pollution Control through Catalysis, Soil and Water Pollution. Integrated Pest Management and Conversion of Plastic Waste into energy |
| 3 | **EDUCATION AND TRAINING** | * **Ph.D.** (Physical Chemistry/Heterogeneous Catalysis), (**1996)** National Centre of Excellence in Physical Chemistry, University of Peshawar, * **M.Phil.** (Physical Chemistry / Heterogeneous Catalysis), (**1992)** NCE in Physical Chemistry, University of Peshawar, * **M.Sc.** (Chemistry), (**1989)** Department of Chemistry, University of Peshawar, * **B.Sc.** (Biological sciences), **(1985)** Islamia College, University of Peshawar, |
| 4 | **Post Doctoral Research**  **02/05/2000–31/07/2001**  **01/06/2004–30/08/2004**  **01/09/2009–30/11/2009**  **01/06/2019–31/08/2019** | **DAAD Post Doctoral Research Certificate**   * Institute of Technical and Polymer Chemistry, Technische Hochschule (TH), University of Karlsruhe, Karlsruhe **Germany.** * Karlsruhe institute of Technology, University of Karlsruhe (TH), Karlsruhe **Germany.** * Karlsruhe institute of Technology, University of Karlsruhe (TH), Karlsruhe **Germany.** * Institute of Reaction Techniques, IEC, TU Bergakademie, Freiberg, Freiberg Saxony **Germany.** |
| 5 | **Organisational / managerial skills** | **Summary of Administrative Experience:**   * **Dec. 02, 2016 – Dec. 01, 2019** as **Chairman**, Department of Environmental Sciences, University of Peshawar, worked as an Academic and Administrative head of a teaching department. * **April 15, 2011 - March 1, 2017** as **Director Admissions**, University of   Peshawar; **Organizational and Managerial skills:** Good leadership and good organizational skills gained as Director in the Management and Execution of all types of admissions in undergraduate, post graduate, higher studies, Post Graduate diploma within the University, its Constituent colleges and affiliated institutes. Holding of ASRB meetings. Focal Person of HEC for HEC-Need Base scholarships, PM laptop and Fee reimbursement scheme.   * **June 2008 - April 14, 2011 Coordinator/Camp Commander,** Baragali Summer Campus, University of Peshawar; Responsibilities include:   Management of National/International conferences, seminars, arrangement of boarding and lodging for the participants.   * **August. 2008 – Sept. 2009** as **Chief Proctor**, University of Peshawar and was responsible for the maintenance of law and order situation in the campus. Leaded a team of 30 staff proctors and 105 student proctors * **Sept. 2005 – August 2008** as **Staff Proctor**, University of Peshawar * **Nov. 1996 - April 2000** as **Resident Warden,** Haji Sahib Turangzai Hostel, Islamia College, University of Peshawar |
| 6 | **Job-related skills** | **Summary of Professional Experience:**   * **Institute of Reaction Techniques, TU Bergakademie, Freiberg (Saxony), Germany, Summer 2019**   Removal of Formaldehyde from air through Catalytic Oxidation using Iron oxide as Catalyst   * **Karlsruhe Institute of Technology, University of Karlsruhe, Germany Summer 2009**   Preparation and Characterization of Temperature Resistant Materials for the Removal of NOx from Fossil Fuel Combustion Sources. Use of XRD, TGDTA and TPR   * **University of Karlsruhe, Germany Summer 2004**   Post Doc. Research related to the selective catalytic reduction of nitrogen oxides by iron oxide catalysts. DRIFTS analysis of adsorbed NH3 on the surface of catalysts during selective catalytic reduction of NOx. Mechanistic of NOx reduction to N2 during SCR.   * **University of Karlsruhe, Germany 2000-2001**   Post Doc. Research related to the preparation of low-cost catalysts for the simultaneous catalytic removal of NOx and Soot from diesel engine exhaust. G.C., Chemiluminescence Detector (CLD), Non-dispersive Infra-red (NDIR) spectrometer used as analytical tools for the determination of N2, NOx, CO, CO2 and N2O respectively. Catalysts, Pervoskites, spineles and metal oxides prepared by PVA technique, used for the simultaneous removal of NOx and Soot in a simple micro catalytic reactor.   * **University of Heidelberg, Germany 2000**   Completed intensive German language course at the International Studies Centre, K.R. University Heidelberg and certificate awarded.   * **National Centre of Excellence in Physical Chemistry, University of Peshawar, Pakistan 1992 - 1996**   Completed qualifications and research for M.Phil. and Ph.D. degree in Physical Chemistry relating preparation and activation of supported metal oxide catalysts.   * **University of Peshawar, Pakistan 1996 - present**   Teaching and research experience in the areas of Environmental, Analytical and Physical Chemistry at the University of Karlsruhe, Germany, N.C.E. in Physical Chemistry, Pakistan and University of Peshawar. Hand-on experience on the use of G.C.(FID, ECD,TCD and FTD), BET- surface area measurements, XRD, SEM, TPD, TPR, Chemiluminescence detector (CLD), NDIR, FTIR, UV-VIS, Ion Chromatography, HPLC, and Pesticides residue extractor. Strong background of university level teaching and instruction in the major areas of environmental, analytical, physical, aquatic, toxicological chemistry, and analytical instrumentation in the Department of Environmental Sciences, University of Peshawar |
| 7 | **Presentations in International Conferences** | **PRESENTATIONS IN INTERNATIONAL CONFERENCES:**   * The 5th International Workshop of Meteorological Science and Technology in Central Asia, October 14-16, **2019**, Nanjing, **China**. * **Erasmus+** regional seminar for Asia" Academic Cooperation and Mobility, * **Bangkok (Thailand)**, 16-18 November, **2016** * Fifth Asia-Pacific Congress on Environmental Catalysis APCAT5, July 18 - 23, **2010**, Sapporo Convention Center, Sapporo, **Japan** * Fourth Asia-Pacific Congress on Environmental Catalysis, Dec. 6 - 8, **2006**, **Singapore**. * Third Asia-Pacific Congress on Environmental Catalysis, Oct. 12 - 15, **2003**, Dalian, **China** * **37th** International Seminar on Physical Chemistry and Chemical Engineering, University of Karlsruhe, **Germany July 22, 2001** * Bio-Forum Berlin, 7-10 June, **2001**, Technical University Berlin, **Germany** |
| 8 | **Courses** | **COURSES/TRAININGS/WORKSHOPS:**   * Pakistan Council of Scientific and Industrial Research, Lahore, Trouble shootings in Gas Chromatography, 2002 * **University of Karlsruhe, Germany**, Rhetoric and Presentation Techniques, 2001 * **University of Karlsruhe**, Germany, Environmental Chemistry, 2001 * **DECHEMA**, Frankfurt, Germany, Kinetics of Catalysed Reactions, 2001 * **DECHEMA**, Frankfurt, Germany, one-week workshop on Instrumental methods of Environmental Chemical Analysis, 2000 * **Forschung Zentrum Karlsruhe**, Germany, Seminar on Radioanalytical   Techniques, 2000   * **University of Heidelberg**, ISZ, Germany, Intensive German language course, 2000 * **University Grants Commission**, Pakistan, workshop on Polymer Chemistry,1992 * **University Grants Commission**, Pakistan, workshop on Light Scattering and Gas Chromatography, 1994 |
