

**Research  
Publication**  
2018-2019

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UNIVERSITY OF ASIA PACIFIC

**PUBLISHER**

Institute of Energy, Environment, Research and Development (IEERD)

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September 2019

## Foreword Message from Director



Office of the Institute of Energy, Environment, Research and Development (**IEERD**) is very happy to publish “UAP Research Publications: 2018-2019” that compiles the publications authored by the faculty members of UAP. During the financial year 2018-19 the faculty members have been highly productive in pursuit of knowledge. They have published 103 papers in peer-reviewed journals and presented 82 papers in academic conferences – 28 in national and 54 in international conferences. In addition, they have contributed 07 book chapters. Peer reviewed journal papers, conference papers, and book chapters that were considered to have met the scientific standard are included in the count. No Newspaper/Magazine articles were considered for inclusion in this publication.

Knowledge generation through innovative research is one of the main tasks of a university and universities/governments around the world are committed to promote a sustainable research culture in their campuses under the leadership of their own faculty members. In most universities worldwide research is not an option but a requirement. To measure the impact of a university, research publications per faculty and citations per faculty are always used as two most important indicators. The weight given to these two indicators combined is around 20- 40% in the three major universities ranking at this moment namely, Times Higher Education Ranking (THE), Academic Ranking of World Universities (ARWU) and QS World University Ranking.

To improve quality research publications, citations and university ranking, IEERD UAP is focusing to promote and facilitate the research conducted by our faculty members through IEERD internal research grant, travel grant, funding for conference attendance, and publication charge. In general, 150,000 taka is allocated for each faculty members of UAP for conference attendance, travel cost and publication charge subject to meeting the relevant criteria.

IEERD invites applications for research project funding two times a year. IEERD Internal Research Grant provides funding to full time regular faculty members of UAP for quality research projects. IEERD strongly encourages research proposals contained with newness/novelty in the proposed areas of research and methodology that will produce innovative research outcomes publishable in reputed journals/books that are enlisted in acknowledged indices (such as ISI Web of Sciences and Scopus) and presentable in national and international forums. Early and mid-career faculty members are especially encouraged to consider applying for research funding.

I do hope “UAP Research Publications:2018-2019” will help the readers to know about the diverse fields of innovative research conducted at UAP and also encourage young faculty members and students to concentrate more on knowledge generation that can help to solve the countless problems faced by the human and ecosystem. IEERD UAP is committed to support the knowledge generation at UAP through its various activities.

Professor Muhammad Mizanur Rahaman

Director, IEERD

## Department of Architecture

### Publications of the Faculty Members

#### A. Peer-reviewed Journal Papers

Chowdhury, F.K., Islam, Z., Shafinaz, S. & **Tasnim**, A. A. (2018), Vulnerability or Capability: A review on gender dimension of disasters, *SUB Journal of Sustainable Environment and Development*, (3): 49-67.

Islam, Z, I., Shafinaz, S. & **Tasnim**, A. A. (2018). Water logging risks in Dhaka city: an overview and the way forward. *Journal of State University of Bangladesh*, 8(1/2), 27-36.

**Islam**, Z.H., (2018), Changes in Shared Spaces for Social Interaction: A Socio-Temporal Evaluation of Real Estate Apartments in Dhanmondi, Dhaka, *Protibesh, BUET*, 16(1): 18-33.

#### B. Conference Papers

**Adnan**, E.R. & Islam, T. (2018). Late colonial period merchant houses at Birulia: A study on architectural features. In Samarawickrama, S. et al (Eds.) *Proceedings of the 11th International Conference of Faculty of Architecture Research Unit* (pp. 316-324). Galle, Sri Lanka: University of Moratuwa.

**Adnan**, E.R, Kuthanazhi, A., Sehgal, A., Patel, N, Wadhawan, V (2017), 'Khalkotha', In: Biswas, S., Tewari, S. (Eds), *Proceedings of The Workshop 'Blue Lines of Kolkata'*, pp. 84-87 June, 2017, Kolkata, India

Lubabah, S., **Barua**, S. & Roy, S. (2018). Railway transference urbanism: railway station as a potential socio-economic urban component. *Proceedings of the 6th International Urban Design Conference on 'Cities, People & Places' - ICCPP-2018* (pp 133-148). Sri Lanka: University of Moratuwa.

#### C. Peer-reviewed book chapter

**Ahmed**, A. S. M. (2018). A scientific conservation plan for Nimtali Dewari and courses of action of its implementation. In Ahmed, S.U. (Ed.) *Conservation of Nimtali Deuri: A Historical and An Architectural Study* (pp. 41-83). Dhaka: Asiatic Society of Bangladesh.

## Department of Basic Sciences and Humanities

### Publications of Faculty Members

#### Peer-reviewed Journal Papers

**Mahmud**, M. S. (2019). Variation of Magnetization  $M(0)$  and Curie Temperature  $T_c$  with Cr Concentration for the  $\text{Fe}_{73.5-x}\text{Cr}_x\text{Cu}_1\text{Nb}_3\text{Si}_{13.5}\text{B}_9$  with  $x = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12.5, 15$  &  $17.5$  Alloys. *International Journal of Materials Science*, 14(1), 11-15.

**Mahmud**, M. S. (2018). Determination of Curie Temperature of Cr-substituted Fe based amorphous  $\text{Fe}_{73.5-x}\text{Cr}_x\text{Cu}_1\text{Nb}_3\text{Si}_{13.5}\text{B}_9$  ( $x=10, 12.5, 15$  &  $17.5$ ) Alloys Using the ABK (Arrot-Belov-Kouvel) plot Method. *International Journal of Advanced Materials Science*, 9(1), 1-6.

Mamun, A. A., Arifuzzaman, S.M., **Reza-E-Rabbi**, S., Biswas, P. & Khan, M. S., (2018). Numerical Investigation of Boundary-layer Flow of Sisko Nanofluids Through a Nonlinear Stretching Sheet with MHD and Thermal Radiation Effects. *International Journal of Heat and Technology*, 37(1), 285-295.

**Nahar**, S., Akther, S. & Alim, M. A. (2018). Statistical Averaging Method and New Statistical Averaging Method for Solving Extreme Point Multi-Objective Linear Programming Problem, *Mathematics Letters*, 4(3), 44-50.

**Paul**, S. K. (2018). Higher(U,M)-Derivatives in Completely Semi Prime-Rings. *Journal of Pure and Applied Science and Technology*, 8(2), 1-8.

**Paul**, S. K. (2018). MHD free convection heat and mass transfer flow over a vertical porous plate in a rotating system with hall current heat source. *International Journal of Advance in Applied Mathematics and Mechanics*, 6(1), 49-64.

Sarkar, T., Arifuzzaman, S.M., **Reza-E-Rabbi**, Sk., Khan, M.S., Ahmed, R. & Ahmmed, S. F., (2018). Unsteady Magnetohydrodynamic Casson Nanofluid Flow Through a Moving Cylinder with Brownian and Thermophoresis Effects. *Annales de Chimie: Science Des Materiaux*, 42(2), 181-207.

