

At present, BCSIR has total **356 Scientists**, in March 2022, BCSIR scientists have published a total of **18 Scopus and Web of Science index Articles** with a **2.27 average impact factor (IF)** and **1 Process**. The list is-

**IP (Process): 1**

1. Dr. Mst. Sarmina Yeasmin, G. M. Masud Rana, Tahmina Akter Chowdhury, Lailatul Ferdousi, Md. Mahmudur Rahman, 'Production of Cholesterol Lowering Edible Blended Oil using Sesame and Mustard Seeds', Reference No: 39.02.0000.043.37.891.22, Date: 09.03.2022

**Publications: 18**

**Dhaka Labs: 4**

1. Rabeya Binta Alam, Md. Hasive Ahmad, **Syed Farid Uddin Farhad**, and Muhammad Rakibul Islam, 'Significantly improved dielectric performance of bio-inspired gelatin/single-walled carbon nanotube nanocomposite', **Journal of Applied Physics** (SCI & Scopus Index Q2 Journal, **IF: 2.546**), DOI: <https://doi.org/10.1063/5.0077896>
2. Tarek Hasan, Esrat Jahan, **Khondoker Shahin Ahmed**, **Hemayet Hossain**, Syed Mumtahir Mannan Siam, Nusrat Nahid, Tanoy Mazumder, Md. Sadikur Rahman Shuvo, A F M Shahid Ud Daula, 'Rutin hydrate and extract from *Castanopsis tribuloides* reduces pyrexia via inhibiting microsomal prostaglandin E synthase-1', *Biomedicine & Pharmacotherapy*, Elsevier (SCI and Scopus Index Q1 Journal, **IF: 6.52**), DOI: <https://doi.org/10.1016/j.biopha.2022.112774> **Full-text Required**
3. Quazi Md. Mosaddeque Hossen, S. M. Badier Rahman, Md. Nazibur Rahman, Muhammad Delwar Hossain Sarker, Md. Moniruzzaman, Md. Zablul Tareq, Md. Abu Sadat, **Kazi Md. Yasin Arafat**, **Md. Sarwar Jahan** & Md. Samiul Haque, 'Development of early flowering, short life-spanned jute (*Corchorus* spp.) mutant via ethyl methane sulfonate mutagenesis', *Journal of Crop Science and Biotechnology*, Springer (Scopus Index), DOI: [DOIhttps://doi.org/10.1007/s12892-022-00146-4](https://doi.org/10.1007/s12892-022-00146-4)
4. Md. Monirul Islam, Tarun Kumar Pal, Subrata Paul, **Md. Najem Uddin**, Md. Chanmiya Sheikh, Md. Ashraful Alam, Jewel Hossen, 'Computational, Hirshfeld surface, and molecular docking analysis of 2-(((4-methoxyphenyl) imino)methyl)-4-nitrophenol: In-vitro anticancer, antimicrobial, anti-inflammatory, and antioxidant studies', *Results in Chemistry*, Elsevier (Scopus Index), DOI: <https://doi.org/10.1016/j.rechem.2022.100331> **Full-text Required**

**Chattogram Labs: 1**

5. Muhammad Shaiful Alam, Md. Sohorab Uddin, Tahmida Shamsuddin, Maruf Rubayed, **Tania Sharmin**, **Rasheda Akter** & **S. M. Zahid Hosen**, 'Repurposing of existing antibiotics for the treatment of diabetes mellitus', *In Silico Pharmacology*, Springer (SCIE & Scopus Index Q2 Journal), DOI: <https://doi.org/10.1007/s40203-021-00118-6>

#### IFRD: 4

6. **Ajoy Kanti Mondal**, Dezhong Xu, Shuai Wu, Qiuxia Zou, Weijie Lin, Fang Huang, Yonghao Ni, 'High lignin containing hydrogels with excellent conducting, self-healing, antibacterial, dye adsorbing, sensing, moist-induced power generating and supercapacitance properties', *International Journal of Biological Macromolecules*, Elsevier (SCIE & Scopus Index Q1 Journal, **IF: 6.95**), DOI: <https://doi.org/10.1016/j.ijbiomac.2022.02.144> **Full-text Required**
7. Digafe Alemu, Mesfin Tafesse, and **Ajoy Kanti Mondal**, 'Mycelium-Based Composite: The Future Sustainable Biomaterial', *International Journal of Biological Macromolecules*, (Scopus Index), DOI: <https://doi.org/10.1155/2022/8401528>
8. **Munira Sultana**, Mohammad Jellur Rahman & **M. Shahariar Bashar**, 'Size Distribution of Hexagonal Prismatic-Shaped ZnO Nanorods Synthesized by Microwave-Assisted Irradiation of Precursors', *Journal of Electronic Materials*, Springer (SCI & Scopus Index Q2 Journal, IF: 1.938), DOI: <https://doi.org/10.1007/s11664-022-09496-9> **Full-text Required**
9. Samiya Mahjabin, Mohammad Ismail Hossain, Md. Mahfuzul Haque, **M. Shahariar Bashar**, **M. Shah Jamal**, Md. Shahiduzzaman, Ghulam Muhammad, Kamaruzzaman Sopian & Md. Akhtaruzzaman, 'Sputtered WOX thin film as the electron transport layer for efficient perovskite solar cells', *Applied Physics A*, Springer (SCIE & Scopus Index Q2 journal, IF: 2.583), DOI: <https://doi.org/10.1007/s00339-022-05500-5> **Full-text Required**

