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# ADNAN

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## **Assistant Professor**

Institute of Chemical Sciences, University of Swat, Main Campus, Charbagh, Swat 19130, Khyber Pakhtunkhwa, Pakistan.

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## **Other Names**

Due to single name, my name is also written as below especially for online applies:

- **Adnan Adnan**,
- **FNU Adnan** (where FNU stands for first name is unknown as given in my USA Visa)
- **Adnan Rauf**

## **EDUCATION**

Degree	Year	Department	Institution/Affiliation with
<b>Ph.D.</b> (Analytical Chemistry)	<b>2014</b>	Institute of Chemical Sciences	University of Peshawar, Peshawar, Pakistan
<b>M.Sc.</b> (Analytical/Inorganic Chemistry)	<b>2007</b>	Department of Chemistry	Hazara University, Mansehra, Pakistan
<b>B.Sc.</b> (Physical & Biological Sciences)	<b>2004</b>	Govt. Post Graduate Jehanzeb College, Saidu Sharif, Swat, Pakistan	University of Malakand, Dir Lower, Pakistan
<b>F.Sc.</b> (Physical & Biological Sciences)	<b>2002</b>	Govt. Post Graduate Jehanzeb College, Saidu Sharif, Swat, Pakistan	Board of Intermediate & Secondary Education, Swat, Pakistan
<b>S.S.C.</b> (Science)	<b>2000</b>	Govt. Higher Secondary School, Mingora, No.2	Board of Intermediate & Secondary Education, Swat, Pakistan

## **RESEARCH INTERESTS**

- Alternate energy production; Energy Storage & Water Splitting Reactions
- Heterogenous Catalysis
- Waste to valuable chemicals and fuels
- Carbon dioxides (CO<sub>2</sub>) capture and utilization
- Nano-size particle technology
- Removal of heavy metals, dyes or other toxicant from aqueous media using degradation or adsorption.
- Method development for the determination of toxicants

## RESEARCH PROJECTS

S.No.	Grant Name	Title	Project Duration In Years	Date of Award	Fund (PKR)	Status
4.	Local Challenge Fund, HEC Pakistan 2020 <b>20-LCF-278</b>	Integrated Conductive Polymers-Coated Sulfur Enriched Porous Carbons with Single Walled Carbon Nanotubes as Self-Supported and Flexible Cathodes for Lithium-Sulfur Batteries.	2	May, 2021	27.1 million	Continue.
3.	Start of Grant Project, HEC, Pakistan, 2015	Studies on The Co-Pyrolysis of Polystyrene with other Municipal Plastic Wastes into Valued Products using Supported Catalysts.	0.75 (9 months)	November, 2015	0.306 million	Completed
<b>Project Conducted during MPhil Leading to PhD Studies</b>						
2.	IRSIP, HEC, Pakistan to Columbia University, USA Project, 2013	Synthesis and Characterization of active (Polyethylenimine) impregnated supports (like Zeolite Y) as adsorbent for CO <sub>2</sub> Capture.	0.5 (6 months)	October 22, 2013	Estd. 1.5 million	Completed
1.	Indigenous 5000 PhD Fellowship Program, HEC, Pakistan, 2009 (PhD Project)	Studies on Impregnated Catalysts for Conversion of Waste Expanded Polystyrene into Value Added Hydrocarbons.	5	December, 2009	Estd. 5.5 million	Completed

## WORK EXPERIENCE

<b>Institution:</b>	<b>Institute of Chemical Sciences, University of Swat</b>
<b>Designation:</b>	<b>Assistant Professor</b>
<b>Duration:</b>	<b>February 12, 2015 up to Date</b>
<b>Address:</b>	Charbagh, Swat 19130, Khyber Pakhtunkhwa, Pakistan
<b>Job Description:</b>	Demonstrating and elaborating various aspects of Analytical Chemistry. Concise lecture delivering and doing practical procedures in analytical chemistry to the graduate students. Interactive discussions, presentation, seminar, and symposia as a part of carrier. Doing research in analytical and environmental chemistry sector with the motive to relief our environment for better future and renewable energy sources.
<b>Institution:</b>	<b>HIRA MODEL SCHOOL</b>
<b>Designation:</b>	<b>Subject Specialist (Chemistry)</b>
<b>Duration:</b>	<b>February 01, 2005 to December 10, 2005</b>
<b>Address:</b>	Gulkada No. 2, Saidu Sharif, Swat 19130, Khyber Pakhtunkhwa, Pakistan.
<b>Job Description:</b>	Teaching of chemistry and doing relevant practicals to the undergraduate students. Additional supervisory duty as Warden of the hostel of the same institute.

