Dr. Amir Sada Khan

Post doctorate: American University Sharjah, UAE (2024)

Post doctorate: American University Sharjah, UAE (2021)

PhD: University Teknologi PETRONAS, Malaysia (2017)

Associate Professor

Department of Chemistry,

University of Science and Technology Bannu, KPK, Pakistan.

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Personal Profile

Name:	Amir Sada Khan
Date of birth:	02/02/1983
Nationality:	Pakistani
Religion:	Islam
Material Status:	Married

Academic Qualification

Ph.D	2017	Universiti Teknologi PETRONAS (UTP), Malaysia
M.Phil (Chemistry)	2012	University of Science & Technology Bannu, KP, Pakistan
M.Sc (Chemistry)	2005	Gomal University, DI Khan, KP, Pakistan
B.Sc	2003	Gomal University, DI Khan, KP, Pakistan

PhD Thesis Title

Synthesis and charachterization of new acidic ionic liquids for catalytic conversion of lignocellulosic biomass to levulinic acid

Research Interest

1. Synthesis of hydrophobic ionic liquids for wastawter treatment
2. Synthesis and chrachterization of hydrophbic deep eutactic solvents for wastwater treatment
3. Conversiom of biomass to chemicals and biodisel using ionic liquids
4. Syntheis of composite material for wastwater treatment

Career Summary Total Experience: 17.8 years

Faculty in Physical Chemistry

Department: Department of Biology, Chemistry and Environmental Sciences, American University of Sharjah, Sharjah P.O. Box 26666, United Arab Emirates

Duration: Spring semester Jan 2024

Associate Professor

Department: Department of Chemistry University of Science & Technology, Bannu, Pakistan

Duration: Oct 2021, up to Date

Postdoctoral Research Associate

Institution: Department of Chemical Engineering**,** American University of Sharjah, UEA

Duration: Feb 2020-Jun 2021

Research Associate

Institution: Department of Chemical Engineering**,** American University of Sharjah, UEA

Duration: May 2023-1 April 2024

Lecturer

Department: Department of Chemistry University of Science & Technology, Bannu, Pakistan

Duration: Dec 2007 to Oct 2021

Graduate Assistantship (GA)

Institution: Department of Chemical Engineering, Universiti Teknologi PETRONAS, Malaysia

Duration:

(a) **1st Feb 2016- 31st July 2016:** Graduate Research Assistance (GRA) for petroleum research fund (PRF) project entitled Ionic Liquids Programme at Universiti Teknologi PETRONAS

(b) **1st Aug 2016- 31st Oct 2016:** Graduate Research Assistance (GRA) for petroleum research fund (PRF) project entitled Ionic Liquids Programme at Universiti Teknologi PETRONAS

(c) **1st Nov 2016- 30 Jan 2017:** provide special services for FRGS project entitled conversion of biomass to chemicals using acidic ionic liquids at Universiti Teknologi PETRONAS

(d) **Jun 2017-Aug 2017:** Graduate Research Assistance (GRA) for FRGS project entitled Ionic Liquids Programme at Universiti Teknologi PETRONAS

Role as research officer:

- ✓ Researches issues to assist with development of policy and makes recommendations as appropriate.
- ✓ Graduate Assistantship (GA) at Role as Graduate Assistantship: Teaching of physical chemistry tutorials, laboratory demonstration to the undergraduate student of Chemical Engineering, Universiti Teknologi PETRONAS
- ✓ Develops and writes research papers, milestone reports and quarterly reports for biomass conversion to chemicals using ionic liquids.

Graduate Research Assistantship

Teaching Assistant for Physical Undergraduate Course

Institution: Chemical Engineering, Universiti Teknologi PETRONAS, Malaysia
Teaching assistant (Tutor & Lab Demonstrator) for CCB 1023 Physical Chemistry,

Duration: Feb 2013- July 2017 (4 year and 4 months)

Teaching Experience

I have taught the following courses

Course Title	Class level	University
Physical chemistry-II	BS chemistry	Department of Biology, Chemistry and Environmental Sciences, American University of Sharjah, Sharjah
Physical Chemistry-1	BS/MSc Chemistry	University of Science & Technology, Bannu
Physical Chemistry-2		
Thermodynamic of Solution		
Photochemistry		
Radio-Nuclear Chemistry		
Molecular Spectroscopy		
Statistical Thermodynamics		

Polymer Chemistry		
Physical Chemistry CDB1023	BS Chemical Engineering	Universiti Teknologi PETRONAS, Malaysia
Chem-761 Photochemistry	M.Phil/PhD Chemistry	University of Science & Technology, Bannu
Chem-762 Advanced Physical Chemistry		
Chem-763 Special Topics in Physical Chemistry		
Chem-764 Adv. Surface and Colloidal Chemistry		
Chem-761 Photochemistry		
Chem-762 Advanced Physical Chemistry		
Chem-763 Special Topics in Physical Chemistry		
Chem-764 Adv. Surface and Colloidal Chemistry		
Chem-765 Advanced Composite Materials		
Chem- 766 Statistical Thermodynamic and Mechanics		
Chem- 767 Colloids and Surfactants		

Training Received

Name Of Institution	Country	Duration		Title Of Course
		From	To	
NCEPEC, University of Peshawar	Pakistan	7 May	16 May 2006	Refresher course in physical chemistry for college teachers
NCEPEC, University of Peshawar	Pakistan	27 March	29 March 2012	Computer resources for molecular modelling
Universiti Teknologi PETRONAS	Malaysia	24 June	26 June 2013	SNB5032 research methodology
Universiti Teknologi PETRONAS	Malaysia	9 April	10 April 2014	A short course on ionic liquid synthesis
Universiti Teknologi PETRONAS	Malaysia	26 June 2014	---	Thesis writing and beyond…make it easy
Universiti Teknologi PETRONAS	Malaysia	5 Nov 2014	----	Chromatography technologies and application seminar
Centre for biofuel & biochemical	Malaysia	4 Sep	5 Sep	Biomass to fuels and

research (CBBR),Univrsiti Teknologi PETRONAS			2014	chemicals
Universiti Teknologi PETRONAS	Malaysia	26 Feb 2015	-----	A short course on master the art of journal publication- a versatile approach
Universiti Teknologi PETRONAS	Malaysia	16 Nov 2015	----	Short course on catalytic conversion for biomass
Universiti Teknologi PETRONAS	Malaysia	18 March 2016	-----	Quality thesis writing- concept to reality
Universiti Teknologi PETRONAS	Malaysia	3 Aug	4 Aug 2016	37th edition of science and engineering design exhibition (SEDEX 37)
Universiti Teknologi PETRONAS	Malaysia	15 Aug	20 Aug 2018	2nd UTP-Pakistani Universities Research Collaboration Workshop

