

Dr. ABHILASH. M. R.,

M. Sc (Gold Medalist), CSM., Ph. D.,

Full-Time Guest Faculty

Department of Studies in Environmental Science

University of Mysore, Mysuru, Karnataka, India - 570 006

Cell: +91-9141106393

Email: abhilash@envsci.uni-mysore.ac.in

(MYSURU, INDIA, Permanent Resident, Passport No: R0345822)

DOB: 21-02-1990



PROFESSIONAL POSITIONS

- ✚ **Full-Time Guest Faculty**, Department of Studies in Environmental Science, University of Mysore, Mysuru, India, **March - 17, 2021 to Till Date.**
- ✚ **DST - INSPIRE Fellow**, Senior Research Fellow (SRF), Department of Studies in Environmental Science, University of Mysore, Mysuru, India, **May - 10, 2019 to February - 2021.**
- ✚ **DST - INSPIRE Fellow**, Junior Research Fellow (JRF), Department of Studies in Environmental Science, University of Mysore, Mysuru, India, **March - 18, 2016 to May - 09, 2019.**
- ✚ **Project Fellow**, Evolving Sustainable Conservation Strategies for Water Bodies of Mysuru – Nanjanagud Local Planning Area, EMPRI Sponsored Research Project (Govt. of Karnataka), **September - 2014 to September - 2016.**

ACADEMIC CREDENTIALS

Name of the Institute	Course / Degree with Specialization	University	Grade Point	Year of Output	Remarks and Percentage (%)
Doctor of Philosophy (Ph. D)	Environmental Science, Specialization: Material Science	University of Mysore	3.47/4.00	2021	-NA-
Department of Studies in Environmental Science	M.Sc. (Environmental science)	University of Mysore	3.47/4.00	2014	84.21 % 1st Rank with Distinction and Gold Medalist (4 Gold Medals and Cash Award)
Yuvaraja's College	B.Sc. Chemistry Biotechnology, and (Environmental science)	A Constituent Autonomous under University of Mysore	3.34/4.00	2012	Over All 74.16 % Cognate Discipline 84.5 % 1st Rank with Distinction and Cash Award
Karnataka State Open University and Commonwealth of Learning, Canada	Certificate program in Solid Waste Management	Karnataka State Open University	NA	2013	82.5 % 1st Rank with Distinction
Karnataka State Eligibility Test, (KSET) Center for Lectureship	(KSET) Eligible for Lectureship and Assistant Professorship	University of Mysore	3.47/4.00	2015	Cleared in First attempt

POSITIVE QUALITIES

- ✚ Pioneer student of the country to complete **B.Sc., M.Sc., and Ph.D.**, all in the subject of **Environmental Science**, with good academic records and **1st rank in B. Sc** and also **Gold Medalist in M.Sc.**
- ✚ Young and energetic fellow with good number of research publications having a decent impact factors, where the number is more when compared to other fellows in the subject of **Environmental Science**.

RESEARCH & ACADEMIC INTEREST

- ✚ Interested in carrying out research on problems related to the preparation of **Metal oxide heterostructure, nanocomposites** and studying their application potential in health, energy and environmental issues in addition to the teaching of master's degree students.

SKILLS AND EXPERTIES

- I am very much keen to develop my understanding and acquire new skills through employment.
- A critical thinker with strong analytical skills and good organizational skills developed in a variety of deadline orientated situations.
- Get on well with people at all levels, easily making good working relationships. Have good presentation skills combining sound analytical research and clear verbal explanation
- Seek out new responsibilities irrespective of reward and recognition.
- Operating System: MS-DOS Windows 98, 2000 XP, home basic, packages MS-Office (Word, Power Point, Excel, and Origin).
- Chemistry Software: Chem-draw and Plagiarism check software's.
- Consistently provide leadership and support while supervising, instructing and mentoring graduate Students.

CAREER HIGHLIGHTS AND ACHIEVEMENTS

- ❖ Awarded Prestigious **DST – INSPIRE** Fellowship by Department of Science and Technology, Govt. of India – March 2016.
- ❖ **2nd Rank** in Ph. D Eligibility Examinations, Conducted by University of Mysore - 2016.
- ❖ Cleared **K-SET** Eligible for Lectureship and Assistant Professorship in First attempt - 2015.
- ❖ **1st Rank** with **Distinction** in M.Sc with 4 Gold Medals and Cash Prize to Mysore University – 2014.
- ❖ Post-graduation research project got an appreciation from **Deputy Director General (DDG - Research), International Crop Research Institute for Semi-arid tropics** in 2014.
- ❖ **1st Rank** with **Distinction** in Certificate Course in Solid waste management to Karnataka State Open University (KSOU), Mysore – 2014.
- ❖ **1st Rank** in **B. Sc** with **Cash Prize** to Mysore University – 2013.

ACADEMIC PROJECTS

B. Sc Project

- **Removal of Lead from Industrial Effluent by using Biosorbent** – Under the guidance of **Prof. (Dr) .S.Suresha (2012)**. University of Mysore, Mysuru, India.

M. Sc Project

- **The Study of Urban Wastewater and Biosolid amended soil with the determination of Heavy Metal Bioaccumulation in the Crops in Mysore city, India.** Under the guidance of **Prof. (Dr). S. Srikantaswamy (2014)**. University of Mysore, Mysuru, India.

RESEARCH PROJECT

- **Evolving Sustainable Conservation Strategies for Water Bodies of Mysuru – Nanjanagud Local Planning Area**, EMPRI Sponsored Research Project (Govt. of Karnataka) – September – 2015 to September – (2016). Under the guidance of **Prof. (Dr). S. Srikantaswamy** Co-ordinator and **Prof. (Dr). M. S. Sudharshana**, Co-coordinator. University of Mysore, Mysuru, India.

