

Dr. SUPRIYA S.

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Objective

To apply all skills and potentials, developed so far through academic, industrial and research experiences for a higher value in the up taking profession; at the same time, to upgrade self with new skills to perform better each time.

Educational Background

Ph.D. in Chemistry

Topic : “Synthesis, characterization and functionalization of bio-based carbon nanospheres for catalytic applications”

University : Visvesvaraya technological university (VTU)

Year : March, 2021

No. of Publications: 13 (+3 communicated)

Patent published: 01

Patents filed: 03

Conferences: 07 (2 best presentation awards)

Degree	Institution	Branch	Year	Marks (%)
M.Sc.	National Institute of Technology, Karnataka Surathkal (NITK)	General Chemistry	2008 - 2010	CGPA 8.48
B.Sc.	Alva's College, Moodbidri	Chemistry, Biotechnology, Botany	2005 - 2008	87.35

PUC	Vivekananda College, Puttur	PCMB	2003 - 2005	81.20
SSLC	Govt Girl's Junior College, Tarikere	NA	2003	88.48

Professional Experience

From	To	Work performed
Feb 2021	Till date	Assistant Professor, Department of Chemistry, B.M.S. College of Engineering, Bengaluru
Nov 2019	Feb 2021	Worked under Government funded India, Thailand and Malaysia collaborative R & D project; ASEAN –CRD/2018/000019 Visited Prince of Songkla University (PSU), Hat Yai, Thailand, as visiting research fellow, as a part of the project. Working on; i) Catalytic studies using carbon nanomaterials in azo dye degradation, coupling reaction and reduction reactions ii) membrane preparation iii) water treatment using carbon nanomaterials
Feb 2017	July 2020	Research Scholar, Centre for Nanomaterials & Displays, Department of Chemistry, B.M.S College of Engineering Worked as member of editorial board for an international conference held at B.M.S College of Engineering
Jan 2016	Feb 2017	Research Assistant, B.M.S R & D Centre

Feb 2014	Jan 2016	Quality Unit executive at Resonance Laboratories Pvt. Ltd., Doddaballapur, Bengaluru - Handled instruments such as GC, HPLC, GPC, FTIR, UV, TGA and Karl Fischer titrators - Involved in SOPs preparation, analysis of raw materials, intermediates, APIs and packaging materials - Handled change controls and deviations - In-charge of stability studies, environmental and water monitoring - Developing and editing internal analysis procedures for pharmaceutical samples
Aug 2013	Jan 2014	Assistant Professor in Chemistry at Siddhartha Institute of Aeronautical Engineering and Information Technology, Bengaluru
July 2011	Jun 2013	Lecturer in Chemistry at Presidency P.U College, J.P Nagar, Bengaluru; involved actively in content development

Patent published:

Title: **A catalyst composition for the reduction of nitroarenes and method for reduction using the same**

Publication date: 07-Aug-2020

Application Number: 201941004474

Patent file number: TEMP/E-1/4834/2019-CHE

Patents filed:

- 1) Metal free degradation of azo compounds using porous carbon nanospheres, Indian Patent with file number TEMP/E-1/24326/2020-CHE
- 2) Supercapacitor prepared from biomass derived carbon nanospheres, Indian Patent with file number TEMP/E-1/23430/2020-CHE
- 3) A synthesis of carbon nanosphere from biowaste Indian Patent with file number TEMP/E-1/4822/2019-CHE

Research Publications:

- 1) **Supriya S.**, Guddekoppa S. Ananthnag, Vijayendra S. Shetti, Nagaraja B. M., Gurumurthy Hegde, “Cost effective bio-derived mesoporous carbon nanoparticles supported palladium catalyst for nitroarene reduction and Suzuki-Miyaura coupling by microwave approach”, *Applied Organometallic Chemistry*, 2020, 34(3), e5384. **Impact Factor: 3.581, JCR Ranking: Q1**
- 2) **S. Supriya**, Ganesan Sriram, Zainab Ngaini, C. Kavitha, Mahaveer Kurkuri, Irene Paola De Padova, Gurumurthy Hegde, “The Role of Temperature on Physical–Chemical Properties of Green Synthesized Porous Carbon Nanoparticles”, *Waste and Biomass Valorization*, 2019, 1-11. **Impact Factor: 2.30, JCR Ranking: Q2**
- 3) **S. Supriya**, V. S. Shetti, G. Hegde, “Conjugated System of Porphyrin-carbon Nano Allotropes: A review”, *New Journal of Chemistry*, **2018**, 42, 12328-12348.
Impact Factor: 3.069, JCR Ranking: Q2
- 4) **S. Supriya**, A. Divyashree, S. Yallappa, G. Hegde, “Carbon nanospheres obtained from carbonization of bio-resource: A catalyst free synthesis, *Materials Today Proceedings* **2018**, 5, 2907-2911.
- 5) Agnus T Mathew, **Supriya S.**, Akshaya K B, Anitha Varghese, Gurumurthy Hegde, “An aqueous phase TEMPO mediated electrooxidation of 2-thiophenemethanol using MnO₂-Pi dispersed nanocarbon spheres on carbon fiber paper electrode”, **RSc Advances, Just accepted, 2020, Impact factor: 3.119**
- 6) Vinay S. Bhat, **Supriya S.**, Titilope John Jayeoye, Thitima Rujiralai, Nok Uraivan, Kwok Feng Chong, Gurumurthy Hegde, “Influence of surface properties on electro-chemical supercapacitors utilizing Callerya atropurpurea pod derived porous nanocarbons: Structure property relationship between porous structures to energy storage devices”, **Nano Select, 2020, Just accepted, Wiley Publisher.**
- 7) Vinay S. Bhat, **Supriya S.** and Gurumurthy Hegde, “Biomass Derived Carbon Materials for Electrochemical Sensors”, *Journal of the Electrochemical Society*, 2020, 167, 037526.
Impact Factor: 3.662, JCR Ranking: Q1
- 8) Ganesan Sriram, **Supriya S.**, Mahaveer Kurkuri, Gurumurthy Hegde, “Efficient CO₂ adsorption using mesoporous carbons from biowastes”, *Materials Research Express*, 2019, 1. **Impact Factor: 1.449, JCR Ranking: Q3**