| 9 | **Research Projects** | **Research Projects Completed**:   * Entwicklung von Katalysatoren zur simultanen Entfernung von Stickdtoffoxiden und Russ aus dem Abgas von Kraftfahrzeug-Dieselmotoren; W. Weisweiler, **K. Hizbullah**, S. Kureti; Programm Lebensgrundlage Umwelt und ihre Sicherung (BWPLUS), Statusseminars des BWPLUS Februar 2002, Forschungzentrum Karlsruhe: Förderkennzeichen: BWD 20001, Die Arbeiten des Programms Lebensgrundlage Umwelt und ihre Sicherung werden mit Mitteln des Landes Baden-Württemberg gefördert. * Preparation and Activation of Pervoskites for the simultaneous conversion of NOx and soot from diesel engine exhaust into N2 and CO2., Funding Agency, University of Peshawar * Taxol Analysis from Taxus Wallachiana species and it Conservation strategy. Funding Agency: HEC * Team Leader for Performing Professional Consultation services to WSSP for the conduction of Environmental Impact Assessment for the Construction of Integrated Solid Waste Management facility at Peshawar, and the Conversion of Waste to Energy Project for District Peshawar. Funding Agency: WSSP * Catalytic Pyrolysis of Plastic Waste into fuel like products., Funding Agency: HEC |
| 10 | **Memberships** | **Membership of Statutory Bodies/Committees:**   * June 2009 - Dec. 2019, **Member Syndicate**, University of Peshawar * June 2009 till 2016, **Member Senate**, University of Peshawar * June 2020 till date, **Member Senate**, FATA University, FR Kohat * July 2014 till July 2017, **Member Senate**, Bacha Khan University, Charsadda * October 2009 till date**, Member Academic Council**, University of Peshawar * **Member Selection Committee** (2006-2016), (BPS 1-16), University of * Peshawar * **Member Finance and Planning Committee**, University of Peshawar **(2011 – 2019)** * **Member Examination Discipline Committee**, University of Peshawar * **Member/Secretary, Advanced Studies and Research Board**, University of Peshawar **(April 15, 2011-March 1, 2017)** * **Member, Advanced Studies and Research Board**, University of Swat * **Member Statute Framing Committee** for the University of Peshawar Act-   2011   * **Member Board of Governors (BOG)**, NCE in Physical Chemistry, University of Peshawar (**2014–2017**) * **Member Board of Governors (BOG)**, Pakistan Study Center, University of Peshawar (**2011–2014**) * **Member Board of Governors (BOG)**, BISE, Peshawar (**2011-2017**) * **Member Board of Governors (BOG)**, BISE, Mardan, (**2011-2017**) * **Member Board of Faculty**, life and Environmental Sciences, University of   Peshawar   * **Member Board of Studies**, Department of Environmental Sciences, University of Peshawar * **Member Board of Studies**, Department of Environmental Sciences, University of Haripur * **Member Board of Faculty of Sciences**, Islamia College University, Peshawar * **Member Departmental Tenure Track Review Committee (DTRC),**   Department of Environmental Sciences, University of Haripur, Haripur   * **Member DTRC,** Department of Chemistry, Kohat University of Science &   Technology, Kohat   * **Convener DTRC,** Department of Agronomy, The University of Agriculture,   Peshawar   * **Member DTRC**, Department of Soil & Env.Sci. The University of Agriculture, Peshawar * **Member DTRC**, Department of Agricultural Chemistry, The University of Agriculture, Peshawar * **Member Board of Studies**, Department of Agronomy, The University of Agriculture, Peshawar * **Convener DTRC,** Department of Environmental Sciences, SBB University   Sheringal, Dir Upper.   * **Member DTRC,** Department of Forestry, SBB University Sheringal, Dir Upper * **Member M.Phil/PhD review programme (PGPR),** HEC, Islamabad |
