

BRIEF BIO-DATA OF DR. MALINI. S

Faculty Name	Dr. MALINI. S	
Designation	Assistant Professor	
Educational Qualification	M.Sc., M.Phil., Ph.D.	
Experience	16 years	
Email Id	Malinis.chem@bmsce.ac.in Malini.chandrashekhar@gmail.com	

• **ACADEMIC QUALIFICATION**

Sl. No	Degree	Year	Subject	University/Institution
1	PhD	2019	Chemistry	Visvesvaraya Technological University, Belgaum,
2	M.Phil	2010	Chemistry	Chidambaram, Tamil Nadu
3	M.Sc	2004	Chemistry	NMKRV College for women (Bangalore University)
4	PG Diploma in Pharmaceutical Chemistry	2005	Chemistry	Noida

• **Ph.D**

Title	Guide's name	University	Year of Award
Physico chemical studies of Medicinal compounds by Electroanalytical Techniques	Dr. Kalyan Raj, Prof & Head, Department of Chemistry, B. M. S. College of Engineering,	Visvesvaraya Technological University, Belgaum,	2019

• **TEACHING EXPERIENCE**

Sl. No	Positions held	Name of the Institute	From	To
1	Assistant Professor	BMS College of Engineering	15-03-2021	Till date
2	Assistant Professor	Dayananda Sagar College of Engineering	11-03- 2009	12-03-2021
3	Lecturer	City College	26-05-2007	10-03-2009
4	Lecturer	PES Degree College	16-08-2004	24-05-2007

- **TLP**
 - Engineering Chemistry (I/II semester)
 - Industrial Chemistry (III semester)
 - Characterization techniques for Engineering materials (VI semester)
 - Chemistry of Engineering Materials (VII semester)

- **CONTRIBUTION TO THE DEPARTMENT**

- Curriculum development (I, II, III, VI & VII Semester)
- BOS & BOE Member (I, II, III, VI & VII Semester)
- NBA & NAAC Coordinator
- Departmental co-curricular events coordinator
- E-governance coordinator
- Department newsletters, reports & College magazine coordinator
- NIRF coordinator
- Departmental website coordinator
- Information and communication Tools coordinator
- MOOCs Coordinator
- Library Coordinator
- Member of attendance review committee
- Member of Question paper review committee

- **RESEARCH CONTRIBUTION**

Journal Publications:

1. **Malini. S**, K.S. AnanthaRaju, Biocatalysis in green organic synthesis - Chapter 5 Green Sustainable Process for Chemical and Environmental Engineering and Science Sustainable Organic Synthesis, **Elsevier, 2020**, Page 105-121
2. Suresha, Kalyan Raj, **Malini. S**, Catalysis and mechanistic study of Ru (III) and Os (VIII) on the oxidation of taurine by BAT in acid and alkaline media: A kinetic modeling, Inorganic and Nano-Metal Chemistry, **Taylor & Francis, 2020**, Vol 12, Page 1-8
3. S Meena, KS Anantharaju, **Malini. S**, Arjun Dey, L Renuka, SC Prashantha, Impact of Temperature-Induced Oxygen Vacancies in polyhedron MnFe₂O₄ nanoparticles: As excellent electrochemical sensor, supercapacitor and active photocatalyst, Ceramics International, **Elsevier, 2020**, Available online 24th Dec, <https://doi.org/10.1016/j.ceramint.2020.12.217>
4. B Uma, KS Anantharaju, L Renuka, **Malini. S**, Sunil S More, YS Vidya , Synthesis of CuO samples by co-precipitation and green mediated combustion routes: Comparison of

their structural, optical properties, photocatalytic, antibacterial, haemolytic and cytotoxic activities, *Ceramics International*, **Elsevier**, **2020**, Available online 2nd Nov, <https://doi.org/10.1016/j.ceramint.2020.10.223>

