**BIO-DATA of Dr K.S. Lokesh**

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| **1.** | **Name and full correspondence address :** | **Dr. K. S. LOKESH** Professor in ChemistryDepartment of Studies in Chemistry/Industrial ChemistryVijayanagara Sri Krishnadevaraya UniversityBallari – 583 105, Karnataka, INDIA |
| **2.**  | **Email(s) and contact number(s) :**  | E-mail: kslokesh@vskub.ac.in; lokeshsk@gmail.com Mob: +91-9035500208  |
| **3.**  | **Institution :** | Vijayanagara Sri Krishnadevaraya University, Ballari |
| **4.**  | **Date of Birth :** | 01.07.1976 |
| **5.** | **Gender (M/F/T) :** | Male |
| **6.**  | **Category Gen/SC/ST/OBC :**  | **OBC** |
| **7.**  | **Whether differently abled (Yes/No) :** | **NO** |

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| **8.**  | **Academic Qualification (Undergraduate Onwards)** |

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| **Sl. No.** | **Degree** | **Year**  | **Subject** | **University/Institution** | **% of marks** |
| **1.** | B. Sc. | 1997 | Physics, Chemistry, Mathematics | University of Mysore | 60.4 % First Class |
| **2.** | M. Sc. | 1999 | Chemistry, Analytical Chemistry Specialization | University of Mysore | 74.5% Distinction with First Rank |
| **3.** | Ph. D. | 2005 | Chemistry*Title of the Thesis: Synthesis and characteristic studies on metal phthalocyanines and their polymers as molecular conductors.* | University of Mysore | Ph. D. awarded |

**9. Ph. D. thesis title, Guide’s Name, Institute/Organization/University, Year of Award.**

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| **Degree** | **Research Guide Name**  | **Ph. D. Thesis Title** | **University** | **Year of Award** |
| **Ph. D.** | **Prof. B.N. Achar** | Synthesis and characteristic studies on metal phthalocyanines and their polymers as molecular conductors. | University of Mysore | 2005 |

**10. Work experience (in chronological order).**

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| **Sl. No.** | **Position held** | **Name of the Institute** | **From** | **To** | **Pay Scale, Rs** |
| 1. | **Chemist** | Cipla, Bangalore, India | 17/02/2000  | 21/12/2000 | 5,000/- |
| 2. | **UGC Project Fellow** | University of Mysore, Mysore, India | December, 2000  | September, 2003 | 4,000/- |
| 3. | **CSIR Research Associate**   | IISc, Bangalore, India | July, 2005  | March, 2008 | Rs16,000/- |
| 4. | **Post-Doc**  | Universite Joseph Fourier, Grenoble, France | April, 2008  | October, 2009 | 2000 Euros |
| 5. | **Visiting Scientist**   | University of Gent, Ghent, Belgium | November, 2009 | October,2010 | 2200 Euros |
| 6. | **Assistant Professor**  | Shinshu University, Japan | November, 2010 | December, 2012 | 400000 yens |
| 7. | **Associate Professor of Chemistry** | Vijayanagara SriKrishnadevaraya University, Ballari, India | 22/10/2012  | 21/10/2015 | 36400-9000-68000 |
| 8.  | **TWAS-UNESCO Associate** | Dalain Institute of Chemical Physics, Dalain, China | 18/04/2015  | 14/06/2015 |  |
| 26/05/2018  | 30/06/2018 |
| 9. | **Jury member, Ph. D. thesis adjudication** | University of Antwerpen, Belgium, Belgium | 24/05/2018 | 26/05/2018 |  |
| 10. | **Professor of Chemistry** | Vijayanagara SriKrishnadevaraya University, Ballari, India | 22/10/2015  | to till now | 144000/- 208000 |