| 11 | **Fellowships and Awards** | **Fellowships/Awards:**   * (2019) DAAD, German Post Doc. Fellowship (June 1 – August 31, 2019) * (2011) PCST Research Productivity Award, (2010) * (2009) DAAD, German Post Doc. Fellowship (Sept. 1 – Nov. 30, 2009) * (2009) PCST Research Productivity Award, 2007 * **(**2006**)** Travel Grant from Higher Education Commission, Pakistan for participation in the 4th Asia Pacific Congress on Catalysis, Singapore. * (2006) PCST Research Productivity Award, 2004 * (2004) DAAD, German Post Doc. Fellowship (from June 1 – August 31, 2004) * (2004) PCST Research Productivity Award, 2003 * (2003) Travel Grant from Higher Education Commission, Pakistan and the University of Peshawar for participation in the 3rd Asia Pacific Congress on Catalysis, APCAT-3, Dalian, China * (2000-2001) DAAD German Post Doctoral Fellowship:May 2000-July 2001 * (1989-1992) U.G.C., Fellowship during M.Phil. * (1992-1995) U.G.C., Fellowship during PhD. * (1987-1988) Merit Scholarship, University of Peshawar |
| 12 | **PERSONAL SKILLS** | **Mother tongue(s)** Pashto, Urdu  **Foreign language(s)**   * **English:**   Communication skills: Good communication skills gained through University level experience in teaching and research.  Contact Skills: Excellent contact skills with students and employees gained through my experience in administration and part of different statutory bodies   * **German:**   Good communication skills gained through a 4 months Certificate level Extensive German Language Course, From International Student Center, University of Heidelberg, Germany. Medium of instruction at the Post Doc. level was German.  **Digital skills:**  Independent user in Information processing, Communication, Content creation and Safety while basic user in Problem solving |
| 13 | **Publications** | **Total Impact Factor from Publications = 265.86 (ISI 2019)**  **TOTAL CITATIONS: 1645; h-index: 20; i-10 Index=29**  **Prominent Publications**:   1. Faecal and nitrate contamination in the groundwater of Mardan district, Pakistan, (**2021**) Zia ur Rahman . Saeed Ahmad . Rivka Fidel . Salma Khalid . Iqbal Ahmad , Olivier S. Humphrey, Hizbullah Khan . Bushra Khan; ***Environ Geochem Health***; https://doi.org/10.1007/s10653-021-00848-8 2. Application of composite adsorption prepared from waste PS and PET for removal of Cr and Cu ions from wastewater (2020), Muhammad Ilyas, Waqas Ahmad, Hizbullah Khan, Imtiaz Ahmad; ***Desalination and Water Treatment***, 171, 144-157 3. Assessment Of Produced Wastewater Quality Of Oil And Gas Exploration In Fateh Jang Pakistan (2019), Said Akbar Khan, Hizbullah Khan, M. Ishtiaq Ch., Said Muhammad Khan; ***Fresenius Environmental Bulletin***, 28:8341-8348 4. Environmental sustainability of grey water footprints in Peshawar Basin; current and future reduce flow scenarios for Kabul River, Tariq Khan, Hizbullah Khan, ***International Journal