

বিসিএসআইআর-এর পাবলিকেশন তালিকা: ২০২২

বর্তমানে বিসিএসআইআর-এ মোট ৩৭৮ জন বিজ্ঞানী এবং রিসার্চ ইঞ্জিনিয়ার কর্মরত রয়েছেন। ২০২২ সালে তাঁরা সম্মিলিতভাবে মোট ৯৩টির অধিক পিয়ার-রিভিউ সায়েন্টিফিক প্রবন্ধ, বুক চ্যাপ্টার এবং প্রসেডিংস পাবলিশ করেছেন যার মধ্যে ৮৭টি স্কোপাস ইনডেক্সডুক্ট প্রেস্টিজিয়াস জার্নাল। নিচে নির্বাচিত প্রকাশনার তালিকা (প্রকাশক, ইন্ডেক্সিং, ইমপ্যাক্ট ফ্যাক্টর সহ) দেওয়া রয়েছে।

Summary of Achievements: 2022

1. *Number of Patent = 1*
2. *Number of Process = 10*
3. *Number of Scopus Index Publication = 87*
4. *Average Impact factor (IF) of the journal article= 2.46*
5. *Number of Peer-reviewed (Scopus and SCI, SCIE, ESCI & Addi. WoS Index) Publications = 93+*

Laboratory-wise publication information is listed below-

Selected Publication List: 88

Dhaka Lab: 16

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. Md Alauddin Hossain, **Syed Farid Uddin Farhad**, **Nazmul Islam Tanvir**, Jang Hyo Chang, Mohammad Atiqur Rahman, Tooru Tanaka, Qixin Guo, Jamal Uddin and Md Abdul Majed Patwary, ‘Facile synthesis of Cu₂O nanorods in the presence of NaCl by successive ionic layer adsorption and reaction method and its characterizations,’ Royal Society Open Science (SCIE & Scopus Index Q1 Journal, IF: 2.93), DOI: <https://doi.org/10.1098/rsos.211899>
3. Tarek Hasan, Esrat Jahan, **Khondoker Shahin Ahmed**, **Hemayet Hossain**, Syed Mumtahin 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>
4. 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: DOI<https://doi.org/10.1007/s12892-022-00146-4>
5. 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>

