

Publication List of Biomedical Engineering Department

JOURNAL:

1. Md Enamul Hoque et al. "Biomedically vibrant and cost-effective biocomposite bone plate–development and testing". 'Hybrid Advances' (Elsevier).
2. Md Enamul Hoque et al. "Effects of systemic challenges on agricultural development systems: a systematic review of perspectives". 'Cogent Food & Agriculture' (Taylor & Francis)
3. Md Asadur Rahnam et al. "Development of CNN-based Decision Support System for Lung Disease Diagnosis Using Chest Radiographs" AIP Advances
4. Md Asadur Rahnam et al "Lung-AttNet: An Attention Mechanism based CNN Architecture for Lung Cancer Detection with Federated Learning" IEEE Access
5. Md.Tobibul Islam et al. Metamaterial Wave Absorber using quasi-rectangular symmetric split ring resonators for harvesting energy in visible, UV-A, and UV-C regions. Heliyon
6. Md Enamul Hoque, Asif Mahmud Rayhan "Jute Fiber Reinforced Biocomposite: Towards Developing Composite Bone Plate" IOP Conference Series: Materials Science and Engineering.
7. Md Enamul Hoque et al. "Biochar in global carbon cycle: Towards sustainable development goals". Current Research in Green and Sustainable Chemistry. Elsevier
8. Md Enamul Hoque et al. "Unleashing the promise of emerging nanomaterials as a sustainable platform to mitigate antimicrobial resistance". RSC Advances.
9. Enock Siankwilimba, Chisoni Mumba, Bernard Mudenda Hang'ombe, Joshua Munkombwe, Jacqueline Hiddlestone-Mumford, Munyaradzi A. Dzvimbo & **Md Enamul Hoque** "Bioecosystems towards sustainable agricultural extension delivery: effects of various factors" Environment, Development and Sustainability
10. **Md Enamul Hoque**, Sadia Mannan Shanta, Rhythem Tahrin, Saem Chowdhury, Zarin Tasnim, Md Abdul Alim Shuvo, Shifat Al Hasnayeem Riham "A benign way of measuring hemoglobin in blood – Towards developing a non-invasive technique" Hybrid Advances
11. Adib Bin Rashid, **Md Enamul Hoque**, Nahiyana Kabir, Fahim Ferdin Rifat, Hasin Ishrak, Abdulrahman Alqahtani, Muhammad EH Chowdhury "Synthesis, Properties, Applications, and Future Prospective of Cellulose Nanocrystals"
12. **Md Enamul Hoque** et al. "Sustainability of agriculture extension services in the face of COVID-19: A study on gender-specific market systems"
13. Adib Bin Rashid, Shariful Islam Shishir, Md Azim Mahfuz, Md Tanvir Hossain, Md Enamul Hoque, **Md Enamul Hoque**. "Silica Aerogel: Synthesis, Characterization, Applications, and Recent Advancements"
14. **Md Enamul Hoque**, Shifat Al Hasnayeem Riham, Md Abdul Alim Shuvo. A cost effective prosthetic leg: Design and development"
15. Rubel Alam, Shah Alimuzzaman, Abdus Shahid, Fahmida-E- Karim, **Md Enamul Hoque**. "Collagen/Nigella Sativa/Chitosan Inscribed Electrospun Hybrid Bio-Nanocomposites for Skin Tissue Engineering"
16. Md Zillur Rahman, Maliha Rahman, Tariq Mahbub, Md Ashiquzzaman, Suresh Sagadevan, **Md Enamul Hoque**. "Advanced biopolymers for automobile and aviation engineering applications"

