

Personal Information

Name (in BLOCK letters)	:	Dr.B.K.KENDAGANNASWAMY	
Mobile Number	:	9845659939	
E-Mail ID	:	bkkswamy1991@gmail.com	
Educational / Qualification Information	:		
Details of Post Graduation (PG)	:	Qualification	M.Sc.,
	:	Eligibility	Ph.D
	:	Specialization	Organic Chemistry
	:	Optional Subject	Chemistry
	:	Name of the College and University	Manasagangothri, University of Mysore
	:	Scholarship	National merit scholarship during post graduation (1989-91)
Research Experience (Ph.D)	:	Ph.D Topic	Synthesis and Characterization of castor oil based PUS
	:	Name of the university	Mysore
	:	Notification date / year	21.10.2002
	:	Date of Convocation	31.12.2002
	:	Details of the UGC Sponsored Major/Minor projects	1.Chain Extended Polyurethanes for cardio Vascular Applications(2002-05) 2.Synthesis and characterization of biologically active metal complexes(2011-13)
Present position	:	Designation	Associate Professor
	:	Department	Chemistry

Details of Publications: List of Publications--International / National Journals

1. **B.K.Kendaganna Swamy**, V.Annadurai, Siddaramaiah and R.Someshekar: "Physico-Mechanical, Optical and WAXS Studies of Chain Extended PU Films", *J.Macromolecular Sci., Part A Polymer Chem.*, **A 37** (12) (2000)

1617 – 1625.

2. **B.K.Kendaganna Swamy**, Siddaramaiah and T.M.Aminabhavi: "Interaction of Chain Extended PUs with Chlorinated Alkanes", *Polym. News*, **26** (12) (2001).
3. **B.K.Kendaganna Swamy** and Siddaramaiah: "Chain Extended Polyurethanes – Synthesis and Characterization", *J. Appl. Polym. Sci.*, **84** (2002) 359 – 369.
4. **B.K.Kendaganna Swamy**, Siddaramaiah and R.Somashekar: "Structure-Property Relationship of Diol Chain Extended Castor Oil Based PUs", *J.Matl. Sci.*, **38** (2003) 451- 460.
5. **B.K.Kendaganna Swamy**, Siddaramaiah, H.Somashekarappa and R.Somashekar, "Structure-Property Relationship of PANi filled Chain Extended PU", *J. Poly. Engg. and Sci.*, **44** (2004) 772 – 778.
6. **B.K.Kendaganna Swamy**, and Siddaramaiah: "Sorption and Diffusion of Chlorinated Aliphatic Hydrocarbon Penetrants through Diol Chain Extended PU Members", *J. Haz. Matls.* **B99** (2003) 177 – 190.
7. **B.K.Kendaganna Swamy** and Siddaramaiah: "Structure-Property Relationship of Starch filled Chain Extended PUs", *J Appl. Poly. Sci.*, **90** (2003) 2945 - 2954.
8. Siddaramaiah, H.Kumar, S.Roopa, **B.K.Kendaganna Swamy**, and T.M.Aminabhavi: "Computer Simulation Method for Calculating Concentration Profiles in Polyureathanes / Polystyrene Interpenetrating Polymer Network Membranes, *J.Appl. Poly.. Sci.*, **90** (2003) 122 – 128.
9. L.Mallesha,**B.K.Kendagannaswamy**, and K.N Mohana: "Synthesis and in vitro antioxidant activity of quinolin-5-ylamine derivatives", *Current chemistry letters.*, **2** (2013) 119-124
10. L. Mallesha, C. S. Karthik, **B. K. Kendagannaswamy** and H. M. Viswanatha "Investigation of Antioxidant Activity of 3, 5-Dimethoxyaniline Derivatives", *Journal of Applicable Chemistry* 2014, 3 (5): 2131-2137
11. Sachidananda S, Subramanya raj urs S, **Kendagannaswamy B.K**, Vibha urs, Shilpa K.N, Savyasachi S, Sheeba Sharon, Veena B, Murali R.M and Nithin Kundachira Subamani: "Solar irradiance induced photocatalytic degradation of indigo carmine using hydrothermally developed lithium zincate nano powders assessed through electronic spectral studies", *International Journal of Advanced Research* 2016,4(4); 1145-1150
12. B.S.Surendra, M.Veerabhadraswamy, H.G. Anil kumar, **B.K.Kendagannaswamy**, H.P.Nagaswarupa and S.C.Prashantha.; "Microwave assisted physico-chemical modification of Bentonite clay: characterization and photocatalytic activity" *Science direct,materials today* 2017, 4; 11727-11736
- 13 H.V. Kavya, K.S.Nithin, **B.K.Kendagannaswamy** , S.Sachidananda, N.A.Chamaraja; "Optical Performance appraisal of Mechanically Flexible and Visibly Clear PVP-PVA/ Calcium doped Zirconium Oxide Nanocomposites for UV Shielding Applications" *Optik* 2021, 227(7)1-21
- 14 H. V. Kavya, K. S. Nithin, **B. K. Kendagannaswamy** , and N. A. Chamaraja " Optical, Electrical and Thermal

