

Curriculum Vitae of K. K. Satheesh Kumar



1. Present Position:

Assistant Professor
Department of chemistry
Gandhigram Rural Institute
(Deemed University)
Gandhigram – 624 302
Dindigul District, Tamil Nadu, India.
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2. Educational Qualifications:

- ✘ Ph. D (Chemistry) – highly commended – 2002
*Central Electrochemical Research Institute, Karaikudi
Bharathidasan university, Tiruchy.*
- ✘ Master of Science (Organic chemistry) – 1994
University of Madras

3. Special training undergone

Participated in the NSS - Orientation course from 24.10.2007 to 2.11.2007 held at Avinashilingam University for Women, Coimbatore.

4. Teaching and Research Experience:

Teaching Experience: 3 years (UG, PG and M. Phil level)
Teaching Inorganic chemistry to undergraduate and postgraduate students

Research Experience: 7 years
Area of research interest:

- ✘ Conducting Polymers - Synthesis, Characterization and its applications.

5. Involvement in institute development:

Programme Officer (from Nov.2006), National Service Scheme (NSS), Department of Chemistry, Gandhigram Rural University, Gandhigram.

6. Research Guidance:

- a) Ph. D degree: -
- b) M. Phil degree: - 1 (doing)

7. List of publications:

- 1) Novel one-pot synthesis of tetrasubstituted phenolic ketones and sulphones.
P. Rajkumar and **K.K. Satheesh Kumar**
Synthetic Commun., 25(17), 2561-2568, 1995.
- 2) Water soluble Polyaniline as Biocide.
K. K. Satheesh Kumar, S. Ponmariappan, S. Geetha and D. C. Trivedi
Corrosion Science and Technology, 31, 239 –242, 2002.
- 3) Electron localization length in polyaniline.
P.K.Kahol, R.P. Perera, **K. K. Satheesh Kumar**, S. Geetha and D. C. Trivedi
Solid State Commun., 125, 369 – 372, 2003.
- 4) Effect of dopants on electron localization length in polyaniline.
P.K.Kahol, **K. K. Satheesh Kumar**, S. Geetha and D. C. Trivedi
Synthetic Metals, 139, 191 - 200 (2003).
- 5) Conducting fabric reinforced Polyaniline film using p-Chlorophenol as Secondary dopant for the Control of Electromagnetic Radiations.
S. Geetha, **K. K. Satheesh kumar** and D. C.Trivedi.
J. Comp. Materials, 39, 647 – 658, 2005
- 6) Polyaniline reinforced conducting E-glass fabric using 4-chloro-3-methyl phenol as secondary dopant for the control of electromagnetic radiations.
S. Geetha, **K. K. Satheesh Kumar** and D. C. Trivedi.
Composites science and technology – 65, 973-980 (2005)
- 7) Improved method to graft polyaniline on E-glass fabric to enhance its electronic conductivity.
S. Geetha, **K. K. Satheesh kumar** and D. C. Trivedi.
J. Applied Polymer Science, 96, 2316- 2323, 2005.
- 8) Freestanding conducting polyaniline film for the control of electromagnetic radiations.
K. K. Satheesh kumar, S. Geetha and D. C. Trivedi.
Current Applied Physics, 5, 603 – 608, 2005.
- 9) Process for the preparation of flexible and free standing conducting polyaniline film.
K. K. Satheesh Kumar, S. Geetha and D. C. Trivedi
U.S. Patent 6,402,992 (June 2002), Indian patent 442/DEL/2001

- 10) Electrical properties of electrospun fibres of PANI-PMMA composites.
V. Jegadeesh babu, **K.K. Satheesh Kumar**, D.C. Trivedi, V.R. Murthy and T.S Natarajan, *J. Engg. Fibres and fabrics*, 2, 25-31, 2007.
- 11) EMI Shielding methods and materials-A review.
S.Geetha, **K.K. Satheesh Kumar**, C.R.K. Rao and M. Vijayan.
Journal of applied polymer science -112, 2073-2086, 2009.
- 12) Defluoridation of water via doping of polyanilines.
M.Karthikeyan, **K.K. Satheesh Kumar** and K.P. Elango
J. Hazardous Materials – 163, 1026-1032, 2009
- 13) Removal of fluoride ions from aqueous solutions by conducting polypyrrole.
M.Karthikeyan, **K.K. Satheesh Kumar** and K.P. Elango
J. Hazardous Materials, 165, 300-305, 2009.
- 14) Conducting polymer/alumina composites as viable adsorbents for the removal of fluoride ions from aqueous solution.
M.Karthikeyan, **K.K. Satheesh Kumar** and K.P. Elango
J. Fluorine Chemistry, 130, 894-901, 2009.
- 15) Development of an efficient anode backfill based on ion conducting paste for cathodic protection of iron and steel structures and pipelines buried under the soil.
R. Baskaran, N. Palaniswamy, N.S. Rengaswamy, **K.K. Satheesh Kumar**, M. Vijayan and S. Geetha, *Indian Patent appl. No. 2536/DEL/2008*.

Papers presented at international conferences / Symposia

- 1) Dopant induced solubilisation of conducting polyaniline.
K. K. Satheesh Kumar, S. Geetha and D. C. Trivedi
ORAL presentation at “International union of Materials research societies” at Bangalore during 13 – 16th Oct.1998. *Abstract No. J.08, Page No. 314*.
- 2) Studies on conducting polymer composites in control of Electromagnetic radiations, S. Geetha, **K. K. Satheesh Kumar** and D. C. Trivedi, ORAL presentation at “International union of Materials research societies” at Bangalore during 13 – 16th Oct.1998. *Abstract No. J.09, Page No. 315*.
- 3) Water soluble Polyaniline as Biocide.
K. K. Satheesh Kumar, S. Ponmariappan, S. Geetha and D. C. Trivedi, ORAL presentation and Published in” 12th Asian-Pacific Corrosion Control Conference 2001” at Seoul, Korea, during Oct.8 – 12, 2001.
- 4) Polyaniline reinforced E-glass fabric/film using 4-bromophenol as a secondary dopant for the contraol of electromagnetic radiations.

K.K. Satheesh Kumar, S. Geetha, D.C. Trivedi, International conference on Technical and nonwovens, Nov. 11-13, 2008. at IIT, Delhi.

Papers presented at National Conferences

- 1) Polyaniline and its composites for EMI shielding.
S. Geetha, **K. K. Satheesh Kumar** and D. C. Trivedi, ORAL presentation and published in “ Proceedings in seminar 2000” at Ambarnath during 14 – 15th Dec. 2000. *Page No. 264-270.*
- 2) Free Standing Polypyrrole Film in Control of EMI.
D. C. Trivedi, **K. K. Satheesh Kumar** and S. Geetha, ORAL presentation and published in “ Proceedings in FGM 2001” at Ambarnath during 13-14th Dec.2001. *Page No. 193 – 199.*
- 3) Modified Zinc Electrodes for Aerospace Batteries.
J. Vatsala Rani, D.C.Trivedi, **K.K.Satheesh Kumar**, S. Lakshminarayanan and P.C. Warriar, ORAL presentation and Published in “Aerospace Technology : Challenges in the Millennium” at Hyderabad during 15 – 16th Dec.2003. *Page No .324 – 330.*
- 4) Removal of fluoride ions from aqueous solution by conducting polypyrrole.
M.Karthikeyan, **K.K. Satheesh kumar**., K.P. Elango, Papers presented in National conference on Emerging Trends in Chemical Research, at Annamalai University on 17 - 18th October 2008.