Conference Presentations (Papers / Posters)

Name of Institution	**Country**	**Duration**		**Title**
		From	To	
Universiti Teknologi PETRONAS	Malaysia	3 June	5 June 2014	World Engineering, Science & Technology Congress (ESTCON 2014)
Universiti Teknologi PETRONAS	Malaysia	15th Aug	17 Aug 2016	World Engineering, Science & Technology Congress (ESTCON 2016)

Seminars Presenter/Keynote speaker

NAME OF INSTITUTION	**COUNTRY**	**DURATION**		**TITLE**
		From	To	
International Centre for Research in Ionic Liquids (CRIL),	Pakistan	10 March 2020		Conference on Ionic Liquids for Sustainable Future

School of Chemistry, University of the Punjab, Lahore, Pakistan.				
NCEPEC, University of Peshawar	Pakistan	14 Dec 2017		Ionic liquids as a sustainable catalyst for conversion of lignocellulosic biomass to levulinic acid
NCEPEC, University of Peshawar	Pakistan	4 Oct 208		Ionic liquids based conversion of biomass to various chemicals
University of Science & Technology, Bannu	Pakistan	19 Dec	20 Dec 2018	Ist National workshop on computational chemistry & drug designing 2018
University of Science & Technology, Bannu	Pakistan	18 Dec 2018		One day workshop on writing MS/M.Phil and PhD research proposal

Awards / Recognition & Distinctions

1. Obtained overall 3rd position in MSc chemistry & 2nd position in Physical chemistry discipline
2. Best poster presenter award in Two Days Scientific Poster Exhibition 18-19th April 2019 held in National Centre of Physical Chemistry, University of Peshawar, KPK, Pakistan.

Countries Visited

Country	**Duration**		**Private / Official**	**Purpose**
	From	To		
Malaysia	Feb 2013	Oct 2017	Official	To pursue PhD study
United Arab Emirates	Feb 2020	May 2021	Official	To pursue Postdoc
United Arab Emirates	May 2023	May 2024	Official	To pursue Postdoc

National/International projects

Principle investigator

Project title:	Hydrophobic deep eutectic solvents for the efficient removal of phenolic compounds from wastewater
Total cost (PKR):	Rs: 5320000
Funding Source:	Higher Education commission Pakistan under National Research Program for Universities.

Co-PI

Project title:	Development of sustainable adsorbents for efficient removal of aquatic pollutions
Total cost	Rs. 4080000
Funding Source	King Abdul-Aziz University, Saudi Arabia.

PATENT

List of Publication **(Impact factor = 455, h-index= 37)**

2025

1. H. Khan, S. Ullah, **Amir Sada Khan**, A. Nasrullah, A. Rehaman, P. Khan, et al., "Amine-based deep eutectic solvents for the extraction of Eriochrome Black T from aqueous media: experimental density functional theory studies." Journal of Molecular Liquids, p. 128496, 2025/09/05/ 2025.
2. Ullah, Nasim, Zarshad Ali, **Amir Sada Khan**, Bushra Adalat, Asma Nasrullah, and Ruqyyia Shaheen. "Fabrication of activated carbon, polyvinyl alcohol–based alginate composite beads for the removal of methylene blue." Biomass Conversion and Biorefinery (2025): 1-10. **IF = 3.5.**
3. Akbar, Noor, Amir Sada Khan, Ruqaiyyah Siddiqui, Taleb Hassan Ibrahim, Mustafa I. Khamis, Bader S. Alawfi, Bassam M. Al-Ahmadi, and Naveed Ahmed Khan. "Phosphonium chloride–based deep eutectic solvents inhibit pathogenic Acanthamoeba castellanii belonging to the T4 genotype." Folia Microbiologica 70, no. 1 (2025): 101-113. **IF = 2.6.**
4. Ullah, Nasim, Zarshad Ali, Urooj Kamran, Amir Sada khan, Mushtaq Ahmad Ansari, Bushra Adalat, and Asma Nasrallah. "Methylene blue adsorption using boric acid functionalized activated carbon: kinetics, isothermal, and thermodynamic studies." Chemical Engineering & Technology 48, no. 1 (2025): e202400016. **IF = 4.1.**
5. **Amir Sada Khan**, Taleb Hassan Ibrahim, Mustafa I. Khamis, Maguy Abi Jaoude, and Asma Nasrullah. "Hydrophobic deep eutectic solvent-impregnated sponge for efficient phenol adsorption from aqueous media." Journal of Molecular Liquids (2025): 126934. **IF = 6.3.**

2024

6. Ullah, Zahoor, Mohamad Azmi Bustam, Mohib Ullah, **Amir Sada Khan**, Syed Nasir Shah, Mansoor Ul Hassan Shah, Pervaiz Ahmad, Muhammad Sohail, and Khalid Ali Khan. "Unveiling Biodiesel Production: Exploring Reaction Protocols, Catalysts, and Influential Factors." *ChemBioEng Reviews*: e202400028. **IF = 6.59.**
7. Akbar, Noor, **Amir Sada Khan**, Ruqaiyyah Siddiqui, Taleb Hassan Ibrahim, Mustafa I. Khamis, Bader S. Alawfi, Bassam M. Al-ahmadi, and Naveed Ahmed Khan. "Phosphonium chloride–based deep eutectic solvents inhibit pathogenic Acanthamoeba castellanii belonging to the T4 genotype." *Folia Microbiologica* (13/06/2024): 1-13, **IF = 2.6.**
8. Almas, Muzdalfa, **Amir Sada Khan**, Saadat Ullah, Asma Nasrullah, Palwasha Khan, Mazhar Amjad Gilani, and Sher Bahadar Khan. "Fast and efficient extraction of phenol from aqueous phase using deep

eutectic solvents: Experimental and density functional theory investigation for interactions studies." *Journal of Molecular Liquids* (2024): 124942, **IF = 6.**

9. Noureen, Sundas, Fatima Javed, Faheem Ullah, and Amir Sada Khan. "Removal of Cephalexin-Antibiotic from Drinking Water by Designing $CaCl_2$ Incorporated Chitosan Co-Tragacanth Gum Composite Hydrogel." *Journal of Health and Rehabilitation Research* 4, no. 1 (2024): 1442-1449.
10. Malik, Tabassum, Abdul Naeem, Andrew Peter Abbott, **Amir Sada Khan**, Tooba Saeed, Ihtisham Wali Khan, Muhammad Suleman Malik, and Muhammad Kamran Khan. "Ternary deep eutectic solvents for efficient denitrogenation of a model oil: thermodynamics, extraction efficiency, and recycling performance." ***Chemical Papers*** (2024): 1-12. **IF = 2.2**
11. Ullah, Nasim, Zarshad Ali, **Amir Sada Khan**, Bushra Adalat, Asma Nasrullah, and Sher Bahadar Khan. "Preparation and dye adsorption properties of activated carbon/clay/sodium alginate composite hydrogel membranes." ***RSC advances*** 14, no. 1 (2024): 211-221. **IF = 3.9**