## LIST OF PUBLICATIONS

S.No.	Publication Detail	HJRS Category	IF
19.	Muhammad Alamzeb, William N Setzer, Saqib Ali, Behramand Khan, Mamoon-Ur- Rashid, Ihsanullah, Syed Muhammad Salman, <b>Adnan</b> , Muhammad Omer <b>Comprehensive molecular docking against human protein targets to explain and validate the anti-inflammatory, anti-pyretic and leishmanicidal properties of a new bisbenzylisoquinoline alkaloid</b> <i>Frontiers in Chemistry</i>	W	5.221
18.	Tanzeela Fazal, Shahid Iqbal, Mazloom Shah, Ali Bahadur, Bushra Ismail, Hisham S. M. Abd-Rabboh, Rabia Hameed, Qaiser Mahmood, Aliya Ibrar, Muhammad Sufyan Nasar, Yasir Ehsan, Ahmad Nauma, <b>Adnan</b> , and Muhammad Abdul <b>Deposition of bismuth sulfide and aluminum doped bismuth sulfide thin films for photovoltaic applications</b> <i>Journal of Materials Science: Materials in Electronics</i>	X	2.478
17.	Muhammad Alamzeb, Saqib Ali, Mamoon-Ur-Rashid, Behramand Khan, Ihsan Ullah, <b>Adnan</b> ; Muhammad Omer Asad Ullah, Javed Ali, Setzer, William; Syed Salman, Ajmal Khan, Akram Shah <b>Antileishmanial potential of berberine alkaloids from Berberis glaucocarpa roots: Molecular docking suggests relevant Leishmania protein targets</b> <i>Natural Product Communications (Accepted)</i> DOI: <a href="https://doi.org/10.1177%2F1934578X211031148">https://doi.org/10.1177%2F1934578X211031148</a>	X	0.986
16.	Mansoor Khan, Shaista Naseer, Muslim Khan, Ruqia Nazir, Amir Badshah, <b>Adnan</b> , Shaukat Shujah, Asia Parveen <b>Magnetic Solid Phase Extraction of Cd (II) From Water Samples Using Magnetic Nanoparticles Impregnated Walnut Shells Powder (MNPs-WSP)</b> <i>Desalination and Water Treatment</i> , 228, 286-296 (2021). DOI: <a href="https://doi.org/10.5004/dwt.2021.27352">https://doi.org/10.5004/dwt.2021.27352</a>	W	1.150
15.	Muhammad Sohail, Sanaullah Khan, M Saleem Khan, Ihsan Ullah, Muhammad Omer, Noor Saeed, Sabiha Sultana, <b>Adnan</b> , Adnan Shahzad, Mian Gul Sayed, <b>Towards the development of stable and efficient novel waste ceramics composites,</b> <i>Heliyon</i> 7, e06148 (2021). DOI: <a href="https://doi.org/10.1016/j.heliyon.2021.e06148">https://doi.org/10.1016/j.heliyon.2021.e06148</a>	X	3.642
14.	Muhammad Sohail, Sana Ullah, Shafiq ur Rahman, Bilal Ahmad, <b>Adnan</b> , Ihsan Ullah, <b>Synthesis and Characterization of Mg-matrix based TiO<sub>2</sub>/Al<sub>2</sub>O<sub>3</sub> Composite Materials,</b> <i>Metals and Materials International</i> . 1-10 (2021) DOI: <a href="http://doi.org/10.1007/s12540-020-00954-9">http://doi.org/10.1007/s12540-020-00954-9</a> .	W	2.850
13.	Kausar Shaheen, Zarbad Shah*, Behramand Khan, <b>Adnan</b> , Muhammad Omer, Muhammad Alamzeb, and Hongli Suo* <b>Electrical, Photocatalytic, and Humidity Sensing Applications of Mixed Metal Oxide Nanocomposites</b> <i>ACS Omega</i> , 5(13), 7271-7279 (2020) DOI: <a href="https://doi.org/10.1021/acsomega.9b04074">https://doi.org/10.1021/acsomega.9b04074</a>	W	3.512
12.	Muhammad Naem Khan, Waqar Ali, Zarbad Shah, Muhammad Idrees, Hussain Gulab, <b>Adnan</b> , <b>A Validated Spectrofluorimetric Method for the Determination of Moxifloxacin in its Pure Form, Pharmaceutical Preparations and Biological Samples</b> <i>Analytical Sciences</i> 36(3), 361-366 (2020) DOI: <a href="https://doi.org/10.2116/analsci.19P370">https://doi.org/10.2116/analsci.19P370</a>	X	2.081
11.	Jasmin Shah, Muhammad Rasul Jan, <b>Adnan</b> ,	W	5.876

	<b>Metal Decorated Montmorillonite as a Catalyst for the Degradation of Polystyrene</b> <i>Journal of Taiwan Institute of Chemical Engineers</i> , 80, 391-398 (2017). DOI: <a href="https://doi.org/10.1016/j.jtice.2017.07.026">https://doi.org/10.1016/j.jtice.2017.07.026</a>		
10.	<b>Adnan</b> , Jasmin Shah, Muhammad Rasul Jan <b>Recovery of Valuable Hydrocarbons from Waste Polystyrene Using Zinc Supported Catalysts</b> <i>Journal of the polymer and the Environment</i> , 25(3), 759-769 (2017). DOI: <a href="https://doi.org/10.1007/s10924-016-0858-4">https://doi.org/10.1007/s10924-016-0858-4</a>	W	3.667
09.	Javed Nawab, Sharafat Ali, <b>Adnan</b> , Ubaid Ur Rehman, Akbar Ali Khan, Muhammad Sajjad and Wajid Khan <b>Health risk associated with heavy metals via consumption of surface and groundwater in District Shangla, Pakistan</b> <i>Journal of Himalayan Earth Sciences</i> 48(2), 62-73 (2015). DOI: <a href="#">please click here to see the paper link</a>	Y	0.53
08.	Jasmin Shah, Muhammad Rasul Jan, <b>Adnan</b> <b>Tertiary recycling of waste polystyrene using magnesium impregnated catalysts into valuable products</b> <i>Journal of Analytical and Applied Pyrolysis</i> 114, 163-171 (2015). DOI: <a href="https://doi.org/10.1016/j.jaap.2015.05.009">https://doi.org/10.1016/j.jaap.2015.05.009</a>	W	5.541
07.	Jasmin Shah, Muhammad Rasul Jan, <b>Adnan</b> , Muhammad Zada <b>Effect of Carbon Supported Metals on the Tertiary Recycling of Waste Expanded Polystyrene</b> <i>Journal of Process Safety and Environmental Protection</i> 96, 149-155 (2015) DOI: <a href="https://doi.org/10.1016/j.psep.2015.05.004">https://doi.org/10.1016/j.psep.2015.05.004</a>	W	6.158
06.	<b>Adnan</b> , Jasmin Shah, Muhammad Rasul Jan <b>Effect of polyethylene terephthalate on the pyrolysis of polystyrene using supported catalyst; investigation of the liquid products</b> <i>Journal of the Taiwan Institute of Chemical Engineers</i> 51, 96-102 (2015) DOI: <a href="https://doi.org/10.1016/j.jtice.2015.01.015">https://doi.org/10.1016/j.jtice.2015.01.015</a>	W	5.876
05.	<b>Adnan</b> , Jasmin Shah, Muhammad Rasul Jan <b>Polystyrene Degradation Studies using Cu Supported Catalysts</b> <i>Journal of Analytical and Applied Pyrolysis</i> 109, 196-204 (2014). DOI: <a href="https://doi.org/10.1016/j.jaap.2014.06.013">https://doi.org/10.1016/j.jaap.2014.06.013</a>	W	5.541
04.	Jasmin Shah, Muhammad Rasul Jan, <b>Adnan</b> <b>Catalytic Activity of Aluminium Impregnated Catalysts for the Degradation of Waste Polystyrene</b> <i>International Journal of Chemical, Nuclear, Metallurgical and Materials Engineering</i> 8(4) 344-350 (2014). DOI: <a href="https://doi.org/10.5281/zenodo.1093682">https://doi.org/10.5281/zenodo.1093682</a>	■	0.000
03.	<b>Adnan</b> , Jasmin Shah, Muhammad Rasul Jan <b>Thermo-Catalytic Pyrolysis of Polystyrene in the Presence of Zinc Bulk Catalysts</b> <i>Journal of the Taiwan Institute of Chemical Engineers</i> 45, 2494-2500 (2014). DOI: <a href="https://doi.org/10.1016/j.jtice.2014.05.011">https://doi.org/10.1016/j.jtice.2014.05.011</a>	W	5.876
02.	Jasmin Shah, Muhammad Rasul Jan, <b>Adnan</b> <b>Conversion of Waste Polystyrene through Catalytic Degradation into Valuable Products</b> <i>Korean Journal of Chemical Engineering</i> 31(8), 1389-1398 (2014). DOI: <a href="https://doi.org/10.1007/s11814-014-0016-4">https://doi.org/10.1007/s11814-014-0016-4</a>	W	3.309
01.	Jasmin Shah, Muhammad Rasul Jan, <b>Adnan</b> <b>Catalytic activity of metal impregnated catalysts for degradation of waste polystyrene</b> <i>Journal of Industrial and Engineering Chemistry</i> 20 (5) 3604-3611 (2014).	W	6.064