17. Huaizhong Xu, Shinichi Yagi, Sherry Ashour, Lei Du, **Md Enamul Hoque**, Lin Tan. “A Review on Current Nanofiber Technologies: Electrospinning, Centrifugal Spinning, and Electro-Centrifugal Spinning”
18. Adib Bin Rashid, Nazmir-Nur Showva, **Md Enamul Hoque**. “Gelatin-Based Scaffolds–An Intuitive Support Structure for Regenerative Therapy”
19. Shashank Shekhar, **Md Enamul Hoque**, Pramendra Kumar Bajpai, Habibul Islam, Bhasha Sharma. “Chemical upcycling of plastics as a solution to the plastic trash problem for an ideal, circular polymer economy and energy recovery. Environment, Development and Sustainability”
20. Faris M AL-Oqla, Mohammed Hayajneh, **Md Enamul Hoque**. “Structural Integrity and Performance of a Novel Chemically Treated Cellulosic Paper Corn/Polyester Sustainable Biocomposites”
21. **Md Enamul Hoque**, Mirajul Alam Sarker, Kiswa Arif, M. Azam Ali, Tarek El-Bialy “Antibacterial/Antiviral Face Masks: Processing, Characteristics, Challenges, and Sustainability” “MIJST”.
22. Md Rahatuzzaman, Minar Mahmud, Sazedur Rahman, **Md Enamul Hoque** “Design, fabrication, and characterization of 3D-printed ABS and PLA scaffolds potentially for tissue engineering” Results in Engineering
23. Md Rubel Alam, Md Abdus Shahid, Shah Alimuzzaman, Md Mehedi Hasan, **Md Enamul Hoque**. “Electrospun bio-nano hybrid scaffold from collagen, Nigella sativa, and chitosan for skin tissue engineering application”
24. Adib Bin Rashid, Abu Saleh Md Nakib Uddin, Fahima Akter Azrin, Khondker Safin Kaosar Saad, **Md Enamul Hoque**. “3D bioprinting in the era of 4th industrial revolution–insights, advanced applications, and future prospects”
25. **Md Enamul Hoque**, Sadia Mannan Shanta, Rhythem Tahrin, Saem Chowdhury, Zarin Tasnim, Md Abdul Alim Shuvo, Shifat Al Hasnayeem Riham. “A benign way of measuring hemoglobin in blood–Towards developing a non-invasive technique”
26. Palash Kumar Sarker, Hafizur Rahman, Kulsum Ara, Md. Shahidul Kabir, Shishir Kanti Pramanik, **Maruf Hasan**. “Prevalence of Multidrug-Resistant Salmonella in Raw Salad Vegetables in Dhaka Metropolitan Area” *MIST INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY*, 11(1), 51-57. [https://doi.org/10.47981/j.mijst.11\(01\)2023.396\(51-57\)](https://doi.org/10.47981/j.mijst.11(01)2023.396(51-57))
27. **Maruf Hasan** et al. “Construction of copy number variation landscape and characterization of associated genes in a Bangladeshi cohort of neurodevelopmental disorders” *Frontiers in genetics*, 14, 955631. <https://doi.org/10.3389/fgene.2023.955631>
28. Md Ashrafuzzaman, Rayesa Haque Rupanti, Nawrin Tasnim, Tasnuba Tabassum Mourin. “Handbook of Research on Consumer Behavioral Analytics in Metaverse and the Adoption of a Virtual World”
29. Sakib Abrar Hossain, **Md Asadur Rahman**, Amitabha Chakrabarty, Mohd Abdur Rashid, Anna Kuwana and Haruo Kobayashi. “Emotional State Classification from MUSIC-Based Features of Multichannel EEG Signals”
30. M. M. H. Milu, **Md Asadur Rahman**, M. A. Rashid, A. Kuwana, and H. Kobayashi. “Improvement of Classification Accuracy of Four-Class Voluntary-Imagery fNIRS Signals using Convolutional Neural Networks”

