Department of Materials Science and Engineering
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Biography

Md Mehidi Hasan
Lecturer
Research Area Additive Manufacturing First-principle Method Solar energy Nanoparticles

Education

M.Sc Engg.
   Bangladesh University of Engineering & Technology,Bangladesh(Ongoing)
B. Sc Engg.
   Khulna University of Engineering & Technology,Bangladesh(2022)Group: Department of Materials Science and,Merit Position: 3rd,Achievement:Dean's Award for consecutive 4 years, Technical scholarship from KUET
A Level
   Academia,Bangladesh(2016)Achievement:Academia Excellence Award
O Level
   Shahan International School,Bangladesh(2014)Achievement:Edexcel High Achiever's Award, The Daily Star Award

Research Interest

Additive Manufacturing
3D printing

3D printing of Negative stiffness honeycomb structure along with comparison with ABAQUS.

Studying the effect of time in the layer to layer adhesion in 3D printing

First-principle Method
Density Functional Theory

Finding the opto-electronic properties of various perovskite materials under normal conditions and hydrostatic pressure

Solar energy
Perovskite Solar cell, Tandem Solar cell

Development of a hybrid solar cell using organic and inorganic perovskite (Theoretical study)

Study of tandem solar cell along with its optimization for better performances.

Optimization of various perovskite solar cells for better performances.

Nanoparticles
Synthesis of codoped CuO nanoparticles

Synthesis of codoped CuO nanoparticles for photocatalytic activity and antibacterial activity