**AWARDS & HONORS**

S.No.	Award/Honor with Details and Date
6.	Awarded "Research Excellence Award" on winning HEC LCF-2020 for receiving grant more than 1 million (i.e., PKR. 27.1 million) on the occasion of Pakistan Independence Day, Dated: August 14, 2021 by the Honorable Vice Chancellor, University of Swat
5.	Awarded research grant under <u>Local Challenge Fund 2020</u> of PKR. 27.1 million under title, " <u>Integrated Conductive Polymers-Coated Sulfur Enriched Porous Carbons with Single Walled Carbon Nanotubes as Self-Supported and Flexible Cathodes for Lithium-Sulfur Batteries.</u> " granted by Higher Education Commission (HEC) of Pakistan awarded via letter No. 20-LCF-278/RGM/R&D/HEC/2020, Dated: May 28, 2021.
4.	Awarded research grant under <u>Start-Up Grant</u> of PKR. 0.5 million for fresh Assistant Professor appointed on TTS having title, " <u>Studies on Impregnated Catalysts for the Conversion of Waste Expanded Polystyrene into Value Added Hydrocarbons</u> " granted by Higher Education Commission (HEC) of Pakistan awarded via letter No. 21-445 SRGP/R&D/HEC/2014, Dated: June 3, 2015.
3.	Awarded internship as Assistant Professor on TTS <u>Interim Placement Program of Fresh PhD's (IPFP)</u> at Institute of Chemical Sciences, University of Swat, Swat, Khyber Pakhtunkhwa, Pakistan awarded via letter No. 2541/IPFP/HRD/HEC/2016/559, Dated: February 11-2015.
2.	Awarded International research grant to US under <u>International Research Support Initiative Program (IRSIP)</u> of Higher Education Commission (HEC) of Pakistan for 6-month research at Department of Earth and Environmental Engineering, Columbia University, New York, NY, USA under HEC Personal identification number (PIN): IRSIP 24 PS 13 awarded via letter No. 1-8/HEC/HRD/2013/2807, Dated: July 26-2013.
1.	Awarded fellowship for PhD Studies under <u>Indigenous 5000 PhD Fellowship Program</u> of Higher Education Commission (HEC) of Pakistan at Institute of Chemical Sciences, University of Peshawar, Peshawar, Pakistan under HEC Personal identification number (PIN): 106-1039-Ps6-033 awarded via letter No. 17-5-6(Ps6-033)/HEC/Sch/2010, Dated: June 09-2011.

**STUDENTS PROJECTS SUPERVIZED/SUPERVIZING**

Program	Session	S.No.	Student Name	Project	Supervision/ Co-Supervision	Status
M.Phil.	2020-2022	10.	Nasir Iqbal	Organic Synthesis / Natural Products	Supervisor	Continue...
		9.	Shamim Akhtar	Li-S Batteries	Supervisor	Continue...
		8.	Sidra Khan	Li-S Batteries	Supervisor	Continue...
		7.	Muhammad Irfan	Li-S Batteries	Supervisor	Continue...
	2019-2021	6.	Shahista Yaqoob	Method Development for the determination of Gemifloxacin using Eosin Y.	Supervisor	Continue...
		5.	Sarwat	Photocatalytic Degradation using C/TiO <sub>2</sub>	Supervisor	Continue...
		4.	Kalsoom Akbar	Photocatalytic Degradation using N & S/TiO <sub>2</sub>	Supervisor	Continue...
		3.	Zakir Ullah	Photocatalytic Degradation using Double Metal Catalysts	Supervisor	Continue...