DOCTORAL THESIS

- ❖ **SYNTHESIS OF METAL OXIDES AND THEIR USES IN INDUSTRIAL WASTEWATER TREATMENT BY PHOTOCATALYTIC PROCESSES** Under the guidance of **Prof. (Dr). S. Srikantaswamy**, Director, College Development Council, University of Mysore, Chairman, Board of studies in Environmental Science and Co-ordinator, M. Tech in Material Sciences, University of Mysore.

AWARDS AND RECOGNIZATIONS

- ✚ Awarded DST-INSPIRE Fellowship-2016 by Department of Science and Technology, Govt. of India.
- ✚ Jindal Jubilee Gold Medal - 2015.
- ✚ Smt. Basavaraju Gemini Distilleries Endowment Gold Medal -2015.
- ✚ Late B. Basavalingappa Memorial Trust Endowment Gold Medal - 2015.
- ✚ Smt. Meenakshamma Chandrashekar Gold Medal -2 015.
- ✚ Murthy's Cash Award for Excellence for securing highest score in Master of Science Program in Environmental Science - 2015.
- ✚ Best Thesis Reorganization from Deputy Director General of International crop research institute for semi-arid tropics for Master of Science Degree Research Thesis - 2015.

MEMBERSHIPS

- **Life Member** to Indian Science Congress Association. **No: L27429**, Kolkata, India.
- **Life Member** to International Society for Environmental Information Sciences, 4246 Albert Street, Suite 413 Regina, Saskatchewan S4S 3R9, Canada

ADMINISTRATIVE RECOGNIZATIONS

- **Student Member** – Academic council (2015), University of Mysore, Mysuru – 570 005, Karnataka.

VISITS ABROAD

- ✚ Travelled widely in **Japan, Australia, South Africa, Singapore, Thailand, Germany, People Republic China, Hong Kong, South Korea, Kenya and Dubai etc.**,

GOVERNMENT REPORT / POLICY

- 1) Srikantaswamy S, M. S. Sudharshana, **M. R. Abhilash** and C. Mahendra, Evolving Sustainable Conservation Strategies for Water Bodies of Mysuru – Nanjanagud Local Planning Area, EMPRI Sponsored Research Project Report (Govt. of Karnataka), (November - 2016), Phase, 02, 001-783.

2021

1. **Abhilash M. R.**, Jagadish K, Akshatha G, Srikantaswamy S (2021), Hydrothermal processing of interfacial BiCeO₃/MWCNTs photocatalyst for rapid dye degradation and its biological interest, *Journal of Environmental Chemical Engineering, Elsevier*, Volume 9, Issue 4, 2021, 105774, ISSN 2213-3437, DOI:<https://doi.org/10.1016/j.jece.2021.105774>. (IF - 5.909), (Q1).
2. Chandrakantha K. S, Abdo Hezam, **Abhilash M. R.**, Deepu H. R, Dhananjay K. P, Jagadish K, Rangappa K. S., Srikantaswamy S (2021), Microwave hydrothermal synthesis of copper induced ZnO/gC₃N₄ heterostructure with efficient photocatalytic degradation through S-scheme mechanism, *Journal of Photochemistry and Photobiology A: Chemistry, Elsevier*, Volume 418, 2021, 113394, ISSN 1010-6030, DOI:<https://doi.org/10.1016/j.jphotochem.2021.113394>. (IF - 4.291), (Q1).
3. Akshatha G, **Abhilash M.R.**, Jagadish K, and Srikantaswamy S (2021), Hybrid nano-composites by deposition of Ag₂WO₄/Carbon nanotube: Efficient biological application, *Austin Journal of Environmental Toxicology* 7(1) ISSN: 2472-372X, DOI: <http://doi://.ajet/-v7/-id1035> (IF - 1.2).
4. G. Akshatha, **M. R. Abhilash**, K. Jagadish, S. Srikantaswamy, H.R Chaitra (2021), Hydrothermal Synthesis, Characterization and Enhanced Photo catalytic activity of Ga₂O₃/CNT Nanocomposite, *International Journal of All Research Education and Scientific Methods (IJARESM)* 9, 4, ISSN: 2455-6211.
5. Akshatha G, **M. R. Abhilash**, Jagadish K, Srikantaswamy S (2021), Photo-catalytic dye degradation of methylene blue by using ZrO₂/MWCNT nanocomposites, *Water Practice and Technology, IWW*, wpt20021066. DOI: <https://doi.org/10.2166/wpt.2021.066>. (IF - 1.58), (Q3).
6. Srikantaswamy S, Jagadish K, **M. R. Abhilash**, and Akshatha G (2021), Fe-Ni nanoparticle-catalyzed controlled synthesis of multi-walled carbon nanotubes on CaCO₃, Vol. 27, pp. 1104-1111, *Indian Journal of Engineering & Materials Sciences, CSIR, (NISCAIR)*. (IF - 0.896), (Q2).
7. **Abhilash M R**, Akshatha G, Mahendra C, and Srikantaswamy S (2021), Hydrothermal synthesis of Ga₂O₃/TiO₂ nanocomposites with highly enhanced Solar photocatalysis and their biological interest, *Journal of Photochemistry and Photobiology, Elsevier*, 100020, ISSN 2666-4690, DOI: <https://doi.org/10.1016/j.jpap.2021.100020>. (IF - 3.568), (Q2).
8. **Abhilash M R** and Srikantaswamy S (2021), Hydrothermal synthesis of MoO₃/ZnO heterostructure with highly enhanced photocatalysis and their environmental interest, vol. 8, Issue 5, 104071, *Journal of Environmental Chemical Engineering (JECE), Elsevier*, 2020.104071. DOI: <https://doi.org/10.1016/j.jece.2020.104071>. (IF - 5.909), (Q1).
9. Akshatha G, **Abhilash M.R.**, Jagadish K, and Srikantaswamy S (2021), Synthesis and characterization of Manganese oxide nano-flowers and their application for efficient dye degradation, heavy metal removal and its biological importance, *Urban Panorama, A Journal of urban governance and management, Govt. of India*, vol. XX, no. 01, p.no. 75-86, ISSN: 0975-8534.

