


Name	Dr. Jayanna B. K.	
Department	Chemistry	
Qualification	M.Sc., Ph.D.	
Designation	Professor & Head	
Area of specialization/Research	Inorganic Chemistry Pharmaceutics, Photocatalytic Degradation	
Date of Joining BNMIT	07.02.2007	
Nature of Association (Regular/Contractual/Adjunct)	Regular	
e-mail	ninge1973@gmail.com bkjayanna@bnmit.in	
No. of years of Experience	Teaching: 21 years Reserach: 14 years	

Academic Qualifications

- **Ph. D.** : Manasagangothri, **University of Mysore**, Mysore, **2006**
- **M. Sc. (Inorganic chemistry)** : Manasagangothri, **University of Mysore**, Mysore, **1997**
- **B. Sc. (PCM)** : Government Science college, Hassan, **University of Mysore**, **1995**

Working Experience Details

- **Professor & HoD**, Dept. of Chemistry, BNMIT, Bengaluru, India (01/08/2010 – Till date)
- **Asst. Professor & HOD**, Dept. of Chemistry, BNMIT, Bengaluru, India (01/01/2008 – 31/07/2010)
- **Senior Lecturer**, Dept. of Chemistry, BNMIT, Bengaluru, India (07/02/2007-31/12/2007)
- **Lecturer**, Dept. of Chemistry, Coorg Institute of Technology, Ponnampet, South Coorg, India (17/09/1999 – 30/11/2006)
- **Lecturer**, Dept. of Chemistry, Bahubali College of Engineering, Shravanabelagola, India (05/09/1998 – 05/09/1999)

Course taught

Engineering Chemistry, Engineering Chemistry Lab & Environmental Studies

Research Supervision

Sl. No.	Name of the student	Ph.D./ M.Phil.	University	Year of Completion	Research topic
1	Lakshmi B. S.	Ph. D.	VTU Belagavi	Pursuing	Development of Analytical Method for the determination of Phytochemicals of pharmaceuticals of Pharmaceutical significance
2	Archana S.	Ph. D.	VTU Belagavi	Pursuing	Synthesis and Characterization of Functionalized Graphene/Metal oxide Nanocomposites for Environmental Applications
3	Ananda A.	Ph. D.	VTU Belagavi	Pursuing	Development of Metal Oxides/Polymer Nanocomposites for Photocatalytic Degradation of Wastewater Pollutants
4	Priyanka P.	Ph.D.	VTU Belagavi	Pursuing	Development of new spectrophotometric method for the determination of pharmaceutical drugs
5	Roopa K. P.	Ph.D.	Bharathiar University, Coimbatore	2018	Development of new spectrophotometric method for the determination of some pharmaceutical drugs

Research Projects

Sl. No.	Title of the project	Funding agency	Amount in lakhs	Period	Status of the Project
1	Development of New Spectrophotometric Method for the Determination of some Pharmaceutically important Drugs'	VTU	2.00 (Two Lakhs Only)	2 years	Completed (26-06-2012 To 26/6/2015)

Academic Positions and other Responsibilities (University Level):

1. **Member**, Ph.D. synopsis scrutiny committee, VTU (Scrutinized on December 6, 2016).

Academic Positions and other Responsibilities (Institute Level):

1. **Editor** of BNMIT Chronicle Magazine from 2017- 2019
2. **MR** of ISO 9001:2008 from August 2015 to August 2017

Instruments Handled/Software's handled:

- **UV-VIS Spectrophotometer**

Professional Memberships:

- **Life Member, Karnataka Rajya Vijnana Parishath (KRVP)**

Workshops /Seminars Organized:

1. Organizing Secretary for conduction of **One** day workshop on **“Recent Advances in Electrochemical & Surface Science and Engineering”** on August 26, 2010
2. Organizing Chair for conduction of **Faculty Development Programme** on **“Recent Advances in material Science”** from January 9-13, 2017

Research Publications:

International Journals

1. Comparison of the photocatalytic, adsorption and electrochemical methods for the removal of cationic dyes from aqueous solutions, M.S. Anantha, Sharon Olivera, Chunyan Hu, B.K. Jayanna, Narendra Reddy, Krishna Venkatesh, H.B. Muralidhara, Ravi Naidu, Environmental Technology & Innovation, 17, 100612, 2020.
2. Electroactive Li incorporated cobalt oxide nanostructures for photocatalytic applications, R Ranjitha, Aarti S Bhatt, C R Ravikumar, M S Santosh, B K Jayanna, H P Nagaswarupa, K Sakai and HMadhyastha, Mater. Res. Express, 6, 1150d6, 2019.
3. Efficient Synthesis of RuO₂ Nanoparticle with excellent activity for one-pot Synthesis of 2,3-disubstituted quinazolin-4(1H)-ones, M. S. Raghu, K. N. N. Prasad, B. K. Jayanna, C. B. Pradeep Kumar, K. Yogesh Kumar, and M. K. Prashanth, Vietnam J. Chem., 57(5), 585-594, 2019.
4. Optimization and validation of the spectrophotometric methods for the assay of dexmedetomidine hydrochloride in pure and dosage forms, Roopa K. P., Basavaiah K., Jayanna B. K., Journal of Applied Spectroscopy, 84(4), 670-678, 2019.
5. Synthesis, characterization and biological evaluation of novel 3-(4-chlorophenyl)-2(Substituted)quinazolin-4(3H)-one derivatives as multi-target anti-inflammatory agents, Raghu, K Yogesh Kumar M. S., Pradeep Kumar C. B., Prashanth M. K., Jayanna B. K., Journal of Heterocyclic Chemistry, 56, 2046-2051, 2019.
6. Versatile Graphene Oxide decorated by star shaped Zinc Oxide nanocomposites with superior adsorption capacity and antimicrobial activity, S. Archana, K. Yogesh Kumar, B. K. Jayanna, S.

Olivera, A. Anand, M. K. Prashanth and H. B. Muralidhara, *Journal of Science: Advanced Materials and Devices*, 3(2), 167- 174, 2018. DOI: 10.1016/j.jsamd.2018.02.002.

7. An Experimental Design approach for Optimization of Spectrophotometric Methods for the Estimation of Mirabegron Using Analytical reagents in bulk and Pharmaceutical formulations, K. P. Roopa, B. K. Jayanna, C. Aashish Roy and P. Nagaraja, *J. Anal. Chem.*, 73(9), 884-893, 2018. DOI: 10.1134/S1061934818090095.
8. Second Derivative Spectrophotometric Determination of Iron(II) and Ruthenium(III) Using 1, 10-phenanthroline, M. Veerabhadraswamy, T. D. Devaraj , B. K. Jayanna. *Analytical Chemistry Letters*, 8(6), 757-768, 2018.
9. Open ended tube like hollow bio-carbon derived from banana fibre for removal of anionic and cationic dyes, Sharon Oliveraa , Krishna Venkatesha , Mysore Sridhar Santosha, Denis Leybo, Denis Kuznetsov, Bidarur K Jayanna, Inamuddin*, Abdullah M. Asirid, Khalid Ahmed Alamry, Handanahally Basavarajaiah Muralidhara, *Desalination and Water Treatment*, 132, 297-306, 2018.
10. Oxygen enriched network-type carbon spheres for multipurpose water purification applications, Sharon Olivera, Krishna Venkatesh, Narendra Reddy, Bidarur K. Jayanna, Inamuddin, Abdullah M. Asiri, Sami Rtimi, Handanahally, Basavarajaiah Muralidhara. *Environmental Technology & Innovation*, 12, 160-171, 2018.
11. Chemical Oxidation of Phenylephrine by Using Chloramine-T in Acid Media: A Kinetic and Mechanistic Study., M. S. Veena, M. K. Prashanth, B. K. Jayanna, K. Yogesh Kumar, Y. Arthoba Nayaka and H. B. Muralidhara, *IJPSR*, 8(3), 1449-1458, 2017.
12. Synthesis, Characterization, and Evaluation of Difluoropyrido[4,3-b]indoles as Potential Agents for Acetylcholinesterase and Antiamnesic Activity, M. Madaiah, B. K. Jayanna, A. S. Manu, M. K. Prashanth, H. D. Revanasiddappa and B. Veeresh, *Arch. Pharm. Chem. Life Sci.*, 350, e1600303, 2017. DOI: 10.1002/ardp.201600303.
13. Spectrophotometric determination of some cephalosprins in bulk and in pharmaceutical formulations, K. P. Roopa and B. K. Jayanna, *Analytical Chemistry Letters*, 6(2), 143-52, 2016.
14. Synthesis and Anticonvulsant Activity of N-(Substituted)-1-methyl-2,4-dioxo-1,2-dihydroquinazoline-3(4H)- carboxamides, Hemavathi N. Deepakumari¹, Bidarur K. Jayanna², Maralekere K. Prashanth², Hosakere D. Revanasiddappa, and B. Veeresh, *Arch. Pharm. Chem. Life Sci.*, 349, 566–571, 2016.
15. Development of Multipurpose CuO–GO Nanocomposites for Heavy Metals Adsorption and Super Capacitor Applications, S. Archana, K. Yogesh Kumar, S. Olivera, B. K. Jayanna, H. B. Muralidhara, A. Ananda and C. C. Vidyasagar, *Energy and Environment Focus*, 5, 1-11, 2016.
16. Spectrophotometric Determination of Dobutamine Hydrochloride in Pharmaceutical Formulations, K. P. Roopa, B. K. Jayanna and P. Nagaraja, *Int. J. Pharm. Sci. Rev. Res.*, 32(1), 55-60, 2015.
17. Sensitive and Validated Spectrophotometric Methods for the Determination of Phenylephrinehydrochloride and Pyridoxine Hydrochloride in Pharmaceuticals using Ce (IV) Ammonium Sulphate and N-Bromosuccinimide Based on Redox Reaction, K. P. Roopa, B. K. Jayanna and P. Nagaraja, *International Journal of Biological & Pharmaceutical Research*, 6(1), 56-62, 2015.
18. Spectroscopic Method for the Determination of Drugs Containing Phenol Group by Using 2, 4-Dinitro Phenylhydrazine, K. P. Roopa, B. K. Jayanna and P. Nagaraja, *American Journal of Pharma Tech. Research*, 5(1), 531-542, 2015.