		2.	<b>Rahmul Kabir</b>	Photocatalytic Degradation using Double Metal Catalysts	Supervisor	Continue...
	2018-2020	1.	<b>Haider Ali</b>	Photocatalytic Degradation using W/TiO <sub>2</sub>	Co-Supervisor	Continue...
<b>MSC</b>	2017-2019	21.	<b>Omama Ikram</b>	Photocatalytic degradation of methylene blue from aqueous solution in the presence of Mn/Nb <sub>2</sub> O <sub>5</sub> catalyst	Supervisor	Completed
		20.	<b>Sumbal Mahmood</b>			
	2016-2018	19.	<b>Israel Khan</b>	Synthesis of niobium pentoxide (Nb <sub>2</sub> O <sub>5</sub> ) based catalyst with iron (Fe), copper (Cu) and manganese (Mn)	Supervisor	Completed
		18.	<b>Shahab Khan</b>			
		17.	<b>Fazlur Rehman</b>	Removal of Toxic Phenols from Aqueous Solutions Using Supported Photocatalysts	Supervisor	Completed
		16.	<b>Inayatullah</b>			
		15.	<b>Asaf Khan</b>	Photo Degradation of 4-Nitrophenol in Aqueous Solution using Fenton Reagent	Supervisor	Completed
		14.	<b>Akhtar Ali</b>			
	13.	<b>Rahim Ullah</b>				
	2015-2017	12.	<b>Muhammad Farooq</b>	Adsorption studies on the removal of metanil yellow from aqueous solution using pistachio shell carbonized magnetic nanoparticles	Co-Supervisor	Completed
		11.	<b>Shaukat Aziz</b>			
		10.	<b>Nawab Ali</b>	Studies on Fe/Al <sub>2</sub> O <sub>3</sub> photocatalyst for the decomposition of methylene blue in aqueous solution	Supervisor	Completed
		9.	<b>Mehboob Alam</b>			
	2014-2016	8.	<b>Kalsoom</b>	Degradative removal of methythionium chloride from aqueous solutions in the presence of Cr/ZnO catalyst	Supervisor	Completed
		7.	<b>Ubaid Ullah</b>	Photocatalytic enhanced degradation of methyl violet with Ni/ZnO supported catalyst	Supervisor	Completed
		6.	<b>Shaheen Zeb</b>			
		5.	<b>Shadaab Saleem</b>	Photocatalytic degradation of methylene blue in aqueous solution using Cu impregnated catalysts over ZnO	Supervisor	Completed
		4.	<b>Zavia</b>			
3.		<b>Nisar Ahmad</b>	Studies on Ni impregnated ZnO catalyst for the removal of malachite green from aqueous solutions	Supervisor	Completed	
2.	<b>Hanzala</b>					
2013-2015	1.	<b>Saddam Hussain</b>	Detailed studies on thermal and catalytic pyrolysis of polystyrene – A Review	Supervisor	Completed	
<b>BS</b>	2017-2021	18.	<b>Muzammil Shah</b>	Photocatalytic Degradation of Malachite Green, Methyl Violet-2B and Auramine-O in a UV-C/5% Ni/ZnO Suspension System: Application of Response Surface Methodology	Supervisor	Completed
		18.	<b>Nazle Gul</b>	Optimization of Photo Degradation of 2 & 4 Nitro Phenols in a Visible light Cu-ZnO Catalyst Suspension System: Application of Response Surface Methodology (RSM)	Supervisor	Completed
		17.	<b>Sara Begum</b>	Investigation of Catalytic Degradation of Municipal Waste Expanded Polystyrene using Cu, CuO and CuCl <sub>2</sub> Catalysts	Supervisor	Completed
		16.	<b>Huzaifa Ahmad</b>	To be Updated	Co-Supervisor	Completed
		15.	<b>Syed Zakir Ullah</b>	To be Updated	Co-Supervisor	Completed
		14.	<b>Wajid Ali Shah</b>	To be Updated	Co-Supervisor	Completed
		13.	<b>Farooq Shah</b>	To be Updated	Co-Supervisor	Completed
	2016-2020	12.	<b>Maaz Khan</b>	A study on the removal of congo red dye from waste water by poly acrylamide hydrogel	Co-Supervisor	Completed
		11.	<b>Amir Zeb</b>			

	10.	<b>Abdul Majeed</b>	A study on the removal of crystal violet dye from waste water by poly acrylamide-co-acrylic acid hydrogel	<b>Co-Supervisor</b>	<b>Completed</b>
	9.	<b>Abdullah Khan</b>			
	8.	<b>Gul Ranga</b>	Effect of Fenton Reagent on the Photocatalytic degradation of methylene blue from aqueous solution in the presence of Mn/Nb <sub>2</sub> O <sub>5</sub> catalyst	<b>Co-Supervisor</b>	<b>Completed</b>
	7.	<b>Ayesha Rahman</b>			
	6.	<b>Masoor Ali Khan</b>	Efficient degradation of industrial dyes (methylene violet & auramin-O) using Ni/ZnO supported photocatalyst	<b>Co-Supervisor</b>	<b>Completed</b>
	5.	<b>Saeedullah</b>			
	4.	<b>Attaur Rehman</b>	Removal of metanil yellow from aqueous solution using carbonized pistachio shell magnetic nanoparticles	<b>Supervisor</b>	<b>Completed</b>
	3.	<b>Fahad Ijaz</b>			
	2.	<b>Abdul Basit</b>	Studies on Fe/Al <sub>2</sub> O <sub>3</sub> catalyst for the decomposition of methylene blue in aqueous solution	<b>Supervisor</b>	<b>Completed</b>
1.	<b>Sher Jan</b>				

### TRAVEL HISTORY

<b>1.</b>	<b>Country of Visit</b>	<b>USA</b>
	<b>Purpose of Visit:</b>	<i>Excellence in Research &amp; Exposure</i>
	<b>Address:</b>	<i>The Earth and Environmental Engineering, Columbia University, In the City of New York, NY, USA.</i>
	<b>Duration of Visit:</b>	<b>22-10-2013 to 22-04-2014 (6 months)</b>

### RESPONSIBILITIES

- Program Coordinator (BS, MSc & MPhil), ICS, UoS
- Coordinator BS program, ICS, UoS
- Member graduate studies committee, ICS, UoS
- Member board of studies, ICS, UoS
- Member purchase committee of ICS, UoS
- Member admissions committee, ICS, UoS
- Member curriculum development of ICS, UoS
- Member departmental semester committee of ICS, UoS

