

List of Publications

| Sr. No. | Publication Details | Impact Factor |
|---------|--|---------------|
| 1. | Pankaj Yadav, Brijesh Tripathi , Kavita Pandey, Manoj Kumar, Investigating the charge transport kinetics in poly-crystalline silicon solar cells for low-concentration illumination by impedance spectroscopy, <i>Solar Energy Materials and Solar Cells</i> 133 (2015) 105-112.. DOI: 10.1016/j.solmat.2014.10.031. | 5.03 |
| 2. | Brijesh Tripathi , Parth Bhatt, Chandra Kanth P, Pankaj Yadav, Bhakti Desai, Manoj Kumar Pandey, Manoj Kumar, Temperature Induced Structural, Electrical and Optical Changes in Solution Processed Perovskite Material: Application in photovoltaics, <i>Solar Energy Materials & Solar Cells</i> 132 (2015) 615–622. DOI: 10.1016/j.solmat.2014.10.017. | 5.03 |
| 3. | Brijesh Tripathi , Pankaj Yadav, Kavita Pandey, Pooja Kanade, Manjeet Kumar, Manoj Kumar, Investigating the role of graphene in the photovoltaic performance improvement of dye-sensitized solar cell, <i>Materials Science and Engineering B</i> (2014) DOI: 10.1016/j.mseb.2014.09.016. | 2.122 |
| 4. | Pooja Kanade, Pankaj Yadav, Manoj Kumar, Brijesh Tripathi* , Plasmon induced photon manipulation by Ag nanoparticle coupled graphene thin-film: Light trapping for photovoltaics, <i>Plasmonics</i> (2014) DOI: 10.1007/s11468-014-9790-4. | 2.738 |
| 5. | Brijesh Tripathi , Pankaj Yadav, Manoj Kumar, Charge Transfer and Recombination Kinetics in Dye-Sensitized Solar Cell using Static and Dynamic Electrical Characterization Techniques, <i>Solar Energy</i> 108 (2014) 107-116. DOI: 10.1016/j.solener.2014.06.037. ISSN: 0038-092X. | 3.541 |
| 6. | Pankaj Yadav, Brijesh Tripathi , Kavita Pandey, Manoj Kumar, Recombination kinetics in silicon solar cell under low-concentration: Electro-analytical characterization of space-charge and quasi-neutral regions, <i>Phys. Chem. Chem. Phys.</i> 16 (2014) 15469-15476 DOI:10.1039/C4CP01115E. ISSN: 1463-9076. | 3.829 |
| 7. | Pankaj Yadav, Brijesh Tripathi , Kavita Pandey, Manoj Kumar, Effect of varying concentration and temperature on steady and dynamic parameters of low concentration photovoltaic energy system, <i>International Journal of Electrical Power & Energy Systems</i> 61 (2014) 101-110. DOI: 10.1016/j.ijepes.2014.03.016. ISSN: 0142-0615. | 3.432 |

8. **Brijesh Tripathi**, Pankaj Yadav, Siddharth Rathod, Manoj Kumar, Performance analysis and comparison of two silicon material based photovoltaic technologies under actual climatic conditions in Western India, *Energy Conversion and Management* 80 (2014) 97-102. DOI: 10.1016/j.enconman.2014.01.013. ISSN: 0196-8904. 3.59
9. **Brijesh Tripathi**, Pankaj Yadav, Manoj Kumar, Indrajit Mukhopadhyay, Plasmon Enhanced Light Trapping to Improve Efficiency of Dye-Sensitized Solar Cell, *Journal of Nanoscience and Nanotechnology* (JNN), 14 (2014) 2624-2629. ISSN: 1533-4880 (Print); EISSN: 1533-4899 (Online) 1.339
10. **Brijesh Tripathi**, Pankaj Yadav, Manoj Kumar, Theoretical upper limit of short-circuit current density of TiO₂ nanorod based dye-sensitized solar cell, *Results in Physics* 3 (2013) 182-186. NA
11. Pankaj Yadav, **Brijesh Tripathi**, Manoj Kumar, Exergy, Energy, and Dynamic Parameter Analyses of Indigenously Developed Low-Concentration Photovoltaic System, *International Journal of Photoenergy*, Volume 2013, Article ID 929235 (2013). ISSN: 1110-662X. 2.66
12. Pankaj Yadav, **Brijesh Tripathi**, Siddharth Rathod, Manoj Kumar, Real-time analysis of low-concentration photovoltaic systems: A review towards development of sustainable energy technology, *Renewable and Sustainable Energy Reviews* 28 (2013) 812-823. ISSN: 1364-0321. 5.51
13. **Brijesh Tripathi**, Pankaj Yadav, Manoj Kumar, Effect of varying Illumination and Temperature on Steady State and Dynamic Parameters of Dye-Sensitized Solar Cell using AC Impedance Modeling, *International Journal of Photoenergy*, Volume 2013, Article ID 646407 (2013). ISSN: 1110-662X 2.66
14. **Brijesh Tripathi**, Manoj Kumar, Application of Metal Nano-particle Embedded Dielectric Thin-Film to Improve Efficiency of dye-Sensitized Solar Cell, *Journal of Nano Energy and Power Research*, 2 (2013) 48-53. ISSN: 2153-6740 NA
15. **Brijesh Tripathi**, Manoj Kumar, Effect of nanorod diameter on the short-circuit current density of Dye-sensitized solar cell, *J. Comput. Theor. Nanosci.* 10 (2013) 2361-2365. ISSN: 1546-1955 (Print); EISSN: 1546-1963 (Online) 1.032

16. **Brijesh Tripathi**, Pankaj Yadav, Manoj Kumar, Plasmon-Enhanced Light Trapping to Improve Efficiency of TiO₂ Nanorod-Based Dye-Sensitized Solar Cell, *Plasmonics* 8 (2013) 1501-1507; DOI:10.1007/s11468-013-9564-4. [ISSN: 1557-1955 (print version) ISSN: 1557-1963 (electronic version)] 2.738
17. Pankaj Yadav, **Brijesh Tripathi**, Makarand Lokhande, Manoj Kumar, Estimation of steady state and dynamic parameters of low concentration photovoltaic system, *Solar Energy Materials and Solar Cells* 112 (2013) 65-72. [ISSN: 0927-0248] 5.03
18. Pankaj Yadav, **Brijesh Tripathi**, Makarand Lokhande, Manoj Kumar, Effect of temperature and concentration on commercial silicon module based low-concentration photovoltaic system, *Journal of Renewable and Sustainable Energy* 5 (2013) 013113 [ISSN: 1941-7012]. 1.51