**11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received.**

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| **Sl. No.** | **Name of Award** | **Awarding Agency** | **Year** |
| 1. | **II** **Best Poster Prize** | National conference held at Mysore  | 30th -31st January, 2020 |
| 2. | **Best Poster prize** | KSTA National conference, Koppal | 23rd – 24th February, 2018 |
| 3. | **Sir C.V. Raman Young Scientist Award**  | Karnataka Govt., India | 2015 |
| 4. | **Foundational Best Teacher Award** | Vijayanagara Sri Krishnadevaraya University, Ballari. | 2014 - 2015 |
| 5. | **Summer Research Fellow** | Indian Academy of Science  | 2014 |
| 6. | **Awarded TWAS-UNESCO visiting Research Associateship** | State Key Laboratory, Dalian Institute of Chemical Physics, China | 2015 |
| 7. | **Best Research Publication Award** | Vision Group of Science and Technology (VGST), Karnataka State Govt., India. | 2013-14 |
| 8. | **Associate Member** | Karnataka Science and Technology Academy, Karnataka, India | 2020 |
| 8. | Participated and presented work in “Materials Challenges in Devices for Fuel Solar Production and Employment”  | ICTP, Trieste, Italy |  May, 2014 |
| 9. | Participated (On Invitation) in the TWAS Science and Diplomacy workshop on Innovative Energy Policies for Sustainable Future  | Trieste, Italy | December, 2013 |
| 10. | **Best Paper presentation Award**  | Asian conference, ACEPS-6 | 2012 |
| 11. | **Invited Speaker** to present “Analytical Chemistry Education in India”  | Asianalysis XII, Japan. | Aug 2013 |
| 12. | **University Grants Commission (UGC) project fellowship** | Govt. of India | December 2000 to September 2003 |
| 13. | **Center of Scientific and Industrial Research (CSIR) senior research fellowship** | Govt. of India | July 2004 to June 2005 |
| 14. | **Indian Institute of Science (IISC) research fellowship** | IISC, Bangalore, India | July 2005 to March 2006 |
| 15. | **Center of Scientific and Industrial Research (CSIR) research associate** | Govt. of India | April 2006 to March 2008 |
|  | **Postdoctoral fellowship**  | UGent, Belgium | Oct. 2009 to Oct. 2010 |
| 16. | **IASc-INSA-NASI Summer Research Fellowship** | **(INSA, India)** | 2014 |
| 17. | **TWAS-UNESCO Associateship** | **(TWAS-UNESCO), Italy to work in China** | 2014-2019 |
| 18. | **First rank holder** in M.Sc. Chemistry **3 gold medals and 1 cash prize** | University of Mysore  | 1999 |

**12. Research Publications**

**International Journals: ~77 National Journals: 0**

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| **Sl.** **No.** | **Authors** | **Title** | **Name of Journal** **& Impact Factor** | **Volume** | **Page** | **Year** |
|  | Manjunatha P, Shambhulinga A, Keshavananda Prabhu C P, Veeresh A Sajjan, Mounesh & **Lokesh KS**  | Nanomolar detection of Mercury(II) using electropolymerised phthalocyanine film  | Electrochemica Acta(I.F.= 6.9) | 367 | 137519 | 2021 |
|  | Keshavananda Prabhu CP, Shambhulinga A, Veeresh A Sajjan, Manjunatha P, Sharath Kumar, **Lokesh K S** | Non-precious cobalt phthalocyanine embedded iron ore electrocatalyst for hydrogen evolution reaction | Sustainable Energy and Fuels(I.F.= 6.367) | 5 | [1448-1457](https://doi.org/10.1039/D0SE01829E) | 2021 |
|  | Veeresh A. S, Shambhulinga A, Manjunatha N, Manjunatha P, Keshavananda Prabhu CP, **Lokesh K S** | Nanomolar detection of 4-nitrophenol using Schiff-base phthalocyanine  | Microchemical J.(I. F. = 4.8) | 164 | [105980](https://doi.org/10.1016/j.microc.2021.105980) | 2021 |