- 9) V Bhat, **S. Supriya**, G Hegde, “Superior Supercapacitors based on Biowaste Materials”, Journal of Engineering and Scientific Research, 2019, 1, 25-30.
- 10) Gomaa AM Ali, **S Supriya**, Kwok Feng Chong, Essam R Shaaban, H Algarni, T Maiyalagan, Gurumurthy Hegde, “Superior supercapacitance behavior of oxygen self-doped carbon nanospheres: a conversion of *Allium cepa* peel to energy storage system”, Biomass Conversion and Biorefinery, 2019, 1-13.
Impact Factor: 2.326, JCR Ranking: Q2
- 11) G. A. Ali, A. Divyashree, **S. Supriya**, K. F. Chong, A. S. Ethiraj, M. V. Reddy, G. Hegde, “Carbon nanospheres derived from *Lablab purpureus* for high performance supercapacitor electrodes: a green approach”, Dalton Transactions, 2017, 46, 14034-14044. **Impact Factor: 4.052, JCR Ranking: Q1**
- 12) P. De Padova, A. Generosi, B. Paci, B. Olivieri, C. Ottaviani, C. Quaresima, L. Suber, F. Di Pietrantonio, G. D. Ventura, L. Piloni, **S. Supriya**, G. Hegde, “Cu Nano-Roses Self-Assembly from *Allium cepa*, L., Pyrolysis by Green Synthesis of C Nanostructures”, Applied Sciences, 2020, 10, 3819, **Impact Factor: 2.217, JCR Ranking: Q2**
- 13) Agnus T. Mathew, Vinay S. Bhat, Akshaya K.B, **Supriya S**, Maiyalagan T, Anitha Varghese, Gurumurthy Hegde, “TEMPO mediated electrocatalytic oxidation of pyridyl carbinol using palladium nanoparticles dispersed on biomass derived porous nanoparticles”, Electrochimica Acta, Available online 20 June 2020, 136624 <https://doi.org/10.1016/j.electacta.2020.136624> **Impact Factor: 5.383, JCR Ranking: Q1**

Presentations at Conference

- 1) **Best presentation award** at 11th Bengaluru Nano India 2020 held on March 2nd and 3rd, 2020; for the poster titled, “Cost effective Pd/CNS catalyst from bio-renewable based porous carbon nanospheres: A boon to the pharma industry”.
- 2) **Best presentation award** for the topic “Carbon nanospheres obtained from bio-resource of *Lablab purpureus* (Been) seeds: A catalyst free synthesis” at International Conference on Advanced Materials and Applications (ICAMA 2016) on 15-17 June 2016.
- 3) Participated in 4th **Japan-Thailand joint symposium** on Advanced nanomaterials and devices for electronic and photonics (JT-AND 2020), held at Prince of Songkla University, Hat Yai, Thailand on January 21-23, 2020.

- 4) Poster presentation at an international conference held in Jain University, titled 'International conference on Frontiers in Materials from Basic Science to Real-Time applications' on 13-16-March-2019. Title of poster - 'Porous nanoparticles for the application as catalyst'.
- 5) Oral presentation at an international conference on Innovations and Challenges in Science and Technology at Don Bosco Institute of Technology, Bengaluru on 24-26 May 2018. Topic presented – 'One pot synthesis of carbon nanospheres from oil palm waste for supercapacitor application'.
- 6) Poster presentation at a conference held by KSTA on Science and Technology for future of humanity at Reva University, Bengaluru on 18-19 Jan 2018. Topic presented – 'Technique of surface functionalization of one-spot synthesized oil palm biomass derived carbon nanospheres'.
- 7) Poster presentation at National conference on Recent Trends on Chemical and Biological Sciences, NCRTCBS-2010, held at the Department of Chemistry, Kuvempu University, Shimoga, March 30-31, 2010. Topic presented - 'Spectral and Microhardness studies of Poly(methyl methacrylate) (PMMA) and Ethyl cellulose (EC) blends'.

Personal Details

Date of Birth	: 25-02-1988
Marital Status	: Married
Sex	: Female
Husband's Name	: Dr. R. Dileep
Nationality	: Indian
Languages Known	: English, Kannada and Hindi
Present address	: Flat No. F2, Adya Enclave # 197/A, 4 th cross Sai Enclave Layout J.P. Nagar, 7 th phase Bangalore 560076

References

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