### CONFERENCES/SYMPOSIUM PAPERS

S.No.	Subject	Details
32.		<b>NCE in PC 3-09-2021</b>
31.		<b>Bot, UoS 28 August 21</b>
30.		<b>Bot, UoS June 21</b>
29.	<b>Title of the event</b>	<b>How to Win NRPJ Project of HEC Pakistan</b>
	Invited for	<b>CHIEF ORGANIZER</b>
	Nature of event	<b>Webinar</b>
	Date	<b>April 16, 2021</b>
	Venue & organized by	Online by Institute of Chemical Sciences, University of Swat, Swat, Pakistan
	Sponsoring agency	University of Swat, Swat, Pakistan
28.	<b>Title of the event</b>	<b>Self-Assessment Report Writing</b>
	Invited for	<b>Participant</b>
	Nature of event	<b>Online Seminar</b>
	Date	<b>April 08, 2021</b>
	Venue & organized by	Quality Enhancement Cell, University of Swat
	Sponsoring agency	-do-

27.	<b>Title of the event</b>	<b>International Industrial Chemistry Conferences 2021 (IICC-2021)</b>
	Invited for	<b>Oral Presentation</b>
	Nature of event	<b>International Conference</b>
	Date	<b>February 26-28, 2021</b>
	Venue & organized by	Online by Department of Chemistry, NED University of Engineering and Technology, Karachi, Pakistan.
	Sponsoring agency	Dewan Sugar Mills Ltd., HEC Pakistan, PASTIC, Indigo & Fanara Scientific
26.	<b>Title of the event</b>	<b>International Webinar on Air Pollution, Climate Change and Their Impact on Mountain Water Resources</b>
	Invited for	<b>Participant</b>
	Nature of event	<b>International Webinar</b>
	Date	<b>January 26, 2021</b>
	Venue & organized by	Online by Department of Environmental Sciences, COMSAT University Islamabad (CUI), Abbottabad Campus
	Sponsoring agency	-do-
25.	<b>Title of the event</b>	<b>3<sup>rd</sup> International Conference on Chemistry (ICC) Virtual (Innovative Challenges in the Field of Molecular &amp; Chemical Sciences)</b>
	Invited for/as	<b>Oral Presentation</b>
	Nature of event	<b>International Conference</b>
	Date	<b>September 21-22, 2020</b>
	Venue & organized by	Online by Department of Chemistry, Lahore Garrison University, Lahore, Pakistan.
	Sponsoring agency	-do-
24.	<b>Title of the event</b>	<b>National Conference on Chemistry (Chemistry for Growth and Sustainability)</b>
	Invited for/as	<b>Oral Presentation</b>
	Nature of event	<b>National Conference</b>
	Date	<b>September 16-18, 2020</b>
	Venue & organized by	Online by Department of Chemistry, Islamia College, Peshawar, Khyber Pakhtunkhwa, Pakistan.
	Sponsoring agency	Islamia College, Peshawar & HEC, Pakistan
23.	<b>Title of the event</b>	<b>Corona Virus Infection: Awareness Seminar on Prevention and Control</b>
	Invited for/as	<b>Participant</b>
	Nature of event	<b>Seminar</b>
	Date	<b>March 3, 2020</b>
	Venue & organized by	Hotel Swat Regency, Center for Biotechnology and Microbiology, University of Swat
	Sponsoring agency	University of Swat
22.	<b>Title of the event</b>	<b>30<sup>th</sup> National &amp; 18<sup>th</sup> International Chemistry Conference on Recent Trends in Chemistry</b>
	Invited for/as	<b>Participant</b>
	Nature of event	<b>International Conference</b>
	Date	<b>November 27-29, 2019</b>
	Venue & organized by	University of Management and Technology, Lahore, Punjab, Pakistan.
	Sponsoring agency	Pakistan Chemical Society & Department of Chemistry University of Management and Technology, Lahore
21.	<b>Title of the event</b>	<b>Advanced Separation Techniques in Analytical Chemistry</b>
	Invited for/as	<b>CHIEF ORGANIZER</b>
	Nature of event	<b>Seminar</b>
	Date	<b>November 8, 2019</b>
	Venue & organized by	PTCL Hall, Sector C, Institute of Chemical Sciences, University of Swat
	Sponsoring agency	University of Swat
20.	<b>Title of the event</b>	<b>Patenting Quality Research Work</b>
	Invited for/as	<b>Participant</b>
	Nature of event	<b>Seminar</b>
	Date	<b>October 22, 2019</b>