of Agricultural and Biological Engineering***, (2019), 13(4):162-168 5. Khan T., Nouri H., Martijn J., Khan H., Hoekestra A., Ullah I. (2019), Blue and green water footprint of agriculture in Peshawar basin, Pakistan; ***European Geoscience Union***,2019, Vienna, Austria 6. Environmental and health impacts of industrial wastewater effluents in Pakistan: A review; Muhammad Ilyas, Waqas Ahmad, Hizbullah Khan, Saeeda Yousaf, Muhammad Yasir and Anwarzeb Khan, ***Reviews on Environmental Health*** (2019), DOI: 10.1515/reveh-2018-0078 7. Influence of surfactants on dispersity of Pakistani crude oils for resource recovery and residue reduction during distillation, Syed Mohammad Sohail, Imtiaz Ahmad, Hizbullah Khan, Waqas Ahmad, ***Journal of Environmental Chemical Engineering*** 7(2):102952, 2019 8. Catalytic Pyrolysis of Plastic Waste: Moving Toward Pyrolysis Based Biorefineries; Rashid Miandad, Mohammad Rehan, Mohamed A. Barakat, Hizbullah Khan, Iqbal M. I. Ismail, Jeya Dhavamani, Jabbar Gardy, Ali Hassanpour and Abdul-Sattar Nizami, , ***Frontiers in Energy Research*** 7:1-27, 2019 9. Dioxin leaching risk assessment through selected soils by estimating distribution coefficient and breakthrough curves; Nida Gul, Bushra Khan, Hizbullah Khan, Muhammad Israr; ***Environmental Monitoring and Assessment***, 190(11), 649, 2018 10. Assessment of dioxin risk in the selected soils through sorption/desorption Nida Gul, Bushra Khan, Hizbullah Khan, Zia ur Rahman, and Iqbal Ahmad, ***Journal of Himalayan Earth Sciences*** (2018), 51, (2A), 78-86 11. Plastic waste as a significant threat to environment - A systematic literature review September 2018, Muhammad Ilyas, Waqas Ahmad, Hizbullah Khan, Saeeda Yousaf, Kifayatullah Khan and Shah Nazir, ***Reviews on environmental health***; DOI: 10.1515/reveh-2017-0035, 12. Study on adsorptive capability of acid activated charcoal for desulphurization of model and commercial fuel oil samples; Syed Sikandar Shah, Imtiaz Ahmad, Waqas Ahmad, M. Ishaq, Razia Khan, Kashif Gul and Hizbullah Khan, ***Journal of Environmental Chemical Engineering*** 6(4); June 2018, DOI: 10.1016/j.jece.2018.06.008 13. Study on Atmospheric Distillation of Some Plain and Chemically Dispersed Crude Oils: Comparison of Yields and Fuel Quality of Distillate Fractions; Imtiaz Ahmad, Sayed Muhammad Sohail, Hizbullah Khan, Waqas Ahmad, Kashif Gul, Razia Khan and Aftab Yasin; ***Energy & Fuels***, 32(1), January 2018, DOI: 10.1021/acs.energyfuels.7b02857 14. Prevalent fecal contamination in drinking water resources and potential health risks in Swat, Pakistan, Kifayatullah Khan, Yonglong Lu, Mian Abdal Saeed, Hazrat Bilal, Hassan Sher, Hizbullah Khan /Publications/JES, 2018.htm - et al., ***Journal of Environmental Sciences***, DOI.10.1016/ j.jes. 2017.12.008 15. Assessment of fluoride contamination in groundwater of District Mardan in Pakistan; Zia ur Rahman, Bushra Khan, Hizbullah Khan, Mark L Brusseau, Iqbal Ahmad, ***Fluoride,*** 50(4)445– 454, October-December 2017 16. Deep Desulphurization Study of Liquid Fuels Using Acid Treated Activated Charcoal as Adsorbent; Syed Sikandar Shah, Imtiaz Ahmad, Waqas Ahmad, Muhammad Ishaq, Hizbullah Khan, ***Energy & Fuels*** · July 2017, DOI: 10.1021/acs.energyfuels.7b00914 17. Oxidative Stability of Base Lubricant Oil Monitored by Gas Chromatography–Mass Spectrometry: Influence of Sawdust-Derived Antioxidants; Imtiaz