




## Mahnaz Islam

Ph.D. Student in Electrical Engineering, admitted Autumn 2019

 Curriculum Vitae available Online

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### Bio

### LINKS

- Linked in Profile: <https://www.linkedin.com/in/mahnaz-islam-1184b9104/>

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### Publications

#### PUBLICATIONS

- **Lateral electrical transport and field-effect characteristics of sputtered p-type chalcogenide thin films** *APPLIED PHYSICS LETTERS*  
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- **First-principles calculation of the optoelectronic properties of doped methylammonium lead halide perovskites: A DFT-based study** *COMPUTATIONAL MATERIALS SCIENCE*  
Rahman, N., Adnaan, M., Adhikary, D., Islam, M., Alam, M.  
2018; 150: 439-447
- **Transfer Matrix Formalism-Based Analytical Modeling and Performance Evaluation of Perovskite Solar Cells** *IEEE TRANSACTIONS ON ELECTRON DEVICES*  
Wahid, S., Islam, M., Rahman, M., Alam, M.  
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- **Effect of spatial distribution of generation rate on bulk heterojunction organic solar cell performance: A novel semi-analytical approach** *ORGANIC ELECTRONICS*  
Islam, M., Wahid, S., Chowdhury, M., Hakim, F., Alam, M.  
2017; 46: 226-241
- **Physics-based modeling and performance analysis of dual junction perovskite/silicon tandem solar cells** *PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE*  
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