6. Hoque, Nazia, Farhana Afroz, Farjana Khatun, Satyajit R. Rony, Choudhury M. Hasan, Md. S. Rana, and Md. H. Sohrab. 2022. "Physicochemical, Pharmacokinetic and Cytotoxicity of the Compounds Isolated from an Endophyte *Fusarium oxysporum*: In Vitro and In Silico Approaches" *Toxins*, MDPI (SCIE & Scopus Index Q1 Journal, IF: 4.548), DOI: <https://doi.org/10.3390/toxins14030159>
7. M. Mostafizur Rahman, Esrat Jahan, Jannatun Nayem, Kazi M. Yasin Arafat, A. K. M. Golam Sarwar, M. Nashir Uddin, 'Evaluation of *Erythrina fusca*Lour. as a pulping raw material', *International Wood Products Journal*, Tylor & Francis (Scopus Index), DOI: <https://doi.org/10.1080/20426445.2022.2039983>
8. Mithun Saha, Pallabi Sikder, Aditi Saha, Sharha Shah, Sharmin Sultana, Tushar Emran, Ananna Banik, Zahidul Islam, Muhammad Saiful Islam, Shazid Md. Sharker & Hasan Mahmud Reza, 'QbD Approach towards Robust Design Space for Flutamide/PiperineSelf-Emulsifying Drug Delivery System with Reduced Liver Injury', *AAPS PharmSciTech*, Springer (SCIE & Scopus Index Q2 Journal, IF: 3.24), DOI: <https://doi.org/10.1208/s12249-022-02213-z>
9. Xiaoyu Mao, Y. Liu, Jin Zeng , Xiaohui Wang, Md. Monarul Islam, Ming Chen , Qing Chen, and Xing Feng, 'Synthesis and Photophysical Properties of Quinoxaline-Based Blue Aggregation-Induced Emission Molecules', *Canadian Journal of Chemistry*, (SCIE & Scopus Index, IF: 1.18), DOI: <https://doi.org/10.1139/cjc-2021-0267>
10. Ferdoushi Jahan, Afroza Akter Happy, 'Revolutionizing plant-based extracts for skin care and therapeutics', **Book Chapter:** Nanotechnology for the Preparation of Cosmetics Using Plant-Based Extracts, Micro and Nano Technologies, 2022, Pages 75-130, DOI: <https://doi.org/10.1016/B978-0-12-822967-5.00010-2>
11. Syed Farid Uddin Farhad, A.K.M. Hasibul Hoque; Nazmul Islam Tanvir; Suravi Islam; Mukul Hossain; Md Zunaid Baten, 'Enhanced and Tunable Absorption Characteristics of Au-nanoparticle Loaded ZnO Nanorods Grown by Hydrothermal Technique', *ICTP*, IEEE Xplore (Scopus Index), DOI: [10.1109/ICTP53732.2021.9744192](https://doi.org/10.1109/ICTP53732.2021.9744192)
12. M. H. A. Begum, A. S. M. A. Rahman, M. R. Molla & M. A. Rahman, 'Preparation and characterization of activated carbon from paper mill sludge by chemical activation: a waste management approach', *International Journal of Environmental Science and Technology*, Springer (SCIE & Scopus Index Q2 Journal, IF: 2.86), DOI: <https://doi.org/10.1007/s13762-022-04169-w>
13. Bikash Dev Nath, Md. Monarul Islam, Md. Rezaul Karim, Shofiqur Rahman, Dr. Md. Aftab Ali Shaikh, Paris E. Georghiou, Melita Menelaou, 'Recent Progress in Metal-Incorporated Acyclic Schiff-Base Derivatives: Biological Aspects', *ChemistrySelect*, (SCIE & Scopus Index Q2 Journal, IF: 2.109), DOI: <https://doi.org/10.1002/slct.202104290>
14. Md. Mohiuddin, Mohammad Belal Hossain, Mir Mohammad Ali, Md. Kamal Hossain, Ahasan Habib, Sanjida Afrin Semme, Md. Refat Jahan Rakib, Md. Asrafur Rahman, Jimmy Yub Mohammad Khalid Al-Sadoon, Aneela Gulnazg, Takaomi Arai, 'Human health risk assessment for exposure to heavy metals in finfish and shellfish from a tropical estuary', *Journal of King Saud University - Science*, Elsevier (SCIE & Scopus Index Q1 Journal, IF: 4.01), DOI: <https://doi.org/10.1016/j.jksus.2022.102035>
15. Fatema-Tuz-Zohora, Rumana Mahtarin, Md Ackas Ali, Mohammad Johirul Islam, Md. Hossain Sohrab, Choudhury Mahmood Hasan, Monira Ahsan, 'Cytotoxicity, Antioxidant Activity, Molecular Docking, and Dynamics Simulation Analysis Against SARS-CoV-2 M and N Protein Models of Phytoconstituents of *Micromelum Minutum*', *Biointerface Research in Applied Chemistry* (Scopus Index), DOI: <https://doi.org/10.33263/BRIAC131.006>

16. Subrata Paul, Md. Ashraful Alam, Tarun Kumar Pal, Md. Najem Uddin, Md. Monirul Islam, Md. Chanmiya Sheikh, 'Quantum computational, spectroscopic investigation, molecular docking, and in vitro pharmacological studies of sulfonamide Schiff base', Journal of Molecular Structure, Elsevier (SCI & Scopus Index Q1 Journal, IF: 3.196), DOI: <https://doi.org/10.1016/j.molstruc.2022.133084>

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17. Mahfuzur Rahman, Sabrina Akhter Rima, Subrota Kumar Saha, Jerin Saima, Md. Sabbir Hossain, Tamisra Nath Tanni, **Muhammad Abu Bakar**, Mohammad Abdul Momin Siddique, 'Pollution evaluation and health risk assessment of heavy metals in the surface water of a remote island Nijhum Dweep, northern Bay of Bengal', Environmental Nanotechnology, Monitoring & Management, Elsevier (Scopus Index Q1 Journal), DOI: <https://doi.org/10.1016/j.enmmm.2022.100706>
18. Kiyomi Nakagawa, Saiful Islam, Masashi Ueda, and Toshiyuki Nakagawa, "Endoplasmic reticulum stress contributes to the decline in doublecortin expression in the immature neurons of mice with long-term obesity," Scientific Reports, (SCIE & Scopus Index Q1 Journal, IF: 4.389), DOI: <https://www.nature.com/articles/s41598-022-05012-5>
19. 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>
20. Morshed Hossan Molla, Mohammad Abu Taiyeb Chowdhury, **Md. Habibur Rahman Bhuiyan, Suman Das, A. J. M. Morshed, Jewel Das, Saiful Islam**, 'Seasonal variation of drinking water quality in urban water bodies (UWBs) of Chittagong Metropolitan City, Bangladesh: implications of higher water quality index (WQI) for the urban environment', Water Supply (SCIE & Scopus Index Journal, IF: 1.275), DOI: <https://doi.org/10.2166/ws.2022.151>