19. Spectrophotometric method for the determination of cefepime, cefazolin sodium and cefalothin sodium in pure and pharmaceutical dosage forms by using Ninhydrin, K. P. Roopa, B. K. Jayanna and P. Nagaraja, *Int. J. Pharm. Pharm. Sci.*, 7(5), 194 – 199, 2015.
20. Redox reaction based spectrophotometric assay of some drugs in pharmaceuticals, K. P. Roopa, B. K. Jayanna, P. Nagaraja and H. R. Arunkumar, *Int. J. Pharm. Pharm. Sci.*, 7(8), 151-156, 2015.
21. A Facile Spectrophotometric method for the determination of Vitamin C, B. K. Jayanna, G. Nagendrappa and N. Gowda, *Fire Journal of Medical and Pharmaceutical Sciences*, 1(1), 9-18, 2014.
22. A Facile Spectrophotometric method for the determination of Donepezilhydrochloride in tablet formulation using potassium permanganate, B. K. Jayanna, G. Nagendrappa, Arunkumar and N. Gowda, *Asian J.Pharm.Biol Res.*, 2(4), 216-218, 2012.
23. Spectrophotometric estimation of donepezil hydrochloride in tablets, B. K. Jayanna, G. Nagendrappa, Arunkumar and Ninge Gowda, *JPBMS*, 1(09). 2010.
24. A Facile Spectrophotometric method for the determination of Cobalt(II) using Iodine monochloride reagent, B. K. Jayanna, G. Nagendrappa, and N. Gowda, *E-Journal of chemistry*, 7(4), 1426-1434, 2010.

National Journals

1. Spectrophotometric Estimation of Aripiprazole in Tablets, B. K. Jayanna, T. D. Devaraj, G. Nagendrappa and N. Gowda, *Indian J. Pharm. Sci.*, 78(5), 696-698, 2016.
2. Spectrophotometric Estimation of Lamotrigine in Tablets, B. K. Jayanna, T. D. Devaraj, K. P. Roopa, G. Nagendrappa and N. Gowda, *Indian J. Pharm. Sci.*, 78(5), 657-662, 2016.
3. Spectrophotometric Estimation of Risperidone in Tablets, B. K. Jayanna, T. D. Devaraj, K. P. Roopa, G. Nagendrappa, H. R. Arun Kumar and N. Gowda, *Indian J Pharm Sci.*, 76(5), 452-455, 2014.
4. A facile spectrophotometric method for the determination of carbamazepine in tablets. *Indian Journal of Drugs*. Jayanna B.K., Devaraj T. D., Ninge Gowda, 2(2),132-135, 2014.
5. A facile Spectrophotometric method for the determination of As(III) using Iodine monochloride reagent, B. K. Jayanna, G. Nagendrappa and Ninge Gowda, *Journal of Science & Technology*, 2(1), 29-35, 2013.
6. Spectrophotometric estimation of Azithromycin in tablets, B. K. Jayanna, G. Nagendrappa, Ninge Gowda and Arunkumar, *Indian J. Pharm. Sci.*, 74(4),280-284, 2012.

