

Faculty Profile

1. Name - **Koppalkar R. Anilkumar**
2. Father's name - Ramrao Koppalkar
3. Address:
College - Associate Professor,
Department of Physics,
S.S.Margol College of Arts, Science &
Commerce, Shahabad – 585 228.
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- Residence - 'Ram Nilaya' H.No.14 -16,
Prashant Nagar (B), Rajapur Extn.,
Gulbarga 585 106.
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4. Date of Birth - 19th September, 1962.

5. Educational Qualification:

CLASS	BOARD/ UNIVERSITY	YR. OF PASSING	SUBJECTS STUDIED	RESULT & PERCENTAGE
S.S.L.C.	SSLC Board Bangalore	1977 April	Kannada-English- Hindi-S.Studies, Science & Maths	II Class
B.Sc	Gulbarga University	1982 April	Physics (Major) Chemistry(Minor) Maths (Minor)	II Class
M.Sc.	Gulbarga University	1984April	Physics (Solid State Physics)	II Class

Additional Qualification:

- ☐ Ph.D in Materials Science (Physics) – 2009.
- ☐ Thesis entitled “**Studies on Conducting Polymer Transition Metal Oxides Composites**” under the guidance of **Dr. M. V. N. Ambika Prasad.**

Teaching Experience:

- ☐ Pre University & Under Graduate Class (B.Sc.) since 1984
- ☐ PG Class Three years Since June, 2006- June, 2009

Life Memberships:

- ☐ Indian Association of Physics Teachers' (I.A.P.T.).
- ☐ Karnataka Rajya Vijanan Parishat (K.R.V.P.).
- ☐ Kannada Sahitya Parishat
- ☐ Gulbarga University Private College Teachers' Association (GUPCTA).

Orientation / Refresher Courses:

- Orientation Course organized by Academic Staff College, Mysore, University, Mysore (02.05.1996 to 28.05.1996)
- Refresher Course in Physics organized by, Department of Physics, Gulbarga University, Gulbarga. (17.11.1997 to 8.12.1997)
- Refresher Course in Physics organized by Academic Staff College, Osmania University, Hyderabad. (04.11.2004 to 29.11.2004)
- Refresher Course in Physics organized by Academic Staff College, Osmania University, Hyderabad. (07.07.2009 to 28.07.2009)

Referees of International / National Journals

- Journal of Applied Polymer Science
- Sensor Letter
- Emerald: Sensor review
- IEEE Sensor Journal
- Journal of Biomaterials and Nanobiotechnology
- Journal of Polymers and Polymer composites
- Journal of Composite Materials
- Physica B
- Journal of Materials Science & Engineering

The Editors of “MATERIALS SCIENCE AND ENGINEERING B” Elsevier, Amsterdam, The Netherlands Awarded Certificate of Reviewing.

Seminar/Symposium/Workshop/Conference attended & organized:

- Workshop on Under Graduate Physics Curriculum Development, organized by Department of Physics, Gulbarga University, Gulbarga 01-10-1994 to 03-10-1994
- National Seminar on Laser and Condensed matter Physics organized by S.B.Science College, Gulbarga –26-12-1988 to 30-12-1998.
- National Seminar on ‘**Harnessing Solar Energy**’ (sponsored by U.G.C.) held at S.B. College of Science, Gulbarga – 11th to 13th March, 2000.
- One Day Workshop on ‘**Experiments with Laser**’ – Organized by Department of Physics, Gulbarga University, Gulbarga 23-01-2001.

