

## **Dr. MRIDULA TRIPATHI**

### **List of Publications :**

1. Ruby Upadhyay, **Mridula Tripathi**, Ashutosh Pandey and Priyanka Chawla, **Performance of CeO<sub>2</sub>-TiO<sub>2</sub> Admixed Photoelectrode for Natural Dye Sensitized Solar Cell**, Published in Journal of Solid State Electrochemistry, (Springer) (2014).DOI 10.1007/s10008-014-2426-y,
2. **Mridula Tripathi** and Priyanka Chawla, CeO<sub>2</sub>-TiO<sub>2</sub> photoanode for solid state natural dye-sensitized solar cell, Ionics, ISSN No. 1862-0760, (Springer) (2014).
3. Ravindra Kumar Gupta, Priyanka Chawla, **Mridula Tripathi**, A.K. Shukla and Archana Pandey. **Synergistic antioxidant activity of tea with ginger, black pepper and tulsi**. Int., J. Pharmacy and Pharmaceut. Sci., Vol. 6 (5), pp. 477-479, 2014.
4. Ruby Upadhyay, Mridula Tripathi and Ashutosh Pandey, **Surface modification of Semiconductor photoelectrode for better photoelectrochemical performance**, High Energy Chemistry ,Springer 47,6 (2013) 308-314.
5. **Mridula Tripathi**, Ruby Upadhyay, Ashutosh Pandey, **Novel dye based photoelectrode for improvement of solar cell conversion efficiency**, published in Applied solar energy Journal,( Springer)Volume 49, Issue 1, pp 54-57 (2013).
6. **Mridula Tripathi**, Ruby Upadhyay, Ashutosh Pandey and P. K. Dubey, **Natural dye based photoelectrode for improvement of Solar Cell performance**, Ionics, springer ISSN No. 1862-0760,DOI 10.1007/11581-102-0833-6, December (2012).
7. **Mridula Tripathi**, Ruby Upadhyay and Ashutosh Pandey, **Semiconductor photoelectrochemical solar cells based on admixing of nano materials for renewable energy**, Published in Journal of Ambient energy (Taylor & francis) Volume 33, Number 4, 1 December, pp. 171-176(6), ISSN No. 2162-8246,(2012).
8. **Mridula Tripathi**, Shivangi Trivedi ,Ravindra Dhar, Markandey Singh,N.D Pandey, and S. L. Agrawal **Structural, Thermal and Dielectric Studies of [PVA –LiAc]:TiO<sub>2</sub> polymer nano composite system** published in Phase transition (Taylor & francis)DOI:10.1080/01411594.2011.573456,(2011).
9. **Mridula Tripathi**, Ruby Upadhyay, Shivangi Trivedi, Ashutosh Pandey and Kamlesh Pandey, **Production of solar hydrogen energy by nanostructured semiconductor photoelectrode**, Published in Bhartiya Vaigyanik evam Audyogik Anusandhan Patrika,(NISCARE) Vol. No. 19, pp. 75-78, ISSN No.: 0771-770. (June 2011).
10. Kamlesh Pandey, Mrigank Mauli Dwivedi S. L. Agrawal, Markandey Singh and **Mridula Tripathi**, **Dielectric Relaxation studies on ( PEO:SiO<sub>2</sub>): NH<sub>4</sub>SCN Nano Composite polymer electrolyte films**. Journal of material Science, (Springer)DOI 10.1007/s10853-009-3833-9. (2009)
11. Kamlesh Pandey, Mrigank M. Dwivedi, **Mridula Tripathi Study of Dehydrated Salts: Electrolyte for Intermediate Temperature Fuel Cell** *Portugalete Electrochemica Acta*, 27(2), 99-110.( 2009).
12. **Mridula Tripathi**, Kamlesh Pandey and M.M. Dwivedi **Structure, Interaction and Thermal study in Electrolyte of Polyethylene Oxide/ Silica/ Ammonium Thiocyanate Nanocomposite Electrolyte**. **Polymer Composites**, (Wiley)Volume 30, Issue4, Pages 503-509, (2008).

13. Kamlesh Panday, Mrigank Mauli Dwivedi S. L. Agrawal Markandey Singh and **Mridula Tripathi**, **Structural, Thermal and Ion Transport studies on Nano polymer composite Electrolyte (PEO+SiO<sub>2</sub>):NH<sub>4</sub>SCN system** IONICS,(Springer) DOI 10.1007/s11581-008-0210-7,4 march( 2008).
14. **Mridula Tripathi**, Kamlesh Panday and Shiv Datt Kumar ,**Surface modification of semiconductor photoelectrode for improved solar cell performance**, Solar Energy Material and Solar Cell,(Elsevier) Vol 9,issue 18,1663-1668,(2007).
15. **Mridula Tripathi**, Kamlesh Panday and Mrigank Mauli Dwivedi, **Study of dehydrated salt : Electrolyte for fuel cell**, Vigyan Pragati Bhartiya Vaigyanik Evam Audyogik Anusandhan Patrika , issue 15,117-123, December (2007)
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18. K.S.Babu, R.N.Pandey, **M.Misra** and O.N.Srivastava, **Solar Hydrogen Production Using Semiconductor Septum (n-CdSe/Ti and ns TiO<sub>2</sub>/Ti)Electrode Based Photoelectrochemical Solar Cells**,International Journal Hydrogen Energy, Vol. 23, No.10, pp.861-865, (1998).
19. **Mridula Misra**, R.N.Pandey and O.N.Srivastava, **Solar Hydrogen Production Employing n-TiO<sub>2</sub>/Ti SC-SEP, Photoelectrochemical Solar Cell**. International Journal Hydrogen Energy,(Elsevier) Vol. 22, No.5, pp.501-508, (1997).
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## Articles/Chapters published in Books