2023

12. Khalid, Amina, Sana Zulfiqar, Noshabah Tabassum, **Amir Sada Khan**, Muhammad Amin Abid, Muhammad Saeed Akhtar, Fahad Al-Misned, Ahmed Muteb Aljuwayid, Sasan Zahmatkesh, and Saira Asif. "Biocompatible cellulose acetate supported ammonium based ionic liquid membranes; way forward to remediate water pollution." ***Chemosphere*** 322 (2023): 138151, **IF=8.943**
13. R. Shaheen, T. Yasin, Z. Ali, **Amir Sada Khan**, B. Adalat, M. Tahir, et al., "Synthesis, Characterization, and Adsorptive Characteristics of Radiation-Grafted Glycidyl Methacrylate Bamboo Fiber Composites," ***ACS Omega***, vol. 8, pp. 38849-38859, 2023. **IF=4.132**
14. Boushara, Reham Salah Hassan, Abdul Rahman Abdul Rahim, Khairiraihanna Johari, Nurul Ekmi Rabat, Amir Sada Khan, and Norasikin Saman. "Effect of various solvents on the structure of silica nanocapsules synthesised for anionic and cationic dyes adsorption from aqueous solution." ***Journal of Environmental Chemical Engineering***, (2023): 110981, **IF=7.7**
15. Almas, Muzdalfa, **Amir Sada Khan**, Asma Nasrullah, Israf Ud Din, Taghreed M. Fagieh, Esraa M. Bakhsh, Kalsoom Akhtar, Sher Bahadar Khan, Shahan Zeb Khan, and Abrar Inayat. "Substantial increase in adsorption efficiency of local clay-alginate beads toward methylene blue impregnated with SDS, ***Environmental Science and Pollution Research*** 30, (2023): 81433-81449, **IF=5.2**
16. Siddiqui, Ruqaiyyah, Zinb Makhlouf, Noor Akbar, Mustafa Khamis, Taleb Ibrahim, **Amir Sada Khan**, and Naveed Ahmed Khan. "Antiamoebic properties of Methyltrioctylammonium chloride based deep eutectic solvents." ***Contact Lens and Anterior Eye*** 46, no. 2 (2023): 101758, **IF= 3.2**

17. Akbar, Noor, Naveed Ahmed Khan, Taleb Ibrahim, Mustafa Khamis, **Amir Sada Khan**, Ahmad M. Alharbi, Hasan Alfahemi, and Ruqaiyyah Siddiqui. "Antimicrobial Activity of Novel Deep Eutectic Solvents." ***Scientia Pharmaceutica***, (2023): 9, **IF= 2.5**

18. **Amir Sada Khan**, Sakina, Asma Nasrullah, Saadat Ullah, Zahoor Ullah, Zahid Khan, Naveed Ahmed Khan, Shahan Zeb Khan, and Israf Ud Din. "An overview on phytotoxic perspective of ionic liquids and deep eutectic solvents: the role of chemical structure in the phytotoxicity." ***ChemBioEng Reviews*** (2023), **IF= 6.02**

19. Gul, Taza, Muhammad Mudasar Aslam, **Amir Sada Khan**, Tahir Iqbal, Faizan Ullah, Gaber E. Eldesoky, Ahmed Muteb Aljuwayid, and Muhammad Saeed Akhtar. "Phytotoxic responses of wheat to an imidazolium based ionic liquid in absence and presence of biochar." ***Chemosphere*** 322 (2023): 138080, **IF= 8.943**

2022

20. Ullah, Nasim, Zarshad Ali, Saadat Ullah, **Amir Sada Khan**, Bushra Adalat, Asma Nasrullah, Mustafa Alsaadi, and Zubair Ahmad. "Synthesis of activated carbon-surfactant modified montmorillonite clay-alginate composite membrane for methylene blue adsorption." ***Chemosphere*** 309 (2022): 136623, **IF= 8.943**

21. Ullah, Saadat, Zarshad Ali, **Amir Sada Khan**, Asma Nasrullah, Fatima Javed, Bushra Adalat, Naila Sher et al. "Hydrophobic ammonium based ionic liquids for efficient extraction of textile dyes from aqueous media: Extraction study and antibacterial evaluation." ***Chemosphere*** 321 (2023): 138008, **IF= 8.943**

22. Almas, Muzdalfa, **Amir Sada Khan**, Asma Nasrullah, Israf Ud Din, Taghreed M. Fagieh, Esraa M. Bakhsh, Kalsoom Akhtar, Sher Bahadar Khan, Shahan Zeb Khan, and Abrar Inayat. "Substantial increase in adsorption efficiency of local clay-alginate beads toward methylene blue impregnated with SDS." ***Environmental Science and Pollution Research*** 30, no. 34 (2023): 81433-81449, **IF= 5.1**

23. Hassan, Muhammad Faheem, **Amir Sada Khan**, Noor Akbar, Taleb Hassan Ibrahim, Mustafa I. Khamis, Fawwaz H. Jumean, Ruqaiyyah Siddiqui, Naveed Ahmed Khan, and Nihal Yasir. "Efficient extraction of methylene blue from aqueous solution using phosphine-based deep eutectic solvents with carboxylic acid." ***Processes*** 10, no. 10 (2022): 2152, **IF= 3.352**

24. Liaqat, Shehzad, **Amir Sada Khan**, Noor Akbar, Taleb H. Ibrahim, Mustafa I. Khamis, Paul Nancarrow, Ruqaiyyah Siddiqui, Naveed Ahmed Khan, and Mohamed Yehia Abouleish. "Hydrophobic Ionic Liquids for Efficient Extraction of Oil from Produced Water." ***Processes*** 10, no. 9 (2022): 1897, **IF= 3.352**

25. Siddiqui, Ruqaiyyah, Zinb Makhlouf, Noor Akbar, Mustafa Khamis, Taleb Ibrahim, **Amir Sada Khan**, and Naveed Ahmed Khan. "Antiamoebic properties of Methyltrioctylammonium chloride based deep eutectic solvents." ***Contact Lens and Anterior Eye*** 46, no. 2 (2023): 101758, **IF= 3.946**

26. Durrani, Wishal Zia, Asma Nasrullah, **Amir Sada Khan**, Taghreed M. Fagieh, Esraa M. Bakhsh, Kalsoom Akhtar, Sher Bahadar Khan, Israf Ud Din, Muhammad Azam Khan, and Awais Bokhari. "Adsorption efficiency of date palm based activated carbon-alginate membrane for methylene blue." ***Chemosphere*** 302 (2022): 134793, **IF= 8.943**