Ahmad, Jan Ullah , Muhammad Ishaq, Hizbullah Khan, Razia Khan , Waqas Ahmad, Kashif Gul, ***Energy & Fuels*** · June 2017, DOI: 10.1021/acs.energyfuels.7b00555 18. Influence of waste brick kiln dust on pyrolytic conversion of polypropylene in to potential automotive fuels; Imtiaz Ahmad, M. Ismail, Hizbullah Khan, Muhammad Ishaq, Razia Khan, Kashif Gul, Waqas Ahmad; ***Journal of Analytical and Applied Pyrolysis***, June 2017, DOI: 10.1016/j.jaap.2017.06.002 19. Pyrolysis of HDPE into Fuel Like Products: Evaluating Catalytic Performance of Plain and Metal Oxides Impregnated Waste Brick Kiln Dust; Imtiaz Ahmad, M. Ismail, Hizbullah Khan, Muhammad Ishaq, Razia Khan, Kashif Gul, Waqas Ahmad, ***Journal of Analytical and Applied Pyrolysis*** · February 2017, DOI: 10.1016/j.jaap.2017.02.005 20. Valorization of spent lubricant engine oil via catalytic pyrolysis: Influence of barium-strontium ferrite on product distribution and composition, Imtiaz Ahmad, Razia Khan, Muhammad Ishaq, Hizbullah Khan, M. Ismail, Kashif Gul, Waqas Ahmad; ***Journal of Analytical and Applied Pyrolysis***, October 2016, DOI:10.1016/j.jaap.2016.10.008 21. Production of Lighter Fuels from Spent Lubricating Oil via Pyrolysis over Barium-Substituted Spinel Ferrite, Imtiaz Ahmad, Razia Khan, M. Ishaq, Hizbullah Khan, , M. Ismaeel, Kashif Gul and Waqas Ahmad, ***Energy & Fuels*** · June 2016, DOI: 10.1021/acs.energyfuels.6b00796 22. Production of diesel-like fuel from spent engine oil by catalytic pyrolysis over natural magnetite, Razia Khan, Imtiaz Ahmad, Hizbullah Khan, M. Ismaeel, Kashif Gul, Aftab Yaseen and Waqas Ahmad, 2016, ***Journal of Analytical and Applied Pyrolysis***, June 2016, DOI: 10.1016/j.jaap.2016.06.022 23. Catalytic Pyrolysis of Used Engine Oil over Coal Ash into Fuel-like Products Imtiaz Ahmad, Razia Khan, M. Ishaq, Hizbullah Khan, , M. Ismaeel, Kashif Gul and Waqas Ahmad, ***Energy & Fuels***, 2015, DOI: 10.1021/acs.energyfuels.5b02316 24. Oxidative Stability of the Plain and Additized Mineral Base Oil Samples Monitored through Gas Chromatography−Mass Spectrometry, Imtiaz Ahmad, Jan Ullah, M. Ishaq, Hizbullah Khan, Razia Khan, Waqas Ahmad, and Kashif Gul, ***Energy & Fuels***, 2015, 29, 6522−6528 25. Monitoring of oxidation behavior in mineral base oil additized with biomass derived antioxidants using FT-IR spectroscopy, Imtiaz Ahmad, Jan Ullah, Muhammad Ishaq, Hizbullah Khan, Kashif Gul, Samina Siddiquic and Waqas Ahmad, ***RSC Adv***., 2015 (5), 101089–101100 26. Characterizing Antioxidant Potential of Alcoholic Extracts of Rice Husk and Saw Dust for Oxidative Stability of Base Lubricating Oil Using Physico-chemical Properties, Imtiaz Ahmad, Jan Ullah, M. Ishaq, Hizbullah Khan, Razia Khan, Waqas Ahmad, Kashif Gul, ***Waste Biomass Valor***, 2015, DOI 10.1007/s12649-015-9449-1. 27. Geochemical impact assessment of produced water of Sadqal oil and gas field on the soil surrounding the storage ponds in Fateh Jang area, Punjab, Pakistan, Said Akbar Khan , Hizbullah Khan , Imtiaz Ahmad , Muhammad Ishtiaq and Asad Khan, ***Journal of Himalayan Earth Sciences***, 2015, 48( 2) , 75-84 28. Evaluation of toxicity of some novel pesticides to parasitism by trichogramma chilonis (hymenoptera: trichogrammatidae), Muhammad Ashraf Khan, Hizbullah Khan, Abid Farid and Amjad Ali, ***J. Agric. Res***., 2015, 53(1), 63-73 29. Lethal and behavioral effects of selected novel pesticides on adults of Trichogramma pretiosum (Trichogrammatidae: Hymenoptera), Muhammad Ashraf Khan, Hizbullah Khan, John R. Ruberson, ***Pest Management Science***, 2015; DOI: 10.1002/ps.3972 30. Catalytic Performance of Metal Impregnated Carbon (Darco) in Conversion of Polypropylene and High-Density Polyethylene into Useful Products, M. Ismail Khan, Imtiaz Ahmad, Hizbullah Khan, M. Ishaq, Razia Khan, Kashif Gul, Waqas Ahmad, ***Fullerenes Nanotubes and Carbon Nanostructures***, 2015; 23(7). 