Short CV with Selected Latest Publications

Muhammad Irfan Majeed (PhD)

Associate Professor (TTS-Tenured) at
Department of Chemistry &
UAF Community College PARS,
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Scholarly Publications: *151*

Citations: *2912*

Impact factor: *350*

HEC Approved Supervisor

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Home Address: *611/D, Liaquat Chowk, G. M. Abad, Faisalabad, Pakistan.*
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Short Profile:

Obtained Master's degree (2003) and MPhil degree (2006) in Chemistry from Department of Chemistry, University of Agriculture Faisalabad (UAF) with more than 70% marks.

Worked as a Researcher (2006-2009) in National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad in Nanobiotechnology project.

Obtained Chinese Government Scholarship and completed PhD degree (2009-2013) in Chemistry from School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology (HUST), Wuhan, China in 2013.

Served as Assistant Professor (June 2014 to October 2022) under Tenure Track System (TTS), at Department of Chemistry and UAF Community College PARS, University of Agriculture Faisalabad (UAF).

Currently working as Tenured Associate Professor from October, 2022 to date, at Department of Chemistry and UAF Community College PARS, University of Agriculture Faisalabad (UAF).

Research Interests:

Currently, my research interests include preparation of nanoparticles and exploration of their potential applications in various research fields, especially in surface-enhanced Raman spectroscopy (SERS), disease diagnosis and targeted drug delivery for cancer.

Research Grants Obtained as Principal Investigator (PI):

- *NRPU research grant with title "Development of nanoparticle-based multiplex sandwich immunoassay for stage-specific diagnosis of breast cancer" of 4.8 M rupees was awarded by Higher Education Commision (HEC) Pakistan in March, 2019.*

Scholarly Publications:

a. Research Papers

1. *Akram, M. W.; Arshad, S.; Javed, M. R.; Ijaz, A.;* ***Majeed, M. I.****; Nawaz, H.; Alwadie, N.; Huda, N. u.; Ghaffar, U.; Ullah, M. H., Surface-Enhanced Raman Spectral Profiling of Gamma Radiation-Induced Mutations in Aspergillus niger Supernatant Samples. Plasmonics* ***2025****, 1-12.*
2. *Arshad, S.; Yaseen, S.; Nawaz, H.;* ***Majeed, M. I.****; Rashid, N.; Ali, A.; Shahzadi, A.; Shafique, H.; Rehman, A.; Maryam, A., Biochemical Profiling of Iron Deficiency Anemia by Using SERS and Multivariate Analysis of Low Molecular Weight Fractions of Serum. Plasmonics* ***2025****, 1-15.*

*3. Atta, M. M.; Kashif, M.; **Majeed, M. I.**; Nawaz, H.; Alshammari, A.; Albekairi, N. A.; Parveen, A.; Usman, M.; Salfi, A. B.; Lateef, A., Surface-Enhanced Raman Spectroscopy for the Characterization of Blood Serum Samples of Chronic Kidney Disease by Using 100 kDa. Plasmonics **2025**, 1-12.*

*4. Atta, R.; Shoukat, Z.; Nawaz, H.; **Majeed, M. I.**; Rashid, N.; Albekairi, N. A.; Alshammari, A.; Shahzadi, A.; Yaseen, S.; Arshad, I., Surface-Enhanced Raman Spectroscopy for the Characterization of Filtrate Portions of Blood Serum Samples of Malaria Patients Using 30 kDa Filtration Devices. Plasmonics **2025**, 1-10.*

*5. Ditta, A.; Zhang, R.; Nawaz, H.; **Majeed, M. I.**; He, S.; Zhuang, Z.; Rütten, S.; Shahzadi, A.; Yaseen, S.; Kiessling, F., An exploratory clinical study of the diagnosis and staging of typhoid fever using label-free surface-enhanced Raman spectroscopy liquid biopsy. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy **2025**, 125864.*