Rajshahi Lab: 5

21. Lailatul Ferdousi, Nahid Sultana, Ummey Hafsa Bithi, Sharmin Akter Lisa, Md. Rakibul Hasan, Md. Abu Bakar Siddique*. "Nutrient Profile of Wild Black Soldier Fly (*Hermetia illucens*) Pre pupae Reared on Municipal Dustbin's Organic Waste Substrate" Proceedings of the National Academy of Sciences, India Section B: Biological Sciences, Springer Nature (Scopus Index Q2 Journal), DOI: <https://doi.org/10.1007/s40011-021-01340-0>
22. Md. Sabbir Hasan, Jannat Al Foisal, G. M. Arifuzzaman Khan, Rownok Jahan, Md. Hasanuzzaman, Md. Shamsul Alam, M. Minnatul Karim, M. A. Gafur, Muhammad Angkan Khan & Md. Abdus Sabur, 'Microfibrillated Cellulose-Silver Nanocomposite Based PVA Hydrogels and Their Enhanced Physical, Mechanical and Antibacterial Properties', Journal of Polymers and the Environment, Springer (SCI & Scopus Index Q2 Journal, IF: 3.67), DOI: <https://doi.org/10.1007/s10924-022-02406-4>
23. Sha Tamanna Sahil, Anika Tabassum Promi, Md. Kaium Hossain, Nasim Ahmad, Md. Abdullah Al Muhit, Shaikat Chandra Dey & Md. Ashaduzzaman, 'Cow milk lactose inspired fabrication of zinc oxide (ZnO) nanorods for bio-applications', Inorganic and Nano-Metal Chemistry, Tylor & Francis (Scopus Index, IF: 1.712), DOI: [10.1080/24701556.2022.2034006](https://doi.org/10.1080/24701556.2022.2034006)

24. Obydur Rahman, Md. Mahmudur Rahman & Mohd Maniruzzaman, ‘Removal of dye and heavy metals from industrial wastewater by activated charcoal-banana rachis cellulose nanocrystal composites filter’, International Journal of Environmental Analytical Chemistry Tylor & Francis (SCIE & Scopus Index Q Journal, IF: 2.826), DOI: <https://doi.org/10.1080/03067319.2022.2039647>
25. Paroma Arefin, Md Shehan Habib, Nazim Uddin Ahmed, Md Abdur Rahim, Md Ibrahim, Sreebash Chandra Bhattacharjee, Dipankar Chakraborty, Sumon Das, Debabrata Karmakar, Dip Bhowmik, Shirmin Islam, Md Saidul Arefin, ‘Allergic Rhinitis And Importance Of Fexofenadine Hcl Sustained Release Microsphere As Its Treatment Approach’, International Journal of Applied Pharmaceutics, (Scopus Index), DOI: <https://doi.org/10.22159/ijap.2022v14i1.40369>

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26. Reaz M Mazumdar, M. Sharif, Tanjir Ahmed Khan, M. Mahfuzur Rahman, and Abu Tareque Mohammad Abdullah, ‘Simultaneous determination of nitrite and nitrate in meat and meat products using ion-exchange chromatography’, Food Research (Scopus Index Journal), DOI: [https://doi.org/10.26656/fr.2017.6\(3\).339](https://doi.org/10.26656/fr.2017.6(3).339)
27. Md. Nazim Uddin, Xiaosheng Wang, ‘Identification of breast cancer subtypes based on gene expression profiles in breast cancer stroma’, Clinical Breast Cancer, (SCIE & Scopus Index Q2 Journal, **IF: 3.22**), DOI: <https://doi.org/10.1016/j.clbc.2022.04.001>
28. 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>
29. 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>
30. 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>
31. Abu Tareq Mohammad Abdullah, Tanzir Ahmed Khan, Miskat Sharif, Reaz Mohammad Mazumdar, Mohammad Mahfuzur Rahman, ‘Determination of dietary exposure and extraction efficiency of nitrosamine from cooked meat’, Current Research in Food Science, Elsevier (Scopus Index), DOI: <https://doi.org/10.1016/j.crfs.2022.02.010>
32. Sadia Afrin, Barna Goswami, Saidur Rahman, Mohammad Nazrul Islam Bhuiyan, Kazi Asma Ahmed Shamima & Nemai Chandra Nandi, ‘Antimicrobial Potential of Coriandrum Sativum, Lactuca Sativa and Mentha Spicata against Antibiotic Resistant Microorganisms’, Journal of Herbs, Spices & Medicinal Plants, Tylor & Francis (Scopus Index), DOI: <https://doi.org/10.1080/10496475.2022.2040684>
33. Jie Wang, Md. Nazim Uddin, Qian Li, Alidan Aierken, Ming-Yuan Li, Rui Wang, Qian-zhi Yan, Dilare Adi, Ming-Tao Gai, and Yun Wu, ‘Identifying Potential Mitochondrial Proteome Signatures Associated with the Pathogenesis of Pulmonary Arterial Hypertension in the Rat Model’, Oxidative Medicine and Cellular Longevity (SCIE & Scopus Index Q Journal, IF: 6.54), DOI: <https://doi.org/10.1155/2022/8401924>