2020

10. **Abhilash M R**, Akshatha G, Jagadish K, Mahendra C, and Srikantaswamy S (2020), Synthesis of graphene nanosheets by emitted black carbon and its sustainable applications, vol. 8, Issue 5, 104071, 2020, *Journal of Environmental Chemical Engineering (JECE)*, Elsevier,.104071. DOI: <https://doi.org/10.1016/j.jece.2020.104071>. (IF - 5.909), (Q1).
11. Mahendra, C, Chandra, M. N, Murali, M, **Abhilash, M. R**, Brijesh, S. S., Satish, S and Sudarshana, M. S (2020). Phyto-fabricated ZnO nanoparticles from *Canthium dicocum* (L.) for Antimicrobial, Anti-tuberculosis and Antioxidant activity. 2019, 12, 2634-2645, *Process Biochemistry*, Elsevier, DOI: <https://doi.org/10.1016/j.procbio.2019.10.020>. (IF – 3.757), (Q1).

2019

12. Mohana N. C, Mahendra C, Rao H. Y, **Abhilash M. R**, Satish S (2019), Hydrothermal combustion based ZnO nanoparticles from *Croton bonplandianum*: Characterization and evaluation of antibacterial and antioxidant potential, *Sustainable Chemistry and Pharmacy*, Elsevier, 2019 Dec 1;14:100186. DOI: <https://doi.org/10.1016/j.scp.2019.100186>. (IF – 4.508), (Q1).
13. **Abhilash M. R**, Akshatha G, Jagadish K, Mahendra C and Srikantaswamy S (2019), Hydrothermal synthesis, characterization and enhanced photocatalytic activity and toxicity studies of a rhombohedral Fe₂O₃ nanomaterial, *Royal Society of Chemistry, Advances*, 2019,9, 25158-25169, DOI: [10.1039/C9RA04978A](https://doi.org/10.1039/C9RA04978A). (IF – 3.361), (Q2).
14. **Abhilash M. R**, Akshatha G and Srikantaswamy S (2019), Photocatalytic dye degradation and biological activities of the Fe₂O₃/Cu₂O nanocomposite, *Royal Society of Chemistry, Advances*, 2019, 9, 8557, DOI: [10.1039/c8ra09929d](https://doi.org/10.1039/c8ra09929d). (IF – 3.361), (Q2).
15. **Abhilash M. R** and Srikantaswamy S (2019), Controllable hydrothermal growth of Fe₂O₃/GO wrapped nanocomposites and its sustainable applications, *International Journal of Research and analytical reviews*, vol 5, issue 4, Oct.-Dec. 2018, e ISSN 2348 –1269, ISSN 2349-5138, DOI: <http://doi.org/10.1729/Journal.19355>. (IF – 0.785), (Q3).
16. Nayan, M.B, Jagadish, K, **Abhilash, M.R**, Namratha, K. and Srikantaswamy S (2019), Comparative Study on the Effects of Surface Area, Conduction Band and Valence Band Positions on the Photocatalytic Activity of ZnO-MxOy Heterostructures. *Journal of Water Resource and Protection*, 11, 357-370, DOI: <https://doi.org/10.4236/jwarp.2019.113021>. (IF – 1.33), (Q3).
17. K. Jagadish, Srikantaswamy S, **M. R. Abhilash**, M. B. Nayan, S. Rajendraprasad, Akshatha G (2019), Hydrothermal Synthesis of Multiwall Carbon Nanotubes using Polystyrene: Purification and Characterization, *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Volume 6 Issue II, February 2018, ISSN: 2321-9653, ISSN: 2321-9653. (IF – 0.691).

18. S. Rajendra Prasad S, Srikantaswamy S, D. Shivakumar, K. Jagadish, **M. R. Abhilash** (2019), Synthesis, characterization of copper metavanadate (CuV_2O_6) nanostructures via, hydrothermal method and the photocatalytic performance. *Oriental Journal of Chemistry*, 2018, 4, 3, 78-84. DOI : <http://dx.doi.org/10.13005/ojc/340309>. (IF – 1.25), (Q3).

19. S. Rajendra Prasad S, Srikantaswamy S, D. Shivakumar, K. Jagadish, **M. R. Abhilash** (2019), Solar light induced degradation of methylene blue using novel cobalt vanadate titanium dioxide ($\text{Co}_3\text{V}_2\text{O}_8/\text{TiO}_2$) nanocomposite. *International journal for research in applied Science and Engineering Technology, (IJRASET)*, 2018, 6, 927-933, ISSN: 2321-9653. (IF – 0.691).

2018

20. **Abhilash M. R** and Srikantaswamy S (2018), Visible Light Assisted Photocatalytic Degradation of Chromium (VI) by Using Nanoporous Fe_2O_3 , *Journal of Materials*, vol. 2018, Article ID 1593947, 13 pages, 2018. DOI: <https://doi.org/10.1155/2018/1593947>. (IF – 2.986), (Q3).

21. Shivakumar D, **Abhilash M. R** and Srikantaswamy S (2018), A study on geochemical behavior of heavy metal in soil of industrial area of Mysore city, India, Page No,61-65, *BSFSEM*, 2018, ISBN:978-93-82694-49-06.

