MUHAMMAD ATIF

H. No. 397, St. No. 2, Sir Syed Block, Tariq Bin Zyad Colony,
Vehari-61100, Punjab, Pakistan
+923024757979
chemistatif@yahoo.com
https://ue.edu.pk/empprofile.php?id=131

PROFESSIONAL SUMMARY

A period of exertion has turned me into active learner, listener and responsive thinker. My administrative experience has not only matured my managerial and organizational skills, but also my oral and written communication skills. Through research supervisory duties and project collaborations, I have learned being a creative team builder and player, with sound analytical skills and subject knowledge. My professional growth has taught me an inevitable adaptability lesson to work with or without any external help, even under pressure. While working on polymer chemistry for the last few years, I have propagated grip on structure-activity evaluation of polymers, polymer processing techniques, polymer characterization.

* Administratively, I have been involved in the following activities: performing administrative tasks in faculty committees dealing with research, budgets, curriculum planning and staffing.

* As a student counsellor, I have been advising students on course and academic matters and career decision, as well as on research matters through seminars and discussion groups. I, being a certified HEC Master Trainer, prepare special lectures and presentations for conferences and consultations.

* As a researcher, I have been working as Academic Editor in PLoS ONE and reviewer in a number of outclass journals, doing research in my area of specialization, and directing research programs of graduate students.

WORK EXPERIENCE

Associate Professor — **University of Education** — **Mar 2021–CONTD.**

*** Teaching:** 09 credit hours/semester in morning shift

*** Research:** Supervising BS, MS, and PhD students
Publishing research articles
Running the "Instrumental Lab"

***Administrative Duties:**
Convener Research Club, Coordinator Student Counselling Forum, Convener Transport Committee, and Member Campus Discipline Committee
Incharge Internal Examination, UE Vehari (2021-2023)

Assistant Professor — **University of Education** — **Sep 2015–Mar 2021**

*** Teaching:** 12 credit hours/semester in morning shift

*** Research:** Supervising BS, MS, and PhD students
Publishing research articles
Running the "Instrumental Lab"

***Administrative Duties:**
Incharge Internal Examination, UE Vehari (2021-2023)

Departmental Coordinator, UE Vehari (2015-2020)
Incharge Sports, UE Vehari (2016-2019)
Incharge Student Affairs, UE Vehari (2016-2018)
Advisor Researcher Society, UE Vehari (2016-2018)

Assistant Professor **COMSATS IIT Abbottabad** **Apr 2014–Aug 2015**

*** Teaching:** 12 credit hours/semester

*** Research:** Publishing research articles

***Administrative Duties:**

Departmental ISO Coordinator
Departmental Seminar Coordinator
Coordinated Faculty Professional Training-15 at COMSATS Abbottabad.

Lecturer **Politecnico di Torino Italy** **Jan 2010–Jan 2014**

*** Teaching:** I have acquired 4 years' experience as an international educator contracted by Politecnico di Torino.

*** Research:** Conducting research and publishing research results in journals/books/seminars

Junior Research Fellow **ICCBS, Karachi University** **Aug 2007–Aug 2009**

*** Duties:** Analysis, synthesis, purification, modification and characterization of chemical compounds

Chemist **Berger Robbialac Paints Karachi** **Jun 2005–Jul 2007**

*** Duties:** Developing and conducting programs of analysis to ensure quality control of raw materials, intermediates or final products
Conducting research to develop new chemical formulations and processes and devising new technical applications of industrial chemicals and compounds
Conducting research to discover, develop, refine and evaluate new products such as those used in water based, solvent based paints and other products with specialized applications
Working as technical consultant in commercialization of new products
Supervising other chemists and chemical technicians and technologists

EDUCATION

MS/PhD (Material Science and Technology) **Politecnico di Torino Italy** **Jan 2010–Jan 2014**

*** HEC OVERSEAS FELLOWSHIP:**

Academic scholarship was granted by HEC Pakistan for MS/PhD. During my time in Italy, I contributed to several academic and research projects. I have acquired significant experience as an international educator contracted by Politecnico di Torino. I participated in various workshops, schools and symposia.

*** MIUR ITALY FELLOWSHIP:**

I have also been awarded MIUR fellowship by the Italian Ministry of Research for a short-term research project in China.

*** THESIS TITLE:**

Surface modification and characterization of carbon black with Mercaptopropyl-trimethoxysilane; UV-cured epoxy composites

MS (Chemistry) **ICCBS, Karachi University** **Aug 2007–Aug 2009**

*** ICCBS FELLOWSHIP:**

Academic scholarships for MS (Chemistry) was granted by ICCBS Karachi University Pakistan.

