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Specializations : Nanotechnology and Ultrasonics
Experience : Teaching: 3 Years Research : 5 years

Publications : National and International :

1. Thilagavathi Thirugnanam, Effect of polymers (PEG and PVP) on Sol-Gel synthesis of Microsized Zinc Oxide. Journal of Nanomaterials, Volume 2013, Article ID 362175, 7 pages.
2. T. Thilagavathi and D. Geetha, Low-temperature hydrothermal synthesis and characterization of ZnO Nanoparticles. Indian Journal of Physics, Vol. 87, 2013, 1-4.
3. T. Thilagavathi and D. Geetha, Nano ZnO structures synthesized in presence of anionic and cationic surfactant under hydrothermal process. Journal of Applied Nanoscience, Vol. 2, 2012, 1-6.
4. D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Study at a molecular level of the transfer process of anionic, cationic and non-ionic surfactants from water to β -cyclodextrin, ARPN journal of Engineering and Applied science, Vol.4, No.6, 2009, 61-65.
5. D. Geetha and T. Thilagavathi, Liquid crystalline behavior of Sodium Dodecyl Benzene sulphonate, N-Cetyl N,N,N – Trimethyl Ammonium Bromide, Poly (Ethylene Oxide) (20) Sorbitan Monolaurate: an Experimental study, Middle-East journal of Scientific Research 4(3): 2009, 185-189.
6. D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Influence synthetic polymer on aqueous anionic surfactant (SDBS) micelle investigated by FTIR and ultrasonic study, Journal of Composite Interface, 17, 2010, 2-3.
7. D. Geetha and T. Thilagavathi, Hydrothermal synthesis of Nano ZnO structures from CTAB, Digestive journal of Nanomaterial and Biostructures, Vol.5, No.1, 2010, 297-301.
8. D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan Acoustical studies on solution of surfactant polymer in ethanol, Journal of Ultrascience, 21(2), 2009, 239-244.

9.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan Ultrasonic studies on aqueous biopolymer and carbohydrate solution, Annamalai University science journal, 45, 2008, 51-58.

Conference Attended: National and International

1.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan , Ultrasonics Studies on Various Carbohydrates in Aqueous Solution, Recent Advancements in material Science-2006 (29th -30th December), Ramakrishna Mission Vivekananda College, Chennai.

2.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Influence of Synthetic Polymer on Aqueous Anionic Surfactant (SDBS) Micelle Investigated by FTIR and Ultrasonic Study.(22, 23 & 24th Sep - 2008) Second international conference on Polymer Blends, Composites, IPNs Membranes, Polyelectrolytes and Gels: Macro to Nano Scales (ICBC – 2008). School of Chemical sciences, Mahatma Gandhi University, Kottayam.

3.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, FTIR and ultrasonic studies on biopolymers in aqueous carbohydrate solutions, National seminar on theoretical and chemical sciences (TACS 2008), (22nd & 23rd, Feb-2008), Department of Chemistry, Annamalai University.

4.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Ultrasonic studies on cellulose derivative in ethylacetate/Alcohol solutions National conference on emerging trends in chemical research (NCETCR). Department of Chemistry, Annamalai University.(17th & 18th, Oct-2008) 17th & 18th, Oct-2008

5.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Thermodynamic study of the aggregation behavior of sodium dodecyl benzene sulphonate, cetyl trimethyl ammonium bromide and Tween 20 in aqueous solution. National conference on recent trends in crystal growth, thin films and nano-structured materials, Department of Physics, Aditanar college of arts and science, Tiruchendur.(5th & 6th Aug-2009)

6.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Effect of electrolytes in aqueous critical micellar concentrations of anionic, cationic and nonionic surfactants – An ultrasonic study. Eighteenth National Symposium on Ultrasonics Proceedings NSU-XVIII, VIT University, Vellore, (21 & 23 Dec-2009)

7.D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Miscibility studies on aqueous polymer/surfactant blends by viscosity and ultrasonic velocity method, National seminar on new frontiers in chemistry NSNFC – 2010, Department of Chemistry, Annamalai University.(15th & 16th Mar-2010).

8. D. Geetha, T. Thilagavathi, P. S. Ramesh and C. Rakkappan, Influence of the Polymers and Surfactant in Aqueous Solutions- Ultrasonics and FTIR Analysis, International onference on Recent Frontiers in Applied Spectroscopy(ICORFAS-2010),Department of Physics, Annamalai University.(22nd -24th Sep 2010)

9.T. Thilagavathi, D. Geetha, Synthesis and characterization of ZnO/ MgO Nanocomposites, International Conference on Nanomaterials and Nanotechnology, KSR College of Technology, Thiruchengode.(13th -16th Dec 2010).

10.D. Geetha, T. Thilagavathi and P. S. Ramesh, Synthesis and characterization of Nano ZnO particles by hydrothermal process. International conference on nanomaterials: Synthesis, characterization and applications, ICN – 2010.(27, 28 & 29th April - 2010)

11.T. Thilagavathi, D. Geetha, A simple and novel low temperature and characterization of ZnO Nanoparticles, National conference on Advances in Material Science(NCAMS-2012), Department of Physics, Annamalai University (1st &2nd 2012)

Workshop Attended: National and International :-

1.Prof. K. S. Sonachalam memorial XVII interdisciplinary research methodology workshop.(9th-12th March, 2009),Department of Economics, Annamalai University

2. National workshop on Scanning Electron Microscope. (5th March, 2010)
Department of Physics, Annamalai University.

3. One Day Technical Workshop on “CYBER FORENSICS”(20th August, 2010), Department of Information technology, Dhanalakshmi Srinivasan Engineering College, Perambalur.

4. Faculty Development Programme, Internal Quality Assurance Cell,
Government college for women, 22nd Aug 2015