22. Shivakumar D, **Abhilash M. R**, and Srikantaswamy S (2018), Phytoremediation techniques for cleaning up of industrial contaminated soil, Page No, 54-56, *BSFSEM*, 2018, ISBN:978-93-82694-49-06.

23. **Abhilash M. R**, Shivakumar D and Srikantaswamy S (2018), Phytoremediation technology for clearing up of Industrial contaminated soil by *Trigonella foenum graecum* and *Pennisetum Purpurem*, Page No, 118-125, *BSFSEM*, 2018, ISBN:978-93-82694-49-06.

24. **Abhilash M. R**, Shivakumar D and Srikantaswamy S (2018), Controllable Hydrothermal growth of Eco-friendly Nano composite and its Application, Page No, 7-11, *BSFSEM*, 2018, ISBN:978-93-82694-49-06.

25. **Abhilash M. R**, Shivakumar D and Srikantaswamy S (2018), Controllable Hydrothermal growth of Eco-friendly Nano composite and its Application, Paper No. RP-02, Page No, 04, *BSFSEM*, 2018, February, 15, ISBN: 978-93-82694-49-06.

2017

26. R. Manju, Srikantaswamy S, D. Shivakumar, K. Jagadish , **M. R. Abhilash** (2017), Corn Steep Liquor Additive Aided Composting For Municipal Solid Waste and Evolution of Its Characteristics. *International Journal for Research in Applied Science & Engineering Technology (IJRASET)*, Volume 5 Issue XI, ISSN: 2321-9653. (IF – 0.691).

27. Mahendra C, Murali M, Manasa G, Ponnamma P, **Abhilash M. R.**, Laksheesha T R, Satish A, Amruthesh K N, Sudarshan M S (2017), Antibacterial and antimutagenic potential of bio-fabricated zinc oxide nanoparticles of *Cochlospermum religiosum* (L.), *Microbial Pathogenesis, Elsevier*, 110:620-629. DOI: [10.1016/j.micpath.2017.07.051](https://doi.org/10.1016/j.micpath.2017.07.051). (IF – 3.738), (Q3).
28. Shiva Kumar. D, Srikantaswamy S, **Abhilash M. R.**, Smitha N (2017), Review on pros and cons of aquaculture. *International Journal of Current Research*, Vol. 9, Issue, 07, pp. 54441-54443, ISSN: 0975-833X. (IF – 0.236).
29. Shiva Kumar.D, Srikantaswamy S **Abhilash M. R.**, Smitha N (2017), Environmental Impacts of Aquaculture in Urban Wastewater. *International Journal of Current Research*, Vol. 9, Issue, 07, pp. 54427-54431, ISSN: 0975-833X. (IF – 0.236).

2016

30. **Abhilash M. R.**, Shiva Kumar D, Srikantaswamy S and Mahendra C (2016), Study of semi-urban wastewater characteristics used for agriculture, *International Journal of Environmental Sciences*, Volume 6, Issue 7, ISSN 0976 – 4402. DOI: [10.6088/ijes.7002](https://doi.org/10.6088/ijes.7002). (IF – 2.369), (Q3).
31. **Abhilash M. R.**, Shiva Kumar D and Srikantaswamy S (2016), Phytoremediation of Heavy metals in Municipal wastewater irrigated soils and their speciation in Mysuru city, India, *International Journal of Applied Sciences*, Vol.04, Issue 03. Pg. no. 553-563, ISSN 2455-4499. DOI: <http://dx.doi.org/10.21013/jas.v4.n3.p18>. (IF – 1.054).
32. **Abhilash M. R.**, Srikantaswamy S, Shiva Kumar D and Jagadish K (2016), Phytoremediation Of Heavy Metals In Urban Wastewater Irrigated Soils By Using Selected Crop Species In Mysuru, Karnataka, India, *Int. J. of Adv. Res*, October (15) issue, Vol.4, 175-181, ISSN 2320-5407. DOI: <http://dx.doi.org/10.21474/IJAR01/1774>.
33. **Abhilash M. R.**, Srikantaswamy S and Shiva Kumar. D (2016), Uptake of Heavy Metals from Urban Wastewater Contaminated Soils by Using Selected Crop Species of Mysuru City, India, *International Journal of Applied Sciences*, Vol.04, Issue 03. Pg. no. 553-563, ISSN 2455-4499. DOI: <http://dx.doi.org/10.21013/jas.v4.n3.p18>. (IF – 1.548).
34. **Abhilash M R.**, Shiva Kumar D and Srikantaswamy S (2016), Effect of Urban Wastewater on the Quality of Ground Water in Mysuru City, India. *International Journal of Applied Sciences*, Vol.04, Issue 01, ISSN: 2455-4499. DOI: <http://dx.doi.org/10.21013/jas.v4.n1.p13>. (IF – 1.548).
35. Shiva Kumar D, Srikantaswamy S, **Abhilash M. R.**, Smitha N, Shivalingaiah (2016), Phytoremediation – An emerging green technology for the removal of Heavy metals in polluted soil environment. *International Journal for Scientific Research & Development*, Vol 4, Issue 5, 2016, ISSN: 2321-0613. (IF – 1.254).