## Department of Business Administration

### Publications of Faculty Members

#### A. Peer-reviewed Journal Papers

**Ahmed, S., Dash, P., Mahmud, I. & Sahel, S.** (2019). An empirical study on the antecedents of shopping experience in Bangladeshi malls: A Structural Equation Modeling Approach. *Journal of Business & Retail Management Research*, 14(1), 11-22.

**Chowdhury, M. & Rahman, S.** (2018). Intellectual Capital Efficiency and Market Performance: A Bangladeshi Apparel Industry Perspective. *Journal of Information and Knowledge Management*, 8(3), 26-36.

**Haque, M. & Islam, R.** (2018). Impact of supply chain collaboration and knowledge sharing on organizational outcomes in pharmaceutical industry of Bangladesh. *Journal of Global Operations and Strategic Sourcing*, 11(3), 301-320.

**Islam, M. & Palas, M.** (2018). Impact of Micro Health Insurance on the Well-being of Underprivileged Groups in Bangladesh. *Dhaka University Journal of Business Studies*, 39(2), 151-169.

**Mahmud, I.** (2019). Optimal Portfolio Construction: Application of Sharpe's Single-Index Model on Dhaka Stock Exchange. *JEMA: Jurnal Ilmiah Bidang Akuntansi dan Manajemen*, 16(1), 60-92.

**Rahman, S., Das, B. & Farah, T.** (2018). Identifying Spillover Effect & Bubble in Bangladeshi Asset Markets: An Analysis of Stock Market and Real Estate. *International Journal of Economics and Financial Issues*, 8(6), 76-83.

**Rakiv, M.** (2019). Firm- Specific Characteristics and Voluntary Disclosure Reporting: An Empirical

Research on Listed Companies of Bangladesh. *Journal of Accounting, Finance and Auditing Studies*, 5(1), 298-317.

**Samira, S., Tasmia, A. & Barnali, N.** (2018). Factors affecting the selection of an E-commerce website in Bangladesh: E-tailers' perspective. *Journal of International Review of Management and Marketing*, 8(4), 1-6.

**Siddiqi, T., Sahel, S. & Mahmud, I.** (2018). CRM dimensions affecting customer satisfaction in Bangladeshi banking industry: A structural equation modeling approach. *European Journal of Business & Management*, 10(8), 11-22.

**Uddin, M. M. & Sayeed, S. B.** (2018). Impact of Top Management Support on entrepreneurial behaviour of employees and their intentions to network ties: A study on selected private firms of Bangladesh. *Journal of Business Studies, Bureau of Business Research, Dhaka University*, 39(1), 127-147.

**Uddin, M., M. & Sayeed, S. B.** (2018). Drivers of Technological Change through Innovation and its impact on Business Environment: A historical perspective. *Dhaka University Journal of Management*, 12(1), 71-83.

#### B. Conference Paper

**Haque, M., Elahi, F. & Rahman, M.** (2019). Impact of Quality Dimensions on Faculty Satisfaction: Mediating Role of Performance of Higher Educational Institutions (HEIs). *Conference on Interdisciplinary Business & Economics Research*, 9-10, June 2019, Bangkok, Thailand.

## Department of Civil Engineering

### Publications of Faculty Members

#### A. Peer-reviewed Journal Papers

**Alam**, M. A. & Al-Riyami, K. (2018). Shear strengthening of reinforced concrete beam using natural fibre reinforced polymer laminates. *Construction and Building Materials*, 162, 683–696.

**Alam**, M. A., Suliman A. Bakkar, Shahnawaz A. Onik, & Kamal N. Mustapha (2018). Embedded Connector in Severe Optimization of Steel Plate for Shear Strengthening of RC Beam: Experimental and Numerical Investigations. *Advances in Civil Engineering*, Article ID 4721431, 12 pages. DOI: 10.1155/2018/4721431

Bavandpour, F., Zou, Y., He, Y., **Saeed**, T., Sun, Y. & Sun, G. (2018). Removal of dissolved metals in wetland columns filled with shell grits and plant biomass. *Chemical Engineering Journal*, 331, 234-241.

Hadiuzzaman, M., Farazi, N., Hossain, S., Barua, S. & **Rahman**, F. (2019). Structural Equation Approach to Investigate Trip-Chaining and Mode Choice Relationships in the Context of Developing Countries. *Transportation Planning and Technology*, 42(4), 391-415.

**Hasan**, M. M., Basak, K. & Kazi Rayhan (2018). Roadside urination and public sanitation facilities in Dhaka, Bangladesh. *Journal of Advanced Civil Engineering Practice and Research*, 7, 9-17.

**Hasan**, M. M., **Saeed**, T. & Nakajima, J. (2019). Integrated simple ceramic filter and waste stabilization pond for domestic wastewater treatment. *Environmental Technology & Innovation*, 14, 100319. DOI: 10.1016/j.eti.2019.100319.

Hossain, M.A., Miah, M. S., **Miah**, M. J. & Hossain, M.M. (2019). Performance evaluation of a newly developed translational tuned mass damper. *International Journal of Structural and Civil Engineering Research*, 8(2), 94-100.

Islam, M. S., **Ahmed**, S. J. & Alam, F.M. (2019). The

failure bond force of untreated and epoxy-treated reinforcement: An analytical study. *Construction and Building Materials*, 201, 81–89.

Islam, M. S. & **Ahmed**, S. J. (2018). Influence of jute fiber on concrete properties. *Construction and Building Materials*, 189, 768-776.

**Miah**, M. J., Kallel, H., Carré, H., Pimienta, P. & La Borderie, C. (2019). The effect of compressive loading on the residual gas permeability of concrete. *Construction and Building Materials*, 217 (2019), 12–19. DOI: 10.1016/j.conbuildmat.2019.05.057.

Miah, M.S., **Miah**, M. J., Hossain, M.M. & Faisal, M.F.A (2019). Nonlinear seismic response evaluation of gradually damaged steel shear frames. *International Journal of Structural and Civil Engineering Research*, 8(1), 34-39.

Miah, M. S., **Miah**, M. J., Hossain, M. M. & Paul, S.C. (2018). Nonlinear seismic response of flat plate systems made with ultra low strength concrete. *Global Science and Technology Journal*, 6(2), 35-46.

**Noor**, S.T., Islam, S. & Reza, S. M. S. (2019). SPT Based Soil Liquefaction Susceptibility Assessment: A Review. *Journal of Environmental Treatment Techniques*, 7(3), 295-299.

Quddus, M., **Rahman**, F., Monsuur, F., Ona, J. & Enoch, M. Analyzing Bus Passengers' Satisfaction in Dhaka using Discrete Choice Models. *Transportation Research Record*, 2673(2), 758-768. DOI: 10.1177/0361198119825846.