Venue & organized by	University of Kotli Azad Jammu Kashmir, Office of Research Innovation and Commercialization
Sponsoring agency	-do-
<b>19. Title of the event</b>	<b>DICE AUST 2019 (Expo)</b>
Invited for/as	<b>Participant</b>
Nature of event	<b>Expo-Seminar</b>
Date	<b>October 11-12, 2019</b>
Venue & organized by	Abbottabad University of Science and Technology, Abbottabad
Sponsoring agency	DICE, Abbottabad University of Science and Technology, Abbottabad
<b>18. Title of the event</b>	<b>Quality Research Publication &amp; Research Proposal</b>
Invited for/as	<b>Participant</b>
Nature of event	<b>Workshop</b>
Date	<b>September 25-26, 2019</b>
Venue & organized by	University of Kotli Azad Jammu Kashmir, Office of Research Innovation and Commercialization
Sponsoring agency	-do-
<b>17. Title of the event</b>	<b>Amphibian &amp; Reptiles</b>
Invited for/as	<b>Participant</b>
Nature of event	<b>Seminar</b>
Date	<b>September 19, 2019</b>
Venue & organized by	Society for the Promotion of Science & Information Technology, University of Swat, PTCL Hall, Sector D, Kanju Township, Swat.
Sponsoring agency	University of Swat
<b>16. Title of the event</b>	<b>Nanomaterials: New Trends in Development and Application</b>
Invited for/as	<b>Participant</b>
Nature of event	<b>Conference</b>
Date	<b>January 29-31, 2019</b>
Venue & organized by	Forman Christian College University Conference, Lahore, Punjab, Pakistan.
Sponsoring agency	Department of Chemistry and Department of Pharmacy, Forman Christian College University
<b>15. Title of the event</b>	<b>Organic Contaminants &amp; Their Remedies - Studies on Advanced Materials</b>
Invited for/as	<b>CO-ORGANIZER / Invited Speaker</b>
Nature of event	<b>Seminar</b>
Date	<b>December 2, 2018</b>
Venue & organized by	PTCL Hall, Sector C, Institute of Chemical Sciences, University of Swat
Sponsoring agency	University of Swat
<b>14. Title of the event</b>	<b>Possible Ways to Keep the Environment Clean &amp; Green (Clean and Green Pakistan)</b>
Invited for/as	<b>Invited Speaker</b>
Nature of event	<b>Seminar</b>
Date	<b>December 21, 2018</b>
Venue & organized by	PTCL Hall, Sector C, Institute of Agricultural Sciences & Forestry, University of Swat
Sponsoring agency	University of Swat
<b>13. Title of the event</b>	<b>Possible Remedial Measures Against Environmental Degradation,</b>
Invited for/as	<b>Invited Speaker</b>
Nature of event	<b>Seminar</b>
Date	<b>December 18, 2018</b>
Venue & organized by	Govt. Afzal Khan Lala Degree College, Matta, Swat, Khyber Pakhtunkhwa, Pakistan
Sponsoring agency	Pak Army, Swat
<b>12. Title of the event</b>	<b>Quantitative Research Methods and Applications</b>
Invited for/as	<b>Participation</b>
Nature of event	<b>Workshop</b>
Date	<b>June 27, 2018</b>
Venue & organized by	Fizagat, Swat
Sponsoring agency	University of Bunir

11.	<b>Title of the paper</b>	<b>27<sup>th</sup> National and 15<sup>th</sup> International Chemistry Conference</b>
	Invited for/as	<b>Oral Presentation</b>
	Title of presentation	<i>Catalytic Degradation of Municipal Waste Expanded Polystyrene using Cu, CuO and CuCl<sub>2</sub> Catalysts</i>
	Nature of event	<b>International Conference</b>
	Date	<b>August 22-25, 2016</b>
	Venue & organized by	Department of Chemistry, University of Malakand, Dir Lower, Khyber Pakhtunkhwa, Pakistan
	Sponsoring agency	The Chemical Society of Pakistan
10.	<b>Title of the paper</b>	Second International Conference on Energy and Environment
	Invited for/as	<b>Oral Presentation</b>
	Title of presentation	<i>Catalytic Degradation of Municipal Waste Expanded Polystyrene using Cu, CuO and CuCl<sub>2</sub> Catalysts</i>
	Nature of event	<b>International Conference</b>
	Date	<b>April 12-14, 2016</b>
	Venue & organized by	Department of Physics, Allama Iqbal Open University, Islamabad, Pakistan
	Sponsoring agency	Department of Physics
09.	<b>Title of the workshop</b>	<b>Writing Effective Post-Doctoral Research Proposal Relevant to National Needs</b>
	Invited for/as	<b>Participation</b>
	Nature of event	<b>HEC-Post Doctoral Fellowship Program</b>
	Date	<b>December 17, 2015</b>
	Venue & organized by	Convocation Hall, University of Malakand, Chakdara, Dir Lower, Khyber Pakhtunkhwa, Pakistan
	Sponsoring agency	Higher Education Commission of Pakistan
08.	<b>Title of the paper</b>	<b>25 National &amp; 13 International Chemistry Conference</b>
	Invited for/as	<b>Oral Presentation</b>
	Title of presentation	<i>Effect of polyethylene terephthalate on the catalytic pyrolysis of polystyrene: Investigation of the liquid products</i>
	Nature of event	<b>International Conference</b>
	Date	<b>October 20-22, 2014</b>
	Venue & organized by	Institute of Chemistry, University of the Punjab, Quid-i-Azam Campus, Lahore 54590, The Punjab, Pakistan.
	Sponsoring agency	The Chemical Society of Pakistan
07.	<b>Title of the paper</b>	<b>RCN-CCUS workshop and annual meeting</b>
	Invited for/as	<b>Poster Presentation</b>
	Title of presentation	<i>Effect of polyethylene terephthalate on the catalytic pyrolysis of polystyrene: Investigation of the liquid products</i>
	Nature of event	<b>International Workshop &amp; Meeting (Conference)</b>
	Date	<b>March 9, 2014</b>
	Venue & organized by	CEPSR Building, Columbia University, 500 West, 120th Street, New York 10027, NY, USA.
	Sponsoring agency	Lanfest Centre of Sustainable Energy, Earth and Environmental Engineering, Columbia University, SW Mudd, 500 West, 120th Street, New York 10027, NY, USA.
06.	<b>Title of the paper</b>	11 <sup>th</sup> International and 23 <sup>rd</sup> National Chemistry Conference
	Invited for/as	<b>Oral Presentation</b>
	Title of presentation	<i>Degradation of Polystyrene with Magnesium Impregnated on Alumina and Charcoal for the Recovery of Selected Hydrocarbons</i>
	Nature of event	<b>International Conference</b>
	Date	<b>October 15-17, 2012</b>
	Venue & organized by	National Center of Excellence in Physical Chemistry, University of Peshawar, Khyber Pakhtunkhwa, Peshawar.
	Sponsoring agency	The Chemical Society of Pakistan & USDA