- Attended short term course on “New Trends in Materials Chemistry” organized by Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore & Department of Chemistry, Gulbarga University, Gulbarga from 16.01.2002 to 18.01.2002.
- Workshop on Under Graduate Physics Curriculum Development, organized by Department of Physics, Gulbarga University, Gulbarga 19-09-2003 to 20-09-2003.
- NAAC-preparation of SSR and Self evaluation report at Smt V. G. Womens College, Gulbarga on 27-03-2003.
- Workshop for U G level physics teachers organized by IAPT and Infosys Bangalore 13,18-October 2003 at VVS first grade college Bangalore.
- Presented a paper in UGC sponsored National Seminar on “Promotion of Basic Sciences” organized by NV Degree College, Gulbarga
- Participated & presented a paper in Third National Teachers Science Conference, 27 – 30th January 2007 held at Mysore sponsored by KRVP / NCSTC network & NCERT and won the best presentation award on “Innovative Methods in Teaching Physical Science”.
- Attended national seminar on “Advances in Materials Science” (AMS – 06) organized by department of Materials Science, Gulbarga University, Gulbarga
- Presented a paper in national seminar on “Advances on Materials Science” (AMS-07) sponsored by DST, organized by Department of Materials Science , Gulbarga University, Gulbarga on Synthesis and DC conductivity studies on Polyaniline / SrTiO₃ composite.

UGC sponsored Minor Research Project : Completed : 02 As Co-PI

Department of Science & Technology (DST) Major Research Project: Completed as Co-PI in association with Dr.M.V.N.Ambika Prasad, Professor, Department of Materials Science, Gulbarga University, Gulbarga.

Important positions held in college:

- 1) **Principal, S.S.Margol PU College of Arts, Science & Commerce, Shahabad since 10th August, 2011**
- 2) **IQAC member since 2005**
- 3) **Worked as Coordinator National Assessment and Accreditation Council (NAAC).**
- 4) **Working as Principal, S.S.Margol College of Arts, Science & Commerce, Shahabad, since 01.05.2012**
- 5) **Member of Mission Group of Karnataka Knowledge Commission**

- 6) **Nominated as faculty member from under graduate stream to post graduate of Gulbarga University, Kalaburagi for a period of 2 years. (2016-2018)**
- 7) **Presently Nominated as Academic Council member of Gulbarga University, Kalaburagi for a period of 2 years.**

Research Training:

Attended 5 days National Workshop-Symposium on “**Recent Developments in Conducting Polymer Research and Device Application**” sponsored by Department of Science and Technology, New Delhi organized by **Central Electrochemical Research Center, Karikudi, Tamilnadu** on 26th -30th June 2006

Research Paper Published: You can follow through below link

<https://scholar.google.com/citations?user=p59NlvsAAAAJ&hl=en>

Publication in National / International Journals

1. Effect of Molybdenum trioxide (MoO₃) on Electrical Properties of Polyaniline (PANI). **Koppalkar. R. Anilkumar**, Ameena Parveen, G.R.Badiger and M.V.N.Ambika Prasad. **Physica B., Vol 404 (2009) 1664**
2. Thermoelectric Power factor for Polyaniline / Molybdenum trioxide Composites. **Koppalkar. R. Anilkumar**, Ameena Parveen, G.R.Badiger and M.V.N.Ambika Prasad. **Ferroelectrics., Vol. 385 (2009) 7014**
3. Frequency Dependent Conductivity and Dielectric Permittivity of Polyaniline / TiO₂ Composites. Manjunath.S, **Koppalkar.R.Anilkumar** and M.V.N.Ambika Prasad. **Ferroelectrics Letters, 35 (01-02) (2008) 36**
4. Dielectric Spectroscopy of Polyaniline / Stannic oxide (PANI / SnO₂) composites. Manjunath.S, **Koppalkar.R.Anilkumar** and M.V.N.Ambika Prasad. **Ferroelectrics, 366(01) (2008) 22**
5. Synthesis, Characterization and Electrical Properties of Polyaniline / CaTiO₃ Composites. Ameena Parveen, **Koppalkar.R.Anilkumar**, Shrikant Ekhelkar, M. Ravensiddappa and M.V.N.Ambika Prasad. **Ferroelectrics, 377(01) (2008) 63**
6. Dielectric Spectroscopy of Polyaniline – Dy₂O₃ Composites. Sangashetty.B. Kalyane, **Koppalkar. R. Anilkumar**, Shrikant Ekhelkar, M. Ravensiddappa and M.V.N.Ambika Prasad. **Physica B., Vol.404(2009)1863**
7. Synthesis, Characterization and Electrical Properties of Polyaniline / SrTiO₃ Composites. Ameena Parveen, **Koppalkar. R.Anilkumar**, Shrikant Ekhelkar and M.V.N.Ambika Prasad. **Materials Science Research India, Vol .6(1,(2009)179**