*** CGPA:**

4/4

MSc (Chemistry) **University of Agriculture, Faisalabad** **Aug 2002–July 2004**

*** CGPA:**

3.63/4

*** THESIS TITLE:**

Synthesis and Characterization of Acrylic Based Synthetic Thickener for Printing Paste Through Inverse Emulsion Polymerization

SKILLS

Academic Skills

*** Teaching:** Level - Proficient
Experience - 14 years

*** Research Supervision:** Level - Expert
Experience - 10 years
Achievements - My research students are pursuing higher education in Korea, Australia, Taiwan, Thailand, China, etc.

*** Laboratory Management:** Level - Expert
Experience – 8 years
Achievement - I was awarded a HEC grant as the main researcher, which facilitated the establishment of an Instrumental Lab.

*** Student Counseling:** Level - Expert
Experience – 8 years; as Coordinator Student Counseling in University of Education (Vehari Campus)

*** Project Management:** Level - Proficient
Experience - 14 years
Achievement - completed 5 funded projects, as lead researcher

*** Administration:** Experience - 10 years
Achievements – worked in a variety of roles where the administrative function was essential, like Department Coordinator, Incharge Internal Examination, Incharge Student Affairs, Incharge Sports, Coordinator Student Counseling, Member Discipline Committee, Convener Transport Committee etc

Research Skills

*** Patent/Publications:** 3 Patents / 45 Publications (IF 200 +)

*** Projects:** Completed 5 research projects (national and international)

*** Supervision:** Supervised 50+ PhD, MS, and BS/MSc students

*** Research Interest:** 1. Carbon Materials: Synthesis and surface modification;
2. Polymer synthesis from biobased sources;

3.Composite synthesis & Electrochemical, Thermo-mechanical, Biomedical, as well as specialized applications e.g. shape memory polymers and detachable adhesives
4.Photochemical reactions (Photopolymerization, Photochemical surface modification etc)

Computer Skills

*** Courses:** PGD-IT (86% marks)

*** Software:** Endnote, Origin, Chem-Draw etc

Communicational Skills

*** Trainings:**

Title - Business Communication Skills
Institute - IBA Karachi, Pakistan
Duration - 21st Nov to 22nd Dec 2005
Title - Research Proposal and Thesis Writing
Institute - IRP, Pakistan
Duration - 8th to 9th Apr 2016
Title - Research Proposal Writing
Institute - UE Lahore Division of Education, Pakistan
Duration - 29th to 31st Mar 2016
Title - ISO 14001:2004 - Environment Management System
Institute – CIIT Vehari, Pakistan
Duration - 12th to 13th Apr 2016
Title - FPDP-HEC Master Trainer Program
Institute – HEC Islamabad, Pakistan
Duration - 27th Jul to 8th Sep 2016
Title - Horizon 2020 Building Scientific Bridge EU & Pakistan
Institute – PSF Islamabad, Pakistan
Duration - 24th Aug 2017
Title - Professional Development Program for Science Faculty
Institute – HEC Islamabad, Pakistan
Duration - 16th to 17th Oct 2017
Title - Promoting Social Harmony and Critical Consciousness
Institute – Pak Institute for Peace Studies Islamabad, Pakistan
Duration - 4th to 5th Jan 2019
Title - HEC - BC Capacity Development Program - for Reviewers
Institute – HEC Pakistan and British Counsel
Duration - 21st to 24th Feb 2023
Title - How to write a win-win scientific proposal
Institute – UE Lahore Division of Education Pakistan
Duration - 31st Jul to 1st Aug 2023

*** Presentations:**

Title – Team Work - Induction Training of College Teachers
Institute – University of Education D. G. Khan, Pakistan
Date – 25th June 2016
Title – Plagiarism - Induction Training of College Teachers
Institute – University of Education D. G. Khan, Pakistan
Date – 25th June 2016
Title – Critical Thinking in Research – FPD UE Vehari
Institute – University of Education Vehari, Pakistan

Date – 10th Jan 2017
Title – Training Master Trainers
Institute – READC Vehari, Pakistan
Date – 25th Jan 2017
Title – Office Management and Communication Skills
Institute – READC Vehari, Pakistan
Date – 18th Dec 2017
Title – Developing Training Skills
Institute – READC Vehari, Pakistan
Date – 29th Nov 2019
Title – Recycling Industrial Waste into Conductive Particles
Event–International Conference on Sustainable Environmental Technologies
Institute – CIIT Vehari, Pakistan
Date – 5th Dec 2019
Title – Interpersonal Skills
Institute – READC Vehari, Pakistan
Date – 3rd Jan 2020
Title – Communication Skills
Institute – READC Vehari, Pakistan
Date – 20th Nov 2020
Title – Keynote Speech "Beat Plastic Pollution"
Institute – READC Vehari, Pakistan
Date – 5th Jun 2023