Behaviors of CaZnO₂ Nanofillers Loaded PVP–PVA Nanocomposite Thick Films” *Polymer Science, Series A*, 2022, Vol. 64, No. 4, pp. 326– 341. © Pleiades Publishing, Ltd., 2022

15. H. V. Kavya, S. Sachhidananda, M A. Sangamesha, N. D. Rekha, **B. K. Kendagannaswamy**, N. A. Chamaraja, L. Mallesha “ Optical, electrical, and biological properties of PVP-PVA/Ca-doped CoO nanocomposites for opto-electronic and biological applications” *Ionics*, Springer 2024,

16. B.S.Madhukar, Sangamesha M.A, **B.K.Kendagannswamy** “Flexeble, lead-Free CS₃Bi₂Br₉@ EVA nanocomposite triboelectric nanogenerator harvesting and tactile sensing” **Emergent Materials**, Springer , s42247-025-01170-0, 2025

17 B.S.Madhukar, Sangamesha M.A, **B.K.Kendagannswamy** "Exploring light matter interaction and turboelectric behaviour in carbon nitride quantum dot/ polymethyl methacrylate nanocomposites" *Flat Chem*,54 (2025)*Elsevier*

18. **B.K.Kendaganna Swamy**, and Siddaramaiah “Dynamic swelling behaviour of diamine chain extended PU membranes” a chapter in **Modern Trends in Multidisciplinary Research -Volume I** ISBN:978-93-5566-403-7

19. B.S.Madhukar, Sangamesha M.A, **B.K.Kendagannswamy** “Self-Powered Gesture and Multi-Human interaction sensing via bioactive Compounds- Integrated Triboelectric Nanogenerator”. *Compounds- Integrated Triboelectric Nanogenerator*.ACS Applied Bio Materials, 5c02141(2026)

20 N. Vijendra Kumar, D. Geetha, N.D. Rekha, B.K.Kendagannaswamy and L. Mallesha “Eco-Friendly Synthesis Of Gold Nanoparticles And Their Multifaceted Therapeutic Applications” *Rasayan J. Chem.*, 19(3), 1615-1622 (2026)

Papers Presentation--National and International Conferences:

a. As Key note speaker

1. Presented a paper on “**Thin, flexible and transparent PU/Curcumin green composites : Spectral, mechanical, microstructural and free volume studies**” in 7th National conference on novel polymeric materials (POLYCON-2017) held at JSS Science and Technological university, Mysuru during 15-16 September 2017
2. Presented a paper on “**Design and development of polymeric hydrogel loaded with herbal extract for the treatment of overactive bladder**” in 26th **International conference** on the processing and fabrication of the advanced materials.(PFAM-26) held at Chonbuk national university, Jeonju, SouthKorea during October16-21, 2017
3. Delivered a talk on criteria-IV in one day state level workshop on “**REVISED NAAC FORMAT**” organized by MMK & SDM Mahila Mahavidyalaya on 10th January 2020

b. As paper presenter

1. **B.K.Kendaganna Swamy**, and Siddaramaiah: “**Chain – Extended Polyurethenes: Synthesis and Charactrization**”, Macro - 2000, Proce. Of Natl. Symp. On Polym. And Compl., 1-2 Dec 2002, P. 110, DMSRDE, Kanpur.