8. Humidity Sensing Behavior of Polyaniline / Strontium Arsenate Composites. Machappa T., M. Sasikala, **Koppalkar R. Anilkumar**, M. V. N. Ambika Prasad. **Sensors & Transducers Journal**, Vol. 107 (2009) 77
9. Synthesis, Characterization and DC Conductivity studies of c/s/MO/Polyaniline nanocomposites. Shrikant S. Ekhelikar, **Koppalkar R. Anilkumar**, Aashis Roy and M.V.N.Ambika Prasad. **Nanobiomaterials Special issue (2010)4**.
10. Synergic effect nanostructured zinc oxide on Streptococcus Aurea. Aashis Roy, Venubabu Thatti, **Koppalkar R. Anilkumar**, Shrikant S. Ekhelikar, S.M.Gadad and M.V.N.Ambika Prasad. **Nanobiomaterials Special issue (2010)67**.
11. Effect of Nano - titanium dioxide with different antibiotics against Methicillin-resistant Staphylococcus aureus. Aashis. S. Roy, Ameena Parveen, **Anilkumar.R.Koppalkar** and M.V.N.Ambika Prasad; Journal of Nanobiotechnology (Article in Press)
12. Microwave Absorption Studies on Polyaniline – **Dysprosium oxide** (PANI-Dy₂O₃) composites. Sangshetty.Kalyane, **Koppalkar R. Anilkumar**, K.Sudheendran, K.C.James Raju and M. V. N. Ambika Prasad. *Ferroelectrics*, UK Journal
13. Core-Shell method of Synthesis, Characterizations and ac conductivity studies of polyaniline/n-TiO₂ composites, *Aashis. S. Roy*, **Koppalkar.R.Anilkumar** and M.V.N.Ambika Prasad; *J. Appl. Poly. Sci*, DOI 10.1002/app.33730
14. Studies of AC Conductivity and Dielectric Relaxation Behavior of CdO doped nanometric Polyaniline, *Aashis. S. Roy*, **Koppalkar.R.Anilkumar** and M.V.N.Ambika Prasad; *J. Appl. Poly. Sci*, (2011)
15. Selectivity and Influence of Ta₂O₅ on Polyaniline surface for Liquid Petroleum Gas Sensing; *Aashis.S.Roy*, M.V.N.Ambika Prasad and **Koppalkar.R.Anilkumar**; *Emerald: Sensor Review*; (2011)
16. Impedance spectroscopy of nanostructured polyaniline/CdO composites, *Aashis. S. Roy*, **Koppalkar.R.Anilkumar** and M.V.N.Ambika Prasad; *Ferroelectric*, DOI: 10.1080/00150193.2011.531190
17. Synthesis and characterization of elongated chain-like Nanostructure Polyaniline in Ice cube" *Aashis. S. Roy*, **Koppalkar.R.Anilkumar** and M.V.N.Ambika Prasad; *J. polymer & polymer composites*, 2010, (Accepted)
18. Effect of Nano - Titanium Dioxide with Different Antibiotics against Methicillin-Resistant *Staphylococcus Aureus*; *Aashis. S. Roy*, Ameena Parveen, **Koppalkar.R.Anilkumar** and M.V.N.Ambika Prasad, *J. Biomaterials and Nanobiotec*, 2010, 1, 37-41
19. Sensitivity and Selectivity Studies on Polyaniline / Molybdenum Trioxide Composites to Liquid Petroleum Gas, *Aashis. S. Roy*, Machappa T, M. V. N. Ambika Prasad and **Koppalkar.R.Anilkumar**; *Sensor and Transducer*; Vol. 125, Issue 2, February 2011, pp.220-228