**Rahaman**, M. M. & Shehab, M. K. (2019). Water consumption, land use and cropping patterns of Rice, Wheat and Potato in South Asia during 1988-2012. *Sustainable Water Resources Management*, 1-18. DOI: 10.1007/s40899-019-00331-4.

**Rahaman**, M. M. & Shehab, M. K. (2018). Is the propensity of increasing the rice production a sustainable approach? Experiences from India, Pakistan, and Bangladesh. *Journal of Water*

*Resources Management*, 5(2),12-28.

Rahman, M.M. & **Rahaman**, M. M. (2018). Impacts of Farakka barrage on hydrological flow of Ganges river and environment in Bangladesh. *Sustainable Water Resources Management*, 4(4), 767-780. DOI: 10.1007/s40899-017-0163-y.

**Rahman**, F., Joewono, T. B. & Masum, S. A. (2018). Application of traffic calming Devices In developing Countries: Learning lesson from Bangladesh. *Journal of Transportation Technologies*, 8, 119-135.

Reza A., **Saqif**, M. A., Anzum S. & Aziz A. M. (2018). Review on Corrosive Behavior and Possible Protective Measures for Reinforcing Bars. *International Journal of Engineering & Technology*, 7 (3),154-159.

**Saeed**, T., Haque, I. & Khan, T. (2019). Organic matter and nutrients removal in hybrid constructed wetlands: Influence of saturation. *Chemical Engineering Journal*, 371 (1), 154-165.

**Saeed**, T. & Khan. T. (2019). Constructed wetlands for industrial wastewater treatment: Alternative media, input biodegradation ratio and unstable loading. *Journal of Environmental Chemical Engineering*, 7 (2), 103042. DOI: 10.1016/j.jece.2019.103042.

**Saeed**, T. Muntaha, S., Rashid, M., Sun, G. & Hasnat, A. (2018). Industrial wastewater treatment in constructed wetlands packed with construction materials and agricultural by-products. *Journal of Cleaner Production*, 189, 442-453.

**Saeed**, T. Yasmin, N., Sun, G. & Hasnat, A. (2019). The use of biochar and crushed mortar in treatment wetlands to enhance the removal of nutrients from sewage. *Environmental Science and Pollution Research*, 26, 586–599.

Wardi, S., **Saha**, N., Takahashi, S. & Sanada, Y. (2019). Pullout test of post-installed Anchors in low strength Concrete with brick chips Representing Bangladeshi Concrete. *AIJ Journal of Technology and Design*, 25(59), 199-204.

Xie, L., **Rahaman**, M. M. & Shen (2018). When Do Institutions Work? A Comparison of Two Water Disputes Over the Ganges, Brahmaputra and Meghna Rivers Basins. *Water Policy*, 20(2), 308-

322. DOI: 10.2166/wp.2017.149.

## B. Conference Papers

**Affah**, F., **Nasrin**, S. & Mukit, A. (2018). Vehicle Speed Estimation Using Image Processing. *7th International Conference on Applied Science and Engineering Application*, 8-9 December 2018, Sabah, Malaysia.

**Alam**, M. A., Hossain, N., Debnath, H. C., Ghosh, P. K. & Rahman M. M. (2019). Shear strengthening of damaged RC beam using externally bonded steel plate with embedded connector and steel bar. *2nd International Conference on Structural Engineering Research*, 19-22 January 2019, Dhaka, Bangladesh. ISBN: 978-0-6482681-2-3.

Alam, M. K., Hossain, S. & **Majed**, N. (2019). Exploring the variability pattern of temperature and rainfall in different regions of Bangladesh: A study ranging 20 years' span. *International Conference on Disaster Risk Management, BUET-JIDPUS*, 12-14 January 2019, Dhaka, Bangladesh.

Hasan, M. M., Islam, M. A., Das, P. & **Rahman**, F. (2018). Passengers' Perceived Service Quality of Public Transport in Dhaka City, Bangladesh. *4th International Conference on Advances in Civil Engineering*, 19 –21 December 2018, Chittagong University of Engineering and Technology, Chittagong, Bangladesh.

Hossain. A. B. M. I., **Chowdhury**, R.M., Newaz, A., & **Affah**, F. (2019). DRASTIC Based Vulnerability Assessment in Northwestern Part of Bangladesh. *International Conference on Engineering Research and Education School of Applied sciences & Technology*, 25-27 February 2019, Shahjalal University of Science and Technology, Sylhet, Bangladesh.

Islam, M. A. & **Rahman**, F (2018). Exploring Paratransit Service Quality Based on Low Income Women's Perception: A Case Study in Dhaka City. *4th International Conference on Advances in Civil Engineering*, 19 –21 December 2018, Chittagong University of Engineering and Technology, Chittagong, Bangladesh.

Khan MT., **Jahan**, I. & Amanat KM. (2018). Splitting tensile strength of natural aggregates, recycled aggregates and brick chips concrete. *Proceedings of the Institution of Civil Engineers - Construction*



*Materials*, ICE Virtual library. <https://doi.org/10.1680/jcoma.18.00049>.

**Majed**, N. & Chawdhury, M. R. I. (2018). The Story of Turag River: How Severe is the Pollution?. *ASCE World Environmental and Water Resources Congress, 3-7 June, 2018, Minneapolis, Minnesota, USA*.

Mia, M. R. & **Majed**, N. (2018). Municipal Solid Waste Management Practices in Dhaka City: An Evaluation based on Life Cycle Assessment. *4th International Conference on Advances in Civil Engineering*, 19-21 December 2018, Chittagong University of Engineering and Technology, Chittagong, Bangladesh.

**Miah**, M. J., Miah, M. S., Sultana, A., Shamim, T. A. & Alom, M. A. (2019). The Effect of Steel Slag Coarse Aggregate on the Mechanical and Durability Performances of Concrete. *10th International Conference on Material and Manufacturing Technology*, 26-28 April 2019, Kuala Lumpur, Malaysia.

Miah, M. S. & **Miah**, M. J. (2019). An Effective Retrofitting Scheme for Flat Slab Systems Made with Unconventional Type Concrete. *10th International Conference on Material and Manufacturing Technology*, 26-28 April 2019, University of Malaya, Kuala Lumpur, Malaysia.

**Miah**, M. J., Miah, M. S. & Patoary, M.M.H. (2019). Mechanical properties of concrete containing steel slag aggregate. *Proceedings of the 5th International Conference on Engineering Research, Innovation and Education* (pp. 58-63). Bangladesh: Shahjalal University of Science and Technology.

Miah, M.S., **Miah**, M. J. & Faisal, F.A. (2019). Seismic response evaluation of undamaged and partially damaged steel shear frames. *Proceedings of the 5th International Conference on Engineering Research, Innovation and Education* (pp. 64-70). Bangladesh: Shahjalal University of Science and Technology.