*6. Fatima, E.; Atta, M. M.; Nawaz, H.; **Majeed, M. I.**; Rashid, N.; Alwadie, N.; Rehman, A.; Jabeen, S.; Liaqat, I.; Khalid, F., Surface-Enhanced Raman Spectroscopy (SERS)-Based Chemometric Modelling for Chronic Renal Failure Using 50 kDa Ultra-Filtration. Analytical Letters **2025**, 1-17.*

*7. Maryam, A.; Ehsan, M.; **Majeed, M. I.**; Nawaz, H.; Rashid, N.; Alshammari, A.; Albekairi, N. A.; Ali, A.; Hassan, M. S.; Saif, A., SERS-Based Comparison of Serum Filtrate Portions of Typhoid and Tuberculosis Patients Obtained Using 50 kDa Filtration Devices. Plasmonics **2025**, 1-12.*

*8. Parveen, A.; Usman, M.; **Majeed, M. I.**; Nawaz, H.; Rashid, N.; Altowyan, A. S.; Ali, A.; Mehmood, N.; Ali, R.; Akhtar, K., SERS Spectral Monitoring of Low Molecular Weight Fractions of Blood Serum Samples of Myocardial Infarction Patients Using a 50 kDa Device Along with Multivariate Data Analysis Techniques. Plasmonics **2025**, 1-12.*

*9. Salfi, A. B.; Hussain, M.; **Majeed, M.** I.; Nawaz, H.; Rashid, N.; Albekairi, N. A.; Alshammari, A.; Yousaf, A.; Ullah, M. H.; Fatima, E., Surface-enhanced Raman spectroscopy for the characterization of filtrate portions of hepatitis B blood serum samples using 100 kDa ultra filtration devices. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy **2025**, 125883.*

*10. Shahid, U.; Rashid, N.; Javed, M. R.; **Majeed, M. I.**; Mohsin, M.; Nawaz, H.; Seemab, R.; Zohaib, M.; Alam, M.; Alshammari, A., Surface-enhanced Raman spectroscopy for the rapid identification of fosfomycin resistant and sensitive strains of E. coli. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy **2025,** 329, 125517.*

*11. Tariq, R.; Khalil, M. Z.; Nawaz, H.; **Majeed, M. I.**; Rashid, N.; Albekairi, N. A.; Alshammari, A.; Kamran, A.; Hussain, M.; Nawabzadi, S., Surface Enhanced Raman Spectral Monitoring of 50 KDa Filtrate Portions of Blood Serum Samples of Patients with Iron Deficiency Anemia. Journal of Raman Spectroscopy **2025**.*

*12. Yousaf, A.; Ullah, M. H.; Nawaz, H.; **Majeed, M. I.**; Rashid, N.; Alshammari, A.; Albekairi, N. A.; Ali, A.; Hussain, M.; Salfi, A. B., SERS-assisted characterization of cell biomass from biofilm-forming Acinetobacter baumannii strains using chemometric tools. RSC advances **2025,** 15 (6), 4581-4592.*

*13. Zohaib, M.; Shahzadi, A.; **Majeed, M. I.**; Nawaz, H.; Aslam, M. A.; Alshammari, A.; Albekairi, N. A.; Ali, A.; Arshad, S.; Yousaf, A., Surface-Enhanced Raman Spectroscopy (SERS) for the Characterization of Bacterial Isolates in Pus. Analytical Letters **2025**, 1-14.*

*14. Sattar, H.; Ijaz, T.; Nawaz, H.; **Majeed, M. I.**; Alshammari, A.; Albekairi, N. A.; Ali, A.; Khalil, M. Z.; Ali, M.; Lateef, A., Surface-Enhanced Raman Spectroscopy (SERS) for the Characterization of Biofilm Forming and Non-Biofilm Forming Klebsiella pneumoniae Strains. Analytical Letters **2024**, 1-20.*

*15. Hajab, H.; Anwar, A.; Nawaz, H.; **Majeed, M. I.**; Alwadie, N.; Shabbir, S.; Amber, A.; Jilani, M. I.; Nargis, H. F.; Zohaib, M., Surface-enhanced Raman spectroscopy of the filtrate portions of the blood serum samples of breast cancer patients obtained by using 30 kDa filtration device. Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy **2024**, 124046.*