36. Harish H.P, **Abhilash M. R** (2016), Hydrochemical Assessment of Groundwater Quality in Kadur, Chikmagalur, Karnataka, India, *International Journal of Research and Scientific Innovation*, Volume III, Issue VII, July 2016, ISSN 2321–2705. (IF – 1.987).
37. Appaji gowda, Srikantaswamy S, Rajashekar reddy, **Abhilash M R**, D. Shiva Kumar and Jagadish K (2016), Impact of Anthropological Activities on the Water Quality of Cauvery River, Karnataka, India. *International Journal of Research and Scientific Innovation*, Volume III, Issue VII, July 2016, ISSN 2321–2705. (IF – 1.987).
38. Shiva Kumar D, Srikantaswamy S and **Abhilash M R** (2016), Quantification of Heavy metals in Plants Grown In Industrial Area of Mysuru City, India, *Journal of Environmental Science, Computer Science and Engineering & Technology* , Volume 5 and Issue 3. June 2016, ISSN: 2278–179X. (IF – 1.651).
39. Shiva Kumar D, **Abhilash M. R**, Srikantaswamy S, Smitha N, Shobha.M S, Nagaraju A , Shivalingaiah , Lokesh Bharani P and Baby Shwetha S (2016), Assessment of toxic heavy metals in agricultural fields of Mysore district. *International Journal for Innovative Research in Science & Technology*, Vol.3 (2), ISSN: 2349-6010. (IF – 1.987).
40. Lingaraju Shruthi, Srikantaswamy S, K. Jagadish, D. Shivakumar, and **M. R. Abhilash** (2016), Photocatalytic Degradation of Indigo Carmine Dye Using Nd₂O₃ Coated TiO₂ Materials, *International Journal of Research and Scientific Innovation*, Volume III, Issue VI, June 2016, ISSN: 2321–2705. (IF – 1.987).
41. Shiva Kumar.D, Srikantaswamy S, Smitha.N and **Abhilash M. R** (2016), Phytoremediation Studies in Industrial Soil of Mysuru City, India, *Journal of Environmental Science, Computer Science and Engineering & Technology*, May 2016; Sec. A; Vol.5. No.2, 182-18, ISSN: 2278–179X. (IF – 1.651).
42. **Mavinakere R. Abhilash**, Srikantaswamy S, Shiva Kumar Doddaiah, and Jagadish Krishnegowda (2016), Speciation of Heavy Metals in Municipal and Industrial Wastewater Irrigated Crops of Mysuru City, India – A Comparative Study, *Journal of Environmental Science, Computer Science and Engineering & Technology*, May 2016, 5 (2) 68-75, ISSN: 2278–179X. (IF – 1.651).

2015

43. Harish H.P, **Mavinakere R. Abhilash** (2015), Study on Physico-Chemical, Heavy Metal Characteristic of Ground Water Samples from Kadur Taluk, Karnataka, India, *Journal of Environmental Science, Computer Science and Engineering & Technology*, December 2015-February 2016; Sec. A; Vol.5. No.1, 161-177, ISSN: 2278–179X. (IF – 1.651).
44. **Abhilash M.R**, Shivakumar D, Srikantaswamy S, Jagadish K and Nagaraju.A (2015), Study of Geochemical behavior of Heavy metals in Agricultural crops. *International Journal of Research in Engineering and Applied Science*, Volume 5, Issue 9, 54-65, September 2012, ISSN: 2249-3905. (IF – 1.322).

45. Shiva Kumar. D, Srikantaswamy S, **Abhilash. M. R** and Nagaraju. A (2015), A Comparative Study of Aerobic and Anaerobic Wastewater Treatment, *International Journal for Research in Applied Science & Engineering Technology*, Volume 3 Issue V, P: 904-1004, May 2015, *ISSN: 2321-9653*. (IF – 1.322).

46. K. Jagadish, Srikantaswamy S, K. Byrappa, L. Shruthi and **M. R. Abhilash** (2015), Dispersion of Multiwalled Carbon nanotubes in Organic solvents by hydrothermal Supercritical condition. *Journal of Nanomaterials*, Hindawi Publishing Corporation, Volume 2015, Article ID 381275, 6 pages. DOI: <http://dx.doi.org/10.1155/2015/381275>. (IF – 2.986), (Q3).

2014

47. **Abhilash M.R**, Srikantaswamy S, Shivakumar D. and Kiran, B.M (2014), Study of Heavy Metal Uptake by the crops grown by using Urban Wastewater of Mysore City, India. *Journal of Environmental Protection*, 5, 1169-1182. DOI: <http://dx.doi.org/10.4236/jep.2014.512114>. (IF – 1.57), (Q3).

CONFERENCE RESEARCH PUBLICATIONS (National and International)

2014

48. **Abhilash M. R**, Srikantaswamy S, Shakuntala bai, Shivakumar D. and Adarsh Kumar M.B (2014), Geochemical behavior of Heavy metal in Urban Wastewater treatment plants of Mysore city, India, PP-127, NACOPAC-2014, University of Mysore, Mysuru, India.

2015

49. **Abhilash M. R**, Shiva Kumar.D, Srikantaswamy S, and Jagadish K (2015), Speciation of Heavy metals in selected crop species of Mysore City – A Case study. PP-154, Current trends in chemical biology, JSS College, University of Mysore, Mysuru, India.

2016

50. **Abhilash M. R**, Shiva Kumar. D, Srikantaswamy S, and Jagadish K (2016), Iron oxides are the Promising agents to removal of Heavy metals from Municipal wastewater, PP-33, AMATFRC-2016, University of Mysore, Mysuru, India.

51. **Abhilash M. R**, (2016), The effective usage of Graphs in Environmental Interpretations, PP-10, NCEG-2016, University of Mysore, Mysuru, India.

52. **Abhilash M. R**, Srikantaswamy S, Shiva Kumar.D and Jagadish K (2016), Photocatalytic Degradation of Heavy metals in wastewater by Using Iron oxide composite Materials PP-68, ISCA – 2016, University of Mysore, Mysuru, India.

53. L. Shruthi, S. Srikantaswamy S, K. Jagadish D. Shiva Kumar, **M. R. Abhilash** (2016), Photocatalytic degradation of indigo carmine dye using Nd₂O₃ coated TiO₂ materials, PP-235, ICNANO-2016.VTU, Bangalore, India.

