

IFRD Publications: 2019

1. Afrina Sharmin, Samia Tabassum, MS Bashar, Zahid Hasan Mahmood, 'Depositions and characterization of sol-gel processed Al-doped ZnO (AZO) as transparent conducting oxide (TCO) for solar cell application', *Journal of Theoretical and Applied Physics*, 13 (2), Pp 123-132, 2019
2. M Shah Jamal, SA Shahahmadi, P Chelvanathan, Hamad F Alharbi, Mohammad R Karim, Mushtaq Ahmad Dar, Monis Luqman, Nabeel H Alharthi, Yahya S Al-Harhi, M Aminuzzaman, Nilofar Asim, K Sopian, Sieh Kiong Tiong, Nowshad Amin, Md Akhtaruzzaman, 'Effects of growth temperature on the photovoltaic properties of RF sputtered undoped NiO thin films, *Results in Physics*, 14, P 102360, 2019
3. M Sarwar Jahan, Md Haque, MA Quaiyyum, Jannatun Nayeem, M Shahriar Bashar, 'Radial variation of anatomical, morphological and chemical characteristics of *Acacia auriculiformis* in evaluating pulping raw material, *Journal of the Indian Academy of Wood Science*, 16(2), 2019
4. Samia Tabassum, Laila Sharmin, Muhammad Shahriar Bashar, Mashudur Rahaman, Sumon Chandra Debnath, Mahfuza Khanam, 'Design and Analysis of Parabolic Trough Solar Water Heating System, *Journal of Architectural Environment & Structural Engineering Research*, 2 (3), 2019
5. Abu Kowsar, Mashudur Rahaman, Md. Saidul Islam, Abdullah Yousuf Imam, Sumon Chandra, Debnath, Munira Sultana, Md. Azizul Hoque, Afrina Sharmin, Zahid Hasan Mahmood, Syed Farid Uddin Farhad, 'Progress in Major Thin-film Solar Cells: Growth Technologies, Layer Materials and Efficiencies, *International Journal Of Renewable Energy Research*, Vol.9, No.2, June, 2019
6. MA Zubair, MT Chowdhury, MS Bashar, MA Sami, MF Islam, 'Thickness dependent correlation between structural and optical properties of textured CdSe thin film', *AIP Advances*, 9 (4), P 045123, 2019
7. Mohammad Sajjad Hossain, Yeasmin Akter, Mohammad Shahjahan, Muhammad Shahriar Bashar, Most Hosney Ara Begum, Md Moazzem Hossain, Suravi Islam, Nazia Khatun, Md Al-Mamun, 'Influence of Ni substitution on structural, morphological, dielectric, magnetic and optical properties of Cu-Zn ferrite by double sintering sol-gel technique', *Journal of Advanced Dielectrics*, 9(02), P 1950020, 2019
8. Rafiqul Islam, M A Zubair, M S Bashar, A K M B Rashid, 'Bi_{0.9}Ho_{0.1}FeO₃/TiO₂ Composite thin Films: synthesis and study of optical, electrical and Magnetic properties, *Scientific Reports*, Pp 1-13, 2019
9. Samia Tabassum, Ayesha Siddika, Munira Sultana, Mashudur Rahaman, Muhammad Shahriar Bashar, 'Assemble of Dye Sensitized Solar Cell Based on Locally Available Natural Dye', *Journal of Atmospheric Science Research*, 2(1), 2019
10. Abdul Kuddus, Samia Tabassum and Abu Bakar Md. Ismal, 'Fabrication of Synthesized ZnO/CuO Heterojunction Solar Cell Using Spin Coating Technique,' *Advanced Science Engineering and Medicine*, Vol-11, 1-7, 2019.

11. M. Khalid Hossain, M. T. Rahman, M. K. Basher, M. S. Manir, M. S. Bashar, 'Influence of thickness variation of gamma-irradiated DSSC photoanodic TiO₂ film on structural, morphological and optical properties', *Optik*, Volume 178, February 2019, Pages 449-460
12. M. Hossain and A N. M. Fakhruddin, 'Production and Characterization of Biodiesel From Waste Cooking Oil Of Dhaka City', *Int. J. Eng. technol. (Online)* 6(1): 05-11, January 2019
13. Afrina Sharmin, M. S. Bashar, Samia Tabassum and Zahid Hasan Mahmood, 'Low Cost and Sol-Gel Processed Earth Abundant Cu₂ZnSnS₄ Thin Film as an Absorber Layer for Solar Cell: Annealing without Sulfurization, *International Journal of Thin Films Science and Technology*, 8, No. 2, 65-74 (2019)
14. A Sharmin, MS Bashar, S Tabassum, ZH Mahmood, 'Effect of Annealing Temperature on Earth Abundant Cu₂ZnSnS₄ Thin Film for Photovoltaic Application Synthesized by Low Cost Sol-Gel Spin Coating, University of Jaffna, 2019
15. SFU Farhad, NI Tanvir, MS Bashar, M Sultana, 'Synthesis and characterization of c-axis oriented Zinc Oxide thin film and its use for the subsequent hydrothermal growth of Zinc Oxide nanorods, *MRS Advances*, 4(16), Pp 921-928, 2019
16. SMA Sujan, MS Jamal, MA Asad, ANM Fakhruddin, 'Bio-ethanol production from *Jatropha curcus*', *Bangladesh Journal of Scientific and Industrial Research*, 54(1), Pp 39-46, 2019
17. MZ Islam, MA Asad, MT Hossain, SC Paul, SMA Sujan, 'Bioethanol production from banana pseudostem by using separate and cocultures of cellulase enzyme with *Saccharomyces cerevisiae*, *Journal of Environmental Science and Technology*, 12(4), Pp 157-163, 2019
18. S Tabassum, MS Bashar, MS Islam, A Sharmin, SC Devnath, SC Parveen, SAA Khanom, M Khanom, 'Design and development of solar dryer for food preservation', *Bangladesh Journal of Scientific and Industrial Research*, 54(2), 2019