**Dr. Usha Jinendra**

Bangalore, Karnataka 560028 ♦ 07353896789 ♦ ushajinendra@gmail.com

Professional Summary

Experienced researcher with 6 years working in Chemistry labs and over 7 years of experience teaching science-based courses. Currently working in The Oxford college of Engineering as Asst.Professor. Focused on Environmental Chemistry topics including emerging contaminants, micro pollutants, water treatment, remediation and water use eﬃciency. Committed to providing compassionate support while capitalizing on networking opportunities. 9 publications, 2 coauthor for controlled release of dye degradation in water effluent and biological activities formulated the strong experience in various analytical techniques for formulating characterizes properties like XRD, SEM, TEM, TLC, FTIR, BET and zeta potential measurement, isothermal and kinetic studies, synthesis of nano materials by wet chemical methods and their utilization in antibacterial activity Removal of heavy metals/dyes using low-cost adsorbents,  Knowledge in isolation and purification techniques of organic compounds like distillation, crystallization, chromatographic techniques. Secure a responsible career opportunity to fully utilize my training and skills, while making a significant contribution to the success.

LABORATORY EXPERTISE

* Proficiency with Titrations, Furnace, Kinetic studies, Regeneration of materials, Liquid & Gas Chromatography, Mass Spectrometry, GC/ECD, BET Surface Area Analysis, Powder X-Ray Diﬀraction, UV/Vis Spectroscopy, and Cyclic Voltammetry.
* Experience with method development, troubleshooting of analytical instruments, and best lab practices regarding documentation and QA/QC protocol.
* Knowledge in isolation and purification techniques of organic compounds like distillation, crystallization, chromatographic techniques
* Utilization of Excel, Sigma Plot and Igor for data analysis and interpretation.
* IT: extensive knowledge of standard office software: MS Office, C programming & Internet, Talisma, COMS, Hire craft.
* Other software like Chem Draw, Origin.

WORK History

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Assistance Professor, **The Oxford college of Engineering**, Bangalore, 05/04/2023 till date

Research scholar, REVA University, Bangalore, 06/2016 to 10/22, Research focuses on ***Synthesis, Characterization and Dye Degradation Property of Nano-Structure metal oxides. (***Emerging *Environmental Contaminants and Treatment Technologies****)***

# **Chemistry Lecture** in Vijaya Composite PU College (Unnathi Academy), Bangalore 01/09/21 -31/03/22.

Chemistry/Science Teacher St Norbert ICSE School, 01/03/2020 to 05/09/2021

# **Chemistry Lecturer**, 06/2013 to 03/2016, Mount Carmel College through Basic Computers

# **Chemistry Lecturer**, 10/2012 to 04/2014, Ocean Academy, Bangalore, India.

# **HR Executive**, 06/2011 to 03/2012 Team Lease Staffing Solution Pvt.Ltd – Bangalore, Karnataka

List of Publications:

* 1. Facile synthesis of CoFe2O4 nanoparticles and application in removal of malachite green dye.  
     **Usha Jinendra**, Jeethendra Kumar, B M Nagabhushana, Anjanapura V Raghu, Dinesh Bilehal, Journal of Green materials: https://doi.org/10.1680/jgrma.18.00054. Published Online: December 20, **2018**.
  2. Template-free hydrothermal synthesis of hexa ferrite nanoparticles and its adsorption capability for different organic dyes: Comparative adsorption studies, isotherms and kinetic studies. Usha Jinendra, Bilehal, B.M.Nagabhushana K.R.Reddy, Ch. Venkata Reddy, Anjanapura V.Raghu Journal of Materials Science for Energy Technologies, https://doi.org/10.1016/j.mset.2019.08.005 Received 15 May **2019**, Revised 28 July 2019, Accepted 3 August 2019, Available online 23 August 2019.
  3. Synthesis of Benzoxazole Associated Benzothiazine-4-ones and their in vitro and in silico Antimicrobial, Antioxidant Activities. [T.R. Padmini](https://www.researchgate.net/scientific-contributions/TR-Padmini-2186556642?_sg%5B0%5D=ZPobyMZg6KRXBdoFq0JiyZnxPZX39SJFbXl7xrWo5dKTlzSx76VvZ6H-UFEPKNcfbOnn7uE.GWvxBNzamW6KkJfJXniC55wAKeHuE0ROkg-2hT3TWZ5qZEjp-eLSXkUtdol1mse-GF5sZzh0fISoba_J5Jl_IQ&_sg%5B1%5D=Y2ckYllj7wix8o6qZPrGAhqVfh2MuleoX7-KnnTZiY-iEHe8u8DbwW_e0_jI4WEw3GmLP1k.wFqSa82IW188rJDi9pcEBHdSPtGivNSXeIBltX2IxQmZnGIUguY3i1PCOo2JiR3RtOIQIY8fT32gLNtYtNGAtQ), [H.M. Vagdevi](https://www.researchgate.net/scientific-contributions/HM-Vagdevi-2186475130?_sg%5B0%5D=ZPobyMZg6KRXBdoFq0JiyZnxPZX39SJFbXl7xrWo5dKTlzSx76VvZ6H-UFEPKNcfbOnn7uE.GWvxBNzamW6KkJfJXniC55wAKeHuE0ROkg-2hT3TWZ5qZEjp-eLSXkUtdol1mse-GF5sZzh0fISoba_J5Jl_IQ&_sg%5B1%5D=Y2ckYllj7wix8o6qZPrGAhqVfh2MuleoX7-KnnTZiY-iEHe8u8DbwW_e0_jI4WEw3GmLP1k.wFqSa82IW188rJDi9pcEBHdSPtGivNSXeIBltX2IxQmZnGIUguY3i1PCOo2JiR3RtOIQIY8fT32gLNtYtNGAtQ), [Usha Jinendra](https://www.researchgate.net/profile/Usha-Jinendra?_sg%5B0%5D=ZPobyMZg6KRXBdoFq0JiyZnxPZX39SJFbXl7xrWo5dKTlzSx76VvZ6H-UFEPKNcfbOnn7uE.GWvxBNzamW6KkJfJXniC55wAKeHuE0ROkg-2hT3TWZ5qZEjp-eLSXkUtdol1mse-GF5sZzh0fISoba_J5Jl_IQ&_sg%5B1%5D=Y2ckYllj7wix8o6qZPrGAhqVfh2MuleoX7-KnnTZiY-iEHe8u8DbwW_e0_jI4WEw3GmLP1k.wFqSa82IW188rJDi9pcEBHdSPtGivNSXeIBltX2IxQmZnGIUguY3i1PCOo2JiR3RtOIQIY8fT32gLNtYtNGAtQ). Journal of Asian Journal of Chemistry. DOI: [10.14233/ajchem.2021.22964](https://link.springer.com/article/10.1007/s42247-021-00206-5?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorOnlineFirst_20210425/10.14233/ajchem.2021.22964). January **2020**
  4. [Adsorptive removal of Rhodamine B dye from aqueous solution by using graphene–based nickel nanocomposite](https://www.researchgate.net/publication/351048581_Adsorptive_removal_of_Rhodamine_B_dye_from_aqueous_solution_by_using_graphene-based_nickel_nanocomposite?_sg=6Ih3F-_uhbSQisebBGitKpHALpAvfvaY9mDw6TCrjVLPi-I06NSgsT5sYC-9PxSzzRBo4W7NSqG6NT18gEmqJ_fQYQ43Qb0mmUc5gNnR.SfBopLVeFe5EswrdHHKUMor4AADp_VS7a4kcoS9SQf-geumjSuv1QlmW-xFLDryuwXMvexkTjrmyzCMYpGperQ). **Usha Jinendra**, Dinesh Bilehal, B.M. Nagabhushana, Avvaru Praveen Kumara. Journal of Heliyon. DOI: [10.1016/j.heliyon.2021.e06851](https://link.springer.com/article/10.1007/s42247-021-00206-5?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorOnlineFirst_20210425/10.1016/j.heliyon.2021.e06851). Accepted 14 April **2021**.
  5. Palladium metal embedded on mesoposrous graphene oxide as an efficient heterogeneous catalyst for Suzuki coupling reaction. J[ithendra Kumara K S](https://www.researchgate.net/profile/Jithendra-K-S?_sg%5B0%5D=PVlFKktSP2AHW9oJ8IytjArHJt258mZhIH5HaiDdGdgDzKiPykXLHLP5I7igeXKLvd_f6Qo.ev_9t1vxVoGn7YyvbeBgGfnzuLHxkH6_9ZmTQ68cFdGjdb0RSL54--dDWVMilDzfJuBGnPeLx8noUScO_KMDTQ&_sg%5B1%5D=nbpT0w0ZEBZsGuOOk1pinoi0O0yzfxIgwHnWyX7atAvG9nPONS1eD2XnJhMq1EkI1dGwyYE.FNvG4S2tc9QkLoXvLRdPFnAd4hlp9WqEG8ebB87YX2_0gKu2gkgedMwg2GgU6rcYC2zgegqe4CgweNe1LbojDw), [Ganga Naik Krishnamurthy](https://www.researchgate.net/scientific-contributions/Ganga-Naik-Krishnamurthy-2192176307?_sg%5B0%5D=PVlFKktSP2AHW9oJ8IytjArHJt258mZhIH5HaiDdGdgDzKiPykXLHLP5I7igeXKLvd_f6Qo.ev_9t1vxVoGn7YyvbeBgGfnzuLHxkH6_9ZmTQ68cFdGjdb0RSL54--dDWVMilDzfJuBGnPeLx8noUScO_KMDTQ&_sg%5B1%5D=nbpT0w0ZEBZsGuOOk1pinoi0O0yzfxIgwHnWyX7atAvG9nPONS1eD2XnJhMq1EkI1dGwyYE.FNvG4S2tc9QkLoXvLRdPFnAd4hlp9WqEG8ebB87YX2_0gKu2gkgedMwg2GgU6rcYC2zgegqe4CgweNe1LbojDw), [**Usha Jinendra**](https://www.researchgate.net/profile/Usha-Jinendra?_sg%5B0%5D=PVlFKktSP2AHW9oJ8IytjArHJt258mZhIH5HaiDdGdgDzKiPykXLHLP5I7igeXKLvd_f6Qo.ev_9t1vxVoGn7YyvbeBgGfnzuLHxkH6_9ZmTQ68cFdGjdb0RSL54--dDWVMilDzfJuBGnPeLx8noUScO_KMDTQ&_sg%5B1%5D=nbpT0w0ZEBZsGuOOk1pinoi0O0yzfxIgwHnWyX7atAvG9nPONS1eD2XnJhMq1EkI1dGwyYE.FNvG4S2tc9QkLoXvLRdPFnAd4hlp9WqEG8ebB87YX2_0gKu2gkgedMwg2GgU6rcYC2zgegqe4CgweNe1LbojDw), [Sachin Bhat](https://www.researchgate.net/scientific-contributions/Sachin-Bhat-2192477489?_sg%5B0%5D=PVlFKktSP2AHW9oJ8IytjArHJt258mZhIH5HaiDdGdgDzKiPykXLHLP5I7igeXKLvd_f6Qo.ev_9t1vxVoGn7YyvbeBgGfnzuLHxkH6_9ZmTQ68cFdGjdb0RSL54--dDWVMilDzfJuBGnPeLx8noUScO_KMDTQ&_sg%5B1%5D=nbpT0w0ZEBZsGuOOk1pinoi0O0yzfxIgwHnWyX7atAvG9nPONS1eD2XnJhMq1EkI1dGwyYE.FNvG4S2tc9QkLoXvLRdPFnAd4hlp9WqEG8ebB87YX2_0gKu2gkgedMwg2GgU6rcYC2zgegqe4CgweNe1LbojDw) . Journal of Materials Today: Proceedings. DOI:[10.1016/j.matpr.2021.03.162](https://link.springer.com/article/10.1007/s42247-021-00206-5?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorOnlineFirst_20210425/10.1016/j.matpr.2021.03.162" \t "_blank).Accepted April **2021**.