54. **Abhilash. M.R.**, Shiva Kumar. D, Srikantaswamy S, and Jagadish K (2016), Study of geochemical behavior of heavy metals in agricultural crops, ICER-006-PS-O-16, ICER-16, 8th International Congress of Environmental Research, 27-28 July, 2016, **Luebeck University of Applied Sciences, Luebeck, Germany**, ISBN : 978-81-909379-8-6, (PIN : 909379 ; Category No : 5).
55. **Abhilash M R**, Srikantaswamy S and Jagadish K (2016), Photocatalytic degradation of Anthraquinone dye using Nd₂O₃ coated TiO₂ materials, PP-68, International conference on Science and Technology: Future challenges and solutions – 2016, University of Mysore, JSPS, VTU, Mysuru, India.
56. **Abhilash M. R.**, Srikantaswamy S (2016), Study of Sustainable development, Environment vulnerability and Geospatial technology by using modern tools, OP-109, 38th Indian Geography congress, University of Mysore, Mysuru, India.
57. **Abhilash M. R.**, Srikantaswamy S and Shiva Kumar D (2016), Cleaning up of contaminated soil by selected crop species through phytoremediation technique, PP-46, international conference on importance of herbal medicine in the era of globalization, A live demonstration, Sahyadri Science College (Autonomus), Shivamogga, Kuvempu University, India.
58. **Abhilash M. R.**, Srikantaswamy S (2016), Modern analytical technique for the detection of nanomaterials, Application of modern analytical techniques to fundamental research in chemistry, JSS College, ooty road, Mysuru, India.

2017

59. Shiva Kumar.D, Srikantaswamy S, **Abhilash M. R.** and Smitha N (2017), Environmental Impacts of Aquaculture in Urban Wastewater, PP-19, Proceedings of National Conference on Recent advances in Aquaculture organized by Maharani's Science College for Women, Mysuru- 2017, University of Mysore, Mysuru, India.
60. Shiva Kumar.D, Srikantaswamy S, **Abhilash M R**, Smitha N (2017), Review on pros and cons of aquaculture, PP-56, Proceedings of National Conference on Recent advances in Aquaculture organized by Maharani's Science College for Women, Mysuru- 2017. University of Mysore, Mysuru, India.
61. **Abhilash M. R.**, Shiva Kumar. D, Srikantaswamy S, Smitha N (2017), Fractionation of heavymetals and leachability studies in municipal solid waste, PP-09, National Conference Proceedings, Innovative technology combat climate change in India, Shanlax publications, ISBN: 9386537214.
62. **Abhilash M. R.**, Shiva Kumar. D, Srikantaswamy S, Smitha N (2017), Quantification of heavymetals in biosolids and soil irrigated with urban wastewater, PP-11, National Conference Proceedings, Innovative technology combat climate change in India, Shanlax publications, ISBN: 9386537214.
63. **Abhilash M. R.**, Srikantaswamy S (2017), Phytoremediation technology for clearing up of Industrial contaminated soil by *Trigonella foenum graecum* and *Pennisetum Purpurem*, PP-03, National Conference Proceedings, Innovative technology combat climate change in India, Shanlax publications, ISBN:9386537214.

64. **Abhilash M. R.**, Nayan M. B, Jagadish K, Byrappa K and Srikantaswamy S (2017), Hydrothermal Synthesis of Novel Fe/BiVO₄ Hetero-Nanoflowers with Enhanced Visible Light Driven Photocatalytic Activity For Wastewater Purification, Page No, 136, Id. 171564, 09th ICMAT, 18-23, June, 2017, Symposium – L-09, **SUNTEC, Singapore.**
65. **Abhilash M. R.** and Srikantaswamy S (2017), Controllable Hydrothermal growth of Iron oxide nanoparticle: Reaction parameters and its water treatment studies with graphene oxide composite, Symposium, A-8, Page No, 102, 15TH IUMRS-ICAM, 2017, August, 27 - September, 01, 2017, **Yashida Campus, Kyoto University, Kyoto, Japan.**

2018

66. Shiva Kumar.D, Srikantaswamy S, **Abhilash M R.**, Smitha N, Nagaraju.A and Manju.R (2018), Phytoremediation - A green technique for cleaning up of contaminated soil. 10th Annual, KSTA Conference Book. ISBN No: 978-81-936187-7-5.
67. **Abhilash M R.**, and Srikantaswamy S (2018), Hydrothermal Technology for generation of Metal oxides, Page No, 35, Paper No. 50079, 6th ISHA, 2018, August, 8-12, **MRAM, Tohoku University, Sendai, Japan .**
68. **M. R. Abhilash.**, Srikantaswamy S, G. Akshatha, D. Shivakumar K, Jagadish, M. B. Nayana., K. S. Rangappa and K. Byrappa (2018), One step synthesis of tin oxide and cuprous oxide nanomaterials and their sintering effect in dye degradation. Proceedings of International Conference on Nanomaterials and their Applications 2018 (ICNA 2018), University of Mysore, Mysuru, India.
69. **Mavinakere R. Abhilash.**, Srikantaswamy S, Gangadhar Akshatha, Doddaiiah Shivakumar and Krishnegowda Jagdish (2018), High-routine supercapacitor based materials support on polypyrrole composites fixed with core-scabbard polypyrrole@MnMoO₄/Cs₂O nanorods. Proceedings of International Conference on Nanomaterials and their Applications 2018 (ICNA 2018), University of Mysore, Mysuru, India.
70. **M. R Abhilash.**, Srikantaswamy S, G. Akshatha, and D. Shivakumar (2018), Biogenic fabrication of metal oxide nanoparticles and their application, C-63, P.No. 105, Proceedings of National Conference on Biodiversity and Bio-Prospecting for Sustainable Development, 2018” University of Mysore, Mysuru, India.
71. **Mavinakere R. Abhilash.**, Srikantaswamy S, Gangadhar Akshatha, and Doddaiiah Shivakumar (2018), Biosynthesis of iron oxide (Fe₂O₃) nanoparticles via aqueous extracts of *Guadua angustifolia* and their pharmacognostic properties, C-71, P.No. 113, Proceedings of National Conference on “Biodiversity and Bio-Prospecting for Sustainable Development, 2018” held in University of Mysore, Mysuru, India.
72. **Abhilash M R.**, Nayan M. B, Akshatha G, Jagadish K, Byrappa K and Srikantaswamy S (2018), Hydrothermal synthesis of MgO micro-flowers and their applications in efficient photo-catalytic dye degradation and heavy metal separation and also its biological activity, Paper No. 1P -59, Page No, 58, ICEAN, 2018, October, 30, November, 02, **GICAN, The University of Newcastle, NSW, Australia.**