31. Evaluation of toxicological risk of foodstuffs contaminated with heavy metals in Swat, Pakistan., Kifayatullah Khan, Hizbullah Khan, Yonglong Lu, Ihsan Ihsanullah, Javed Nawab, Sardar Khan, Noor S Shah, Isha Shamshad, Afsheen Maryam, ***Ecotoxicology and Environmental Safety***, 2014; 108C:224-232. 32. Influence of metal-oxide-supported bentonites on the pyrolysis behavior of polypropylene and high-density polyethylene, Imtiaz Ahmad, Mohammad Ismail Khan, Hizbullah Khan,Mohammad Ishaq, Razia Tariq, Kashif Gul, Waqas Ahmad, ***Journal of Applied Polymer Science***, 07/2014; DOI: 10.1002/app.4122 33. Pyrolysis Study of Polypropylene and Polyethylene in to Premium Oil Products Imtiaz Ahmad, M. Ismail Khan, Hizbullah Khan, M. Ishaq, Razia Tariq, Kashif Gul, Waqas Ahmad, ***International Journal of Green Energy***, 2014(3) 34. Assessment of the lethal and parasitism effects of Heicoverpa armigera Nucleopolyhedrovirus (HaNPV) on Trichogramma chilonis (Ishii) (Hymenoptera: Trichogrammatidae). Khan, M. A., Khan, H., Farid, A., ***Sarhad Journal of Agriculture***, 2014, 30(4): 425-432. 35. A comparative and spatial study of various areas of Khyber Pakhtunkhwa- an education perspective, Hizbullah Khan, Shah Nazir, Sara Shahzad, Muhammad Iqbal,Muhammad Dawood, Fayaz Ali, Qamruz Zaman, Muhammad Ilyas, ***Life Science Journal***, 05/2014 36. Catalytic efficiency of some novel nanostructured heterogeneous solid catalysts in pyrolysis of HDPE, Imtiaz Ahmad, M. Ismail Khan, M. Ishaq, Hizbullah Khan, Kashif Gul, Waqas Ahmad, ***Polymer Degradation and Stability*** 2013; 98(12):2512–2519. 37. Prevalence of pneumoconiosis among coal miners of Cherat, District Nowshera – Pakistan, 2013, Ishtiaq Ahmad, Rabnawaz, K. Khan, Hizbullah Khan, G. Sarwar, S. Zakir and N. Jehan, ***Journal of Postgraduate Medical Institute*** 28(2):139-144 38. Pesticide exposure and endocrine dysfunction in the cotton crop agricultural workers of southern punjab, pakistan. Dilshad A Khan, Karam Ahad, Wafa M Ansari, Hizbullah Khan, ***Asia-Pacific Journal of Public Health***, 2013; 25(2):181-191. 39. Health Risks Associated with Heavy metals in Drinking Water of Swat, Northern Pakistan; Kifayatullah Khan, Yonglong Lu, Hizbullah Khan, Shahida Zakir, Ihsanulah, Sardar Khan, Akbar Ali Khan, Luo Wei and Tieyu Wang, ***Journal of Environmental Sciences***, 2013, 25(10), 2003-13 40. Water quality assessment of River Kabul at Peshawar, Pakistan: Industrial and Urban Wastewater Impacts; Zahidullah, Hizbullah Khan, Amir Waseem, Qaiser Mahmood and Umar Farooq, ***Journal of Water Chemistry and Technology***, 2013, 35(4), 170176 41. Heavy metals in agricultural soils and crops and their health risks in Swat District, northern Pakistan, Kifayatullah Khan, Yonglong Lu, Hizbullah Khan, Muhammad Ishtiaq, Sardar Khan, Muhammad Waqas , Luo Wei, Tieyu Wang, ***Food and Chemical Toxicology***, 2013, 58, 449–458 42. Characterization of Coal Samples from Dasal-I Coal Mine, Fazal Wahid, Imdad U. Mohammadzai Nouman ali Mohammad Tahir Shah and Hizbulah Khan, ***J.Chem.Soc.Pak***., 2012, 34(5), 1274-1278 43. Heavy Metals Concentration Trends In Three Fish Species From Shah Alam River, Khyber Pakhtunkhwa Province, Pakistan, Khan, B.; Khan, H.; Muhammad, S.; Khan, T, ***Journal of Natural & Environmental Sciences***, 2012, 3(1): 1-8 44. 