**Miah**, M. J., Miah, M. S. & Alam, W. B. (2018). Strengthening of reinforced concrete beams utilizing ferrocement: role of external loading positions. *Proceedings of the 4th International Conference on Advances in Civil Engineering* (pp. 490-495). Bangladesh: Chittagong University of

Engineering and Technology.

**Miah**, M. J. & Miah, M. S. (2018). Durability performance of fair-faced concrete. *Proceedings of the 4th International Conference on Advances in Civil Engineering* (pp. 496-501). Bangladesh: Chittagong University of Engineering and Technology.

**Miah**, M.J., Miah, M.S., Uddin, M.A. & Suzauddoula, M. (2018). Optimization of mechanical properties of high performance concrete made with fly ash and blast-furnace slag. *Proceedings of the 4th International Conference on Advances in Civil Engineering* (pp. 502-507). Bangladesh: Chittagong University of Engineering and Technology.

**Nasrin**, S. & **Affah**, F. (2019). Walkability assessment tool for a developing country. *IOP Conference Series: Materials Science and Engineering*, 527 (1), 012073. DOI:10.1088/1757-899X/527/1/012073.

**Noor**, S. T., Chowdhury, P. & Chowdhury, T. (2018). Immediate and long term effects of compaction on the stress-strain behaviour of soil. *IOP Conference Series: Earth and Environmental Science*, 143(1), 012014.

**Noor**, S. T., Rahman, S. R. & Nahar, S. (2018). Effect of in-situ disturbance within the soil mass on the stress-strain behaviour of silty soil. *IOP Conference Series: Earth and Environmental Science*, 143(1), 012035.

**Noor**, S. T., Islam, M.S. and Islam, M. A. (2018). Monitoring of strut force in excavation in bridge pier using vibrating wire strain gauge. *International Conference on Innovation, Science, Engineering and Technology*, 27-28 October 2018, International Islamic University, Chittagong, Bangladesh.

**Noor**, S. T., Islam, M. S., Mumtarin, M. and Chakraborty, N. (2018). Dynamic load test of full scale pile for the construction and rehabilitation of bridges. *IOP Conference Series: Materials Science and Engineering*, 513(2019), 012017.

**Rahaman**, M. M., Islam, A., Ador, F. J. & Biswas, A. K. (2019). Bangladesh Water Act (2013) and International Water Management Principles: An analysis. *Book of abstracts of the 7th International*

*Conference on Water and Flood Management* (pp. 107-108). Dhaka: Bangladesh Bangladesh University of Engineering and Technology.

**Rahaman, M. M. & Mamun, A. A.** (2019). Hydropower development along Teesta river basin: Opportunities for cooperation. In Rahman, M. M., Rahman, A., Badruzzaman, A. B. M., Ouarda, T. B. M. J. (Eds.) *Proceedings of the 2nd International Conference on Water and Environmental Engineering (iCWEE2019)* (pp. 58-69). Dhaka: Bangladesh University of Engineering and Technology.

**Rahman, F. Islam, M. A. U. & Hasan, M. M.** (2019). Exploring Passengers Perception of Ride Sharing Service on Dhaka City. *International Conference on Engineering Research and Practice*, 19-23 January 2019, Dhaka, Bangladesh.

Safayat, H. M., Bari, M. S. & **Rahaman, M. M.** (2019). Hydropower Development in South Asia: Benefits for Bangladesh. *CD proceedings of the 4th Eurasian Conference on Civil and Environmental Engineering*, 17-18 June 2019, Istanbul, Turkey. Turkey: Istanbul Gelisim University and Nevsehir Hacı Bektas Veli University (NEVU).

**Saha, N. Wardi, S., Takahashi, S. & Sanada, Y.** (2018). Report on Pullout Test of Post Installed Anchors in Low Strength Concrete with Brick Chips, *Architectural Institute of Japan (AIJ) Conference*, September 2018, Sendai, Japan.

**Saleh, S., Saqif, M.A. & Ramiz F.** (2019). Comparison of behavior between hollow and composite K-joints under sustained loading and corrosion. *IOP Conference Series: Materials Science and Engineering*, 513(1), 012039. DOI: 10.1088/1757-899X/513/1/012039.

Soharab, H. M., Hossain, M. S. & **Rahaman, M. M.** (2019). Sangu River's contribution to the livelihood of local people. *Electronic proceedings of the 3rd International Water Conference: River a living being*, 16 pages, 29-30 January 2019, Action Aid, Kuakata, Patuakhali, Bangladesh.

Wardi, S., **Saha, N., Takahashi, S. & Sanada, Y.** (2018). Strengthening with Wing Walls for Exterior RC Beam-Column Joint with Straight Anchorage of Beam Longitudinal Rebar. *Architectural Institute of Japan (AIJ) Conference*, September 2018, Sendai, Japan.

## Department of Computer Science and Engineering

### Publications of Faculty Members

#### A. Peer-reviewed Journal Papers

**Akhtar**, S., Monna, B. K., Ara, A. & Bhandari, P. (2018). Development of Functionalities for Smart Phone and Power Share. *Indian Journal of Science and Technology*, 11(27), 1–5.

**Hasan**, A. S. M. T., Jiang, Q., Chen, H. & Wang, S. (2018). A new approach to privacy-preserving multiple independent data publishing. *Applied Sciences*, 8(5), 783.

**Hasan**, A. S. M. T., Qu, Q., Li, C., Chen, L. & Jiang, Q. (2018). An effective privacy architecture to preserve user trajectories in reward-based LBS applications. *ISPRS International Journal of Geo-Information*, 7(2), 53.

**Momtaz**, A. S. Z., UI, R. & Jahan, N. (2018). An Advance IoT based Road Traffic Manipulation System. *Communications on Applied Electronics*, 7(23), 1–5.

Niyigena, J. P., Jiang, Q., **Hasan**, A. T., Ziou, D., Chen, H. & Wang, P. (2018). ICT Usage and Attitudes Among EAC Undergraduate Students—A Case Study. *IEEE Access*, 6, 42661-42674.

**Omar**, A. A., Bhuiyan, M. Z. A., Basu, A., Kiyomoto, S. & Rahman, M. S. (2019). Privacy-friendly platform for healthcare data in cloud based on blockchain environment. *Future Generation Computer Systems*, 95, 511-521.

Rahman, S. S., Mahmud, H., Talukder, M. R., Daria, A. & **Akhtar**, S. (2018). A Machine Learning Based Approach for Diabetes Detection and Care in Bangladesh. *Journal of Engineering and Technology*, 4(2), 21–28.

Tarek, M. M. & **Ferdosi**, B. J. (2018). External Group Labeling of Objects in 2D Medical Images Using Spring-Mass Model. *Journal of Biomedical Engineering and Medical Imaging*, 5(2), 40-50.

Tasnim, R., Khan, S., Arshad, A. & **Hussein**, M. R. (2018). Non-Contact Capacitive Technique for Biomass Flow Sensing. *Indonesian Journal of Electrical Engineering and Computer Science*, 11(2), 531.