5. B Uma, KS Anantharaju, L Renuka, H Nagabhushana, **Malini. S**, Sunil S More, Controlled synthesis of (CuO-Cu₂O) Cu/ZnO multi oxide nanocomposites by facile combustion route: A potential photocatalytic, antimicrobial and anticancer activity, *Ceramics International*, **Elsevier**, **2020**, Available online 24th Sep, <https://doi.org/10.1016/j.ceramint.2020.09.223>
6. L Renuka, K.S Anantharaju, YS Vidya, H Nagabhushana, B Uma, **Malini. S**, Sunil S More, Porous network ZrO₂/ZnFe₂O₄ nanocomposite with heterojunction towards industrial water purification under sunlight: Enhanced charge separation and elucidation of photo-mechanism, *Ceramics International*, **Elsevier**, **2020**, Available online 25th Aug, <https://doi.org/10.1016/j.ceramint.2020.08.219>
7. S Meena, KS Anantharaju, YS Vidya, L Renuka, **Malini. S**, S.C Sharma, H Nagabhushana, MnFe₂O₄/ZrO₂ nanocomposite as an efficient magnetically separable photocatalyst with good response to sunlight: preparation, characterization and catalytic mechanism, *Ceramics International*, **Elsevier**, **2020**, Vol 2, page 672-684
8. **Malini.S**, Kalyan Raj, Suresha N, Kinetic and mechanistic model for oxidation of Pregabalin by Chloramine B in acid medium, *Indian research journal of pharmacy and science*, Vol 7, **2020**, Page 2063-2073
9. **Malini S**, Kalyan Raj, Electrochemical and spectroscopic studies of interaction of Rizatriptan Benzoate with calf thymus DNA, *International Journal on Physical Sciences*, **2020**, Volume 1, Page 9-13
10. **Malini S**, Kalyan Raj, Sennappan.M , Electrochemical and Spectrophotometric studies of Interaction of Clopidogrel Bisulphate with Calf Thymus DNA, *Asian journal of Chemistry*, **2018**, Vol 30 (1), Page 129-132.

11. **Malini S**, Kalyan Raj, Cyclic Voltammetric Studies of In vitro Interaction of Clopidogrel Bisulphate and Aspirin, Materials Today: Proceedings, **Elsevier**, **2018**, Vol 5 (10), Page 22390-22398
12. **Malini S**, Kalyan Raj, Adinarayana Reddy .P, Cyclic voltammetric studies of the interaction of rizatriptan benzoate with copper in aqueous solution, International research journal of pharmacy, **2017**, Vol 8 (10), Page 1-8.
13. S Malini, Kalyan Raj, MA Veena, N Nanda, Kinetic spectrophotometric method for quantitation of Rizatriptan benzoate in pharmaceutical formulations, International Research Journal of Pure and Applied Chemistry, **2015**, Vol 8 (1), Pages 1-11
14. **Malini S**, Kalyan Raj, N. Nanda, J. P. Shubha, Spectrophotometric Study of Oxidation Kinetics and Mechanism of Losartan Potassium Using N- chlorosuccinimide, Research Journal of Pure and Applied Chemistry, **2015**, Vol 9 (2), Page 1-16
15. Naveen kumar T, T.V. Venkateshaa, **Malini, S**, P.R. Rangaraju, Kinetics and mechanism of oxidation of Dicloxacillin sodium by Chloramine-T in medium, 2015 World journal of pharmacy and pharmaceutical sciences, **2015**, Vol 4 (2), Page 673-684
16. **Malini, S**, Kalyan Raj, N. Nanda, Mechanistic Investigation of Oxidation of Rizatriptan Benzoate by Chloramine-B: A Kinetic Spectrophotometric Study, International journal of Pharmaceutical Science Review and Research, **2014**. 25(1), 290-294
17. N Nanda, **Malini, S**, Puneeth Kumar, Netkal M Made Gowda, Kinetics of Oxidation of Diazepam by N Bromosuccinimide in Acid Medium: A Mechanistic Study, International Research Journal of Pure and Applied Chemistry, **2014**, Vol 4(6), Pages 834-845
18. N. Nanda, Kumar P, S. **Malini, S**, Oxidation of Norfloxacin by N-Chlorosuccinimide A kinetic study, International Journal of Pharmaceutical Sciences Review and Research, **2013**, Vol 23 (2), Pages 388-391