Language Skills

*** IELTS (British Council):** 2009: Academic (L:8, R:8, W:7, S:7 = overall 7.5)
2023: General (L:7, R:6.5, W:6, S:8 = overall 7)

*** ELTeach (ETS/National Geographic Learning/Cengage Learning):**
2014: 300/300 scores, Band 3+

PROFESSIONAL CREDENTIALS

* Editorial Board Member (PLoS One)
* Member Royal Society of Chemistry (Membership ID: **717018**)
* Member American Chemical Society (Member Number **32099107**)
* HEC Approved Master Trainer
* HEC Approved Research Supervisor

AWARDS AND HONOURS

*** Fellowships:**

ICCBS Fellowship (MS/PhD) **2007**
International Center for Chemical and Biological Sciences (Karachi University) fellowship for MS/PhD from ICCBS.

HEC Fellowship (MS/PhD) **2009**
HEC Pakistan fellowship for MS/PhD from Politecnico di Torino, Italy

KIST Korea Fellowship (MS/PhD) **2009**
*Not availed

MIUR Research grant **2012**
The Ministry for Education, University and Research has awarded a fellowship for collaborative research between Italy and China. I have been chosen to serve as a representative for the Italian side.

*** Projects:**

Research Project – I **2012**
Title: Surface modification and characterization of carbon black; UV-cured epoxy composites". PhD Research.
Funder: HEC Pakistan
Cost: 45600 €

Research Project – II **2012**
Title: Synthesis and characterization of bi-functional Acrylate monomer
Funder: Research ministry (MIUR) Italy
Cost: 5000 €

Research Project – III **2014**
Title: Modification & characterization of carbon fillers for conductive application
Funder: SRGP research grant, HEC Pakistan
Cost: 4870 $

Research Project – IV **2015**
Title: Surface modification & characterization of Carbon Black with Thiols
Funder: COMSATS IIT Islamabad, Pakistan
Cost: 1950 $

Research Project – V **2016**
Title: Experimental exploration of novel photo curing method - SMART approach - on thermomechanical properties of commercial epoxy composites
Funder: NRPU-Project No 6475, HEC Pakistan
Cost: 43285 $

PUBLICATIONS

1. **Atif, M.,** Dilawaiz, Akhtar, H., Imran, M., Ullah, M. Z., Andaleeb, H., & Hussain, M. A. (2024). In Vitro Hydroxyapatite Nucleation in Cationically Cured Epoxy Composites with Pulverized Date Seed. Polymers, 16(24), 3463.
2. **Atif, M.,** Ali, B., Ramzan, I., Younas, A., Imran, M., & Ahmed, M. H. (2025). Thermally stimulated bio-acrylate based detachable adhesives with sustainable bonding-debonding design. International Journal of Adhesion and Adhesives, 136, 103853. Doi: 10.1016/j.ijadhadh.2024.103853
3. **Atif, M.,** Ghani, A., Ahmad, M. H., Shah, S. Z., Imran, M., & Habib, N. (2024). Cationic UV-Curing of Shape Memory Biobased Polyurethanes Sensing Low Heat. Polymers for Advanced Technologies, 35(10), e6615.