27. Siddiqui, Ruqaiyyah, Zinb Makhlouf, Noor Akbar, Mustafa Khamis, Taleb Ibrahim, **Amir Sada Khan**, and Naveed Ahmed Khan. "Antiamoebic properties of salicylic acid-based deep eutectic solvents for the development of contact lens disinfecting solutions against Acanthamoeba." ***Molecular and Biochemical Parasitology*** 250 (2022): 111493, **IF= 1.845**

28. Yasir, Nihal, **Amir Sada Khan**, Noor Akbar, Muhammad Faheem Hassan, Taleb H. Ibrahim, Mustafa Khamis, Ruqaiyyah Siddiqui, Naveed Ahmed Khan, and Paul Nancarrow. "Amine-Based Deep Eutectic Solvents for Alizarin Extraction from Aqueous Media." ***Processes*** 10, no. 4 (2022): 794, **IF= 2.847**

29. Yasir, Nihal, **Amir Sada Khan**, Muhammad Faheem Hassan, Taleb H. Ibrahim, Mustafa I. Khamis, and Paul Nancarrow. "Ionic liquid agar–alginate beads as a sustainable phenol adsorbent." ***Polymers*** 14, no. 5 (2022): 984, **IF= 4.967**

30. Nasrullah, Asma, **Amir Sada Khan**, Shahan Zeb Khan, Abrar Inayat, Taghreed M. Fagieh, Esraa M. Bakhsh, Kalsoom Akhtar, Sher Bahadar Khan, and Israf Ud Din. "Kinetics and thermodynamic study of Calligonum polygonoides pyrolysis using model-free methods." ***Process Safety and Environmental Protection*** 160 (2022): 130-138, **IF= 7.926**

31. Mundkur, Naethan, **Amir S. Khan**, Mustafa I. Khamis, Taleb H. Ibrahim, and Paul Nancarrow. "Synthesis and characterization of clay-based adsorbents modified with alginate, surfactants, and nanoparticles for methylene blue removal." ***Environmental Nanotechnology, Monitoring & Management*** 17 (2022): 100644, C.score 6.1

2021

32. **Amir Sada Khan**, Taleb H. Ibrahim, Mustafa I. Khamis, Paul Nancarrow, Jibran Iqbal, Inas AlNashef, Nabil Abdel Jabbar, Muhammad Faheem Hassan, and Farouq Sabri Mjalli. "Preparation of sustainable activated carbon-alginate beads impregnated with ionic liquid for phenol decontamination." ***Journal of Cleaner Production*** 321 (2021): 128899, **IF= 11.072**

33. **Amir Sada Khan**, Taleb Ibrahim, Noor Akbar, Mustafa I. Khamis, Ruqaiyyah Siddiqui, Paul Nancarrow, Farouq Sabri Mjalli, Naveed Ahmed Khan, and Nabil Abdel Jabbar. "Application of protic

ammonium-based ionic liquids with carboxylate anions for phenol extraction from aqueous solution and their cytotoxicity on human cells." ***Journal of Molecular Liquids*** 342 (20/09/2021): 117447, **IF= 6.633**

34. Rehman, Maqbool Ur, Abdul Manan, Muhammad Uzair, **Amir Sada Khan**, Atta Ullah, Arbab Safeer Ahmad, Arshad Hussain Wazir, Ibrahim Qazi, and Murad Ali Khan. Physicochemical characterization of Pakistani clay for adsorption of methylene blue: Kinetic, isotherm and thermodynamic study "***Materials Chemistry and Physics*** 269 (20/08/021): 124722, **IF= 4.778**

35. Rashid, Tazien, Farooq Sher, **Amir Sada Khan**, Ushna Khalid, Tahir Rasheed, Hafiz MN Iqbal, and Thanabalan Murugesan. "Effect of protic ionic liquid treatment on the pyrolysis products of lignin extracted from oil palm biomass." ***Fuel*** 291 (23/01/2021): 120133, **IF= 6.609**

36. **Amir Sada Khan**, Taleb H. Ibrahim, Nabil Abdel Jabbar, Mustafa I. Khamis, Paul Nancarrow, and Farouq Sabri Mjalli. "Ionic liquids and deep eutectic solvents for the recovery of phenolic compounds: effect of ionic liquids structure and process parameters." ***RSC advances*** 11, no. 20 (29/03/2021): 12398-12422, **IF= 4.036**

37. Alamin, Noor Ul, **Amir Sada Khan**, Asma Nasrullah, Jibran Iqbal, Zahoor Ullah, Israf Ud Din, Nawshad Muhammad, and Shahan Zeb Khan. "Activated carbon-alginate beads impregnated with surfactant as sustainable adsorbent for efficient removal of methylene blue." ***International Journal of Biological Macromolecules*** 176 (15/04/2021): 233-243, **IF= 8.025**

38. **Amir Sada Khan**, Taleb Hassan Ibrahim, Zeeshan Rashid, Mustafa I. Khamis, Paul Nancarrow, and Nabil Abdel Jabbar. "COSMO-RS based screening of ionic liquids for extraction of phenolic compounds from aqueous media." ***Journal of Molecular Liquids*** 328 (15/04/2021): 115387, **IF= 6.633**

39. **Amir Sada Khan**, Taleb Hassan Ibrahim, Mustafa I. Khamis, Paul Nancarrow, and Nabil Abdel Jabbar. "Role of cation and alkyl chain length on the extraction of phenol from aqueous solution using NTf2-based ionic liquids: Experimental and computational analysis." ***Journal of Molecular Liquids*** 326 (09/01/2021): 115305, **IF= 6.633**

40. Nasrullah, Asma, **Amir Sada Khan**, A. H. Bhat, Israf Ud Din, Abrar Inayat, Nawshad Muhammad, Esraa M. Bakhsh, and Sher Bahadar Khan. "Effect of short time ball milling on physicochemical and adsorption performance of activated carbon prepared from mangosteen peel waste." ***Renewable Energy*** 168 (21/12/2020): 723-733, **IF= 8.634**

41. **Amir Sada Khan**, Asma Nasrullah, Faizan Ullah, Nawshad Muhammad, Syeda Kubra, Israf Ud Din, and Zeeshan Mutahir. "Effect of imidazolium's ionic liquids with different anions and alkyl chain length on phytotoxicity and biochemical analysis of maize seedling." ***Journal of Molecular Liquids*** 321 (01/01/2021): 114491, **IF= 6.633**

2020

42. Rahim, Asyraf Hanim Ab, Zakaria Man, Ariyanti Sarwono, Nawshad Muhammad, **Amir Sada Khan**, Wan Suzaini Wan Hamzah, Normawati Mohamad Yunus, and Yasir A. Elsheikh. "Probe sonication assisted ionic liquid treatment for rapid dissolution of lignocellulosic biomass." ***Cellulose*** 27 (10/12/2019): 2135-2148, **IF= 6.123**