20. Synthesis and morphological change in poly (ethyleneoxide) – sodium chlorate based polymer electrolyte complex with polyaniline. H. Kunteppa, *Aashis.S.Roy*, **Anil. R. Koppalkar**, M. V. N. Ambika Prasad, *Physica. B* (2010), doi: 10.1016 / j.physb. 2010. 11.074
21. Studies on Fourier Transform Infrared Spectroscopy, Scanning Electron Microscope, and Direct Current Conductivity of Polyaniline Doped Zinc Ferrite, Ramesh Patil, *Aashis S. Roy*, **Koppalkar R. Anilkumar**, Srikant Ekhelikar, *J. App. Poly. Sci*; DOI 10.1002/app.33600
22. Electrical Conductivity of Polyaniline /NiZnO₃ composites: A solid state electrolyte; Ramesh Patil, *Aashis. S. Roy*, **Koppalkar R. Anilkumar**, Srikant Ekhelikar, *Ferroelectric, (In print- 2011)*

Presented papers in National / International Conference/ Seminars

1. Design of Sensor Setup and Study of humidity Sensing Behaviour of Conducting Polyaniline / Ceramic Composites. Machappa.T, **Koppalkar. R. Anilkumar**, M. Sasikala and M.V.N.ambika Prasad **IEEE- International Conference on Sensor Technology – 2008**, held at Tiwan
2. Transport Properties of Polyaniline / Zirconium oxide Composites **Koppalkar. R. Anilkumar**, Ameena Parveen, Shrikant Ekhelikar, G.R.Badiger and M.V.N.Ambika Prasad. **National Seminar on Novel Polymers, Nanoscience and Green Chemistry**, held at Department of Chemistry, Kakatiya University, Warangal on 22,23rd February, 2008.
3. Synthesis and temperature dependent dc conductivity of PANI / Neodymium oxide and Aluminum trioxide composites. Srikant Ekhelikar, **Anilkumar R. Koppalkar**, G.R.Badiger and M.V.N.Ambika Prasad **National Conference on “Recent trends on Materials for Advanced Technology”** held at Department of Physics, Dr. Babasheb Ambedkar Marathwada University, Aurangabad on 28-30th January, 2007
4. Synthesis, Characterization of Polyaniline / SrTiO₃ Composites. Ameena Parveen, **Koppalkar.R.Anilkumar**, Shrikant Ekhelikar and M.V.N.Ambika Prasad. **National conference on Advances in Materials Science (AMS-07)** held at Department of Materials Science, Gulbarga University, Gulbarga on 26,27th January, 2007
5. Participated and presented a paper in UGC sponsored National Seminar on “**Novel Polymers, Nanoscience and Green Chemistry**” and won the second prize in poster presentation award on “Transport Properties of Polyaniline / Zirconium oxide Composites” organized by Department of Chemistry, Kakatiya University, Warangal (22nd & 23rd February, 2008).
6. **Organized the UGC sponsored National Conference on “Recent Trends in Nanoscience and Green Chemistry” on 23rd & 24th October, 2009 at S.S.Margol College, Shahabad.**

7. Presented a paper in an UGC sponsored **National Seminar on Nanoscience and its applications in different fields of Science and Technology** held at Shrikrishana Degree College, Gunjute, Tq: Umerga, Dist:Usmanabad, Maharashtra state on 7th & 8th February, 2010.
8. Presented a paper entitled “New Approach in Energy Generation” on 12th & 13th March 2010 in an **UGC sponsored National Seminar on “Non-Conventional Energy”** held at Karnataka College Bidar, Karnataka State.
9. Presented a paper entitled “Influence of Liquid Petroleum Gas on the Sensitivity of the Polyaniline / Zirconium dioxide composites”Koppalkar. R. Anilkumar , Aashis. S. Roy, Machappa.T, Shrikant Ekhelikar, Sangashetty Kalyane and M.V.N.Ambika Prasad. **International Conference on recent trends in Materials Science and Technology(ICMST)** organised by Materials Research Society, India(MRSI) & Indian Space Research Organisation (ISRO) on 29-31st October 2010, Thiruvananthapuram, Kerala, India
10. Presented a paper entitled “Comparative study of LPG sensing of Nanostructured Polyaniline Fibers and Bulk Polyaniline” Aashis.S.Roy, Koppalkar.R.Anilkumar Shrikant Ekhelikar, Sangshetty Kalyane and M.V.N.Ambika Prasad. International Conference on Communication, Computation, Control and Nanotechnology on 29-31st October 2010, Organised by Rural Engineering College, Bhalki, Karnataka, India,
11. Attended a conference on “ Advances in Ceramic and Engineering Materials” held at Dept. of Ceramic & Cement Technology, PDA College of Engineering, Gulbarga during 3-01-2009
12. **Participated in workshop on “Computational Materials Science” during March 6th – 8th, 2009 at Indian Institute of Science, Bangalore.**
13. Attended a conference on “Recent Trends in Nanoscience and Green Chemistry” during October 23rd and 24th, 2009 at S.S.Margol College of Arts, Science and Commerce, Shahabad, Gulbarga.
14. Presented a paper on **Synergetic effect of Nanostructured zinc oxide with different antibiotics on Staphylococcus aureus**, held in “Advance in Nanoscience for Different Technology” during 10-11th, February, 2011, at Shrikrishna Mahavidyalaya, Gunjoti, Omerga.
15. **Presented a paper on Surrogate the steam driven mill drives with electric DC motors**; held in “Advance in Nanoscience for Different Technology” during 10-11th, February, 2011, at Shrikrishna Mahavidyalaya, Gunjoti, Omerga.
16. Synthesis, Characterization and DC conductivity studies on polyaniline doped with nanocopper oxide; on “Advance in Nanoscience for Different Technology” during 10-11th, February, 2011, at Shrikrishna Mahavidyalaya, Gunjoti, Omerga.
17. Attended a symposium on “National Seminar on X-ray Diffraction Techniques” held at Dept. of Physics, Gulbarga University, during March 2nd and 3rd 2010.