34. Md Nazim Uddin and Xiaosheng Wang, "Identification of key tumor stroma-associated transcriptional signatures correlated with survival prognosis and tumor progression in breast cancer," *Breast Cancer*, Springer (SCIE & Scopus Index Q1 Journal, IF: 4.23), DOI: <https://doi.org/10.1007/s12282-022-01332-6>
35. Monayem Hussain, Mohammad Amzad Hossain, Mohajira Begum, and Nirmal Chandra Roy, "Freshwater mussel (*Lamelliedens marginalis*) to reduce the lead (Pb) bioaccumulation in aquaculture of stinging catfish, *Heteropneustes fossilis*," *Journal of Applied Aquaculture*, Taylor & Francis (ESCI & Scopus Index Journal), DOI: <https://doi.org/10.1080/10454438.2021.2010630>

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36. M.M. Rahman, N.Hasan, Md. Azizul Hoque, M.B. Hossen, M. Arifuzzamane, 'Structural, dielectric, and electrical transport properties of Al³⁺ substituted nanocrystalline Ni-Cu spinel ferrites prepared through the sol-gel route, *Results in Physics*, Elsevier (SCIE & Scopus Index Q2 Journal, IF: 4.476), DOI: <https://doi.org/10.1016/j.rinp.2022.105610>
37. 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>
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40. Samiya Mahjabin, Mohammad Ismail Hossain, Md. Mahfuzul Haque, M. Shahriar Bashar, M. Shah Jamal, Md. Shahiduzzaman, Ghulam Muhammad, Kamaruzzaman Sopian & Md. Akhtaruzzaman, 'Sputtered WO_x 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>
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43. Mohammad Tanvir Ahmed, Shariful Islam, Muhammad Shahriar Bashar, Md. Abul Hossain, and Farid Ahmed, 'Synthesis and Characterizations of CH₃NH₃PbI₃: ZnS Microrods for Optoelectronic Applications, *Advances in Materials Science and Engineering* (SCIE & Scopus Index Q2 Journal, IF: 1.72), DOI: <https://doi.org/10.1155/2022/7606339>
44. Mohammad Tanvir Ahmed, Shariful Islam, Muhammad Shahriar Bashar, and Farid Ahmed, "One-Step Synthesis of (CH₃NH₃)₂CuCl₄: ZnS Thin Film for Optoelectronic Applications,"

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47. Mahfuzur Rahman, Razat Suvra Das, Md. Sadril Islam Khan, Md. Imam Sohel Hossain, Md. Ekamat Faruque, Najmus Sakib Khan, Mohammad Abdul Momin Siddique Textural characteristics of surficial sediments along the Noakhali coast, Bangladesh: An implication for mineral placer deposits exploration, Regional Studies in Marine Science, Elsevier (Scopus Index Q2 Journal, IF: 1.624), DOI: <https://doi.org/10.1016/j.rsma.2022.102304>.
48. Mahfuzur Rahman, Md. Sadril Islam Khan, Mohammad Sabbir Hossain, Md. Imam Shohel Hossain, Mahmudul Hasan, Hadi Hamli, M. Golam Mustafa, 'Groundwater Contamination and Health Risk Evaluation of Naturally Occurring Potential Toxic Metals of Hatiya Island, Bangladesh', Journal of Ecological Engineering (Scopus Index), DOI: <https://doi.org/10.12911/22998993/148192>
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50. ASM Mehedi Hasan, Ismail Hossain, Md Aminur Rahman, Mohammad Nazim Zaman, Pradip Kumar Biswas, and Md Sha Alam, "Chemistry and mineralogy of Zr-and Ti-rich minerals sourced from Cox's Bazar beach placer deposits, Bangladesh: Implication of resources processing and evaluation," Ore Geology Reviews, Elsevier (SCIE & Scopus Index Q1 Journal, IF: 3.809), DOI: <https://doi.org/10.1016/j.oregeorev.2021.104687>
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55. Eunuse Akon, Mohammad Zafrul Kabir, Mohammad Nazim Zaman, 'Placer Deposits of Bangladesh and Their Potential Commercialisation', Book Chapter, Bangladesh Geosciences and Resources Potential, Taylor & Francis, Link: <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003080817-8/>

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