2019

43. Asim, Azmat Mehmood, Maliha Uroos, Sadia Naz, Misbah Sultan, Gregory Griffin, Nawshad Muhammad, and **Amir Sada Khan**. "Acidic ionic liquids: promising and cost-effective solvents for processing of lignocellulosic biomass." ***Journal of Molecular Liquids*** 287 (08/05/2019): 110943, **IF= 6.633**

44. Ullah, Zahoor, Zakaria Man, **Amir Sada Khan**, Nawshad Muhammad, Hamayoun Mahmood, Ouahid Ben Ghanem, Pervaiz Ahmad, Mansoor-Ul Hassan Shah, and Muhammad Raheel. "Extraction of valuable chemicals from sustainable rice husk waste using ultrasonic assisted ionic liquids technology." ***Journal of Cleaner Production*** 220 (11/02/2019): 620-629, **IF= 11.072**

45. Iqbal, Jibran, Nawshad Muhammad, Abdur Rahim, **Amir Sada Khan**, Zahoor Ullah, Girma Gonfa, and Pervaiz Ahmad. "COSMO-RS predictions, hydrogen bond basicity values and experimental evaluation of amino acid-based ionic liquids for lignocellulosic biomass dissolution." ***Journal of Molecular Liquids*** 273 (08/10/2018): 215-221, **IF= 6.633**

46. Ullah, Z., M. A. Bustam, Z. Man, **Amir Sada Khan**, A. Sarwono, N. Muhammad, M. Farooq, S. N. Shah, P. Ahmad, and S. Haider. "Phosphonium-based hydrophobic ionic liquids with fluorous anions for biodiesel production from waste cooking oil." ***International Journal of Environmental Science and Technology*** 16 (22/05/2019): 1269-1276, **IF= 3.519**

47. Sarwono, Ariyanti, Zakaria Man, Alamin Idris, **Amir Sada Khan**, Nawshad Muhammad, and Cecilia Devi Wilfred. "Optimization of ionic liquid assisted sugar conversion and nanofiltration membrane separation for 5-hydroxymethylfurfural." ***Journal of industrial and engineering chemistry*** 69 (21/08/2018): 171-178, **IF= 6.760**

48. Iqbal, Bushra, Nawshad Muhammad, Abdur Rahim, Farasit Iqbal, Faiza Sharif, Sher Zaman Safi, **Amir Sada Khan**, Girma Gonfa, Maliha Uroos, and Ihtesham Ur Rehman. "Development of collagen/PVA composites patches for osteochondral defects using a green processing of ionic liquid." ***International Journal of Polymeric Materials and Polymeric Biomaterials*** 68, no. 10 (08/06/2018): 590-596, **IF= 3.221**

49. Ahmad, Pervaiz, Mayeen Uddin Khandaker, Nawshad Muhammad, Ghulamullah Khan, Fida Rehman, **Amir Sada Khan**, Zahoor Ullah et al. "Fabrication of hexagonal boron nitride quantum dots via a facile bottom-up technique." ***Ceramics International*** 45, no. 17 (29/07/2019): 22765-22768, **IF= 5.532**

50. Tayyab, Zuhra, Sher Zaman Safi, Abdur Rahim, **Amir Sada Khan**, Faiza Sharif, Zia Ul Haq Khan, Fozia Rehman, Zahoor Ullah, Jibran Iqbal, and Nawshad Muhammad. "Preparation of cellulosic Ag-nanocomposites using an ionic liquid." ***Journal of Biomaterials Science***, Polymer Edition 30, no. 9 (24/04/2019): 785-796, **IF= 3.682**

51. Nasrullah, Asma, Bahruddin Saad, A. H. Bhat, **Amir Sada Khan**, Mohammed Danish, Mohamed Hasnain Isa, and Abdul Naeem. "Mangosteen peel waste as a sustainable precursor for high surface area mesoporous activated carbon: Characterization and application for methylene blue removal." ***Journal of Cleaner Production*** 211 (15/11/2018): 1190-1200, **IF= 11.072**

52. Iqbal, Bushra, Nawshad Muhammad, Abdur Rahim, Farasit Iqbal, Faiza Sharif, Sher Zaman Safi, **Amir Sada Khan**, Girma Gonfa, Maliha Uroos, and Ihtesham Ur Rehman. "Development of collagen/PVA composites patches for osteochondral defects using a green processing of ionic liquid." ***International Journal of Polymeric Materials and Polymeric Biomaterials*** 68, no. 10 (08/06/2018): 590-596, **IF= 3.221**

2018

53. **Amir Sada Khan**, Zakaria Man, Mohamad Azmi Bustam, Asma Nasrullah, Zahoor Ullah, Ariyanti Sarwono, Faiz Ullah Shah, and Nawshad Muhammad. "Efficient conversion of lignocellulosic biomass to levulinic acid using acidic ionic liquids." ***Carbohydrate polymers*** 181 (20/10/2017): 208-214, **IF= 10.723**

54. **Amir Sada Khan**, Zakaria Man, Mohamad Azmi Bustam, Chong Fai Kait, Asma Nasrullah, Zahoor Ullah, Ariyanti Sarwono, Pervaiz Ahamd, and Nawshad Muhammad. "Dicationic ionic liquids as sustainable approach for direct conversion of cellulose to levulinic acid." ***Journal of Cleaner Production*** 170 (13/09/2018): 591-600, **IF= 11.072**

55. Ullah, Zahoor, **Amir Sada Khan**, Nawshad Muhammad, Riaz Ullah, Ali S. Alqahtani, Syed Nasir Shah, Ouahid Ben Ghanem, Mohamad Azmi Bustam, and Zakaria Man. "A review on ionic liquids as perspective catalysts in transesterification of different feedstock oil into biodiesel." ***Journal of Molecular Liquids*** 266 (02/07/2018): 673-686, **IF= 6.633**

56. Sardar, Sabahat, Cecilia Devi Wilfred, Asad Mumtaz, Jean-Marc Leveque, **Amir Sada Khan**, and Sooridarsan Krishnan. "Physicochemical properties, Brönsted acidity and ecotoxicity of imidazolium-

based organic salts: Non-toxic variants of protic ionic liquids." ***Journal of Molecular Liquids*** 269 (06/08/2018): 178-186, **IF= 6.633**