|  | Shantharaja, Manjunatha N, Gidderappa, **Lokesh K.S.** | Biocompatible polymeric pyrazolopyrimidnium cobalt(II) phthalocyanine: An efficient electrochemical platform for the detection of L-Arginine | Sensors and Actuators: A. Physical(I. F. = 3.4) | 324 | 112690 | 2021 |
|  | Ananda Danagoudar, Pratap GK, Manjula Shantaram, Krishna Ghosh, Santosh R, Kanade, **Lokesh K S**, Chandrashekhar G Joshi | Antioxidant, cytotoxic and anti-choline esterase activity of green silver nanoparticles synthesised using Aspergillus austroafricanus CGJ-B3 (endophytic fungus) | Analytical Chemistry Letters(I. F. = 1.5) | 11 | 15-28 | 2021 |
|  | Keshavananda Prabhu C P, Manjunatha N, Muthumuni Managa, Tebello Nyokong,**Lokesh K S** | Symmetrically substituted Zn and Al phthalocyanines and polymers for photodynamic therapy application |  Frontiers in Chemistry, section Organic Chemistry(I. F. = 5.4) | 9 | 647331 | 2021 |
|  | Manjunatha N, Shantharaja, Giddaerappa, Manjunatha P, **Lokesh KS**, P. Sharath Kumar | Zinc phthalocyanine anchored magnetite particles: Efficient platform for sensing of thiocyanate | Journal of Electroanalytical Chemistry(I. F. = 4.464) | 895 | 115385 | 2021 |
|  | Manjunatha N, Giddaerappa, Shantharaja, Veeresh A S, **Lokesh K S** | Novel amide coupled phthalocyanines: Synthesis and structure-property relationship for electrocatalysis and sensing of hydroquinone | Journal of Electroanalytical Chemistry(I. F. = 4.464) | 898 | 115657 | 2021 |
|  | Sowmyashree H, Shambhulinga A, Keshavananda Prabhu CP, **Lokesh K S**  | Bio-inspired Non-Noble Metal N4 Macrocycle Catalyst for Hydrogen Evolution Reaction | ACS Applied Energy Materials(I.F..=5.64) | In press |  | 2021 |
|  | Giddaerappa, N Manjunatha, Shantharaja, **Lokesh K S** | Novel phthalocyanine based hybrid binary composite for supercapacitor application  | ChemElectroChem | In review |  |  |
|  | Keshavananda Prabhu C. P, Shambhulinga Aralekallu, Manjunatha Palanna, Veeresh Sajjan, Renuka B, **Lokesh K S** | Novel polymeric zinc phthalocyanine for electro-oxidation and detection of ammonia | Journal of Applied Electrochemistry | InReview |  |  |
|  | Giddaerappa, Nemakal Manjunatha, Shantharaja, Mirabbos Hojamberdiev, and **Lokesh K S** | Tetraphenolphthalein cobalt(II)phthalocyanine polymer modified with multi-walled carbon nanotubes as an efficient catalyst for oxygen reduction reaction  | ACS Applied Energy Materials | In Review |  |  |
|  | N Manjunatha, **Lokesh KS** | Hybrid composites based on phthalocyanine and carbonaceous materials for sensing applications: a review | International Journal of Biosensors & Bioelectronics | 7(3) | 84-89 | 2021 |
|  | Itagi Mahesh, Bhat Zahid, T. Ravikumar, P. Deepraj, D. Mruthyunjayachari, **K. S. Lokesh**, O. T. Musthafa | An Electrochemical Valorization Fuel Cell for Simultaneous Electroorganic and Hydrogen Fuel Syntheses | Journal of Physical Chemistry, C(I. F. = 4.309) | 124(21) | 11284-11292 | 2020 |