1. **Mridula Tripathi**, Ruby Upadhyay and Priyanka Chawla,, Antimicrobial activity of asparagus racemosus. Antibacterial activity in natural and synthetic compounds. ISBN No. 978-81-88492-57-2, (2013).
2. **Mridula Tripathi**, Ruby Upadhyay, Shivangi Trivedi and A.K. Shukla, Use of nanomaterials as antimicrobial agents in water and waste treatment. Antibacterial activity in natural and synthetic compounds. ISBN No. 978-81-88492-57-2, (2013).
3. **Mridula Tripathi**, Priyanka Chawla and Ruby Upadhyay, Phytochemicals- Future Nutrients., Article published in Cure environment Bulletin, ISSN No. 2319-1333, (2013).
4. **Mridula Tripathi** and Ruby Upadhyay, Rang sugrahikrit solar cell., Article Published in Vigyan Patrika. ISSN No. 373-1200, (2013).
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1. **Mridula Tripathi** and Priyanka Chawla, Natural sensitizers for polymer gel electrolytes based dye sensitized solar cells, Innovative and Modern technologies for sustainable agriculture and rural development, ISBN No. 978-81-923494-3-5, 2014
2. **Mridula Tripathi** and Priyanka Chawla, Biosynthesized Silver Nanoparticles as Antimicrobial Agents, Innovative and Modern technologies for sustainable agriculture and rural development, ISBN No. 978-81-923494-3-5, 2014.
3. **Mridula Tripathi**, Priyanka Chawla and Kamlesh pandey, **Natural Photosensitizers for Solid State Dye Sensitized Solar Cell**, Proceedings of International Conference on Renewable energy, held on 16-17 Jnauary, 2014.
4. Nidhi Asthana, **Mridula Tripathi**, Kamlesh Pandey and M.M. Dwivedi **Synthesis and Chracterization of PVdF- $\{(NH_4)_2 [C_4H_8(COO)_2]\}$ : CNT Gel electrolyte for LT fuel cell application**, Proceedings of International Conference on Renewable energy, held on 16-17 Jnauary, 2014.
5. **Mridula Tripathi** and Priyanka Chawla **Natural Solid Dye Sensitized Solar Cell- Approach to Green Energy** Proceedings of Intertnational Conference on Health, Environment and Industrial Biotechnology , ISBN No. 978-9-33-290137-7, 2013.
6. **Mridula Tripathi**, Priyanka Chawla and Tandan Singh **“IQsn ewlyh dh lw[kh tM+® ds essFksukjy vorj.k dh vkDIhdj.kjks/kh lfdz;rk”** Proceedings of fo'o dh Áxfr esa foKku rFkk ÁkS|kSfxdh dk ;ksxnku” ,DRDO, Delhi, 2013.
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8. **Mridula Tripathi**, Shivangi Trivedi ,Ruby Upadhyay, markandey Singh,N.D Pandey,Kamalesh Pandey **Study of ion transport behavior in (PVA-NH4I):SIO2 nanocomposite polymer electrolyte**. Solid State Ionics for Sustainable World Proceedings of the 13th Asian Conference on solid state ionics, Japan, 418-423, World Scientific Publishing Co. Pte. Ltd. (2012).
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- 10.**Mridula Tripathi** , Nitin Srivastava , Kamlesh Pandey and M.M. Dwivedi **Structure, Interaction and Thermal study in Electrolyte of Polyethylene Oxide/Silica/ Ammonium Thiocyanate Nanocomposites Electrolyte.**, International Conference On Future Trends in Composite Materials and Processing, December 12-14, Indian Institute of Technology Kanpur (2007).
- 11.**Mridula Tripathi** , Mrigank Mauli Dwivedi and Kamlesh Panday **Synthesis and characterization of Nano Silica powder by sol gel technique**, International Symposium of Material Chemistry,396-398, 4-8 Dec. BARC ,Trombay Mumbai (2006).
- 12.R.Karn ,**M.Misra** and O.N.Srivastava, **Photochemical studies of In<sub>2</sub>O<sub>3</sub> Admixed nanostructured TiO<sub>2</sub> /Ti in regard to Hydrogen Production through photoelectrolysis.Hypothesis 11** Hydrogen Power Theoretical and Engineering Solutions Neitherland 169-178, (2000).
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- 15.**M. Misra** R.K. Karn and O.N. Srivastava, **Semiconductor Septum Photoelectrochemical Cell for Solar Hydrogen Production**.Physics Department, B.H.U., Varanasi XII World Hydrogen Energy Conference , Buenos Aires, Argentina 21-26 June (1998).
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## Dr. Arti Gupta

### PUBLICATIONS

1. Pharmaceutically Important Fenugreek –Review  
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M.P. Singh, P.K. Tandon, Alka Mehrotra, **Arti Gupta**, J.P. Singh and V.S. Singh.  
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### **BOOK CHAPTER**

1. Catalytic and kinetic applications of ruthenium complexes.  
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1. Catalytic and kinetic application of ruthenium complexes. Praveen Kumar Tandon,  
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A.K.Pandey, Gopal Pandey, Hemlata Pant; ISBN :978-81-923494-3-5, pp.291-306 (2014)

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1. Medical applications of biopolymers

**Arti Gupta**

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2. Software jagat mein chamakta bartiya sitara: Satya Nadella

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8. Green Chemistry  
**Arti Gupta** and Roli Srivastava Chem-world, vol.1(2012).
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## **Dr. Roli Srivastava**

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5. K. Behari, **Roli Srivastava** and Veena, Ruthenium (VI) catalysed oxidation of diols by alkaline hexacyanoferrate (III) ion. A kinetic study, J.Chem. Research(S),2001, 182-184
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