

MD JAHIDUL ISLAM

PhD from Hokkaido University

Current position: Postdoctoral Fellow, (ICReDD), Hokkaido University

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By born Bangladesh, Narayanganj, Rupganj

RESEARCH INTEREST

Circularly Polarized Photo luminescence of Lanthanides complexes, Photo Physical Chemistry, Laser trapping, Photo functional molecules, Perovskites, Halogen exchange, Nano materials, Material chemistry.

PUBLICATIONS

- (1) Analysis of the properties of ZnO nanoparticle for emerging applications in nanoscale domains. Hossain MN, Chowdhury MH, Islam MJ, Akhter TS. IEEE 56th International Midwest Symposium on Circuits and Systems (MWSCAS) Aug **2013**;928-931.
- (2) Crystallization of methylammonium lead halide perovskites by optical trapping. Yuyama KI, Islam MJ, Takahashi K, Nakamura T, Biju V. Angewandte Chemie. October **2018**;130(41):13612-6.
- (3) Mixed halide perovskite synthesis by chemical reaction and crystal nucleation triggered under optical potential. Islam MJ, Yuyama KI, Takahashi K, Nakamura T, Konishi K, Biju V. NPG Asia Materials, April **2019**.
- (4) Site specific halide exchange in perovskite by laser trapping. Islam MJ, Yuyama KI, Biju V. Submitted, Nov. **2019**.

PROFESSIONAL EXPERIENCES

- 1) Postdoctoral Fellow (ICReDD), Hokkaido University, 2019.10 -
- 2) PhD, Hokkaido University, Japan, 2016.10 - 2019.09
- 3) Assistant Chemist, DAPFCL, BCIC, Bangladesh, 2013.04- 2016.09
- 4) Chemistry Lecturer, BISC, Dhaka, Bangladesh, 2012.11 - 2013.04
- 5) O level chemistry teacher, BIT, Dhaka, Bangladesh, 2012.04 - 2012.11

EXPERTISED TOOLS USED IN RESEARCH

1064 nm CW trapping laser, Photo luminescence spectrophotometer, Rotary Evaporator, Ultra centrifugation, freeze dryer, NMR machine, UV-visible spectrophotometer, Thermo Gravimetric

Analyzer (TGA), Fourier Transform IR Spectrophotometer (FTIR).

EDUCATION AND ACHIEVEMENT

PhD, MEXT scholarship, Faculty of Environmental Science, Hokkaido University, 2019. M. Sc, Physical Chemistry, University of Dhaka, 2012. B. Sc, Chemistry, University of Dhaka, 2010.