57. Sarwono, Ariyanti, Zakaria Man, Alamin Idris, Tan Hua Nee, Nawshad Muhammad, **Amir Sada Khan**, and Zahoor Ullah. "Alkyd paint removal: Ionic liquid vs volatile organic compound (VOC)." ***Progress in Organic Coatings*** 122 (20/05/2018): 79-87, **IF= 6.206**
58. Ghanem, Ouahid Ben, Syed Nasir Shah, Jean-Marc Lévêque, MI Abdul Mutalib, Mohanad El-Harbawi, **Amir Sada Khan**, Mohamad Sahban Alnarabiji, Hamada RH Al-Absi, and Zahoor Ullah. "Study of the antimicrobial activity of cyclic cation-based ionic liquids via experimental and group contribution QSAR model." ***Chemosphere*** 195 (07/12/2017): 21-28, **IF= 8.943**
59. **Amir Sada Khan**, Asma Nasrullah, Zahoor Ullah, A. H. Bhat, Ouahid Ben Ghanem, Nawshad Muhammad, Mamoon Ur Rashid, and Zakaria Man. "Thermophysical properties and ecotoxicity of new nitrile functionalised protic ionic liquids." ***Journal of Molecular Liquids*** 249 (04/11/2017): 583-590, **IF= 6.633**
60. Ahmad, Pervaiz, Mayeen Uddin Khandaker, Nawshad Muhammad, Fida Rehman, Ghulamullah, **Amir Sada Khan**, Zahoor Ullah et al. "Magnesium diboride (MgB2): An effective and novel precursor for the synthesis of vertically aligned BNNTs." ***Materials Research Bulletin*** 98 (25/10/2018): 235-239, **IF= 5.600**
61. Sarwono, Ariyanti, Zakaria Man, M. Azmi Bustam, Duvvuri Subbarao, Alamin Idris, Nawshad Muhammad, **Amir Sada Khan**, and Zahoor Ullah. "Swelling mechanism of urea cross-linked starch–lignin films in water." ***Environmental technology*** 39, no. 12 (07/06/2017): 1522-1532, **IF= 3.475**

2017

62. Ullah, Zahoor, M. Azmi Bustam, Zakaria Man, **Amir Sada Khan**, Nawshad Muhammad, and Ariyanti Sarwono. "Preparation and kinetics study of biodiesel production from waste cooking oil using new functionalized ionic liquids as catalysts." ***Renewable Energy*** 114 (22/07/2017): 755-765, **IF= 8.634**
63. Sarwono, Ariyanti, Zakaria Man, Nawshad Muhammad, **Amir Sada Khan**, Wan Suzaini Wan Hamzah, Asyraf Hanim Abdul Rahim, Zahoor Ullah, and Cecilia Devi Wilfred. "A new approach of probe sonication assisted ionic liquid conversion of glucose, cellulose and biomass into 5-hydroxymethylfurfural." ***Ultrasonics sonochemistry*** 37 (20/01/2017): 310-319, **IF= 9.336**
64. Ullah, Zahoor, Mohamad Azmi Bustam, Zakaria Man, **Amir Sada Khan**, Nawshad Muhammad, Ariyanti Sarwono, Muhammad Farooq, Riaz Ullah, and Ali Nawaz Mengal. "A detail description on catalytic conversion of waste palm cooking oil into biodiesel and its derivatives: new functionalized ionic liquid process." ***ChemistrySelect*** 2, no. 27 (22/09/2017): 8583-8595, **IF= 2.307**

65. **Amir Sada Khan**, Zakaria Man, Mohamad Azmi Bustam, Girma Gonfa, Fai Kait Chong, Zahoor Ullah, Asma Nasrullah, Ariyanti Sarwono, Pervaiz Ahmad, and Nawshad Muhammad. "Effect of structural variations on the thermophysical properties of protic ionic liquids: Insights from experimental and computational studies." ***Journal of Chemical & Engineering Data*** 62, no. 10 (24/08/2017): 2993-3003, **IF= 3.119**

66. Muhammad, Nawshad, Girma Gonfa, Abdur Rahim, Pervaiz Ahmad, Farasat Iqbal, Faiza Sharif, **Amir Sada Khan** et al. "Investigation of ionic liquids as a pretreatment solvent for extraction of collagen biopolymer from waste fish scales using COSMO-RS and experiment." ***Journal of molecular liquids*** 232 (24/02/2017): 258-264, **IF= 6.633**

67. Ahmad, Pervaiz, Mayeen Uddin Khandaker, Nawshad Muhammad, Fida Rehman, Ghulamullah Khan, Muhammad Abdur Rehman, Syed Muzamil Ahmed, Mubashir Gulzar, Arshid Numan, and **Amir Sada Khan** "Synthesis of multilayered hexagonal boron nitride microcrystals as a potential hydrogen storage element." ***Ceramics International*** 43, no. 9 (07/03/2017): 7358-7361, **IF= 5.532**

68. Ahmad, Pervaiz, Mayeen Uddin Khandaker, Syed Tawab Shah, Fida Rehman, Ghulamullah Khan, Nawshad Muhammad, Muhammad Abdur Rehman, **Amir Sada Khan** et al. "Controlled synthesis of anisotropic hexagonal boron nitride nano-web." ***Materials Science in Semiconductor Processing*** 66 (10/04/2017): 44-49, **IF= 4.644**

69. **Amir Sada Khan**, Zakaria Man, Annie Arvina, Mohammad Azmi Bustam, Asma Nasrullah, Zahoor Ullah, Ariyanti Sarwono, and Nawshad Muhammad. "Dicationic imidazolium based ionic liquids: Synthesis and properties." ***Journal of Molecular Liquids*** 227 (02/12/2016): 98-105, **IF= 6.633**

70. Iqbal, Bushra, Nawshad Muhammad, Arshad Jamal, Pervaiz Ahmad, Zia Ul Haq Khan, Abdur Rahim, **Amir Sada Khan**, Girma Gonfa, Jibran Iqbal, and Ihtesham Ur Rehman. "An application of ionic liquid for preparation of homogeneous collagen and alginate hydrogels for skin dressing." ***Journal of Molecular Liquids*** 243 (30/08/2017): 720-725, **IF= 6.633**

2016

71. Khan, Sefath Ullah, Farman Ullah Khan, Ihsan Ullah Khan, Nawshad Muhammad, Syed Badshah, Adnan Khan, Asim Ullah, **Amir Sada Khan**, Hazrat Bilal, and Asma Nasrullah. "Biosorption of nickel (II) and copper (II) ions from aqueous solution using novel biomass derived from Nannorrhops ritchiana (Mazri Palm)." ***Desalination and Water Treatment*** 57, no. 9 (04/12/2016): 3964-3974, **IF= 1.273**

72. **Amir Sada Khan**, Zakaria Man, Mohammad Azmi Bustam, Chong Fai Kait, Zahoor Ullah, Asma Nasrullah, Muhammad Irfan Khan, Girma Gonfa, Pervaiz Ahmad, and Nawshad Muhammad. "Kinetics

and thermodynamic parameters of ionic liquid pretreated rubber wood biomass." ***Journal of Molecular Liquids*** 223 (05/09/2016): 754-762, **IF= 6.633**