|  | [Panneerselvam Arun Prasanth, Periyappan Nantheeswaran, Veerappan A, Rajendran S, Arunachalam Jothi, Nattamai S. P. Bhuvanesh, **Lokesh K S** and Mariappan M](https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj02035d) | [The metal centre in salen-acridine dyad N](https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj02035d)[2](https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj02035d)[O](https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj02035d)[2](https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj02035d)[ligand–metal complexes modulates DNA binding and photocleavage efficienc](https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj02035d)**[y](https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj02035d)** | New J. of Chemistry(I.F.= 3.5) | 44 | 9888-9895 | 2020 |
|  | Veeresh A. S., Manjunatha N., Shambhulinga A., Manjunatha P., Keshavananda Prabhu C. P., **Lokesh K. S.** | Nanomolar detection of lead using electrochemical methods based on a novel phthalocyanine | Inorganica chimica Acta (I. F. = 2.546) | 506 | 119564 | 2020 |
|  | Manjunatha P., Imadadulla M., Shambulinga A., Manjunatha N., **Lokesh K. S.** | Simultaneous detection of paracetamol and 4-aminophenol at nanomolar level using biocompatible cysteine substituted phthalocyanine | New Journal of Chemistry(I. F. = 3.5) | 44 | 1294-1306 | 2020 |
|  | Shambulinga A., Veeresh A. S., Manjunatha P., Keshavananda Prabhu C. P., Mirabbos H., **Lokesh K. S.** | Ni foam supported azo-linkage cobalt phthalocyanine for efficient oxygen evolution reaction | Journal of Power Sources(I. F. = 9.4) | 449 | 227516 | 2020 |
|  | Imdadulla M., Shambulinga A., Veeresh A. S., Divakara T. R., Manjunatha P., **Lokesh K. S.** | Phthalocyanine sheet polymer based amperometric sensor for the selective detection of 2,4-dichlorophenol | Journal of Electroanalytical Chemistry(I. F. = 4.46) | 871 | 114292 | 2020 |
|  | Giddaerappa K, Manjunatha N, **K.S. Lokesh** | Mannich reaction derived phthalocyanine polymer for electrochemical detection of salicylic acid | Inorganica chimica Acta(I. F. = 2.5) | 512 | 119895 | 2020 |
|  | Shambhulinga A, Manjunatha P, Sowmyashree H, Keshavananda Prabhu C P, Veeresh A S Musthafa O T, **Lokesh K S** | Biologically Inspired Catalyst for Electrochemical Reduction of Hazardous Hexavalent Chromium | Dalton Transactions(I. F. = 4.39) | 49 | 15061 | 2020 |
| 22. | Manjunatha N., Shambhulinga A., Imadadulla M., Malathesha P., Venugopala Reddy K. R., **Lokesh K. S.**  | Nanomolar amperometric sensor for 4-aminophenol using a novel phthalocyanine  | Electrochimica Acta(I. F. = 6.9) | 318 | 342-353 | 2019 |
| 23. | A. Shambulinga, M. Imdaadulla, N. Manjunatha, Manjunatha P., Danjai, **K. S. Lokesh** | Synthesis of novel azo group substituted polymeric phthalocyanine for amperometric sensing of nitrite and supercapacitance behaviour | Sensors & Actuators, B; Chemical(I. F. = 7.42) | 282 | 417-425 | 2019 |
| 24. | Shambhulinga Aralekallu, Giddaerappa Kuntoji, Manjunatha Nemakal, Imadadulla Mohammed, **Lokesh K S** | Self Assembled Monolayers of ReactiveDifunctional Molecules on Nickel Electrodes | Surfaces and Interfaces(I. F. = 4.84) | 15 | 19-25 | 2019 |
| 25. | Keshavananda Prabhu C. P., Manjunatha N., Shambulinga A., Imadadulla M., Manjunatha P., Veeresh A. Sajjan, Akshitha D., **Lokesh K. S.** | A comparative study of carboxylic acid and benzimidazole phthalocyanine and their surface modification for dopamine sensing | Journal of Electroanalytical Chemistry(I. F. = 4.46) | 847 | 113262 | 2019 |
| 26. | Subramanya G., **Lokesh K.S.**, Manjunatha N. | Regioselective Synthesis and biological evaluation of Novel dispiropyrrolidine derivatives Via One-Pot Four-Component Reaction | Synthetic Communications(I. F. = 2.0) | 49 (24)  | 3453-3464 | 2019 |