Zaini, M. K. A., Lai, M. H., **Islam**, M. R., Lim, K. S. & Ahmad, H. (2018). Cancellation of birefringence in DBR laser through principal axis offset by a rotation of 90°. *Indian Journal of Physics*, 92(8), 1045-1048.

#### B. Conference Papers

Ahmed, S., Islam, M., Hassan, J., Ahmed, M. U., Ferdosi, B. J., Saha, S. & **Shopon**, M. (2019). Hand Sign to Bangla Speech: A Deep Learning in Vision based system for Recognizing Hand Sign Digits and Generating Bangla Speech. *Proceedings of the International Conference on Sustainable Computing in Science, Technology and Management*, 26-28 February 2019, Jaipur, India. DOI: 10.2139/ssrn.3358187.

Al Imran, M., **Mridha**, M. F. & Nur, M. K. (2019). OTP Based Cardless Transaction using ATM. *Proceedings of the 2019 International Conference on Robotics, Electrical and Signal Processing Techniques* (pp. 511-516). Bangladesh: IEEE.

**Begum**, N. & Nakanishi, T. (2018). Efficiency Improvement in Group Signature Scheme with Probabilistic Revocation. *Proceedings of the 2018 International Symposium on Information Theory and Its Applications (ISITA)*, 28-31 October 2018, IEEE, Singapore. DOI: 10.23919/ISITA.2018.8664209

**Ferdosi**, B. J. (2018). Microscopy Cell Counting and Annotation Using a Max-Tree Representation of the Blood Cell Images. *Proceedings of the 3rd International Conference on Biomedical Signal and Image Processing* (pp. 61-65). Kitakyushu, Japan: Kyushu Institute of Technology.

**Ferdosi**, B. J., Nowshin, S., & Sabera, F. A. (2018). White Blood Cell Detection and Segmentation from Fluorescent Images with an Improved Algorithm using K-means Clustering and Morphological Operators. Proceedings of the 4th International Conference on Electrical Engineering and Information & Communication Technology (iCEEICT) (pp. 566-570). Dhaka, Bangladesh: Military Institute of Science and Technology.

Huang, Y., Jiang, Y., **Hasan**, T., Jiang, Q. & Li, C. (2018). A topic BiLSTM model for sentiment classification. Proceedings of the 2nd International Conference on Innovation in Artificial Intelligence (pp. 143-147). Shanghai, China: Association for Computing Machinery. DOI: 10.1145/3194206.3194240.

Haque, R. U. H., Mehera, P., **Mridha**, M. F. & **Hamid**, M. A (2019). Bengali Stop Phrase Detection Mechanism using Corpus Based Method. 8th International Conference on Informatics, Electronics & Vision (ICIEV), 30 May -2 June 2019, Eastern Washington University, Washington, USA.

Haque, R. U. H., Mehera, P., **Mridha**, M. F. & **Hamid**, M. A (2019). A Complete Bengali Stop Word Detection Mechanism. 8th International Conference on Informatics, Electronics & Vision (ICIEV), 30 May -2 June 2019, Eastern Washington University, Washington, USA.

Hu, Q., Li, C., **Hasan**, T., Li, C. & Jiang, Q. (2018). A collaborative caching strategy in contentcentric networking. MATEC Web of Conferences, 189, 03018. DOI: 10.1051/mateconf/201818903018.

**Islam**, M. R., Bhuiyan, R. A., **Ahmed**, N. & Islam, M. R. (2018). PCA and ICA Based Hybrid Dimension Reduction Model for Cardiac Arrhythmia Disease Diagnosis. Proceedings of the 2018 IEEE 10th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment and Management (HNICEM), 29 November – 7 December 2018, IEEE, Baguio City, Philippines. DOI: 10.1109/HNICEM.2018.8666331.

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**Mridha**, M. F., **Hamid**, M. A., Rana, M. M., Khan, M. E. A., Ahmed, M. M. & Sultan, M. T. (2019). Semantic Error Detection and Correction in Bangla Sentence. 8th International Conference on Informatics, Electronics & Vision (ICIEV), 30 May -2 June 2019, Eastern Washington University, Washington, USA.

**Mridha**, M. F., Hamid, M. A. & Asaduzzaman, M. (2018). Issues of Internet of Things (IoT) and an Intrusion Detection System for IoT Using Machine Learning Paradigm. Proceedings of the 2018 International Joint Conference on Computational Intelligence. 14-15 December 2018, Daffodil International University, Dhaka, Bangladesh.

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**Sarker**, L., Chakravarty, S. & Rahman, A. (2018). A Graph Theoretic Approach for Maximizing Target Coverage using Minimum Directional Sensors in Randomly Deployed Wireless Sensor Networks. Proceedings of the 2018 5th International Conference on Networking, Systems and Security (NSysS) (pp. 1-9). Bangladesh: IEEE.

### C. Peer-reviewed Book Chapters

**Alam**, T., Ahmed, C. F., Zahin, S. A., Khan, M. A. H., & Islam, M. T. (2018). An Effective Ensemble Method for Multi-class Classification and Regression for

A., Dutta, P., Mandal, J. K., Bhattacharya, A. & Dutta, S.(Eds.) Emerging Technologies in Data Mining and Information Security (pp. 507-517). Singapore: Springer. DOI: 10.1007/978-981-13-1498-8.

**Saha**, A. K., Mridha, M. F., Rafiq, J. I. & Das, J. K.

(2019). Information Extraction from Natural Language Using Universal Networking Language. In Bhatia, S. K., Tiwari, S., Mishra, K. K. & Trivedi, M. C. (Eds.) Advances in Computer Communication and Computational Sciences (pp. 283-292). Singapore: Springer.

## Department of Electrical and Electronic Engineering

### Publications of Faculty Members

#### A. Peer-reviewed Journal Papers

Aravind, C. V., Subramaniam, U., **Khan**, M. S. A. & Alam, M. I. I. (2018). Options and Opportunities for Energy Management in Malaysian Grid Systems—Putrajaya as a Case Study. *Journal of Electronic Science and Technology*, 16(4), 316-324.

**Azim**, A. (2018). Real time Implementation of Remote Rover Training System. *International Journal of Computer Networks & Communications Security*, 6 (10), 219-22.

**Azim**, A. (2019). Low Precision Arithmetic Operations in Deep Neural Network: An Overview., *The International Journal of Engineering and Science*, 8 (4), 39-44.

Hasan, M., & **Ahmed**, J. G. R. (2019). Effect of Dust on Output Power of Conventional Solar Panels in Bangladesh. *Asian Journal for Convergence in Technology*, V (I), 798.

Foysal, M., & **Ahmed**, J. G. R. (2019). Empirical Ratio of Higher Optical Transitions in Semiconducting SWCNTs. *Asian Journal for Convergence in Technology*, V (I), 770.