73. **Amir Sada Khan**, Zakaria Man, Mohammad Azmi Bustam, Chong Fai Kait, Muhammad Irfan Khan, Nawshad Muhammad, Asma Nasrullah, Zahoor Ullah, and Pervaiz Ahmad. "Impact of ball-milling pretreatment on pyrolysis behavior and kinetics of crystalline cellulose." ***Waste and biomass valorization*** 7 (30/12/2015): 571-581, **IF= 3.449**

74. Ullah, Zahoor, M. Azmi Bustam, Zakaria Man, Syed Nasir Shah, **Amir Sada Khan**, and Nawshad Muhammad. "Synthesis, characterization and physicochemical properties of dual-functional acidic ionic liquids." ***Journal of Molecular Liquids*** 223 (05/09/2016): 81-88, **IF= 6.633**

75. **Amir Sada Khan**, Zakaria Man, Mohammad Azmi Bustam, Chong Fai Kait, Zahoor Ullah, Ariyanti Sarwono, and Cecilia Devi Wilfred. "Pyrolysis kinetics of 1-propyronitrile imidazolium trifluoroacetate ionic liquid using thermogravimetric analysis." ***Procedia engineering*** 148 (12/07/2016): 1332-1339.

76. Ahmad, Pervaiz, Mayeen Uddin Khandaker, Yusoff Mohd Amin, Nawshad Muhammad, Ghulamullah **Amir Sada Khan**, Arshid Numan, Muhammad Abdur Rehman, Syed Muzamil Ahmed, and Asif Khan. "Synthesis of hexagonal boron nitride fibers within two hour annealing at 500 C and two hour growth duration at 1000 C." ***Ceramics International*** 42, no. 13 (16/06/2016): 14661-14666, **IF= 5.532**

77. Ullah, Zahoor, M. Azmi Bustam, Zakaria Man, and **Amir Sada Khan**. "Thermal stability and kinetic study of benzimidazolium based ionic liquid." ***Procedia engineering*** 148 (12/07/2016): 215-222.

78. Khan, Muhammad Irfan, Khairun Azizi Azizli, Sufian, Z. . Man, **Amir Sada Khan**, H. A. F. E. E. Z. Ullah, and AHMER ALI Siyal. "A Short Review of Infra-Red Spectroscopic Studies of Geopolymers." ***Advanced Materials Research*** 1133 (01/01/2016): 231-235.

79. Khan, Sefath Ullah, Farman Ullah Khan, Ihsan Ullah Khan, Nawshad Muhammad, Syed Badshah, Adnan Khan, Asim Ullah, **Amir Sada Khan**, Hazrat Bilal, and Asma Nasrullah. "Biosorption of nickel (II) and copper (II) ions from aqueous solution using novel biomass derived from Nannorrhops ritchiana (Mazri Palm)." ***Desalination and Water Treatment*** 57, no. 9 (10/12/2014): 3964-3974, **IF= 1.273**

2015

80. Muhammad, Nawshad, Zakaria Man, MI Abdul Mutalib, Mohamad Azmi Bustam, Cecilia D. Wilfred, **Amir Sada Khan**, Zahoor Ullah, Girma Gonfa, and Asma Nasrullah. "Dissolution and separation of wood biopolymers using ionic liquids." ***ChemBioEng Reviews*** 2, no. 4 (08/07/2015): 257-278, **IF= 6.207**

81. Khan, M. Irfan, Khairun Azizli, Suriati Sufian, Zakaria Man, and **Amir Sada Khan**. "Simultaneous preparation of nano silica and iron oxide from palm oil fuel ash and thermokinetics of template removal." ***Rsc Advances*** 5, no. 27 (13/02/2015): 20788-20799, **IF= 3.2**

82. Gonfa, Girma, Mohamad Azmi Bustam, Nawshad Muhammad, and **Amir Sada Khan**. "Evaluation of thermophysical properties of functionalized imidazolium thiocyanate based ionic liquids." ***Industrial & Engineering Chemistry Research*** 54, no. 49 (19/11/2015): 12428-12437, **IF= 4.326**

83. Ullah, Zahoor, M. Azmi Bustam, Zakaria Man, Nawshad Muhammad, and **Amir Sada Khan**. "Synthesis, characterization and the effect of temperature on different physicochemical properties of protic ionic liquids." ***RSC advances*** 5, no. 87 (30/07/2015): 71449-71461, **IF= 4.036**

84. Ullah, Zahoor, M. Azmi Bustam, Nawshad Muhammad, Zakaria Man, and **Amir Sada Khan**. "Synthesis and thermophysical properties of hydrogensulfate based acidic ionic liquids." ***Journal of Solution Chemistry*** 44 (2015): 875-889, **IF= 2.0**

85. Muhammad, Nawshad, Yanan Gao, Muhammad Irfan Khan, Zakir Khan, Abdur Rahim, Farasat Iqbal, **Amir Sada Khan**, and Jibran Iqbal. "Effect of ionic liquid on thermo-physical properties of bamboo biomass." ***Wood science and technology*** 49 (08/04/2015): 897-913, **IF= 2.898**

2014

86. Khan, Hizbullah, Nek Daraz, Muhammad Nasim Khan, Muhammad Said, Nosheen Akhtar, Amin Badshah, **Amir Sada Khan**, and Murad Ali. "Synthesis, structural characterization, and evaluation of the biological properties of heteroleptic palladium (II) complexes." Bioinorganic Chemistry and Applications 2014, no. 1 (07/09/2014): 916361. **(IF = 4.7)**

87. **Amir Sada Khan**, Zakaria Man, Mohamad Azmi Bustam Khalil, Chong Fai Kait, and Adulhalim Shah Maulud. "Effect of ball milling on the catalytic conversion of cellulose to levulinic acid." ***Applied Mechanics and Materials*** 625 (01/09/2014): 353-356.