| 27. | [Mounesh](https://www.sciencedirect.com/science/article/pii/S0026265X18318769%22%20%5Cl%20%22%21), [B. S. Jilani](https://www.sciencedirect.com/science/article/pii/S0026265X18318769#!), [Malatesh P.,](https://www.sciencedirect.com/science/article/pii/S0026265X18318769#!) [K. R. Venugopala Reddy](https://www.sciencedirect.com/science/article/pii/S0026265X18318769#!), [**K. S. Lokesh**](https://www.sciencedirect.com/science/article/pii/S0026265X18318769#!) |

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[Simultaneous and sensitive detection of ascorbic acid in presence of dopamine using MWCNTs-decorated cobalt (II) phthalocyanine modified GCE](http://scholar.google.co.in/scholar_url?url=https://www.sciencedirect.com/science/article/pii/S0026265X18318769&hl=en&sa=X&d=12952278894870193938&scisig=AAGBfm0ovGfTOwrhRMzt4MuA5nd3t9UpKw&nossl=1&oi=scholaralrt&hist=AaiIJdIAAAAJ:7232710700677719719:AAGBfm31i9tIIfSsTTHA4l_zi5nF41KtGA) | Microchemical Journal(I. F. = 4.8) | 147 | 755-763 | 2019 |
| 28. | Imadadulla M., David O. Oluwole, Manjunatha Nemakal, **Lokesh K. S.**, T. Nyokong | Investigation of novel substituted zinc and aluminium phthalocyanines for photodynamic therapy of epithelial breast cancer |  Dyes and Pigments(I. F. = 4.9) | 170  | 107592 | 2019 |
| 29. | Veeresh A. Sajjan, Imadadulla Mohammed, Manjunatha Nemakal, Shambulinga Aralekallu, Hemanth Kumar K. R., **Lokesh K.S.** | Synthesis and electropolymerization of cobalt tetraamine benzamidephthalocyanine macrocycle for the amperometric sensing of dopamine | Journal of Electroanalytical Chemistry(I. F. = 3.012) | 838 | 33-40 | 2019 |
| 30. | Manjunatha Nemakal, Imadadulla Mohammed, Shambhulinga A., Sreenivasa Swamy, **Lokesh K. S.** | Novel cobalt(II) octabenzimidazolephthalocyanine: synthesis and its application for amperometric detection of environmental pollutant hydrazine  | Journal of Electroanalytical Chemistry(I. F. = 4.46) | 839 | 238-246 | 2019 |
| 31. | Subramanya Gopal Hegde , **Lokesh K. S.,** Suman Y. Reddy ,Manjunatha Narayanarao | MgSiO3 Nanoparticle-Catalyzed 1,3-Dipolar Cycloaddition reactions in the synthesis of novel spiroindane-1,3-diones derived from substituted Chalcones | Journal of the Chinese Chemical Society(I. F. = 1.967) | 66 | 1708-1712 | 2019 |
| 32. | Keshavananda Prabhu C. P., Manjunatha Nemakal, Shambhulinga A., Imadadulla Mohammed, Hemantha Kumar K. R., Shivaprasad K. H., **Lokesh K. S.** | Synthesis and characterization of novel imine substituted phthalocyanine for sensing of L-cysteine  | Journal of Electroanalytical Chemistry(I. F. = 4.46) | 230  | 834 | 2019 |
| 33. | V Veena, KH Shivaprasad, KS Lokesh, H Sharanagouda, D Ramakrishna | [Design, Synthesis, Computational and Biological Evaluation of 4-Amino-3, 5-dimercapto-1, 2, 4-triazole Surface Functionalized Gold Nanoparticles](https://www.scilit.net/article/e8263fc1d6e16bfe896e253c9fc5bb30?action=show-references) | Asian Journal of Chemistry(I. F. = 0.54) | 31(12) | 2875-2884 | 2019 |
| 34. | N. Manjunath, M. Imadaullah, K. R. Venugopala Reddy, **K. S. Lokesh** | Synthesis and electropolymerization of tetra [β-(2-benzimidazole)] and tetra [β(2-(1—(4-aminohenyl)) benzimidazole)]embedded cobalt phthalocyanine and their supercapacitance behaviour | Dyes and Pigments(I. F. = 4.9) | 153  | 213-224 | 2018 |