73. **Abhilash M R**, Nayan M. B, Akshatha G, Jagadish K, Byrappa K and Srikantaswamy S (2018), Photocatalytic dye degradation and biological activities of Iron/Cuprous nanocomposites, Paper No. ICCBN2018-087, Page No, 105, ICCBN, 2018, November, 7-9, 02, **Nelson Mandela bay stadium, Port Elizabeth, South Africa.**

2019

74. **Abhilash M R**, Nayan M. B, Akshatha G, Byrappa K and Srikantaswamy S (2019), Synthesis of mesoporous BiVO₄-Ag₂WO₄ nanocomposites and their highly efficient photocatalytic performance for dye pollutants, Paper No. PP-149, Page No, 221, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.

75. **Abhilash M R**, Nayan M. B, Akshatha G, Byrappa K, Rangappa K. S and Srikantaswamy S (2019), Visible Light Assisted Photocatalytic Degradation of Chromium (VI) by Using Nanoporous Fe₂O₃, Paper No. PP-22, Page No, 90, 106TH ISCA, January, 3-7, Lovely Professional University, Jalandar, Punjab, India.

76. Dhananjay, **M. R. Abhilash**, G. Akshatha, K. Byrappa, and Srikantaswamy S (2019), Green synthesis, characterization and applications of Fe₂O₃ nanoparticles by using *Crotalaria L*, Paper No. PP-103, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.

77. Rajashekar, Shreeranjani. S, Divya, **M. R. Abhilash**, Srikantaswamy S, C .S. Anandakumar, M.Y.Sreenivasa (2019), Synthesis, characterization and antimicrobial activity of nanoparticles, Paper No. PP-446, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.

78. Shreeranjani S, **M. R. Abhilash**, Rajashekar, G. Akshatha K. Byrappa, Srikantaswamy S (2019), Bio-fabrication of Cu₂O nanoparticles using *Plectranthusamboinicus* and their toxic potential against bacteria: A mechanistic approach, Paper No. PP-246, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.

79. M. B Nayan, K. Jagadish, **Abhilash. M. R**, K. Namratha, Srikantaswamy S (2019), Photocatalytic activity of ZnO-MxOy Heterostructures and comparison study of Band positions and Surface area, Paper No. PP-157, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.

80. D. Shivakumar, **M. R. Abhilash**, G. Akshatha, K. Jagadish, M. B. Nayan, , K. Byrappa and Srikantaswamy S (2019), Enhanced Photo-reduction CO₂ Activity of Cu₂O/ZnO Heterostructures under Visible Light Irradiation, Paper No. PP-154, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.

81. K. Jagadish, Srikantaswamy S, K, Byrappa, **M. R. Abhilash**, M. B. Nayan (2019), High efficient BiVO₄/CeO₂/MWCNTs Nanocomposites for the photocatalytic treatment of wastewater, Paper No. PP-119, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.

82. K. Jagadish, Srikantaswamy S, K, Byrappa, **M. R. Abhilash**, M. B. Nayan (2019), Growth mechanism of MWCNTs by Fe-Ni bimetallic catalyst on CaCO₃ support via Catalytic Chemical Vapor Deposition Process, Paper No. PP-120, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.
83. R. Deepu, **M. R. Abhilash**, G. Akshatha, K. Jagadish, M. B, Nayan, K. Byrappa and Srikantaswamy S (2019), Photocatalytic degradation of anionic dye using bismuth doped TiO₂-Fe₂O₄ composite, Paper No. PP-114, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.
84. G. Akshatha, **M. R. Abhilash**, K. Jagadish, D. Shivakumar., M. B. Nayan, , K. Byrappa, Srikantaswamy S (2019), Investigation of optical and electrical properties of MWCNT/AgWO₂-composites, Paper No. PP-112, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.
85. S. Rajendra Prasad, Srikantaswamy S, K. Jagadish, **M. R. Abhilash**, M. B. Nayan (2019), Solar-Light-Induced Photocatalytic Properties of Novel MnV₂O₆/TiO₂ Nanocomposite Paper No. PP-154, AFMEEHC-2019, 18-20, March, University of Mysore, Mysuru, India.
86. **M. R. Abhilash**, G. Akshatha, K. Jagadish and Srikantaswamy S, Enhanced Photo-Reduction CO₂ Activity of Se/Cu₂O Heterostructures Under Visible Light Irradiation (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-28.
87. **M. R. Abhilash**, G. Akshatha, K. Jagadish, and Srikantaswamy S, Visible Light Enhanced Photocatalytic Degradation Of Janus Green By Fe₂O₃/ZnO/GO Ternary Nanocomposite (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-55.
88. **M. R. Abhilash**, G. Akshatha, K. Jagadish and Srikantaswamy S, Simultaneous Removal of Cationic And Anionic Dyes From Environmental Water Using Bismuth Doped TiO₂-Fe₂O₄ Composite (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-58.
89. K. P. Dhananjay, **M. R. Abhilash**, G. Akshatha and Srikantaswamy S, Green Synthesis, Characterization and Applications of Fe₂O₃ Nanoparticles By Using *Crotalaria L* (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-66.
90. K. P. Dhananjay, **M. R. Abhilash**, G. Akshatha and Srikantaswamy S, Band Structure Parameters and Overview of Available Approximation Computational Methods (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-67.