2. **B.K.Kendaganna Swamy**, and Siddaramaiah: **“Sorption and Diffusion of Organic Penetrants into Diol Chain Extended PU Membranes”**, Presented in Natl. Sem. On Pollution Control – Recent Advances in Membrane Sci. and Tech., held at AC Tech., Anna University, Chennai, during 8 and 9th May 2002.
3. Siddaramaiah, H.Kumar, S.Roopu, **B.K.Kendaganna Swamy** and T.M.Aminbhavi: **A Computer Simulation Method to Calculate Concentration Profile in PU/PS IPN Membranes”**, presented in Natl. Sem. On Pollution Control – Recent Advances in Membrane Sci. and Tech., held at AC Tech., Anna University, Chennai, during 8 and 9th May 2002.
4. K.S. Manjula, **B.K. Kendaganna Swamy**, Siddaramaiah **“Dicarboxylic acid chain extended Pus – Physico – Mechanical, optical and heat ageing behavior”** Presented in State Level Conference held at J.S.S. College, Ooty road, Mysore during 25th and 26th September 2006.
5. H.K. Krishnaiah, **B.K. Kendaganna Swamy**, Siddaramaiah and Sagar Patel **“Thermal and Morphological properties on poly aniline filled chain extended Pus”** Presented in State Level Conference held at State level conference held at Shankar Ghatta, Kuvempu University during 6th 7th sep 2007.
6. **B.K. Kendaganna Swamy**, Siddaramaiah and J.S. Vidya, **“Synthesis and Characterisation of Diol chain extended Polyurethanes”** Presented in State level conference held at St.Phelomena’s College, Mysore, during 21st and 22nd August 2008
7. **B.K. Kendaganna Swamy**, Siddaramaiah **“Synthesis and Characterisation of Dicarboxylic acid chain extended Polyurethanes”** Presented in State level conference held at St.Phelomena’s College, Mysore, during 21st and 22nd August 2009.(**Awarded Best paper**)
8. **B.K. Kendaganna Swamy**, Siddaramaiah **“Hydro gels synthesis and their dye sensitized behavior ”** Presented in national level conference held at S.J College of engineering, Mysore, during 3rd and 4th January 2014.
9. **B.K.Kendagannaswamy**, Karthik.C.S, P.Mallu and vasanth patil **“Schiff bases of 4-(methylthio)Benzaldehydes:Synthesis,characterization, antibacterial, antioxidant and cytotoxicity Studies”** Presented in the National level seminar held at St.Phelomena’s college, Mysore,during 22nd and 23rd August 2014.
10. B.S. Madhukar, D.G. Bhadregowda, **B.K.Kendagannaswamy**, N.D.Rekha, Siddaramaiah, **“Augmented properties of polyurethane composites containing soya protein isolate”** Presented in the national level conference held at JSS College of Arts, Commerce and Science, Ooty road , Mysore, during 2-3rd March 2015
11. **B.K.Kendagannaswamy**, H.V. Kavya and Nithin Kundichira Subamani **“Effect of filler content and annealing temperature on optical properties of high refractive poly(vinyl alcohol)/ Rubidium doped zinc oxide nanocomposites”** presented in the National conference on Scientific, Computational and Information Research trends in Engineering held at GSSS Institute of Engineering and technology for women, Mysuru on 30.01.2016

- 12 **B.K.Kendagannaswamy** and Nithin Kundachira Subamani “**Photocatalytic degradation of dyes under UV Irradiance using lithium zincate nano powders**” Presented in International level conference held at Sri Jayachamarajendra College of engineering, Mysore, during 26-28th May 2016.

Details of Refresher courses / Orientation Programs/short term course

- 1 Participated in UGC Sponsored **Orientation programme** at Academic staff College, University of Mysore, Mysore, held during 16-05-2008 to 12-06-2008
- 2 Participated in UGC Sponsored **Refresher course programme** at Academic staff College, University of Mysore, Mysore, held during 13-06-2011 to 05-07-2011
- 3 Participated in UGC Sponsored **Refresher course programme** at Academic staff College, University of Mysore, Mysore, held during 11-12-2012 to 31-12-2012
- 4 Participated in UGC Sponsored **Short term course** at Academic staff College, University of Mysore, Mysore, held during 14-12-2018 to 21-12-2018