31. Md Rayhan Sarker Bipul, **Md Asadur Rahman**, Md Faisal Hossain “Study on different brain activation rearrangement during cognitive workload from ERD/ERS and coherence analysis”
32. **J. Ahmed, F. Hakim and M. A. Rahman**, “Multi-Stage Medical Image Encryption System Combining RSA and Steganography” -accepted in *International Journal of Image, Graphics and Signal Processing (IJIGSP)*
33. Faris Mohammed AL-Oqla, Mohammed Hassouna Alaaeddin, **Md Enamul Hoque**, & Vijay Kumar Thakur “Biopolymers and Biomimetic Materials in Medical and Electronic-Related Applications for Environment–Health–Development Nexus: Systematic Review”. *Journal of Bionic Engineering*
34. Adib Bin Rashid, Nazmir-Nur Showva, **Md Enamul Hoque** “Gelatin based scaffolds for tissue engineering-a review” *Current Opinion in Biomedical Engineering*
35. Md. Rubel Alam, Shah Alimuzzaman, Md. Abdus Shahid, **Md Enamul Hoque** “Collagen/Chitosan/Nigella Sativa Inscribed Electrospun Hybrid Bio-Nanocomposite for Skin Tissue Engineering” *Journal of Biomaterials Science: Polymer Edition*
36. Rahman S.M.A, Salah Issa, Mamdouh El Haj Assad, Sheikh Khaleduzzaman Shah, Mohammad Ali Abdelkareem, **Md Enamul Hoque**, & A.G. Olabi “Performance enhancement and life cycle analysis of a novel solar HVAC system using underground water and energy recovery technique” *Thermal Science and Engineering Progress*
37. Balaji Ayyanar Chinnapan, Marimuthu Krishnaswamy, Huaizhong Xu, **Md Enamul Hoque**. “Electrospinning Techniques, Effects of Process Parameters, and Their Applications”. *Polymers*
38. Sankar Rajan, K. Marimuthu, C. Balaji Ayyanar, **Md Enamul Hoque** “Development and in-vitro characterization of HAP blended PVA/PEG bio-membrane” *Journal of Materials Research and Technology*
39. Md Zillur Rahman, **Md Enamul Hoque**, Md Rubel Alam, Md Abdur Rouf, **Saiful Islam Khan**, Huaizhong Xu, and Seeram Ramakrishna “Face Masks to Combat Coronavirus (COVID-19)—Processing, Roles, Requirements, Efficacy, Risk and Sustainability” *Polymers*
40. Balaji Ayyanar Chinnappan, Marimuthu Krishnaswamy, Mugilan Thanigachalam, Huaizhong Xu, Saiful Islam Khan, **Md Enamul Hoque** “Fabrication, Characterization and In Vitro Assessment of *Laevistrombus canarium*-Derived Hydroxyapatite Particulate-Filled Polymer Composite for Implant Applications”. *Polymers*
41. Enock Siankwilimba, Jacqueline Hiddlestone-Mumford, Bernard Hang’ombe Mudenda, Chisoni Mumba, **Md Enamul Hoque**. “COVID-19 and the Sustainability of Agricultural Extension Models”. *International Journal of Applied Chemical and Biological Sciences*
42. “Chinnappan, B. A., Krishnaswamy, M., Thanigachalam, M., Xu, H., **Saiful Islam Khan, & Hoque, M. E.** “Fabrication, Characterization and In Vitro Assessment of *Laevistrombus canarium*-Derived Hydroxyapatite Particulate-Filled Polymer Composite for Implant Applications”. *Polymers*
43. Niaz Mahmud, Muzahidul I. Animulk, M. Khalid Hossain*, Md Ishak Khan, Shihab Uddin, **Md. Ashrafuzzaman** and Md Mushfiqur Rahaman “Advances in Nanomaterial-Based Platforms to Combat COVID-19: Diagnostics, Preventions, Therapeutics, and Vaccine Developments” *ACS Applied Bio Materials*
44. **Sadman Rahman Sadid**, Mohammed S Kabir, Samreen T Mahmud, Md Saiful Islam, AHM Waliul Islam, M Tarik Arafat. “Segmenting 3D geometry of left coronary artery from coronary CT angiography using deep learning for hemodynamic evaluation.” *IOP Publishing*
45. **Aishwariya Dutta**, Md. Kamrul Hasan, Mohiuddin Ahmad, Md. Abdul Awal, Md. Akhtarul Islam, Mehedi Masud, and Hossam Meshref. “Early Prediction of Diabetes Using an Ensemble of Machine Learning Models.” *International Journal of Environmental Research and Public Health, MDPI*
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Composites: Processing, *Properties and Biomedical Applications*, Applied Science and Engineering Progress, vol. 14, no. 4, pp. 689-718, 2021.