05.	<b>Title of the paper</b>	2nd Symposium on Recent Trends in Indigenous Chemical Research and Awareness on Data Presentation Skills
	Invited for/as	<b>Oral Presentation</b>
	Title of presentation	<i>Waste Expanded Polystyrene into Selected Valuable Products Through Catalytic Degradation</i>
	Nature of event	<b>Symposium</b>
	Date	<b>July 1-5, 2012</b>
	Venue & organized by	Baragali Summer Campus, Institute of Chemical Sciences, University of Peshawar, Baragali, Abbottabad.
	Sponsoring agency	University of Peshawar & Higher Education Commission of Pakistan.
04.	<b>Title of the paper</b>	3 <sup>rd</sup> Spring Research Poster Symposium-2012
	Invited for/as	<b>Poster Presentation</b>
	Title of presentation	<i>Catalytic Degradation of Polystyrene into Value Added Products</i>
	Nature of event	<b>Research Poster Symposium</b>
	Date	<b>March 7, 2012</b>
	Venue & organized by	Institute of Chemical Sciences, University of Peshawar
	Sponsoring agency	Institute of Chemical Sciences, University of Peshawar
03.	<b>Title of the paper</b>	National Centre of Excellence in Physical Chemistry One Day Research Poster Symposium
	Invited for/as	<b>Poster Presentation</b>
	Title of presentation	<i>Catalytic Degradation of Polystyrene into Value Added Products</i>
	Nature of event	<b>Research Poster Symposium</b>
	Date	<b>December 22, 2011</b>
	Venue & organized by	National Center of Excellence in Physical Chemistry, University of Peshawar, Peshawar
	Sponsoring agency	-do-
02.	<b>Title of the paper</b>	10 <sup>th</sup> International & 22 <sup>nd</sup> National Chemistry Conference
	Invited for/as	<b>Poster Presentation</b>
	Title of presentation	<i>Catalytic Degradation of Polystyrene into Value Added Products</i>
	Nature of event	<b>International Conference</b>
	Date	<b>November 21-23, 2011</b>
	Venue & organized by	Agricultural University, Faisalabad
	Sponsoring agency	The Chemical Society of Pakistan & USDA
01.	<b>Title of the paper</b>	2 <sup>st</sup> Spring Research Poster Symposium-2011
	Invited for/as	<b>Poster Presentation</b>
	Title of presentation	<i>Conversion of Waste Polystyrene into Value Added Products using Catalytic Degradation</i>
	Nature of event	<b>Research Poster Symposium</b>
	Date	<b>March 9, 2011</b>
	Venue & organized by	Lawn of Institute of Chemical Sciences, University of Peshawar, Peshawar, Khyber Pakhtunkhwa, Pakistan.
	Sponsoring agency	Institute of Chemical Sciences, University of Peshawar

### **AS REVIEWER in International Journals**

S.No.	Journal	Research Paper Title	Reference	Review Date
23.	Journal of Taiwan Institute of Chemicals Engineer	Photoexcited Na <sub>2</sub> eosin Y as direct hydrogen atom transfer (HAT) photocatalyst promoted photochemical metal-free synthesis of tetrahydrobenzo[b]pyran scaffolds via visible light-mediated under air atmosphere	JTICE-D-21-00884	26-07-2021
22.	The Chemical Society of Ethiopia	Biosorption of Ni (II) ions from Aqueous Solutions using Melia Azedarach Biomass	EN-3655	03-06-2021

21.	Journal of Taiwan Institute of Chemical Engineers	Highly efficient antibacterial photothermal material in interfacial solar steam generation	JTICE-D-21-00375R1	13 May 2021
20.	Journal of Taiwan Institute of Chemical Engineers	Nanomaterials Effect on Human and Environment and its Safe Disposal: A Review	JTICE-D-21-00449	08-04-2021
19.	Polymer Science Peer Review Journal of Crimson Publishers 3	Quantitative Estimation Of Filler-Filler Interaction Of Rubber Vulcanizates Using Dynamic Mechanical Analyzer	PSPRJ-21-RA-548	23-03-2021
18.	Journal of Taiwan Institute of Chemical Engineers	Highly efficient and antibacterial photothermal material in interfacial solar steam generation	JTICE-D-21-00375	23-03-2021
17.	Polymer Science Peer Review Journal of Crimson Publishers 2	Foaming and impregnation of polymers with quercetin using supercritical CO <sub>2</sub>	PSPRJ-21-RW-546	19-03-2021
16.	Polymer Science Peer Review Journal of Crimson Publishers 1	Adsorption with nanoclay: Kinetics and isotherm studies	PSPRJ-21-RA-539	01-03-2021
15.	The Chemical Society of Ethiopia	Green Synthesis of Silver Nanoclusters via Melia Azedarach Plant and Their Potential towards Catalytic Reduction of 4-Nitrophenol	PH-3623	01-03-2021
14.	Waste Management Journals	Plastic Bag Ban in Pakistan: An Analysis of Citizens' Support and Ban Effectiveness	WM-20-2954R1	23-01-2021
13.	Waste Management Journals	Plastic-bags Ban in Pakistan: An Analysis of Citizens' Support and Ban Effectiveness	WM-20-2954	30-11-2020
12.	Chemical Engineering Communication	Preparation of Innovative Adsorbent with Green Solvents Modification for CO <sub>2</sub> Capture: Breakthrough Study and Optimization Process Condition	GCEC-2020-0364	20-09-2020
11.	The Canadian Journal of Chemical Engineering	The Effect of Torrefaction on the Thermo-Kinetics of Thermally Processed Fuel	CJCE-20-0256.R2	07-06-2020
10.	The Canadian Journal of Chemical Engineering	The Effect of Torrefaction on the Thermo-Kinetics of Thermally Processed Fuel	CJCE-20-0256-R1	06-06-2020
9.	International Journal of Pavement Research and Technology	Analysis of the influence of using waste polystyrene in virgin bitumen	JPRT-D-20-00125	28-05-2020
8.	The Canadian Journal of Chemical Engineering	The Effect of Torrefaction on the Thermo-Kinetics of Thermally Processed Fuel	CJCE-20-0256	27-05-2020
7.	The Japan Society for Analytical Chemistry	Investigation of a New Spectrophotometric Method for the Analysis of Ciprofloxacin Based on Microwave Assisted Diazotization	19P139	25-04-2019
6.	Process Safety and Environmental Protection	Thermal Pyrolysis of High-Density Polyethylene (HDPE) In A Novel Fixed Bed Reactor System for The Production of High Value Gasoline Range Hydrocarbons (HC)	PSEP-2019-306	01-03-2019

