


Resume of Md. Ashraful Alam



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Research Interest:

Material Science, Nanotechnology, Semiconductor, Hydrogels, Environmental chemistry, waste management, polymer chemistry, bio-inorganic chemistry & Analytical chemistry

Work Experience:

Scientific Officer

May 2022-Present

Bangladesh Council of Scientific and Industrial Research (BCSIR)

Quality Control Officer

**June 2018-May-2022
(4 years)**

Popular Pharmaceuticals Limited

Academic Qualifications:

Master of Science (M. Sc):

Institution : University of Chittagong
Subject : Chemistry
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Bachelor of Science (B.Sc., Honors):

Institution : University of Chittagong
Subject : Chemistry
Passing Year : 2014

Published Paper

First Author Publication:

1. [Md Ashraful Alam](#), Md Mokarom Hossain, Ajoy Kanti Mondal, Shashanka Shekhar Sarker, Khandoker Tahmina Tasnim, Md Sefiatulla Ridoy, Shahin Aziz, Md Tushar Uddin, "Epoxidized rubber seed oil: A modified tanning material for chamois leather" *Industrial Crops and Products*. 234 (2025): 121564. **Q1, IF: 6.2**

2. [Md Ashraful Alam](#), Akash Debnath, M Tushar Uddin, Al Tamanna, Sarker Kamruzzaman, Hosne Ara Begum, Swapan Kumer Ray, Sabiha Fatima, Azmat Ali Khan, Zuwu Tang, Ajoy Kanti Mondal “Flexible high electrochemical collagen/lignin composite hydrogel for sensing and supercapacitor applications” *International Journal of Biological Macromolecules*. 281(1) (2024) p.136240. **Q1, IF: 7.7.**
3. [Md Ashraful Alam](#), Md Tushar Uddin, Md Abul Kashem Azad, Shashanka Shekhar Sarker, Md Abdur Razzaq, Md Sefiatulla Ridoy, Md Aftab Ali Shaikh, Ajoy Kanti Mondal” Fatliquor from rubber seed oil: Synthesis and application in leather processing” *Industrial Crops and Products*. 219(2024):119099. **Q1, IF: 5.6**
4. [Md Ashraful Alam](#), Md Tushar Uddin, Khandokar Tahmina Tasnim, Shashanka Shekhar Sarker, Md Abdur Razzaq, Md Alamgir Kabir, SM Asaduzzaman Sujon, Ajoy Kanti Mondal” Comparative evaluation of physicochemical and antimicrobial properties of rubber seed oil from different regions of Bangladesh” *Heliyon*.10(4)(2024): e25544. **Q1, IF: 4.0.**
5. [Md Ashraful Alam](#), Akash Debnath, Khandoker Tahmina Tasnim, Shashanka Shekhar Sarker, Md Tushar Uddin, Sarker Kamruzzaman, Ilnaz Fargul Chowdhury, Md Tanzil Ahamed Shawon, Zuwu Tang, Ajoy Kanti Mondal “*Materials Today Communications*. 41 (2024): 110391. **Q2, IF: 4.0.**
6. [Md Ashraful Alam](#), Ajoy Kanti Mondal, Md Tushar Uddin, Md Abdur Razzaq, Murshid Jaman Chowdhury, Madhu Sudan Saha “Chemical investigation and separation of chromium from chrome cake of BSCIC tannery industrial estate at hemayetpur, dhaka, Bangladesh” *Journal of Environmental and Public Health* 2023(1): 6685856. **Q2, IF: 2.79**
7. [Md Ashraful Alam](#), Pradip Paul, Ratul Kumar Shil, Avijit Chakraborty, Saswata Rabi, Tapashi Ghosh Roy “Chromium (III) complexes of a tetraazamacrocyclic ligand: synthesis, characterization and antibacterial investigation” *Acta Scientific Pharmaceutical Sciences* 5,8,(2021): 2581-5423 **Q2, IF: 1.89**

Co-Author Publications

- 1.0 Shashanka Shekhar Sarker, Md Murshed Hasan Sarkar, Shamima Akhter Sharmin, Nourin Tarannum, Taslima Akter, [Md Ashraful Alam](#), Md Ibrahim Miah, Md Aftab Ali Shaikh, Sahana Parveen, “Molecular characterization of chromium tolerant and gelatin hydrolyzing bacterial isolates from tannery wastes: Perspective on chrome-tanned leather waste biodegradation in Bangladesh” *Journal of Genetic Engineering and Biotechnology*. 23(2)(2025). **Q2, IF: 3.6**

- 2.0 Md Abul Kalam, Salvin Mustakim, Mohammad Jellur Rahman, Md Tushar Uddin, [Md Ashraful Alam](#), Mohammad Mahbubur Rahman “Bio-degradable smart nanocomposite fiber from Moringa oleifera fiber reinforced with safely functionalized carbon nanotubes” *AIP Advances*.15(1)(2025). **Q2, IF: 1.4**
- 3.0 Ilnaz Fargul Chowdhury, Md. Tanzil Ahamed Shawon, [Md Ashraful Alam](#), Sabiha Fatima, Azmat Ali Khan, Jinbei Yang, Zuwu Tang, and Ajoy Kanti Mondal, “Ni²⁺-rich collagen/lignin composite hydrogel: transforming industrial waste materials to flexible electronics” *ACS Applied Polymer Materials*, 24(6):15094-15104 **Q1, IF: 4.4.**
- 4.0 Khandoker Tahmina Tasnim, Akash Debnath, Md Tushar Uddin, [Md Ashraful Alam](#), Md Abdur Razzaq, Sk Zubaer Zaman, Md Aftab Ali Shaikh, Ajoy Kanti Mondal “Comparative evaluation of tannin from banana bunch and stem syrup for leather processing” *Heliyon*.10(11)(2024): e31787. **Q1, IF: 4.0.**
- 5.0 Nourin Tarannum, Sahana Parveen, Mohammad Nazrul Islam Bhuiyan, Abhijit Chowdhury, Umma Fatema Shahjade, Shashanka Shekhar Sarker, Taslima Akter, Amin Hossain, [Md Ashraful Alam](#), Md Aftab Ali Shaikh, “Exploring newly isolated thermotolerant, halotolerant and antimicrobial resistant Bacillus subtilis ProNTL1 from tannery waste and its alkaline protease production” *Molecular Biology Reports (2024)* 51:1131. **Q2, IF: 2.6.**
- 6.0 Akash Debnath, [Md Ashraful Alam](#), Ajoy Kanti Mondal, Md Tushar Uddin, Md Aftab Ali Shaikh, SM Asaduzzaman Sujan “Development of Flexible Composite Sheet with Chrome Shavings Using Polyvinyl Alcohol as a Cross-Linker” *International Journal of Polymer Science*. 2023(1): 6694850. **Q2, IF: 3.4.**
- 7.0 D Palit, L Dey, S Rabi, S Roy, [Md Ashraful Alam](#), TG Roy “Axial Addition in Diastereoisomeric [Ni (Me₈ [14] ane)](ClO₄)₂ Complexes and Their Antifungal Activities” *The Chittagong University Journal of Science*. 41(1)(2019) p.122-147



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