88. **Amir Sada Khan**, Zakaria Man, Mohamad Azmi Bustam Khalil, Chong Fai Kait, and Adulhalim Shah Maulud. "Effect of ball milling on the catalytic conversion of cellulose to levulinic acid." **Applied Mechanics and Materials** 625 (01/09/2014): 353-356, **IF= 4.724**

89. Khan, A. S., H. Khan, A. Nazrullah, S. Ahmed, N. Muhammad, M. Bilal, F. U. Khan, S. Bashah, and M. Khan. "Antiwear properties of benzoic acid in bitter rapeseed oil and sesame oil at low and high temperature." Int J Mech Mechatron Eng 12, no. 6 (01/12/2012): 7-12. **IF= 1.5**

Book Chapters

1. Aslam, Muhammad Mudasar, Faizan Ullah, Nazneen Akhtar, Maha Rehman, Tahir Iqbal, **Amir Sada Khan**, and Muhammad Jamil. "Biochar-assisted growth regulation in plants under contaminated soils." ***In Biochar-assisted Remediation of Contaminated Soils Under Changing Climate***, pp. 201-216. ***Elsevier***, 2024.
2. **Amir Sada Khan**, Zakaria Man, Asma Nasrullah, Zahoor Ullah, Nawshad Muhammad, Abdur Rahim, Azmi Bustam, and Alamin Idris. "Conversion of biomass to chemicals using ionic liquids." ***In Green sustainable process for chemical and environmental engineering and science***, pp. 1-30. ***Elsevier***, 2020.
3. Rahim, A. **Amir Sada Khan** "Applications of Ionic Liquids in Sensors and Biosensors." ***Materials Research Foundations*** 54 (2019).
4. Nasrullah, A., A. H. Bhat, **Amir Sada Khan**, and H. Ajab. "Comprehensive approach on the structure, production, processing, and application of lignin." ***In Lignocellulosic Fibre and Biomass-Based Composite Materials***, pp. 165-178. Woodhead Publishing, 2017.

Research Students Supervised (PhD + M.Phil)

S.No.	Scholar Name	Reg. No	Thesis title	Viva Date
M. Phil student supervised				
01	Ms. Sakeena Supervisor	2011-UB-GCB-44233	Effect of Imidazolium–Based Ionic Liquids with Different Anions and Alkyl Chain Length on Germination and Growth of Maize Seedling	09/09/2020
02	Ms. Wishal Durrani Supervisor		Bioadsorbent Membrane Prepared from Activated Carbon/Alginate for Efficient Removal of Methylene Blue Dye from Water	01/03/2021
03	Ms. Sonila Shohab Supervisor	2010-UB-GCB-30032	Recovery of Imidazolium Based Ionic Liquids from Aqueous Solution using Mangosteen Peel Based Activated Carbon	01/03/2021
04	Mr. Abid Ullah Supervisor	2012-UB-GCL-46843	Adsorption of diclofenac sodium on activated carbon prepared from abelmoschus esculentus (lady finger)	01/03/2021
05	Ms. Zainab Noreen Supervisor	2009-UB-GCB-22216	Biosorption of Methylene Blue Dye from Aqueous Solution on Activated Carbon prepared from Biomass	01/03/2021
06	Mr. Noor Ul Amin Supervisor	2011-UB-GCL-37874	Removal of Methylene Blue from aqueous solutions by AC/Surfactants/Alginate beads:	01/03/2021

			Adsorption and Reusability	
08	Mr. Hafeez U Rehman	2013 UBGCL-60809	Development of calcium alginate surfactant composite membrane for efficient removal of methylene blue	02/01/2021
09	Ms. Muzdalfa Almas	2013-UB-GCC-16849	Clay-Alginate Beads Impregnated with Surfactant: Characterization and Application for Adsorption of Methylene Blue	26/08/2021
10	Mr. Hazrat Ali Supervisor	2019-USTB-120405	Alginate-PVA beads loaded with SDS and AC for efficient removal of Methylene blue from aqueous solution.	26/01/2023
11	Ms. Faryal Gul Supervisor	2007-USTB-12602	Impact of Ionic Liquids on Efficiency of PV A-Alginate Composite Beads for Methylene Blue Adsorption	
12	Ms. Shabnum Noreen Supervisor	2020-USTB-128487	Activated carbon-alginate-polyvinyl alcohol beads for decontamination of Methyl Green from Aqueous solution	03/05/2023
13	Ms. Aisha Supervisor	2020-USTB-128488	Preparation and Characterization of Zeolite-Alginate Beads modified with surfactants for efficient removal of methylene Blue Dye from Aqueous Solution.	21/11/2023
14	Ms. Hajra Khan Supervisor	2020-USTB-128513	Synthesis of Hydrophobic Deep Eutectic Solvent for efficient and Fast Removal of Dyes.	
15	Mr. Muhmmad Asif Supervisor	2019-USTB-120411	Alginate-PVA Composite modified with activated carbon, Fe3O4 nanoparticles and ionic liquids for Methylene Blue Removal	26/01/2023
16	Ms. Aneela Gul Supervisor	2016-UB-GCL-85757	Preparation of surfactant fabricated zeolite alginate beads for decontamination of dye from water	18/09/2024
17	Faheem Ullah	2013-UB-GCL-56764	Adsorption of hazardous crystal violet dye from water by sodium dodecyl benzene sulfonate loaded zeolite-alginate composite beads	18/12/2024
18	Ali Shan Bibi	2022-USTB-100335	Sustainable Alginate-zeolite Beads Impregnated with Anionic Surfactant and 3-aminopropyltriethoxysilane for Adsorption of Crystal Violet Dye	18/12/2024
19	Wasi Ullah	2022-USTB-99960	Magnetic Fe_3O_4 alginate beads loaded with surfactants for methylene blue adsorption	18/12/2024
20	Sana Rauf	2021-USTB-132146	Alginate-PVA-SDS-activated carbon film fabricated with surfactant for methylene blue adsorption	18/12/2024
21	Solaiman Khan	2016-UB-GCL-86895	Deep eutectic solvent treated activated carbon for the removal of brilliant blue R dye	18/12/2024
22	Maryum Ali		Malic acid based hydrophobic deep eutectic solvent modified sponge for adsorption of methyl red from aqueous solution	18/12/2024
23	Minhas Ullah Khan		Adsorption of methyl orange using hydrophobic deep eutectic solvent-modified sponge	03/02/2025
24	Alia Yaqoob	2022-USTB-100263	Trioctylamine/Octanoic acid based hydrophobic deep eutectic solvent loaded in sponge for extraction of methyl red from	03/02/2025

			aqueous media	
25	Muhmmad Ishfaq		Activated carbon loaded with deep eutectic solvent for adsorption of Congo red dye	03/02/2025
26	Wasiq Ahmad Khan	2015-UB-GCB-81591	Ammonium based hydrophobic deep eutectic solvent for extraction of congo red from aqueous phase	03/02/2025
27	Zahid Afzal	2022-USTB-100173	Extraction of Bromocresol Green from Aqueous Media Using Hydrophobic Deep Eutectic Solvent	26/02/2025
28	Saadat Ullah Co-supervisor	20-M.PHIL-CH-S-HU-31	Extraction of organic dyes from aqueous phase using ammonium based ionic liquids	27/06/2022
29	Aisha Bahadar Co-supervisor	2013-UB-GCB-58268	Local clay-based adsorbent for dyes adsorption	11/09/2023
PhD student supervised				
01	Nasim Ullah Co-supervisor	15-M.Phil-Ch-F-hu-7	Synthesis and characterization of activated carbon and clay composite modified with surfactant for adsorption of dyes	26/05/2023

Reference

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