4. **Atif, M.,** Ali, B., Imran, M., Riaz, N. N., Abdullah, M., Ahmad, M. H., & Mehmood, R. A. (2024). Synthesis and characterization of sesame oil based plasticizers for reversible bonding in thermally detachable polyurethane adhesives. Sustainable Materials and Technologies, 39, e00793.
5. **Atif, M.,** Shoukat, S., Imran, M., Alex, M. Paradigm shift in orthopedic implants from metals to polymers. Iran Polym J (2024). https://doi.org/10.1007/s13726-024-01438-y
6. **Atif, M.,** Mehmood, R. A., Noor, A. Z., Shaukat, S., Mahmood, S., & Ali, I. (2023). Surface modified walnut shell derived carbon particles for anti-acne skin treatment. Diamond and Related Materials, 140, 110394.
7. **Atif, M.,** Naeem, M., Karim, R. A., Ameen, F., & Mumtaaz, M. W. (2022). Surface modification and characterization of waste derived carbon particles to reinforce photo-cured shape memory composites. RSC advances, 12(9), 5085-5093.
8. **Atif, M.,** Hussain, M. A., Ghani, A., Rani, A., Muzaffar, S., & Bongiovanni, R. (2022). Controlled cationic curing of epoxy composites with photochemically modified silanol encapsulated carbon black. Journal of Applied Polymer Science, 139(27), e52241.
9. **Atif, M.,** Haider, H. Z., Bongiovanni, R., Fayyaz, M., Razzaq, T., & Gul, S. (2022). Physisorption and chemisorption trends in surface modification of carbon black. Surfaces and Interfaces, 31, 102080.
10. **Atif, M.,** Ameen, F., Mahmood, K., & Yousuf, U. F. Qualitative and quantitative impact of filler on thermomechanical properties of epoxy composites. Polymers for Advanced Technologies (2021) 32(8): 2813-28
11. **Atif, M.,** Q. Farid, S. A. Ahmad, R. A. Karim, A. Hussain, F. Rabbani and R. Bongiovanni. Electrochemical evaluation of human hair derived carbon particles. ECS Journal of Solid State Science and Technology (2020) 9/5: 051003.
12. **Atif, M.,** S. A. Ahmad, A. Ghani, A. Mahmood, R. Bongiovanni. Experimental exploration of SMART photochemical approach for surface modification of CB. Applied Surface Science (2020) 145281.
13. **Atif, M.,** A R Kashif, Z Khaliq, A Mahmood, M A Hussain, R Bongiovanni. Electrochemical evaluation of textile industry waste derived carbon particles for UV-cured epoxy composites. Diamond & Related Materials 105 (2020) 107804.
14. **Atif, M.,** I. Afzaal, H. Naseer, M. Abrar and R. Bongiovanni. Surface Modification of Carbon Nanotubes: A Tool to Control Electrochemical Performance. ECS Journal of Solid State Science and Technology (2020) 9/4: 041009.
15. **Atif, M.,** M.R. Abdul Karim, Z. Khaliq and R. Bongiovanni. Facile Oxidation Approach to Amend Surface Chemistry of Carbon Particles for Augmented Dispersion in Epoxy Matrix. Russian Journal of Applied Chemistry (2020) 93/2: 305-312.
16. **Atif, M.,** M. R. A. Karim, I. Ali and R. Bongiovanni. Photochemical thiolation of carbon particles with Mercaptopropyltrimethoxysilane. Composite Interfaces (2019) 27: 1–14.
17. **Atif, M.,** J. Yang, H. Yang, N. Jun and R. Bongiovanni. Effect of novel UV-curing approach on thermo-mechanical properties of colored epoxy composites in outsized dimensions. Journal of Composite Materials (2016) 50/22: 3147–3156.
18. **Atif, M.,** R. Bongiovanni and J. Yang. Cationically UV-cured epoxy composites. Polymer Reviews (2015) 55: 90–106.
19. **Atif, M.,** E. Cellasco, M. Giorcelli, A. Tagliaferro and R. Bongiovanni. Modification and characterization of carbon black with mercaptopropyltrimethoxysilane. Applied Surface Science (2013) 286: 142–148.
20. **Atif, M.,** & Bongiovanni, R. (2014). Surface modification and characterization of carbon black; UV cured colored epoxy composites (Doctoral dissertation, DISAT, Politecnico di Torino, Italy).
21. Irshad, A., **Atif, M.,** Ghani, A. et al. Experimental evaluation of cobalt adsorption capacity of walnut shell by organic acid activation. Sci Rep 13, 7356(2023) https://doi.org/10.1038/s41598-023-33902-9
22. Ali, B., **Atif, M.,** Perviaz, M., Irshad, A., Abdullah, M., and M. A. Mobeen. Catalyst Free Synthesis of Low Thermal Actuated Shape Memory Polyurethanes with Modified BioBased Plasticizers. RSC Advances (2023) 13, 506 – 515