18. Participated in the International Conference on “Recent Trends in materials Science and Technology” held in Indian Institute of Space Science and Technology, Thiruvananthapuram during October 29-31st 2010.
19. Presented a paper entitled “**Comparative study of LPG sensing of nanostructured polyaniline fibers & bulk polyaniline**” in **International Conference on “Communication, Computation, Control and Nanotechnology –ICN 2010”** held during 29-30, 2010 at Rural Engineering College, Bhalki.
20. Presented a paper entitled “Microwave absorption studies on polyaniline/Pr₂O₃ composites” in International Conference on Communication, Computation, Control and Nanotechnology –ICN 2010, held during 29-30, 2010 at Rural Engineering College, Bhalki.
21. Presented a paper entitled “Microwave absorption studies on polyaniline/MoO₃ composites” in International Conference on “Communication, Computation, Control and Nanotechnology –ICN 2010” held during 29-30, 2010 at Rural Engineering College, Bhalki.
22. Presented a paper entitled “**Studies on thermal stability of Core-shell polyaniline/n-TiO₂ composites**” in **International conference on Latest Trend in Nanoscience and Nanotechnology**” during 28th & 29th held at Khaja Banda Nawaz College of Engineering College, Gulbarga.

Papers communicated

1. A new approach towards Synthesis, Characterization and its sensor properties of core shell polyaniline / nano-TiO₂ composite; **Aashis. S. Roy**, Koppalkar.R.Anilkumar and M.V.N.Ambika Prasad; *Synthetic Metal*; (2011)
2. Design of sensor setup and study of LPG gas sensor using polyaniline/n-TiO₂ composites; **Aashis.S.Roy**, Koppalkar.R.Anilkumar, M.Sasikala and M.V.N.Ambika Prasad; *J. App. Poly. Sci*; (2011) **(Under minor revision)**
3. Studies on Morphology and Thermal properties of core-shell polyaniline/n-TiO₂ composites; **Aashis.S.Roy**, Koppalkar.R.Anilkumar, and M.V.N.Ambika Prasad; *J. of Thermal Analysis and Calorimetry*; (2011) **(Under minor revision)**
4. Synthesis, characterization and humidity studies of polyaniline/CdO composites; **Aashis.S.Roy**, Koppalkar.R.Anilkumar, and M.V.N.Ambika Prasad; *Emerald: Sensor Review*; (2011) **(Under revision)**
5. Thermal studies on nanostructured polyaniline/CdO composites; **Aashis.S.Roy**, Koppalkar.R.Anilkumar, and M.V.N.Ambika Prasad; *Composites A: Manufacture and Applied Science*; (2011)

Koppalkar R. Anilkumar