Conference Presentations

Sl. No	Name of Conference	Title of the Paper	Details/ Date of Presentation
1.	Recent advances in Chemical and Biological sciences.	Synthesis of CuO samples by co-precipitation and green mediated combustion routes: Comparison study of their properties and applications	7 th -9 th December, DSCE, Bangalore
2.	Recent development in Infectious diseases	Cyclic Voltammetric study of the interaction of Pramiconazole with Copper in aqueous solution	23-24 th August 2019, BMSCE, Bangalore
3.	Materials for environment, sustainable society and Global empowerment	Synthesis of Novel CuO/ZnO Nanocomposite: Characterization, Photocatalytic and Antibacterial studies	19 th -20 th December 2019, VTU, Centre for PG studies, Muddenahalli
4.	Materials for environment, sustainable society and Global empowerment	Interaction of clopidogrel Bisulphate and rizatriptan benzoate with calf thymus DNA: an electrochemical and spectroscopic approach	19 th -20 th December 2019, VTU, Centre for PG studies, Muddenahalli
5.	International Conference on Innovations and Challenges in science and Technology	Kinetics and Mechanistic Investigation of Oxidation of Pregabalin by Chloramine B	24-26 th May 2018, Don Bosco Institute of Technology, Bangalore.
6.	International Conference on Advanced Ceramics and Nano materials for sustainable Development	Electrochemical Study on the Interaction of Rizatriptan Benzoate with Calf Thymus DNA	19-21 st September 2018, Christ University, Kengeri Campus, Bangalore
7.	International Conference on advances in Science and Engineering	Electrochemical Study of Invitro interaction of Chlopidogrel bisulphate and Asprin	20th to 22nd August 2017, Bankok
8.	National conference on "Recent advances in Applied Chemistry	Nitration as a method for Quantitation of Rizatriptan Benzoate	17th December 2015, DSU, Begur Hobli, Bangalore
9.	National conference on Fundamentals of drug discovery process: Industrial Perspective	Voltammetric investigation of the interaction of anti-migraine Drug with Fe (III),	5th August 2015, BMSCE, Bangalore.
10.	National Symposium on Electrochemical science and technology	Spectrophotometric, Kinetic and mechanistic study of Oxidation of Losartan Potassium using NCS in acid medium,	24 th -25 th July, 2016 Electrochemical Society of India, IISC, Bangalore.
11.	National conference on Applied science and Humanities	Mechanistic study of oxidation of Losartan Potassium by NCS in acid medium: A spectrophotometric kinetic approach	5th May 2015, K.S.S.E.M, Bangalore
12.	National Conference on "Recent trends in chemical research"	Oxidation of Rizatriptan Benzoate by CAB: A kinetic study	3rd & 4th Jan 2014, SJRCE, Mysore

- **PROJECT PROPOSALS SUBMITTED**

- Submitted a project proposal on **20-02-21** titled “Development of electrochemical sensors for biomonitoring of environmentally harmful drug metabolites” for VGST under K-FIST L-1”.
- Submitted a project proposal on **04-12-19** titled “Sensor for bio monitoring antineoplastic drugs and its metabolites” for VGST under K-FIST L-1”
- Submitted a project proposal on **06-11-2015** titled “Electroanalytical investigation to characterize invitro interaction of drugs administered for Diabetic Retinopathy” for “Indo-US collaborative expansion of Vision research” under DBT, Ministry of Science and Technology”

- **NOTABLE ACCOMPLISHMENTS**

- Consistent score of above **4.6** points on a scale of **5** in feedback by students
- Contribution of Book Chapter titled “Kinetic Spectrophotometric Method for Quantitation of Rizatriptan Benzoate in Pharmaceutical Formulations” to the book “Theory and Applications of Chemistry” in 2019 (Print ISBN: 978-93-89246-96-4, eBook ISBN:978-93-89246-97-1)
- Successfully completed NPTEL online certification course in “Organic Chemistry” funded by MHRD, Government of India.
- Contribution of Book Chapter titled “An overview of Invitro-Oxidation of Medicinal Compounds by N-Halogenated Oxidants and Cyclic Voltammetry” to the book “Materials for Advanced Technological Applications” in 2016 (ISBN: 978-93-85682-12-4)
- Certificate of “Excellence in reviewing” award in 2018 by journal “Asian Journal of Applied Chemistry Research”
- Certificate of “Excellence in reviewing” award in 2019 by journal “Chemical science International”
- “Mechanistic study of oxidation of Losartan Potassium by NCS in acid medium” was recognized to be the best paper at National conference on Electrochemical science and technology held at Electrochemical Society of India, IISc,Bangalore, on 24th-25th July 2016.

- **OTHER ACTIVITIES**

- Joint secretary for International conference “Advances in materials, Ceramics and Engineering sciences, 17th and 18th January 2020
- Participated in One day NMR symposium and Users meet organized by Sophisticated Analytical Instrument Facility, IISc, Bangalore on 27th July 2019.
- Participated in six-day Faculty development programme on “Computational science in Engineering” organized by RVCE under Margadarshan scheme, held during 15-20 July 2019
- Participated in One day National seminar on “AICTE Quality initiatives” organized by Cambridge Institute of Technology on 16th December 2019.
- Participated in one day workshop on “Outcome Based Education” organized by VTU, Belagavi, on 7th May 2018.
- Participated in One day training programme on “Spectroscopic applications” Conducted by College of Pharmaceutical Sciences, DSU, on 23rd November 2017.
- Participated in One day workshop on “Research methodologies and Latex” organized by VTU e-learning centre, Mysore on 4th & 5th February 2013.

- **PERSONAL INFORMATION**

- Date of Birth : 22.08.1979
- Father name : Subramanya
- Nationality : Indian
- Marital Status : Married
- Languages : Kannada, English, Hindi, & Telugu
- Permanent address : #692/C, 4th main, Ashoknagar, BSK I stage, II Block, Bangalore

DECLARATION

I hereby declare that the particulars stated above are true to the best of my knowledge.