List of Publications

International Journals

1. ZnO based quantum dot sensitized solar cell using CdS quantum dots
   Neetu Singh, R. M. Mehra, Avinashi Kapoor and T. Soga
   J. Renew. and Sustain. Ener. 4, 013110 (2012)

2. Ageing effect in structural properties of ZnO nanoparticles with pH variation for application in solar cells
   Neetu Singh, Dhruvasi, Davinder Kaur, R. M. Mehra and Avinashi Kapoor

3. Synthesis and characterization of ZnO nanoparticles
   Neetu Singh, R. M. Mehra and Avinashi Kapoor

4. Bandgap tailoring of CdSe quantum dots using low temperature synthesis for quantum dot sensitized solar cells
   Neetu Singh, R. M. Mehra, Avinashi Kapoor and T. Soga
   Renewable Energy (Communicated, July 2012)

National Journals

5. Modeling of dye sensitized solar cells
   Neetu Singh, R. M. Mehra and Avinashi Kapoor
**International Conferences**

1. Harnessing solar energy using CdS quantum dots as sensitizer  
   **Neetu Singh**, R. M. Mehra and Avinashi Kapoor  
   International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials (ICWN CN-2012)  
   Department of Physics, University of Delhi, New Delhi.  
   **13-16 Mar’ 2012**

2. Bandgap tailoring of single crystalline CdSe quantum dots using low temperature synthesis  
   **Neetu Singh**, R. M. Mehra and Avinashi Kapoor  
   Frontier Nano-materials for Energy (FNE-2012)  
   School of Engineering & Technology, Sharda University, Greater Noida, U.P.  
   **9-11 Jan’ 2012**

3. Ageing effect in ZnO nanoparticles with pH variation  
   **Neetu Singh**, Davinder Kaur, Dhruvasi, R. M. Mehra and Avinashi Kapoor  
   Current Developments in Atomic, Molecular, Optical and Nano-Physics (CDAMOP-2011)  
   Department of Physics, University of Delhi, New Delhi.  
   **14-16 Dec’ 2011**

4. Synthesis and characterization of ZnO nanoparticles  
   **Neetu Singh**, R. M. Mehra and Avinashi Kapoor  
   International Symposium on Semiconductor Materials and Devices (ISSMD-2011)  
   M. S. University of Baroda, Vadodra, Gujarat  
   **28-30 Jan’2011**
National Conferences

5. 120 MeV $\text{Ag}^{9+}$ ion irradiation effects on structural and optoelectronic properties of ZnS/TiO$_2$ core-shell quantum dots
   Prabha Sana, Neetu Singh, Shammi Verma, K. Phaneendra, D. C. Agarwal, Avinashi Kapoor and M. M. Malik
   National Workshop on Application of Ion Beam in Device Fabrication and Nanotechnology
   School of Instrumentation, Devi Ahilya University, Indore – 452 001
   5-6 Mar’ 2012

6. Effect of pH variation on structural and optical properties of ZnO nanoparticles
   Neetu Singh, R. M. Mehra and Avinashi Kapoor
   National Seminar on Recent Trends in Micro and Macro Physics (NSRTMMP-2011)
   Department of Physics, Government PG College Gopheswer, HNB Garhwal University
   12-13 Oct’ 2011

7. Synthesis of ZnO nanoparticles via microemulsion route
   Neetu Singh, Prerna Chaturvedi, R.M.Mehra and Avinashi Kapoor
   Advancements and Futuristic Trends in Material Sciences (AFTMS-2011)
   M. J. P. Rohilkhand University, Bareilly
   26-27 Mar’ 2011