## [Synthesis of benzoxazole derivatives by Mannich reaction and invitro cytotoxic, antimicrobial and docking studies](https://www.researchgate.net/publication/347913269_Synthesis_of_benzoxazole_derivatives_by_Mannich_reaction_and_invitro_cytotoxic_antimicrobial_and_docking_studies?_sg=w6uZHARtg1qoWmQp7iBbfY4hejWLT8rBZUQpE0sVEM_BjrZPaYprRYvOKECeybwvCO_c37WWV9ufcL-dVqAPJJ94NB9lJ84QqL-0igX-.H2vddqzkppwWZbByAXzYVEdNrvhEwcI3ONj9_q-xSH-vfY_9kYBVimMgAI9erb0Qr87aXDongB8DT_poWmue4Q) [Padmini TR](https://www.researchgate.net/scientific-contributions/TR-Padmini-2186556642), [Vagdevi HM](https://www.researchgate.net/scientific-contributions/HM-Vagdevi-2186475130), [Usha Jinendra](https://www.researchgate.net/profile/Usha-Jinendra), [Ravikiran B](https://www.researchgate.net/scientific-contributions/Ravikiran-B-2187071999). Journal of Chemical Data Collections [https://doi.org/](https://doi.org/10.1016/j.cdc.2020.100628)[10.1016/j.cdc.2020.100628](https://link.springer.com/article/10.1007/s42247-021-00206-5?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorOnlineFirst_20210425/10.1016/j.cdc.2020.100628). February 2021.