No. of citations: 102, h-index: 05, i10-index: 02

Papers presented in International/National Conferences

National Conference

1. **A Facile Spectrophotometric method for the determination of donepezil hydrochloride in tablets formulation using potassium permanganate** in National Conference on Recent trends in Chemical Research during February 8-10, 2010, held at National Institute of Technology Karnataka, Surathkal, Mangalore.
2. **Spectrophotometric estimation of Risperidone in tablets** in National conference on Recent Advances in Chemical Biology- an Overview, during March 15-16, 2013 held at Govt. Science College, Hassan.

3. **A Facile Spectrophotometric method for the Determination of Lansoprazole in Tablets** in National conference on applied science and humanities (NCASH-15) organized by KS School of Engineering and Management, Bengaluru on May 5, 2015.

Patent

1. Hemanth Kumar C., Jayanna B. K., **Biodegradable Superabsorbent and Absorbent Article thereof**. Indian Complete Patent Application No.201941029985. July 2019(filed).
2. Jayanna B. K., **Methods and Systems for Photo Degradation of Organic Dyes**. Indian Complete Patent Application No. 201941031584 August 2019(filed).

Books

1. **Jayanna B. K., Mahesh B., Roopashree B., Suba Ramesh, Engineering Chemistry**, Star Tech Education Publishing House Pvt. Ltd., Bengaluru (2010)
2. **Reviewed Engineering Chemistry**, Skyward Publishers, Bengaluru (2017)

Participation in Training courses/Seminars/Workshops

1. One week Faculty development program on **Computational Methods for Partial Differential Equations using MATLAB** organized by department of Mathematics, BNMIT, in association with BITES from June 10-14, 2019.
2. One week Faculty development program on **Thin Films and its Applications** conducted by RVCE, Bengaluru from February 4-9, 2019.
3. Workshop on **New Model Curriculum for First year B.E./B.Tech. – CBCS Detailed Syllabus (2018-19) as per Outcome-Based Education (OBE) format including Course Outcomes (CO) and Bloom’s Taxonomy** on May 7, 2018 held at Bangalore Institute of Technology, Bengaluru organized by VTU, Belagavi.
4. One week Faculty development program on **Modern Materials and their Applications** conducted by Department of Physics, BNMIT from January 16-20, 2018.
5. One day workshop on **Role of Chemistry in Higher Engineering Courses RCE-2018** at Sambhram Institute of Technology, Bengaluru on January 20, 2018.
6. One week Faculty development program on **Innovative teaching Methods** conducted by BNMIT from June 18-23, 2016.
7. Workshop on **Wealth from Waste and Pollution Awareness online Monitoring E-Waste Management and RoHs2016** at IISc., Bengaluru from June 16-17th 2016.
8. National Workshop on **NIRF (National Institutional Ranking Framework) Conducted** by ELOIT Innovations on November 27, 2015.
9. Workshop on **Preparation for Accreditation By NBA from December 3-5, 2015**
10. Faculty development program on **Intellectual Property Rights-Significance for Academia in Business & Research** conducted by BNMIT on August 20, 2015
11. One day workshop on **Basic Science Syllabus for B.E., Programme** at B.D.T. College of Engineering Davangere on August 19, 2014.
12. Faculty development program on **Cyber Security & Cyber Laws** conducted by BNMIT on August 20, 2014.

13. Faculty development program on **Internalize Intellectual property and Strategic Management of Intellectual Property Rights** conducted by BNMIT on March 2, 2012.
14. Three day Faculty development program on **Aerospace Vehicles** at KSSEM, Bangalore from February 2-4, 2011.
15. One day work shop on “**Nano Particles & Solid State Materials technology**” organized by NHCE, Bengaluru on December 8, 2010.
16. One day work shop on “**Magnetic Materials & Their Applications**” organized by MSRIT, Bengaluru on February 28, 2009.
17. One day work shop on **Revised Syllabus in Engineering Chemistry** organized by City College of Engineering, Bengaluru on September 6, 2002.

PERSONAL DETAILS

Father name : Krishnegowda
Date of birth : 01/04/1973
Languages Known : Kannada, English, Hindi
Spouse : Shylaja K
Permanent Address : # 2453, Sriranga, 16th main, Second Stage
Kumaraswamy layout, Bengaluru-560 078
Nationality : Indian

January 28, 2020

Jayanna B. K.