23. Ahmed, N., **Atif, M.*,** Ahmed, N., Iftikhar, F., Nauman S., and B. Niaz. Polyurethane Polystyrene based smart interpenetrating network with quick shape recovery through thermal actuation. Polymers and Polymer Composites (2022) 30, 09673911221076847. https://doi.org/10.1177/09673911221076847
24. Tang, R., **Muhammad, A.**, Yang, J., & Nie, J. Preparation of antifog and antibacterial coatings by photopolymerization. Polymers for advanced technologies, (2014) 25(6), 651-656.
25. Saleem, S., Ghani, A., **Atif, M.**, Noor, A. Z., Imran, M., & Aslam, A. A. (2024). Exploring Innovative Curcumin-Loaded Hydrogels: Novel Approaches to Combat Antimicrobial Resistance. Journal of Drug Delivery Science and Technology, 106077.
26. Karim, M. R. A., Shehzad, W., **Atif, M.**, Haq, E. and Abbas, Z. Sonochemically synthesized novel CNTs-PANI/$CoNi(PO_4)_2$ nanocomposites with enhanced electrochemical energy storage performance for asymmetric supercapacitor applications. Energy and Environment. 2024, pp: 1-22
27. Ali, B., Irshad, A., & **Atif, M.** Biobased photocurable polyurethane composites. Polymers for Advanced Technologies (2023) 34(2), 452-473.
28. Khalid, W., Abdul Karim, M. R., **Atif, M.,** Shehzad, W., Marwat, M. A., & Yaqoob, K. (2023). Ultrasounds-assisted solvothermal synthesis of Ni-Co-Mn MOFs/PANI-CNTs nanocomposites with enhanced electrochemical energy storage performance. Energy & Environment, 0958305X231196126.
29. Ali, I., Mu, Y., **Atif, M.,** Hussain, H., Li, J., Li, D. & Wang, X. (2021). Separation and anti-inflammatory evaluation of phytochemical constituents from Pleurospermum candollei (Apiaceae) by high-speed counter-current chromatography with continuous sample load. Journal of Separation Science (2021) 44/13:2663-73.
30. Wang, J. Yang, **M. Atif,** R. Bongiovanni, G. Li, Z. Xue and X. Yang. One-component photoinitiator based on benzophenone and sesamol. Polymers for Advanced Technologies (2018) 29: 2264-2272.
31. Ashraf, A., Riaz, N., Muzaffar, S., **Atif, M.**, & Bashir, B. (2024). Investigating the Potential of 1,2,4-triazoles as Corrosion Inhibitors for Copper and Steel: A Comprehensive Review. Next Research, 100033.
32. Irshad, A., Ali, B., Imran, M., Atif, M., Ahmed, I., & Alex, M. (2024). Thermo-chemical strategies to prepare biowaste derived activated carbon as metal adsorbent. Adsorption, 1-40.
33. Aslam, A. A., Irshad, A., Nazir, M. S., & **Atif, M.** (2023). Covalent organic frameworks as adsorbents for organic pollutants. Journal of Cleaner Production, 136737.
34. Ali, L., Qureshi, T., Hussain, M. A., **Atif, M.,** Sohaib, H. M., & Siddiqi, M. H. Evaluation of kinetic behaviour of refused derived fuel samples by using thermogravimetric analysis. Thermal Science (2022), 198-198.
35. Hussain, M. A., Choi, E. J., Maqbool, A., **Atif, M.,** Zeb, H., Yeo, J. & Kim, J. W. (2021). An efficient hydration of nitriles with ruthenium-supported heterogeneous catalyst in water under moderate conditions. Journal of Industrial and Engineering Chemistry (2021) 99:187-195
36. A. Dad, I. Ali, N. Engel, **M. Atif,** H. Hussain, V. U. Ahmad, P. Langer, A. Al-Harrasi and I. R. Green. The phytochemical investigation and biological activities of Berberis Orthobotrys. International Journal of Phytomedicine 9 (2017) 213-218.
37. Riaz, N. N., Iqbal, S., Amin, S., Ahmad, K., **Atif, M.,** Muhammad, S., & Ashfaq, M. (2025). Rational synthesis of Azo ligands and copper complexes: Insights into potential therapeutic agents. Journal of Molecular Structure, 1321, 139705.
38. Tariq, M. A., Ali, A., Nawaz, M. I., Hamid, A., **Atif, M.,** & Raza, R. Experimental and Theoretical Study of Gallium–Doped Cerium Electrolyte for Fuel Cells. ACS Applied Energy Materials (2023), 6(21), 10817-10828.
39. Marriam, M., Irshad, A., Umer, I., Asghar, M. A., and **M. Atif.** Vegetable Oils as Bio-Based Precursors for Epoxies. Sustainable Chemistry and Pharmacy (2022) 31: 100935
40. Bibi, I., Ahmad, H., Farid, A., Iqbal, H., Habib, N., & **Atif, M**. A comprehensive study of electrically switchable adhesives: Bonding and Debonding on Demand. Materials Today Communications (2023), 106293.
41. R. A. Karim, E. U. Haq, A. Hussain, khurram, N. Mehrvi, **M. Atif.** Experimental evaluation of sustainable geo-polymer mortars developed from loam natural soil. Journal of Asian Architecture and Building Engineering (2020) 19/6: 637–646.