## [Desalination and Water Treatment Comparative adsorptive and kinetic study on the removal of Malachite Green in aqueous solution using titanium coated graphite and titanium coated graphite with CNT-ABS nanocomposite](https://www.researchgate.net/publication/348806178_Desalination_and_Water_Treatment_Comparative_adsorptive_and_kinetic_study_on_the_removal_of_Malachite_Green_in_aqueous_solution_using_titanium_coated_graphite_and_titanium_coated_graphite_with_CNT-ABS?_sg=dS-wvtLGeEHL5iG0j-0GINOiqucXY9kV4LClBH862N-XdKC6WIkgY_wRLr6Cw0FLgkTUNTW4ZuMnLV5o0PzdOWWOIvNfwq9lx07NxnQa.BYV-LRPUPjtHe6raK6decP8fKp19BAgmBtGsOwLWiVK5vUVHmRpZy_bCqlAFMuIYk6vpuaPypNHKkI012B7f5A). [Usha Jinendra](https://www.researchgate.net/profile/Usha-Jinendra), [B M Nagabhushana](https://www.researchgate.net/scientific-contributions/BM-Nagabhushana-14350375), [Dinesh Bilehal](https://www.researchgate.net/profile/Dinesh-Bilehal). Journal of Desalination and Water Treatment. DOI:[10.5004/dwt.2021.26536](https://link.springer.com/article/10.1007/s42247-021-00206-5?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorOnlineFirst_20210425/10.5004/dwt.2021.26536" \t "_blank). January 2021.

## [Nano-catalytic behavior of highly efficient and regenerable mussel-inspired Fe3O4@CFR@GO and Fe3O4@CFR@TiO2 magnetic nanospheres in the reduction of Evans blue dye](https://www.researchgate.net/publication/348726470_Nano-catalytic_behavior_of_highly_efficient_and_regenerable_mussel-inspired_Fe3O4CFRGO_and_Fe3O4CFRTiO2_magnetic_nanospheres_in_the_reduction_of_Evans_blue_dye?_sg=AghKJtRAY3I-bS8RIv0qBN9D4PwuaSqiFpwH9zkA36vR1ODQgApNkJdONsQ9p6fYdh8sHvD4Ochzn9KyG7I_COK1xBzcXZeIY8VJh41t.EqnfrtFKwEGnmsmAW0ULA-YMbQ3hpTOcLLnsfxOxEwZtKeLHbMQoFfbtkYhbZOWHBWVAwJGfU6IyS-3b_OmcQA). Usha Jinendra, Dinesh Bilehal, B.M. Nagabhushana, K.S. Jithendra Kumara, Shiva Prasad Kollur. Journal of Heliyon DOI:[10.1016/j.heliyon.2021.e06070](https://link.springer.com/article/10.1007/s42247-021-00206-5?wt_mc=Internal.Event.1.SEM.ArticleAuthorOnlineFirst&utm_source=ArticleAuthorOnlineFirst&utm_medium=email&utm_content=AA_en_06082018&ArticleAuthorOnlineFirst_20210425/10.1016/j.heliyon.2021.e06070" \t "_blank).Accepted 19 January 2021.

## Studies of Hydrogenation of Dehydogingirozone, Academic projects Topic: Studies Of Hydrogenation of Dehydogingirozone CFTRI, Mysore: <http://ir.cftri.com/id/eprint/10277>.

## Usha Jinendra, Mahadev C. Khetagoudar, Avvaru Praveen Kumar , Dinesh Bilehal, Shiva Prasad Kollur Multi residue pesticide analysis in green chili using GC–MS/MS using modified method with highly efficient Fe3O4@CFR@GO nanocomposite. Received 20 September 2021; Received in revised form 16 December 2021; Accepted 3 January 2022. <https://doi.org/10.1016/j.inoche.2022.109195>.

* 1. **Usha Jinendra,** BM Nagabhushana, Dinesh Bilehal, Muzaffar Iqbal, Raghavendra G Amachawadi, Chandan Shivamallu, Shiva Prasad Kollur. Encapsulated Co-ZnO nanospheres as degradation tool for organic pollutants: Synthesis, morphology, adsorption and photo luminescent investigations." Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 299 (2023): 122879.

Education

Ph.D: Chemistry in Nanoparticles, 2022 from REVA University - Bangalore

M.Sc. (Chemistry), 06/2011 from St. Philomena's College, University Of Mysore

**B.Sc.** (PCM), 06/2009 from St.Philomena’s college, University Of Mysore

PUC (PCMB), 05/2006 from St.Philomena’s college, University Of Mysore

10th / SSLC: 03/2004 from St. Anne's Covent Girls High School - Mysore

personal details

• Husband's Name: Mr. Jinendra J.A  
• Date of Birth: 27.10.1988  
• Nationality: Indian  
• Marital Status: Married  
• Languages Know: English, Kannada & Hindi  
• Passport No: K8347885

Declaration

I Hereby declare that the above – furnished details are true with Proven records.

Place: Signature   
Date: (Usha Jinendra)