#### IFST: 3

10. **Md Nur Hossain**, Chaminda Senaka Ranadheera, Zhongxiang Fang, Said Ajlouni, 'Production of short chain fatty acids and vitamin B12 during the in-vitro digestion and fermentation of probiotic chocolate', *Food Bioscience*, Elsevier (SCIE & Scopus Index Q1 journal, **IF: 4.24**), DOI: <https://doi.org/10.1016/j.fbio.2022.101682> **Full-text Required**
11. **G. M. M. Anwarul Hasan**, Anuj Kumer Das, and **Mohammed A. Satter**, 'Accumulation of Heavy Metals in Rice (*Oryza sativa*. L) Grains Cultivated in Three Major Industrial Areas of Bangladesh', *Journal of Environmental and Public Health*, (SCIE & Scopus Index, IF), DOI: <https://doi.org/10.1155/2022/1836597>
12. **G. M. M. Anwarul Hasan**, Anuj Kumer Das, **Mohammed A.Satter**, 'Multi residue analysis of organochlorine pesticides in fish, milk, egg and their feed by GC-MS/MS and their impact assessment on consumers health in Bangladesh', *NFS Journal*, Elsevier (Scopus Index Q2 Journal), DOI: <https://doi.org/10.1016/j.nfs.2022.03.003> **Full-text Required**

#### PP&PDC: 3

13. Saugata Sarker, Homayra Tabassum Mumu, Md.Al-Amin, Md. Zahangir Alam, **M.A.Gafur**, 'Impacts of inclusion of additives on physical, microstructural, and mechanical properties of Alumina and Zirconia toughened alumina (ZTA) ceramic composite: A review', *Material Today: Proceedings* (Scopus Index), DOI: <https://doi.org/10.1016/j.matpr.2022.02.481>
14. Md. Al-Amin, Homayra Tabassum Mumu, Saugata Sarker, Md. Zahangir Alam & **M. A. Gafur**, 'Effects of sintering temperature and zirconia content on the mechanical and microstructural properties of MgO, TiO<sub>2</sub> and CeO<sub>2</sub> doped alumina-zirconia (ZTA) ceramic', *Journal of the Korean Ceramic Society*, Springer (SCIE & Scopus index Q2 journal, IF: **1.674**), DOI: <https://doi.org/10.1007/s43207-022-00194-0>

15. S.Golder, M.R. Islam, R. Narayanan, S. Golder, **M.A. Gafur**, R.Pippia, S.K.Tyagi, 'Comparative study of thermal degradation kinetics of two woody biomass samples for bio-oil production', *Sustainable Energy Technologies and Assessments*, Elsevier (SCIE & Scopus index Q1 journal, IF: **5.353**), DOI <https://doi.org/10.1016/j.seta.2022.102158>

**INARS: 3**

16. Maliha Momotaj Himu, Sadia Afrin, **Md. Ahedul Akbor**, **Md. Abu Bakar Siddique**, Md. Khabir Uddin, Md. Mostafizur Rahman, 'Assessment of microplastics contamination on agricultural farmlands in central Bangladesh', *Case Studies in Chemical and Environmental Engineering*, 5, 100195. Elsevier (Scopus indexed), DOI: <https://doi.org/10.1016/j.cscee.2022.100195>
17. Suaad Nasrin, Mohammad Nazmul Islam, Mohammed Abu Tayab, Mst. Samima Nasrin, **Md. Abu Bakar Siddique**, Talha Bin Emran, A.S.M. Ali Reza, 'Chemical profiles and pharmacological insights of *Anisomeles indica* Kuntze: An experimental chemico-biological interaction" *Biomedicine & Pharmacotherapy*, Elsevier, (SCI & Scopus Index Q1 Journal, Impact Factor: **6.529**), DOI: <https://doi.org/10.1016/j.biopha.2022.112842>
18. Snygdha Rani Das, Md. Azizul Haque, **Md. Ahedul Akbor**, Md. Abdullah-Al-Mamun, Gautam Chandra Debnath, Md. Shohorab Hossain, Zoherul Hasan, Aminur Rahman, Md. Atikul Islam, Md. Al-Amin Hossain, Shamima Yesmin, Mst. Nur-E-Nazmun Nahar, Kye Man Cho, 'Organophosphorus insecticides mineralizing endophytic and rhizospheric soil bacterial consortium influence eggplant growth-promotion', *Archives of Microbiology*, Springer (SCI & Scopus Index Q2 Journal, IF: **2.553**), DOI: <https://doi.org/10.1007/s00203-022-02809-w> **Full-text Required**