42. M. A. Hussain, M. Irshad, E. Ul-Haq, S. Park, **M. Atif,** A. S. Hakeem, B. G. Choi and J. W. Kim. Porous Aluminum oxide as an efficient support for Ruthenium-catalyzed aerobic oxidation of alcohols and amines. Ind. Eng. Chem. Res. (2019) 58: 23025-23031.
43. U. Zia, Irum, H., Haider, Z., Ameen, F., Abrar, M., **Atif, M.** Biowaste as a Source of Conductive Carbon. ECS Journal of Solid State Science and Technology (2022) 11(2), 021001
44. Noor, A. Z., Bibi, S., Asrar, M., Imran, M., Afzal, S., Abdal, S., & **Atif, M.** (2024). Revolutionizing applications: the impact of controlled surface chemistry on marble powder. RSC advances, 14(48), 35727-35742.
45. A. A. Aslam, J. Akram, R. A. Mehmood, A. Mubarak, A. Khatoon, U. Akbar, S. A. Ahmad, **M. Atif.** Boron based bioactive glasses: Properties, processing, characterization and applications. Ceramics International (2023), 49(12), 19595-19605
46. Muhammad, S., Amin, S., Iqbal, J., Al-Sehemi, A. G., Alarfaji, S. S., Ilyas, M., **Atif, M.** & Ullah, S. (2022). Insighting the therapeutic potential of fifty (50) shogaol derivatives against mpro of SARS-CoV-2. Journal of Computational Biophysics and Chemistry, 21(05), 555-568.
47. N. Engel, I. Ali, A. Adamus, M. Frank, A. Dad, S. Ali, B. Nebe, **M. Atif,** M. Ismail, P. Langer and V. U. Ahmad. Antitumor evaluation of two selected Pakistani plant extracts on human bone and breast cancer cell lines. BMC Complementary and Alternative Medicine (2016) 16:244 DOI:10.1186/s12906-016-1215-9.
48. A. Mumtaz, A. Maalik, A. Zaidi, W. Khan, S. Azhar, N. Fatima, A. Saeed, **M. Atif.** Synthesis, characterization, antimicrobial and phytotoxic screening of 1-Aroyl-3,5-diarylpyrazoline derivatives. Acta Poloniea Pharmaceutica (2015) 72/5: 937-941.

PATENTS

*	**2402170267.93/2024**	ElecUnbind: A biobased electrically detachable adhesive composites
*	**2402170267.94/2024**	MagDebond: Magnetically debondable PU adhesive
*	**2402170267.95/2024**	Sulfosever Humate Fertile Mixture for Soil Fertility

BOOK CHAPTER

R. Bongiovanni, M. Atif and M. Sangermano. Polymer Nanocomposites with UV Cured Epoxies; in Thermoset Nanocomposites. Vikas Mittal; Wiley-VCH, 2013.

CONFERENCES

- **M. Atif,** S. A. Jadhav and R. Bongiovanni. Effect of Carbon Black on photopolymerization of epoxides and modified Carbon Black for nanocomposite materials. International Conference on nanotechnology (ICNANO), 2011, Dehli, India.
- **M. Atif** and R. Bongiovanni. UV curing of colored epoxy composite materials and kinetic study on effect of filler on UV curing process, Macrogiovani 2013, Milan, Italy.
- M. Atif, R. Bongiovanni, and A. Tagliaferro. Conductive black preparation through UV curing, International Conference on Diamond and Carbon Materials 2013, Riva del Garda, Italy.
- J Yang, M Atif, J Nie, One-component Photoinitiator Based on Benzophenone and Sesamol Used for Free Radical Polymerization, The First International Conference on Polymer Science and Engineering, Nov.11-13 2014, Beijing, China, pp58.
- J Yang, M Atif, J Nie, Synthesis and photopolymerization kinetics of one-component photoinitiator based on thioxanthone and sesamol, International Symposium on Integrated Molecular/Materials Science and Engineering, Nov.1-3 2014, Nanjing, China, pp232.

SYMPOSIA

- Symposium on Pure and Applied Chemistry, UE Vehari Campus (Apr. 17th 2019) Chief Organizer
- Second European Symposium on Photopolymer Sci., Torino, Italy (Sep. 4-7, 2012).
- 11th International Symposium on Natural Products Chemistry, Kharachi, Pakistan. (29th Oct.-1st Nov. 2008).