**Khan**, M. S. A., **Rahman**, M. M., Sarker, M., Rokonzaman, M. & Aravind C. V. (2018). Performance evaluation of duobinary single mode fibre using wavelength division multiplexing. *Journal of Engineering Science and Technology*, special issue, 94-105.

**Khan**, M. S. A., Akter, M., Howlader, M., **Rahman**, M. M., Mou, F. A. & Aravind, C. V. (2018). Simulation analysis of intensity modulation for high speed N×40Gb/S transmission over standard single mode fibre using wavelength division multiplexing. *Journal of Engineering Science and Technology*, special issue, 133-144.

**Khan**, M. S. A., **Kadir**, K. M., Alam, M. I. I., Alam, M. K., Wong, J., Iqbal, A., Iqbal, A. (2018). Implementation of Efficient B2G and V2G in Practical Cases. *Journal of Electronic Science and Technology*, 16(4), 325–340. DOI: 10.11989/

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**Khan**, M. S. A., Miah, M. A. R., Rahman, S. R., Iqbal, M. M., Aravind, C. V. & Iqbal, A. (2018). A technical analysis of security management in terms of crowd energy and smart living. *Journal of Electronic Science and Technology*, 16 (4), 367-378. DOI: 10.11989/JEST.1674-862X.

Rahman, S. N., Bashar, S. S., Mahmud, M. A. A., Miah, M. S., **Karim**, A. H. M. & Marium, M. (2019). A Security System for Kindergarten School Using RFID Technology. *Journal of Computer and Communications*, 7(4), 21-30.

#### B. Conference Papers

Anan, A., Alam, M. & **Chakraborty**, T. K. (2019). Study of Single-Phase Hybrid Multilevel Inverter for Obtaining 13-Level output Voltage Using Three H-Bridge Units. *Proceedings of the 4th IEEE International Conference on Electrical Energy Systems( ICEES 2019)*, 21-22 February 2019, Chennai, India.

Anan, A., **Chakraborty**, T. K. & Mahmood, K. S. (2018). A Single-Phase Cascaded H-Bridge Multilevel Inverter with Reduced Switching Devices and Harmonics. *Proceedings of the 6th IEEE International Conference on Smart Energy Grid Engineering* (pp. 222-225). Canada: IEEE, Ontario Institute of Technology. DOI: 10.1109/SEGE.2018.8499512.

Bashar, S., Mahmud, M., Miah, M. S., **Karim**, A. H. M. Z. & Hasan, Z. (2019). A Machine Learning Approach for Heart Rate Estimation from PPG Signal using Random Forest Regression Algorithm. *Proceedings of the International Conference on Electrical, Computer and Communication Engineering* (pp. 1-5). Bangladesh: IEEE. DOI: 10.1109/ECACE.2019.8679356.

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**Khan**, M. S. A., Kadir, K. M., Hasan, M. R., Ahmed, K. R., Raqibul, M. & Mohammad, N. (2018). Investigation of Advanced Implementation of Permanent Magnet Synchronous Generator in Renewable Energy. *Proceedings of the 2018 IEEE 7th International Conference on Power and Energy* (pp. 349-354). Malaysia: IEEE. DOI: 10.1109/PECON.2018.8684116.

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Munmun, A., **Khan**, M. S. A., Mahmood, K. S., Amin, M. A. A. & Alam, M. K. (2018). An Advanced Technical and Parametrical Comparison of Satellites in Asia Region with Uplink EIRP (dB) Vs. Transmitting Antenna configuration. *4<sup>th</sup> IEEE International Conference on Advances on Computing, Communication and Automation*, 26-

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**Rahman**, M. M., **Mou**, F. A., Bhuiyan, M. I. H., & Islam, M. R. (2019). Extremely low effective Material loss of air core photonic crystal fiber for THz guidance. *IEEE region 10 symposium (TENSYP)*, 7-9 June 2019, Kolkata, India.

**Rahman**, M. M., **Khan**, M. S. A., Hossain, R., Raihan, S. & Sarker, M. (2018). Simulation analysis of EDFA in optical fiber with WDM system in the perspective of Bangladesh. *IEEE International RF and Microwave Conference*, 17-19 December, IEEE, Malaysia.

**Rahman**, M. S., Akter, M., Miah, S. & Hossain, T. (2018). Influence of the Compositional Variation of  $Zn_xCd_{1-x}S$  ( $0 \leq x \leq 0.45$ ) Buffer on the Performance of  $Cu_2ZnSnSe_4$  Solar Cell: Simulation based Study. *15th IEEE India Council International Conference*, 16-18 December 2018, Amrita Vishwa Vidyapeetham, Combatore, Chennai, India.

**Rahman**, M. S., Islam, M. M. A., Kanon, A. A., Sarker, H. & Moniruzzaman, M. (2018). Performance Evaluation of Sn-based Perovskite ( $CH_3NH_3SnI_3$ ) Solar Cells with All Inorganic Oxide Transport Materials: Simulation based Study. *International Conference on Material Science and Semiconductor Devices*, 30-31 December 2018, Dhaka University, Bangladesh.

**Rahman**, M. S. & Ahmed, N. (2018). Impact of Gate Underlap Design on Analog and RF Performance for 20nm Tri-Material Double Gate (TMDG) MOSFET. *IEEE Region 10 Annual International Conference*, 28-31 October 2018, Korea.

**Rahman**, M. S., Miah, S., Marma, M. S. W. & Sabrina, T. (2019). Simulation based Investigation of Inverted Planar Perovskite Solar Cell with All Metal Oxide Inorganic Transport Layers. *International Conference on Electrical, Computer and Communication Engineering*, 07-09 February 2019, Cox's Bazar, Bangladesh.

## Department of English

### Publications of Faculty Members

#### A. Peer-reviewed Journal Papers

**Chakraborty, K. & Yeasmin, N.** (2018). Bertha's Intuitive Quest: Recognizing the Feminine Self. *CROSSINGS: A Journal of English Studies*, 9, 26-32.

**Sarwer, I.** (2019). Power as an Identity Determining Factor in *Robinson Crusoe*. *Erothanatos*, 3(1), 106-113.

**Zarin, I.** (2018). Mediating Cross Cultural Barriers in English as a Foreign Language Classroom: A Pilot Study on Teachers. *British Journal of Education*, 6(8), 46-57

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**Abdullah, A.S.M.** (2019). This is me with Augustine, February 21, 1943: Importance of Photographs in Everything Is Illuminated. *Proceedings of the International Conference on Language Phenomena in Multimodal Communication* (pp. 22-26). Paris: Atlantis Press. DOI:10.2991/klua-18.2018.3.

**Abdullah, A. S. M.** (2019). Mocking depiction of corrupt politicians: magical realism as a means of political satire in Ngugi WaThiongo's *Wizard of the Crow*. *5th ASSE International Conference on British and American Studies*, 6-8 June 2019, Vlora, Albania.

