

## **IFRD Publications: 2018**

1. M. Shah Jamal, M.S. Bashar, A.K. Mahmud Hasan, Zeyad A. Almutairi, Hamad F. Alharbi, Nabeel H. Alharthi, Mohammad R. Karim, H. Misran, Nowshad Amin, Kamaruzzaman Bin Sopian, Md. Akhtaruzzaman, 'Fabrication techniques and morphological analysis of perovskite absorber layer for high-efficiency perovskite solar cell: A review', *Renewable and Sustainable Energy Reviews*, 98, Pp 469-488, 2018
2. SFU Farhad, NI Tanvir, MS Bashar, MS Hossain, M Sultana, N Khatun, 'Facile synthesis of oriented zinc oxide seed layer for the hydrothermal growth of zinc oxide nanorods', *Bangladesh Journal of Scientific and Industrial Research*, 53(4), Pp 233-244
3. Saadman Sakib Rahman, Md. Zurais Ibne Asharaf, AKM Nurul Amin, M.S. Bashar, Md. Fardin Kabir Ashik, M. Kamruzzaman, 'Tuning nanofluids for improved lubrication performance in tuning biomedical grade titanium alloy', *Journal of Cleaner Production*, 18 sept. 2018
4. M. Khalid Hossain , M.F. Pervez , M. Jalal Uddin , S. Tayyaba , M.N.H. Mia , M.S. Bashar , M.K.H. Jewel , M.A.S. Haque , M.A. Hakim , Mubarak A. Khan, 'Influence of natural dye adsorption on the structural, morphological and optical properties of TiO<sub>2</sub> based photo anode of dye-sensitized solar cell', *Materials Science-Poland*, 36(1), 2018, pp. 93-101.
5. S. Akhanda, R. Matin, M. S. Bashar, M. Sultana, A. Kowsar, M. Rahaman and Z. H. Mahmood, 'Effect of annealing atmosphere on structural and optical properties of CZTS thin films prepared by spin-coating', *Bangladesh J. Sci. Ind. Res.* 53(1), 13-20, 2018
6. M.A. Wadud, M.A. Gafur, M.R. Qadir, M.O. Rahman, 'Study of the mechanical and thermal properties of SN-9ZN and SN-8ZN-1X alloys (Where X=AL, BI and SB) as lead free soldering alloy', *INCOM18-124*, January 2018.
7. T. Kamal, S. Parvez, K. M. Khabir, R. Matin, T. Hossain, H. Sarwar, M. S. Bashar, M. J. Rashid, 'Chemical Bath Deposition of CdS layer for Thin Film Solar Cell', *South Asian Journal of Research in Engineering Science and Technology (SAJREST)* volume: 01 issue: 02.
8. Rummana Matin, M. S. Bashar, Munira Sultana, Aninda Nafis Ahmed and A. Gafur, 'Annealing Effects on the Structural, Optical and Electrical Properties of Chemically Deposited CdS Thin Films using NH<sub>4</sub>Cl Complexing Agent', *International Journal of Nano electronics and Materials*, Volume 11, No. 2, Apr 2018
9. S. K. Banik, M. A. Rouf T. Rabeya, M. Khanam, S. I. Sajal, S. B. Sabur<sup>2</sup> and M. R. Islam, 'Production of biodiesel from neem seed oil', *Bangladesh J. Sci. Ind. Res.* 53(3), 211-218, 2018
10. Kaniz Naila Tonny, Rosaleena Rafique, Afrina Sharmin, Muhammad Shahriar Bashar, and Zahid Hasan Mahmood, 'Electrical, optical and structural properties of transparent conducting Al doped ZnO(AZO) deposited by sol-gel spin coating' *AIP Advances* 8, 065307 (2018), 8 June 2018

11. M Khalid Hossain, MT Rahman, MK Basher, MJ Afzal, MS Bashar, 'Impact of ionizing radiation doses on nanocrystalline TiO<sub>2</sub> layer in DSSC's photoanode film', *Results in Physics*, 11, Pp 1172-1181, 2018
12. MJ Alam, SMS Rana, MA Haque, M Hossain, SMA Sujana, MS Jamal, 'Biodiesel from non-edible Karanja seed oil', *Bangladesh Journal of Scientific and Industrial Research*, 52(1), Pp 15-20, 2018
13. Rosaleena Rafique, Kaniz Naila Tonny, Afrina Sharmin, Zahid Hasan Mahmood, 'Study on the effect of varying film thickness on the transparent conductive nature of aluminum doped zinc oxide deposited by dip coating', *Materials Focus*, 7(5), Pp 707-713, 2018
14. S I Swati, R Matin, S Bashar and Z H Mahmood, 'Experimental study of the optical properties of Cu<sub>2</sub>ZnSnS<sub>4</sub> thin film absorber layer for solar cell application', *IOP Conf. Series: Journal of Physics: Conf. Series* 1086 (2018) 012010