91. Akshatha G, Vishala N, Prabhakaran.N, **Abhilash M. R.**, Dhananjay K. P and Srikantaswamy S, Photo-Catalytic Degradation Of Chromium (VI) By Using Nano-Porous Silver Tungstate (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-71.
92. Akshatha G, **Abhilash M. R.**, Dhananjay K. P, K. Jagadish and Srikantaswamy S, Functional Multiwalled Carbon Nanotubes (CNT'S) Composite with Silver Tungstate Nanoparticles And Its Application On Antibacterial Activity (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-72.
93. K. Jagadish, **M. R. Abhilash,** M. B. Nayan, G. Akshatha and Srikantaswamy S, Preparation of CoTiO₃/CNT (CTC) Nano-Photocatalyst With Enhanced Methylene Blue Dye Degradation (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-92.
94. K. Jagadish, **M. R. Abhilash,** B. M. Kiran, G. Akshatha and S. Srikantaswamy S, Hydrothermal Synthesis of Porous Ni/Fe₂O₄/CNT Nano-Composite with High Photocatalytic Properties (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-93.
95. M. B. Nayan, K. Jagadish, **M. R. Abhilash,** G. Akshatha, Srikantaswamy S, Fabrication of Heterogeneous ZnO Hybrid Structure Nanocomposites and their Photocatalysis (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-94.
96. S. Rajendra Prasad, Srikantaswamy S, K. Jagadish, **M. R. Abhilash,** M. B. Nayan, Transition Metal Vanadates and Titanium Dioxide Nanocomposite For The Photocatalysis: Methylene Blue Dye Degradation (2019), National conference on Science and Technology: Rural Development, Organized by University of Mysore and Indian Science Congress, Bangalore Chapter, 17th and 18th, Oct, 2019, P.No-95.
97. **Abhilash M R,** Nayan M. B, Jagadish K, Byrappa K and Srikantaswamy S, Controllable hydrothermal route Novel MWCNTs/Metal oxides composites used for Textile Dyes removal from aqueous Environment (2019), Page No, 133, Id. 171873, 09th ICMAT, 18-23, June, 2017, Symposium – L-09, SUNTEC, SINGAPORE.
98. **M. R. Abhilash,** G. Akshatha, K. Jagadish and Srikantaswamy S. (2019), Multi-walled carbon nanotubes synthesis by Fe-Ni nanoparticle –catalyzed controlled on CaCO₃ Paper No. OP-27, P. No. 50, CCM-2019, 20-22, November, Indian Carbon Society, and CSIR-National Physical Laboratory, New Delhi.

2020

99. K. Jagadish, **Abhilash M R**, Nayan M. B, Akshatha G, Kiran B.M and Srikantaswamy S (2020), Hydrothermal preparation of Cu₂O-Ti/MWCN (CTM), nanomaterial composite for Fast degradation of Rhodamine-B, Paper No. PP-31, Page No, 128, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
100. Nayan M. B, K. Jagadish, **Abhilash M R**, Akshatha G and Srikantaswamy S (2020), Hydrothermal synthesis of TiO₂ heterostructures with various Metal Oxides and Effect of their morphology on Photocatalysis, PP-32, Page No, 129, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
101. S. Rajendra Prasad, Srikantaswamy S, K. Jagadish, **Abhilash M R**, and Nayan M. B, (2020), The coupling of Titanium Dioxide with Metal Vanadates for the study of Rhodamine – B dye degradation, PP-33, Page No, 130, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
102. L. Shruthi, K. Jagadish, **Abhilash M R**, Nayan M. B and Srikantaswamy S (2020), Facile hydrothermal synthesis of ZnO – Se nanocomposite for the degradation of Pharmaceutical Wastewater, PP-34, Page No, 131, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
103. **M. R. Abhilash**, G. Akshatha, K. Jagadish and Srikantaswamy S (2020), Metal oxide – Carbon nanocomposite as materials for next – generation systematic chemical storage for Renewable Energy, PP-48, Page No, 144, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
104. **M. R. Abhilash**, G. Akshatha, K. Jagadish and Srikantaswamy S (2020), Visible light enhanced photocatalytic degradation of Allura Red (Red), by Fe₂O₃/MoO₃/GO ternary nanocomposite and its toxicity studies, PP-52, Page No, 148, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
105. G. Akshatha, **M. R. Abhilash**, K. Jagadish and Srikantaswamy S. (2020), Carbon nanotubes: Properties and its application, PP-57, Page No, 153, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
106. Chaithra H. R, G. Akshatha, **M. R. Abhilash** and Srikantaswamy S. (2020), Hydrothermal synthesis of Ga₂O₃ nanoparticles and their application on efficient photocatalytic activity, Biocompatibility, PP-64, Page No, 162, 107th ISCA, January, 3-7, University of Agriculture Sciences, Begaluru, India.
107. **Abhilash M R** (2020), Synthesis of graphene nanosheets by emitted black carbon and its sustainable applications, presented in Young Scientist Award Programme, (Materials Science Section), PP-01, Page No, 32, 107th ISCA, January, 3-7th, University of Agriculture Sciences, Begaluru, India.
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