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| 14 | **M. Phil./PhD. Students Supervised** | 1. Muhammad Nafees, **PhD**; 2008: Soil Conservation in River Swat Watershed, NWFP, Pakistan 2. Zahidullah, **PhD**; 2009: Study of Physico-Chemical and Biological Treatment Facilities for the Industrial Wastewater of Hayatabad, Peshawar 3. Sitara Zeb Khan, **MPhil**; 2009: Study on Catalytic Activity of Platinum Nanoparticles in a defined Contact between Platinum and Carbon via Carbon Oxidation 4. Naveed Jan, **PhD**; 2011: Study on the Catalytic Oxidation of Diesel Engine Soot using Iron Oxide Catalysts 5. Kifayatullah Khan, **PhD**; 2013: Environmental Concentrations of Heavy Metals and their Health Impacts in Swat, Pakistan 6. Muhammad Ashraf Khan, **PhD**; 2013: Assessment of Lethal and Sublethal effects of some novel Pesticides on Trichogramma Ethilonis (Ishii) (Trichogrammatidae: Hymenoptera) 7. Muhammad Ismaeel Khan, **PhD**; 2014: Influence of some Heterogeneous Catalysts on Pyrolytic Conversion of model Polypropylene and High Density Polyethylene into Fuel like Products 8. Sana Zafar, **MPhil**; 2014: Quality Assessment of Potable Water Supplies in Khyber Agency, Pakistan 9. Razia Tariq, **PhD**; 2017: Study on adsorptive capability of acid activated charcoal for desulphurization of model and commercial fuel oil samples 10. Said Akbar Khan, **PhD**; 2015: Study on the Detrimental Effects of Wastewater on Water Qualityand Soil, from Sadqal Oil and Gas Fields, FatehJang, Punjab, Pakistan 11. Zia ur Rehman, **PhD**; 2018: Nitrate and Fluoride Contamination in Soil and Drinking Water in District Mardan, Pakistan 12. Syed Muhammad Sohail, **PhD**; 2018: Influence of surfactants on dispersity of Pakistani crude oils for resource recovery and residue reduction during distillation 13. Nasreen Ghaffar, **PhD**; 2019: Production Optimization and Impact of Environmental Factors in Taxol (Anticancer) in Taxus Wilichiana *Zucc.* 14. Tariq Khan, **PhD**; 2019: Environmental Sustainability Analysis of Water Footprints of Peshawar Basin, Pakistan 15. Muhammad Israr, **PhD**; 2019: Municipal Solid Waste Management and its Detrimental Impacts on Ground Water Quality in District Mardan 16. Akbar Ali, **PhD**; 2019: Environmental Analysis of Surface and Ground Water Quality in District Mardan, Pakistan 17. Shahid Hussain, **PhD**; 2019: Construction of Energy Efficient Buildings for the Solar Radiation Management in Summer and Winter Seasons 18. Asma Gul, **M.Phil**; 2020: Distribution, Mapping and Density of Texus Willichiana in Northern Areas of Paksitan 19. Romana Kanwal,**M.Phil**; 2020: Heavy Metal Contamination in Vegetables, Soil, Water and their Possible Impacts on Human Health in Dir Lower, Khyber Pakhtunkhwa 20. Azra Sulthan, **M.Phil**, 2020: Quantification of Pesticides Residues in Orchards and Non Orchards Soil in District Swat. |
| 15 | **Memberships** | * Chemical Society of Pakistan * DAAD Alumni * Society of German Chemists (GDCH) |