**Abdullah, A. S. M.** (2019). Beavis and butt-head': comic and derogatory portrayal of Arabs in *True Lies*. *5th ASSE International Conference on British and American Studies*, 6-8 June 2019, Vlora, Albania.

**Abdullah, A. S. M.** (2019). Disillusionment, estrangement and identity crisis in Andrea Levy's *Fruit of the Lemon*. *8th International Conference on Narrative and Language Studies*, 2-3 May 2019, Trabzon, Turkey.

**Abdullah, A. S. M.** (2019). Magical realism as a social and political protest: a comparative study between *The House of the Spirits* and *Like Water for Chocolate*. *8th International Conference on Narrative and Language Studies*, 2-3 May 2019, Trabzon, Turkey.

**Abdullah, A. S. M.** (2019). From welcoming the war to rebuilding the nation: Walt Whitman's shifting attitude towards Civil War in *Drum-Taps*. *5th International Online Conference on New Dimensions of Philology: Language, Literature, Linguistics, Culture*, 10-16 April 2019, Plock, Poland.

**Abdullah, A. S. M.** (2019). Variations in Middle English local surnames. *5th International Online Conference Philology: Language, Literature, Linguistics, Culture*, 10-16 April 2019, Plock, Poland.

**Abdullah, A. S. M.** (2019). Accounts of apartheid's bloody past and psychological damage in Zoë Wicomb's *David's Story*. *International Conference on Performing the Nation: Memory and Desire in Contemporary Literature*, 8-9 February 2019, Odisha, India.

**Abdullah, A. S. M.** (2019). Sexuality, eroticism and language in *One Thousand and One Nights*. *International Conference on Asian Linguistic Anthropology (CALA)*, 23-26 January 2019, Siem Reap, Cambodia.

**Abdullah, A. S. M.** (2019). Magical realism and the voices of the marginalised in Salman Rushdie's *Midnight's Children*. *International Conference on Asian Linguistic Anthropology*, 23-26 January 2019, Siem Reap, Cambodia.

**Abdullah, A. S. M.** (2018). Exploitation and alienation of migrant workers in a capitalist society: a Marxist interpretation of John Steinbeck's *Of Mice and Men*. *International Conference on Language, Literature, Culture and Politics: Celebrating the Bicentenary of Karl Marx's*



*Birth*, 30 November – 1 December 2018, Dhaka, Bangladesh.

**Abdullah**, A. S. M. (2018). Female voices in fairy tales: a weapon to fight oppressive forces. *14th International Conference on Humanities & Social Sciences*, 22-23 November, 2018, KhonKaen, Thailand.

**Abdullah**, A. S. M. (2018). The American paradox: discovering America and the Filipino immigrant dream in Carlos Bulosan's *America is in the Heart* and Bienvenido Santos' *What the Hell for You Left Your Heart in San Francisco*. *2nd International Conference on Multidisciplinary Filipino Studies*, 16-18 November 2018, Cavite, The Philippines.

**Abdullah**, A. S. M. (2018). Sense of emptiness and longing for anchor: diverse consequences of colonisation and immigration in Nick Joaquin's *The Woman Who Had Two Navels*. *2nd International Conference on Multidisciplinary Filipino Studies*, 16-18 November 2018, Cavite, The Philippines.

**Abdullah**, A. S. M. (2018). Post-9/11 backlash and resulting disillusionment in *The Reluctant Fundamentalist* and *Once in a Promised Land*. *International Conference on Literature: Contemporary Perspectives on/in Postcolonial and Diasporic Literature and Theory*, 25-26 July 2018, Penang, Malaysia.

**Abdullah**, A. S. M. (2018). Heavy silence and horrible grief: Joseph Skibell's *A Blessing on the Moon*. *International Conference on Literature: Contemporary Perspectives on/in Postcolonial and*

*Diasporic Literature and Theory*, 25-26 July 2018, Penang, Malaysia.

**Ara**, A. & Shorna, S. A. (2018). The role of instructional strategies in vocabulary teaching: a comparative study of visual and cognitive strategies. *10th Malaysia International Conference on Language Literature and Cultures*, 14-16 August 2018, Melaka, Malaysia.

Haque, A. & **Sarwer**, I. (2019). Investigating research facilities for teachers in Bangladeshi private universities. *2nd Assembly on the Futures of Higher Education in Bangladesh*, 29 March, 2019, Dhaka, Bangladesh.

**Zarin**, I. (2018). Using adaptation projects in teaching EFL writing: a pilot study. *ENH Conference, Rethinking Disciplinary Diversity: Challenges of Teaching English in the 21st Century*, 15-16 November 2018, Dhaka, Bangladesh.

### C. Peer-reviewed Book Chapters

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**Choudhury**, M. (2018). Lessons 8, 26 & 37. In Anand, M., Kumar, A. & Nanda, S. (Eds.). *Classroom Tasks in English: A Resource Book for multilingual Teaching*. Delhi: Viva Books Private Limited. ISBN 978-93-88386-84-5.

## Department of Law and Human Rights

### Publications of Faculty Members

#### Peer-reviewed Journal Papers

**Hossain, M. S.** (2018). An analysis of the Supply Chain principle for the UK's Overseas Companies: the practice of Tort law under International Corporate Law. *International Journal of Law and Management Emerald Publications*, 60(6), 470-477.

**Hossain, M. S.** (2018). Social Media and Terrorism: Threats and Challenges to the Modern Era. *South Asian Survey*, 22(2), 136 – 155.

**Hussain, M. L.** (2018). Consumer Related Aspects of Intellectual Property. *UAP Journal of Law and Policy*, 3(1), 31-55.

**Rahim, M. A.** (2018). Alternative sanctions to convicted offenders in criminal justice system in Bangladesh focusing on probation and parole: a lesson from India, *Amity International Journal of Juridical Sciences*, 4(1), 4-19.

**Saqi, A. B.** (2018). The Strategy of Warfare and Its Non-Humanitarian Side: A Critical Analysis of Using Autonomous Weapons (AWS). *ELCOP Year Book on Human Rights*, 19(1), 151-164.

**Wahab, N.** (2018). Online Shopping and Consumer Rights Protection within Bangladesh: A Review of Current Laws and Regulations. *South Asian Law Review Journal*, 3(1), 253-273.