| 35. | Veena V., Shivaprasad, K. H, **Lokesh K. S.**, Krupanidhi A. M. | TiO2 and Pt/Pd doped TiO2 upconversion nanoparticles for photodynamic biomedical applications. | IOSR Journal of Pharmacy and Biological Sciences | 13(5)  | 1-10 | 2018 |
| 36. | Manjunatha N., **Lokesh K. S.**, Subramanya G., Suman Y.R., Susmita K.,  | A one-pot three component synthesis of fused spiro indoline/indene derivatives derived from ethynylazaindole by 1,3-dipolar cycloaddition reaction | Synthetic Communications(I. F. = 2.0) | 48 (18)  | 2441-2451 | 2018 |
| 37. | Subramanya Hegde Gopal, **Lokesh Koodlur**, Vijayakumar G. Revanasiddappa, Suchetan P. Adimule, Suman Y. Reddy, Atanu Ghoshal, H. Nagabhushana | MgSiO3 NPs catalyzed intramolecular cycloaddition reaction: A simple and stereo selective synthesis of unprecedented julolidine analogs | Synthetic Communications(I. F. = 2.0) | 48(19)  | 2485-2495 | 2018 |
| 38. | N. Manjunatha, M. Imdaadulla, **K. S. Lokesh** | Chemisorbed palladium phthalocyanine for simultaneous determination of biomolecules | Microchemical Journal(I. F. = 4.8) | 143  | 82-91 | 2018 |
| 39. | M. Imadaadullah, N. Manjunath, **K. S. Lokesh** | Solvent dependent dispersion behavior of macrocycle stabilized cobalt nanoparticles and their applications | New Journal of Chemistry(I. F. = 3.5) | 42  | 11364 - 11372 | 2018 |
| 40. | M. Imadaadullah, N. Manjunath, Veeresh Sajjan, **K. S. Lokesh** | Electropolymerized film of cobalt tetrabenzimidazolephthalocyanine for the amperometric detection of H2O2 | Journal of Electroanalytical Chemistry(I. F. = 4.46) | 826 | 96-103 | 2018 |
| 41. | Shahid Bhat, Mahesh Itagi, Alagiri, **K. S. Lokesh**, Muhammed Mustafa | Metal-organic framework electrode governed by heat of hydration for non-invasive differentiation of alkali metal series | Analytical Chemistry(I. F. = 6.96) | 90 (21) | 12917–12922 | 2018 |
| 42. | Mahesh Itagi, Shateesh Battu, D. Mruthyunjayachari, Zahi. M. Bhat, K. Alagar, Gautam Manu, T. Ravikumar, **Lokesh K.S.**, T. Mustafa | Zinc battery driven by an electro-organic reactor cathode. | ACS Sustainable Chem. & Engg.(I. F. = 8.198) | 6 (11) | 15007–15014  | 2018 |
| 43. | Ravikumar thimmappa, Shambhulinga Aralekallu, Mruthyunjayachari chattanahalli devendrachari, Zahid bhat, Alagar raja kottaichamy, **Lokesh K S**, Musthafa Ottakam Thotiyl, Shahid Pottachola Shafi | A single chamber direct methanol fuel cell | Advanced Material Interfaces(I. F. = 4.948) | 4(21) | 1700321 | 2017 |
| 44. | Shambulinga, Ravikumar, Promod Mruthyunjayachari, Alagar Raja, Shahid S., **K. S. Lokesh**, Julio Sanchez, Musthafa  | Tuning the Interfacial Chemistry of Redox Active Polymer for Bifunctional Probing | Chem Electrochem(I. F. = 4.590) | 4(3) | 692-700 | 2017 |
| 45. |  Mallikarjun, **K. S. Lokesh**, K. H. Shivaprasad, K. R. Venugopala Reddy  | Extractive Spectrophotometric Methods for the Determination of Metaprolol Succinate in Pure and Pharmaceutical Formulations | Austin Journal of Analytical and Pharmaceutical Chemistry(I. F. = 2.1) | 3(3) | 1070 | 2016 |
| 46. | Mallikarjun, **K. S. Lokesh**, K. H. Shivaprasad, K. R. Venugopala Reddy  | Spectrophotometric Determination of Some Non-steroidal Anti-Inflammatory Drugs by Oxidative Coupling Reaction | Austin Journal of Analytical and Pharmaceutical Chemistry(I. F. = 2.1) | 3(3) | 1069 | 2016 |