5.	Chemical Engineering Communications	Use of activated carbon obtained from sugar cane straw for PAH adsorption from aqueous solution - a comparative study with commercial materials	GCEC-2017-0588	23-01-2018
4.	Process Safety and Environmental Protection	Production and use of carbon nanotubes, co-produced with hydrogen from the pyrolysis-catalytic reforming of waste plastic	PSEP-D-15-00657	09-03-2016
3.	Journal of Analytical and Applied Pyrolysis	Catalytic Activity of Synthesized Mesoporous Si-MCM-41 and Si-MCM-48 on Waste Tire Pyrolysis Products: Effect of Pore Structure	JAAP-2016-25	3-3-2016
2.	International Journal of Energy Research	Preparation of Liquid and Gas Fuel by Co-Pyrolysis of Makarwal Coal and Waste Polypropylene Through a Hybrid Heating System of Convection and Microwaves	ER-15-5362	January 01, 2016
1.	Chemical Engineering Communications	A Procedure for the Development of a low-cost treatment technology of raw biogas for application in a gas engine. A case of sizing a carbon dioxide removal unit.	GCEC-2015-0109	May 4, 2015

### AS REVIEWER for Evaluation of M.Phil. Thesis

S.No.	Scholar Name	Thesis Title	Reference No with Date	Department & Institute	Review reference and date
15.	Ms. Safia Jabeen	Photocatalytic Degradation of Organic Pollutants using Magnatized Cobalt Metal Organic Framework in Aqueous Systems	Email 12-08-2021	Institute of Chemical Sciences, University of Peshawar	<a href="#">UoS/ICS/M/15280821</a> 28-08-2021
14.	Ms. Saba Gul	Potent Bactericidal Activity of Biosynthesized Metal Nanocomposites from Glomus Intraradices through Membrane Damaging Mechanism	5(1)/BKUC/ASRB/2021/8247 15-06-2021	Department of Chemistry, Bacha Khan University	<a href="#">UoS/ICS/M/14060721</a> 06-07-2021
13.	Mr. Zuber Shah	Synthesis and Applications of Molecularly Imprinted Polymer for Removal of Acid Black 1	UOM/Sex/M.Phil/3,871/41016 21-04-2021	Department of Chemistry, University of Malakand	<a href="#">UoS/ICS/M/13110621</a> 11-06-2021
12.	Ms. Tahira Saleem	Kinetics Study of Catalytic Oxidative Degradation of Neutral Red Dye	03885/Sc May 17, 2021	Department of Chemistry, University of Karachi	<a href="#">UoS/ICS/M/12030621</a> 03-06-2021
11.	Mr. Zia Ur Rahman	Synthesis, spectral and biological studies of mixed	Email 24-11-2020	Department of Chemistry, Abdul Wali	<a href="#">UoS/ICS/M/11071220</a> 07-12-2020

		ligand metals complexes		Khan University	
10.	Ms. Irum	Determination of Cefixime in Pharmaceutical Preparations and Biological Samples through Fluorescence Quenching of Eosin-Y	5(1)/BKUC/DA&A/2020 09-09-2020	Department of Chemistry, Bacha Khan University	<u>UoS/ICS/M/09180920</u> <u>18-09-2020</u>
9.	Ms. Amina	Development of Advanced Extraction Method for the Preconcentration of Heavy Metals in Branded Formula Milk Powder	Deanofc&ls/AWKUM/2019 24-09-2019	Department of Chemistry, Bacha Khan University	<u>UoS/ICS/M/09141019</u> <u>16-10-2019</u>
8.	Ms. Nusrat Bibi	Development of Validated Spectrophotometric Method for the Determination of Norfloxacin in Bulk, Pharmaceutical Preparation and Biological Samples	5(1)/BKUC/DAA/2019 01-03-2019	Department of Chemistry, Bacha Khan University	<u>UoS/ICS/M/2019/08080319</u> <u>08-03-2019</u>
7.	Mr. Nasir Khan	Fast pyrolysis of cellulosic waste banana peels, product yield and compositional analysis	Email <u>03-04-2018</u>	Institute of Chemical Sciences, University of Peshawar	Email 04-03-2018
6.	Mr. Mansoor Ahmad	Solid phase extraction methods of lead, copper, cobalt and nickel using magnetic nanomaterials	208/DAS 03-01-2018	Institute of Chemical Sciences, University of Peshawar	UOS/ICS/2018/_____ 16/01/2018
5.	Mr. Sana Ullah	Catalytic Co-Pyrolysis of Used Lubricating Oil & Waste Rubber for Resource Recovery	5(1)/BKUC/DAA/2017/745 Oct 16, 2017	Department of Chemistry, Bacha Khan University	To be updated
4.	Mr. Abid Jan	Development of Spectrophotometric Methods for Quantification of Cephalosporin in Bulk	-----	Department of Chemistry, Bacha Khan University	ICS/UOS/253 December 19, 2016
3.	Mr. Muhammad Zada	Tertiary recycling of expanded waste polystyrene into valuable hydrocarbons	-----	Institute of Chemical Sciences, University of Peshawar	August 26, 2016
2.	Ms. Sidra Shoor Kiani	The Effect of Nanoclay on Physical Properties of Carrageenan and Polyethylene Glycol Blends	15/PE/Exams 15-02-2016	Department of Chemistry, Hazara University	UOS/ICS/091 27-02-2016
1.	Mr. Zia ur Rehman,	Synthesis and Characterisation of Water Soluble Polymer Nanocomposites	___/PE/Exams, 2-2-2016	Department of Chemistry, Hazara University	UOS/ICS/082 18-02-2016

		Based on Polyethylene Glycol, Polyvinyl Pyrrolidone and Sepiolite Clay			
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