## Department of Pharmacy

### Publications of Faculty Members

#### A. Peer-reviewed Journal Papers

- Afrin, S., Ishrat, I., Hasan, A. H. M. N. & Deepa, K.N. (2018). Novel approaches of herbal drug delivery. *Journal of Pharmaceutical Research International*, 21(5), 1-11.
- Das, S., Huque, S., Anwar, M.R., Gorapi, M.Z. H., Chowdhury, S.F. & Shahriar, M. (2018). Analytical methods of six FDA approved molecular entities used for the treatment of non-small cell lung cancer: a concise review. *International Journal of Pharmacy*, 8(1), 33-46.
- Hamiduzzaman, M., Salam, F.B.A., Hasan, A.H.M.N. & Santa, S.A. (2018). Qualitative analysis of *Lactobacillus* strains in milk probiotics. *International Journal of Advanced Research*, 6(10), 154-164.
- Haque, M.A., Sheikh, M.A., Mamun, A.A., Yano, S., Hashimoto, M., Shido, O. & Nagai, A. (2018). A mesenchymal stem cell line transplantation improves neurological function and angiogenesis in intraventricular amyloid beta-infused rats. *Current Alzheimer & Research*. 15, 1331-1342.
- Hasan, A.H.M.N., Islam, M.A.U., Rahman, S., Nishi, Z.M., Hossain, M.J., Gorapi, M.Z.H., Jamil, F., Sufian, M.A., Nahar, Z., Deepa, K.N., Hamiduzzaman, M., Asaduzzaman, M. & Bhuiyan, M.A. (2019). Level of stress, predisposing factors and status of mental health among pharmacy students of a private university of Dhaka, Bangladesh: a cross sectional study. *Health*, 11, 222-232.
- Hossain, M. J., Biswas, S., Shahriar, M., Chowdhury, M.M., Islam, S. & Ahsan, C.R. (2018). Phytochemical screening, antimicrobial activity, antioxidant capacity and in vivo anticancer activity of *Lannea coromandelica* bark extracts. *IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)*, 13(3) Ver. II, 19-25.
- Hossain, M. S., Islam, R., Sultana, S., Rahman, M. H., Bhowmick, A. & Fatema-Tuz-Zohra, T. S. (2018). Investigation of thrombolytic and antioxidant potentials of *Centella asiatica*. *Galore International Journal of Health Sciences and Research*, 3(4), 52-58.
- Hossain, M. J., Alam, M.G., Biswas, S., Isah, I.S., Shahriar, M. & Islam, S. (2018). Prevalence and antibiotic resistance pattern of *Pseudomonas* and *Acinetobacter spp.* isolated from blood samples of the intensive care unit (ICU) patients. *International Journal of Advanced Research in Biological Sciences*, 5(8), 186- 195.
- Hossain, M. J., Biswas, S., Islam, S., Shahriar, M. & Ahsan, C.R. (2019). *In vitro* phytoconstituents investigation, antioxidant capacity, antimicrobial activity and *in vivo* anticancer activity of *Mucuna poggei* fruit peel extracts obtained by different extraction approaches. *Turkish Journal of Biotechnology*. 102, 120-129.
- Hossain, M. J., Biswas, S., Shahriar, M., Islam, S. & Ahsan, C.R. (2018). *In vivo* anticancer activity on ehrlich ascites carcinoma (EAC) cells and *in vitro* antimicrobial activity of *Psidium guajava* bark extracts. *Bangladesh Journal of Microbiology*, 35(1), 79-81.
- Islam, S.H., Alauddin, M., Alam, F., Anwar, M.R., Dewan, I. & Islam, S.M.A. (2018). Development and validation of stability-indicating RP-HPLC method for simultaneous estimation of rosuvastatin and glibenclamide. *World Journal of Pharmacy and Pharmaceutical Sciences*, 7(5), 22-37.
- Islam, S.M.A., Dewan, I., Khatun, R., Haider, S.S. & Reza, M.S. (2019). Development and validation of a simple RP-HPLC method for the estimation of atorvastatin in self emulsifying drug delivery system (SEDDS). *World Journal of Pharmacy and Pharmaceutical Sciences*, 8(4), 1-10.
- Jahan, I., Ahmed, S., Islam, M. R., Hai, A.N.M.A., Islam, M.F., Bhuiyan, M.A. & Nahar, Z. (2019). Association of ORAI1 genetic polymorphism with serum calcium and phosphorus levels in non-dialysis chronic kidney disease patients: a case-control. *Cureus*, 11(4), 4564.
- Jannath, S., Nayeema, I., Jahan, N. & Deepa, K.N. (2018). Comparative performance evaluation of different brands of ketorolac tromethamine

(NSAID'S) generic tablets. *Advancements in Bioequivalence & Bioavailability*, 1(2), 1-5.

Karmokar, F., Asaduzzaman, M., Islam, M. S., Shahriar, M. & Shabnaz, S. (2018). The influence of SMAD1 gene polymorphisms on colorectal cancer susceptibility in Bangladeshi population: A case-control study. *FEBS Open Bio*, 8 (1), 107–496.

Karmoker, J. R., Hasan, I., Ahmed, N., Saifuddin, M., & Reza, M.S. (2019). Development and optimization of acyclovir loaded mucoadhesive microspheres by box-behnen design. *Dhaka University Journal of Pharmaceutical Sciences*, 18 (1), 1-12.

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Nahid, N.A, Apu, M. N. H, Islam, M. R., Shabnaz, S., Chowdhury, S. M., Ahmed, M. U., Nahar, Z., Islam, M. S., Islam, M. S. & Hasnat, A. (2018). DPYD\*2A and MTHFR C677T predict toxicity and efficacy, respectively, in patients on chemotherapy with 5-fluorouracil for colorectal cancer. *Cancer Chemotherapy and Pharmacology*, 81(1), 119-129.

Nishu, S.B.N., Karmoker, J.R., Ali, F.F., Rafa , N.N., Hoque, O. & Dewan, I. (2018). *In vitro* and *ex vivo* studies of linagliptin loaded non-ionic surfactant vesicles using statistical optimization. *Journal of Advances in Medical and Pharmaceutical Sciences*, 18(2), 1-16.

Nishuty, N.L., Khandoker, M.M.H., Karmoker, J.R., Ferdous, S., Shahriar, M., Qusar, M.M.A.S., Islam, M.S., Kadir, M.F. & Islam, M. R. (2019). Evaluation of serum interleukin-6 and C-reactive protein levels in drug-naïve major depressive disorder patients.

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Shahriar, M., Bhuiyan, M.A., & Rana, M.S. (2018). Screening of antibacterial, thrombolytic, membrane stabilizing, anti-inflammatory and antitumor activity of *Citrus assamensis* leaf extracts. *Journal of Scientific Research*, 10(2), 195-210.

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Shiota, Y., Nagai, A., Sheikh, M.A., Mitaki, S., Mishima, S., Yano, S., Haque, M.A., Kobayashi, S. & Yamaguchi, S. (2018). Transplantation of a bone marrow mesenchymal stem cell line increases neuronal progenitor cell migration in a cerebral ischemia animal model. *Scientific Reports*. 8: 14951, 1-12.

## B. Peer-reviewed Book Chapter

Hossain, M.A., Pervin, R., Debnath, D. & Bhuiyan, M. A. (2019). Therapeutic Treatment for Controlling Childhood Obesity. In Bagchi, D. (Ed.) *Global Perspective on Childhood Obesity: Current Status, Consequences and Prevention* (pp. 377-385). Cambridge, MA: Academic Press.