| 47. | Manjunath K., **Lokesh K. S.**, Vijayakumar G. Revanasiddappa, Subramnaya G. H., Susmita K.  | Multicomponent synthesis of spiropyrrolidine analogues derived from vinylindole/indazole by a 1,3-dipolar cycloaddition reaction | Beilstein Journal of Organic Chemistry(I. F. = 2.88) | 12 | 2893-2897 | 2016 |
| 48. | **K. S. Lokesh**, A. Adriaens | Electropolymerised amine containing Palladium phthalocyanine for capacitive applications | Dyes and Pigments(I. F. = 4.9) | 112 | 192 | 2015 |
| 49. | **K. S. Lokesh**, Shambulinga, N. Manjunatha, M. Imdaad, M. Hojamberdiev, | Porphyrin macrocycle stabilised gold and silver nanoparticles  and their Application in Catalysis of Hydrogen peroxide | Dyes and Pigments(I. F. = 4.9) |  120 | 155-160 | 2015 |
| 50. | Q. Liu, **K. S. Lokesh**, C. Chauvin, W. Sugimoto | Model Electrode Studies of the Electrostatic Interaction between Electrochemically Dissolved Pt Ions and RuO2 Nanosheets | Journal of the Electrochemical Society (I. F. = 4.316) | 161 | F259-F262 | 2014 |
| 51. | **K. S. Lokesh**, K. H. Shivaprasad, K. R. Venugopala Reddy | Stability and electrochemical activity of nano-size copper and its oxide particles using cobalt aminophthalocyanine as a stabilizer  | RSC Advances(I. F. = 3.36) | 4 | 11367 | 2014 |
| 52. | H. Mallikarjun, **K. S. Lokesh**, K. H. Shivaprasad, K. R. Venugopala reddy | [Sensitive Spectrophotometric Method for the Determination of Permetrexed Disodium in Pure and Pharmaceutical Formulations](http://scholar.google.co.in/citations?view_op=view_citation&hl=en&user=AaiIJdIAAAAJ&cstart=20&citation_for_view=AaiIJdIAAAAJ:vV6vV6tmYwMC) | Austin Journal of Analytical and Pharmaceutical Chemistry(I. F. = 2.1) | 1 | 1029 | 2014 |
| 53. | C. Tan, G. Zhu, M. Hojamberdiev, **K. S. Lokesh**, X. Luo, L. Jin, J. Zhou, P. Liu | Adsorption and Enhanced Photocatalytic Activity of the {0001} Faceted Sm-doped ZnIn2S4 Microspheres. | Journal of Hazardous Materials(I. F. = 10.588) |  278 | 572-583 | 2014 |
| 54. | H. Mallikarjun, **K. S. Lokesh**, K. H. Shivaprasad, K. R. Venugopala reddy | [Novel spectrophotometric methods for the assay of an antiepileptic- oxcarbazepine](https://www.wjpps.com/Wjpps_controller/abstract_id/1622) | World Journal of Pharmacy and Pharmaceutical Sciences(I. F. = 0.13) | 3 (7) | 815 | 2014 |
| 55. | **K. S. Lokesh** | Layer-by-Layer assembly of a water-soluble phthalocyanine on gold. Application to the electrochemical determination of hydrogen peroxide | Bioelectro-chemistry(I. F. = 5.373) | 91 | 21-27 | 2013 |
| 56. | **K. S. Lokesh**, A. Adriaens | Synthesis and characterization of tetra-substituted palladium phthalocyanine complexes | Dyes and Pigments(I. F. = 4.9) | 96 | 269-277 | 2013 |
| 57. |  C. Chauvin, Q. Liu, T. Saida, **K. S. Lokesh**, T. Sakai, W. Sugimoto | Effect of nanosheet size on activity and durability of RuO2 nanosheet Pt/C catalyst | Electrochemical Society Transactions(I. F. = 0.47) | 50 | 1583-1588 | 2013 |
| 58. | **K. S. Lokesh**, S. Chardon, F. Lafolet, Y.Traoré, C.Gondran, P.Guionneau, L. Guérente, P. Labbé, A.Deronzier,J- F Létard | One step vs. stepwise immobilization of 1-D coordination based Rh-Rh molecular wires on gold surfaces | Langmuir(I. F. = 3.9) | 28(32) | 11779-11789 | 2012 |