Participation in National and International Conferences/ Workshops/Seminars

Participated in more than 75 seminars, workshops, conferences and symposiums

Organising workshop/Conference/Seminars/Academic activities

1. Worked as **Organising Secretary** of UGC Sponsored one day State level **work shop** on “Basic Techniques in Instrumental Methods” on 27 March 2013, Jsscacs, Mysore.
2. Worked as **Organising Secretary** of UGC Sponsored Two day **National Conference** on “Current Trends in Chemical Biology” held on 2-3 March 2015, Jsscacs, Mysore.
3. Worked as **Convener** of UGC sponsored Two day **National Conference** on “Applications of Modern Analytical Techniques to Fundamental Research in chemistry” Held on 9-10 March 2016, Jsscacs, Mysore.
4. Worked as **Organising Secretary** of **State level science exhibition** on “Science and Village” held on August 20-22, 2016, Jsscacs, Mysore.
5. Worked as **Coordinator** of UGC Sponsored one day orientation programme on Quality of higher education, “**Importance of Research and ICT-enabled teaching for UG& PG Teachers**” held on 30th November 2017, Jsscacs, Mysore.
6. **Organised** a National webinar on “**Advances in Material Science**” in association with Science Departments of the college and IQAC of JSS College Nanjangud on 13th February 2023.
7. **Organised** One day workshop on “**Role of Machine Learning in AI-A Practical approach**” in association with Science Departments of the college and IQAC of JSS College Nanjangud on 4th April 2025.
8. **Organised** One day workshop on “**Strategies for enhancing Quality and Excellence in higher Education**” in association with IQAC of JSS College Nanjangud on 9th July 2025

Academic bodies / Positions held

1. Served as **NCC Officer** during the year **2005-06**
2. Served as **NSS Officer** during the year **2006-09**
3. **Member of BOS**, Department of Chemistry(UG), JSS College of Arts, Commerce and science, Ooty road, Mysore (**2005-2020**)
4. **Member of BOS**, Department of Chemistry, JSS College for Women, Saraswathipuram, Mysore, (**2008-09, 2015-16 and 2021-22, 2024-till date**)
5. **Member of BOE**, Department of Chemistry, JSS College for Women, Saraswathipuram, Mysore, (**2008-11, 2016-17, 2026-till date**)

6. **Coordinator** for the Postgraduate Department of Chemistry, JSS College, Ooty road, Mysore (2011-2016)
7. **Chairperson , BOS** , Postgraduate Department of Chemistry, JSS College, Ooty road, Mysore (2011-2016)
8. **Chairperson, BOE**, Postgraduate Department of Chemistry, JSS College, Ooty road, Mysore (2011-2016)
9. **Member of BOS** , Department of Chemistry, St.Philomenas College, Mysore(2015-17)
10. **Member of BOS**, PG Department of Chemistry, JSS College of Arts, Commerce and science, Ooty road, Mysore (2016-2020)
11. **Coordinator of IQAC**, JSS College of Arts, commerce and Science, Ooty road, Mysore(2015-17 , 2017-19)
12. **Member of BOE**, Postgraduate Department of Chemistry, JSSWC, Saraswathipuram, Mysuru(2016-17)
13. **Member of BOS**, PG Department of Chemistry, **JSS Science and Technological University**, SJCE Campus , Mysore (2017-Till date)
14. **Member of BOE**, PG Department of Chemistry, **JSS Science and Technological University**, SJCE Campus , Mysore (2017-26)
15. **Coordinator of IQAC**, JSS College of Arts, commerce and Science, Nanjangud-571301 (2020-2026)
16. **Member of BOS**, PG Department of PST, **JSS Science and Technological University**, SJCE Campus , Mysore (2022-26)
17. **Principal of JSS College, Nanjangud (01-04-2023 to 26-06-2023)**
18. **Member of BOE, UG Chemistry**, University Of Mysore, Mysuru (2024-26)
19. **Member of BOS, UG Chemistry**, University Of Mysore, Mysuru (2025-26)
20. **Coordinator of IQAC**, JSS College for women, Chamarajanagara-571313 (2026-till date)

AWARDS / PRIZES / RECOGNITIONS

1. **Best Paper Presentation Award** for presenting the paper **“Synthesis and Characteristion of Dicarboxylic acid chain extended Polurethanes”** in the State Level Conference held at St. Philomena’s College, Mysore during 21st and 22nd August 2009.
2. Successfully guided Sri. G.S. Mohan and T.P. Raghu of Final B.Sc to **get “Second Prize in State Level Science Exhibition”** in the sub topic **“Nanotechnology”** held at Belgam during 30th and 31st March 2009.
3. Won **Second prize in Shuttle badminton** tournament organized for JSS employees by JSS College for women on the occasion of 98th Jayanthi of His Holliness Jagadguru Dr.Sri.Shivarathri Rajendra Mahaswamiji held on 14th September 2013