RESEARCH STUDENTS SUPERVISED

Sr.#	Student Names	ID/ Roll. No	Level	Thesis Titles	Session
1	Muhammad Hassan Ahmad	Pds2200025	PhD	UV and Thermal Responsive Detachable Bio-Based Adhesives Using Polyurethane Bonding and Debonding on Demand	2022-25
2	Zaheer Abdullah	PDS2308188	PhD	Sustainable Nano-fertilizer Design: Synthesis and Characterization to Study Impact of Nanomaterial Blends on Soil Fertility and Plant Health	2023-26
3	Muhammad Zafar Ullah	Pdf23003378	PhD	Conducting Polymer-Based Electrodes for Water Splitting and Hydrogen Evolution	2023-26
4	Ali Zia Noor		PhD	Synthesis of Reusable Cement Materials Through Photochemical Modification of Marble Powder for Composite Structures	2024-27
5	Qaria Niaz		PhD	Design and Synthesis of Biowaste-Derived MOFs with Tunable Porosity and Surface Chemistry for CO_2 Adsorption	2024-27
6	Jawairia Fatima	msf2201403	MS	DFT Study for Kinetic Stability of Cationic Photoinitiator	2020-22
7	Dilawaiz	msf2207393	MS	*In Vitro* Investigation of Hydroxyapatite Crystallization in Cationically Cured Epoxy Composites Filled with Crushed Date Seed	2022-24
8	Sana Shoukat	msf2207399	MS	Comparative Analysis of Epoxy and Acrylate Composites on Mechanical Strength of Artificial Bone	2022-24
9	Noreen Bibi	msf2207414	MS	Sesame oil based Pressure Sensitive Shape Memory Composites	2022-24
10	Muhammad Waqas	Msf2100916	MS	Metal Dopped Porous Carbon from Industrial Waste as Piezo-responsive Agents	2021-23
11	Isha Ramzan	MSCHE-F21-013	MS	Synthesis and characterization of acrylic acid from biobased materials for detachable adhesive	2021-23
12	Abdul Khaliq	21020301-015	MS	Physicochemical approaches for transduction of sound waves onto electricity	2021-23
13	Muzammil Munawar	F19-MSCHEM-1020	MS	Shape memory epoxy composite reinforced with plastic bag strips	2019-21
14	Hafiz Zeshan Haider	F19-MSCHEM-1028	MS	Effect of recycled polystyrene bottles on thermomechanical properties of epoxy composite	2019-21
15	Sadia afzal	MSF2100855	MS	Catalytic Assessment of Eggshell/Sesame Husk Composite	2021-23
16	Rana adeel mehmood	MSF 2100895	MS	Surface modification of polymeric materials with titanium based bioactive glasses for regeneration of epithelial tissues	2021-23
17	Ali zia noor	MSF-2100877	MS	Surface modification of marble powder to enhance adhesion impact	2021-23
18	Faiza Ameen	MPH-C-18-23	MS	Effect of Surface Chemistry and Concentration of Carbon Fillers in Thermo-mechanical Properties of Photo-cured Epoxy Composites.	2018-20

19	Gull Rida	MPH-C-18-64	MS	Comparative Kinetics Study of the Effect of Carbon Fillers Surface Chemistry on Epoxy Photo-Polymerization.	2018-20
20	Hira Naseer	MPH-C-18-37	MS	Use of dopamine coated carbon particles in epoxy composites for super capacitor applications.	2018-20
21.	Abd Ur Rehman Kashif	MSF1700014	MS	Preparation and Characterization of UV Cured Conductive Epoxy Composites	2017-19
22	Faiza Ameen	140106511-13	BS	Use of Surface modified Carbon fillers in Thermally Conductive Applications	2014-18
23	Imran Afzal	140106511-79	BS	Preparation and characterization of epoxy composites for conductive applications	2014-18
24	Hira Naseer	140106511-19	BS	Use of Surface Modified Carbon fillers in Electrically Conductive Applications	2014-18
25	Syeda Tooba Fatima	140106511-59	BS	Preparation of activated carbon from textile industrial waste.	2014-18
26	Umaima Rasheed	140106511-62	BS	Synthesis and Characterization of Bio-based Epoxy Resins	2014-18
27	Hamna Afzal	150106511-14	BS	Facile Approach of Graphene Synthesis	2015-19
28	Hafiz M. Qamar Farid	150106511-56	BS	Synthesis and characterization of carbon Particle from Human Hair	2015-19
29	Nida Khalid	150106511-31	BS	Conductive Carbon particles synthesis from raw cotton	2015-19
30	Maria Abrar	150106511-23	BS	Synthesis and characterization of Epoxide from Alkenes	2015-19
31	Tayiba Razzaque	BSF-1603416	BS	Study for the mechanistic approach for Cationic association of epoxy with surface functionalization of carbon fillers	2016-20
32	Muhammad Naeem	BSF-1603449	BS	Synthesis and Characterization of Shape-memory Carbon-Epoxy composites	2016-20
33	Sara Gul	BSF-1603643	BS	Facile Photochemical Approach for surface amination of carbon filler	2016-20
34	Maria Fayyaz	BSF-1603469	BS	Synthesis and characterization of Bio-Based Epoxies from Castor oil and Linsed oil	2016-20
35	Sofia Bashir	BSF-1603483	BS	Strategies for Halogenation of Carbon Black	2016-20
36	Muhammad Shahbaz	BSF-1603686	BS	Kinetic modeling for Smart UV curing Approach for epoxy composites	2016-20
37	Umer Zia	BSF1704502	BS	Experimental Evaluation of Bio-material Reinforced Epoxy Composites for Thermo-Mechanical Applications	2017-21
38	Fareeha Marriam	BSF1704842	BS	Reaction Optimization for Epoxidation of Sun-Flower Oil	2017-21
39	Sana Shoukat	BSF1704391	BS	Utilization of Bio-Waste Derived Carbon Particles in Epoxy Composites for Human Bone or Teeth Construction	2017-21
40	Shaista Shaukat	BSF1704551	BS	Surface Modification of Bio-Waste Derived Carbon Particles for Application in Skin Allergic Infections	2017-21
41	Isra Umer	BSF1704677	BS	Palladium Catalyzed Epoxidation of Canola Oil	2017-21
42	Abdul Waheed	BSF1704745	BS	Epoxy Curing Kinetics Model to Study Irradiation Impact	2017-21
43	Waqas Ahmad	BSF1704777	BS	Fabrication of Epoxy-Graphene Based Strain Sensors	2017-21
44	Basharat Ali	18-UE-04841	BS	Shape memory of thermos-cured polyurethane	2018-22
45	M Abdullah Imtiaz	18-UE-04982	BS	Detachable adhesives synthesis	2018-22
46	Jawairia Fatima	18-UE-04673	BS	Kinetic modeling for epoxy curing	2018-22
47	Ahmad Mobeen	18-UE-04802	BS	Electrochemical behavior of copper doped orange peel	2018-22