64. Tawsifur Rahman, Amith Khandakar, **Md Enamul Hoque**, Nabil Ibtehaz, et. al., "Development and Validation of an Early Scoring System for Prediction of Disease Severity in COVID-19 using Complete Blood Count Parameters," *IEEE Access*, vol. 9, pp. 120422- 120441, 2021.
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65. **Md. Asadur Rahman**, Anika Anjum, Md. Mahmudul Haque Milu, Farzana Khanam, Mohammad Shorif Uddin, Md. Nurunnabi Mollah, “Emotion recognition from EEG-based relative power spectral topography using convolutional neural network,” *Array*, vol. 11, 2021. doi: 10.1016/j.array.2021.100072
66. **Md. Asadur Rahman**, Mohd Abdur Rashid, Mohiuddin Ahmad, Anna Kuwana, and Haruo Kobayashi, “Modeling and classification of voluntary and imagery movements from the prefrontal fNIRS signals,” *IEEE Access*, vol. 8, pp. 218215-218233, 2020. doi: 10.1109/ACCESS.2020.3042249
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7. **Md Enamul Hoque**, Md Abdul Alim Shuvo, Shifat Al Hasnayeem Riham “Design and Development of a Cost-Effective Prosthetic Leg” 4th IEEE Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability 2022 (IEEE ECBIOS 2022), 27-29 May, 2022, Tainan, Taiwan
8. **Md Enamul Hoque, Mirazul Alam Sarker** “Electrospun r-PET/CNT nanofibrous Mat–Towards Development of Antibacterial Face Mask” 6th Virtual Edition of Polymers, Plastics and Composites (Virtual Polymers-2022), London, UK
9. **Md Enamul Hoque, Mirazul Alam Sarker**, Md. Rubel Alam, Md. Kabir Hossain, Md. Abdul Gafur “Fabrication and characterization of CNT-integrated nanofibrous membrane for developing an antibacterial face mask” 6th Virtual Edition of Polymers, Plastics and Composites (Virtual Polymers-2022) Dhaka, Bangladesh
10. C Balaji Ayyanar, K Marimuthu, B Gayathri, C Bharathiraj, **Md Enamul Hoque**, “Characterization and In-vitro Investigation of Natural Plant Extracts Blended PVA Biomembrane for Wound-Dressing.” International Online Conference on Nano Materials (ICN 2022), 12-14 August 2022, Kerala, India
11. **Md Enamul Hoque**, Asif Mahmud Rayhan “Jute Fiber Reinforced Biocomposite: Towards Developing Composite Bone Plate” 2nd International Conference on Mechanical Engineering and Applied Sciences, 2022 (ICMEAS 2022), Dhaka, Bangladesh
12. **Md Enamul Hoque, (Invited Speaker)**, Mirajul Islam Sarker “Electrospun r-PET/CNT nanofibrous Mat–Towards Development of Antibacterial Face Mask” 6th Virtual Edition of Polymers, Plastics and Composites (Virtual Polymers-2022), London, UK
13. **Md Enamul Hoque**, Mirajul Alam Sarker, Md. Rubel Alam, Md. Kabir Hossain, Md. Abdul Gafur

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14. **Md Enamul Hoque, (Invited Speaker)**, Md Rubel Alam. “Face Mask Against COVID-19 – Roles, Requirements, Efficacy and Sustainability” Pathogens Research eConference (Pathogens-eCon2022), Tokyo, Japan
15. Syeda Omia Ahalam Md. Sharjis Ibne Wadud Farhan Ishtiaque, **Sadman Rahman Sadid**, Mohammed Shihab Kabir. “IoT-Based Low-cost Remote Patient Monitoring and Management system with Deep Learning-Based Arrhythmia and Pneumonia detection.” 2021, IEEE 4th International Conference on Computing, Power and Communication Technologies
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