48	Nighat Rasheed	18-UE-04819	BS	Removal of organic wastes through activated carbon derived from biowastes	2018-22
49	Hira Fiaz	18-UE-05172	BS	Carbon particles with magnetic behavior derived from biowaste	2018-22
50	Dilawaiz	18-UE-04832	BS	Application of epoxy composites for bone replacement	2018-22
51	Syed Zulqarnain Shah	Bsf1905010	BS	Ecofriendly epoxidation of vegetable oils through organic acids	2019-23
52	M. Awais Farid	Bsf1904732	BS	Photo-detachable biobased adhesives	2019-23
53	Humera Iqbal	Bsf1905000	BS	Synthesis and characterization of ecofriendly bio-based magnetically controlled switchable adhesive	2019-23
54	Iqra Bibi	Bsf-1904804	BS	Synthesis of bio-based electrically controlled switchable adhesives	2019-23
55	Nimra Habib	BSF1904864	BS	Photochemically cured shape memory polymer	2019-23
56	Javeria Akram	BSF1904464	BS	Synthesis and characterization of borate bioactive glass through sol-gel method	2019-23
57	Sadiqa Abdal	Mcs2100534	MSc	Surface modified sesame husk based magnetic particles	2021-23
58	Amna Khatoon	Mcs2100525	MSc	Synthesis and characterization of phosphate based bioactive glass	2021-23

REFERNCES (A FEW ARE LISTED BELOW)

Supervisors

PhD Prof. Roberta Maria Bongiovanni
Professor, DISAT, Politecnico di Torino, Italy
Email: Roberta.bongiovanni@polito.it

MSc. Dr. Shaukat Ali
Professor (Chemistry), UAF, Paistan
Email: shaukat.chemist@uaf.edu.pk

Collaborators

Prof. Nie Jun
Professor, BUCT, China
Email: niejun@buct.edu.cn

Dr. Musinguzi Alex (Senior Lecturer)
Busitema University, Uganda
Email: malex.eng@busitema.ac.ug

Prof. Barbara Bonelli
Professor, DISAT, Politecnico di Torino, Italy
Email: barbara.bonelli@polito.it

Dr. Muhammad Imran
King Khalid University, Saudi Arabia
Email: imranchemist@gmail.com

Dr. Adila Umar
Research Professor, Electrical Engineering department
Korea university, Seoul, South Korea
Email: adila@korea.ac.kr

Dr. Iftikhar Ali
Karakorum International University
Gilgit, Pakistan.
Email: iftikhar.ali@kiu.edu.pk

Colleagues

Prof. Dr. Ammara Farukh
Professor, University of Education, Vehari, Pakistan
Email: ammara.farukh@ue.edu.pk

Prof. Dr. Musarrat Jabeen
Riphah Int. Uni. Islamabad, Pakistan
Email: musarratjabeen7@gmail.com

Ex-Research Students

1. Hira Naseer- Chemical and Molecular Engineering Department, Hanyang University, South Korea
   Email: hiranaseer77@hanyang.ac.kr
2. Hafiz Zeshan Haider- Sustainable Chemical Science and Technology, Institute of Chemistry, Academia Rd, Nangang District, Taipei City, Taiwan. Email: haider0001@gate.sinica.edu.tw
3. Adnan Irshad- Centre for Sustainable Materials Research and Technology, School of Materials Science and Engineering, UNSW Sydney, Australia. Email: a.irshad@unsw.edu.au
4. Basharat Ali- Qingdao Institute of Bioenergy & Bioprocess Tech., Chinese Academy of Sciences
   Email: chemistbasharat@mails.ucas.ac.cn
5. Awais Ali Aslam- Department of Chemical and Environmental Engineering, University of Nottingham, Ningbo, China.Email: Awaisali.ASLAM@nottingham.edu.cn