| 59. | **K. S. Lokesh**, M. D. Keersmaecker, A. Elia, D. Depla, P. Dubruel, P. Vandenabeele, S.V. Vlierberghe, A. Adriaens | Adsorption of cobalt (II) 5,10,15,20-tetrakis(2-aminophenyl)-porphyrin onto copper substrates:  characterization and impedance studies for corrosion inhibition | Corrosion Science(I. F. = 7.205) | 62 | 73-82 | 2012 |
| 60. | **K. S. Lokesh,** M. De Keersmaecker, A.Adriaens | Self assembled films of porphyrins with amine groups at ifferent positions: influence on their orientation on corrosion inhibition and electrocatalytic activity | Molecules(I. F. = 4.411) | 17  | 7824-7842 | 2012 |
| 61. | **K. S. Lokesh**, Karoline de wael, A. Adriaens | Self assembled supramolecular array of polymeric phthalocyanine on gold for the determination of hydrogen peroxide | Langmuir(I. F. = 3.88) | 26 (22) | 17665 | 2010 |
| 62. | S. Chandra, **K. S. Lokesh** and H. Lang | Iodide recognition by the N, N-bissuccinamide-based dendritic molecule H2C(O)NHC(CH2CH2C(O)OtBu)3]2 | Sensors and Actuators B-Chemical(I. F. = 7.4) | 137 (1) | 350 | 2009 |
| 63. | **K. S. Lokesh**, Y. Shivaraj, B.P. Dayananda, S. Chandra | Synthesis of phthalocyanine stabilized rhodium  nanoparticles and their application in biosensing of cytochrome C | Bioelectro-chemistry(I. F. = 5.373) | 75 | 104 | 2009 |
| 64. |  S. Chandra, **K. S. Lokesh**, A.Nicolai, H. Lang | Dendrimer-Rhodium nanoparticle modified Glassy Carbon Electrode for Amperometric Detection of Hydrogen Peroxide | Analytica Chimica Acta(I. F. = 6.558) | 632 (1) | 63 | 2009 |
| 65. |  **K. S. Lokesh**, N.S.Venkatanarayanan , S.Sampath | Phthalocyanine macrocycle as stabilizer for gold and silver nanoparticles | Microchimica Acta(I. F. = 5.833) | 167 (1-2) | 97-102 | 2009 |
| 66. | **K. S. Lokesh**, N. Uma, B. N. Achar | The microwave-assisted syntheses and conductivity study of a platinum phthalocyanine and its derivative | Polyhedron(I. F. = 3.052) | 28 (5) | 1022 | 2009 |
| 67. | S. Mitra, **K. S. Lokesh**, S. Sampath |  Exfoliated graphite-ruthenium oxide composite electrodes for electrochemical supercapacitors | J. Power Sources(I. F. = 9.2) | 185 (2)  | 1544 | 2008 |
| 68. | N. T. K. Sundaram, O. T. M. Musthafa, **K. S. Lokesh**, A. Subramania | Effect of porosity on PVdF-co-HFP-PMMA based electrolyte | Materials Chemistry and Physics(I. F. = 4.094) | 110 | 11 | 2008 |
| 69. | B. N. Achar, T. M. M. Kumar, **K. S. Lokesh** | Synthesis, characterization, pyrolysis kinetics and conductivity studies of chlorosubstituted cobalt phthalocyanines | J. Coord. Chem.(I. F. = 1.4) | 60  | 1833 | 2007 |
| 70. | **K. S. Lokesh**, N. Uma , B. N. Achar | Synthesis and physico-chemical characterization of metal free, sodium and potassium phthalocyanine complexes | J. Non-Cryst. Solids(I. F. = 3.53) | 353 (4) | 384 | 2007 |
| 71. | B. N. Achar, T. M. Mohan Kumar, **K. S. Lokesh** | A comparative study of microwave versus conventional synthesis of lead phthalocyanine complexes | J. Porphyrins and Phthalocyanines(I. F. = 1.811) | 9 (12)  | 872 | 2005 |
| 72. | B. N. Achar, G. M. Fohlen , **K. S. Lokesh**, T. M. M. Kumar | GC-MS studies on degradation of copper phthalocyanine sheet polymer | International J. Mass Spectrom.(I. F. = 1.986) | 243 (3)  | 199 | 2005 |
| 73. |  B. N. Achar, G. M. Fohlen, **K. S. Lokesh**, T. M. M. Kumar | Characterization of cobalt phthalocyanine sheet polymer by gas chromatography mass spectrometry on its pyrolysis products | Reactive and Functional Polymers(I. F. = 3.975) | 63 | 63 | 2005 |
| 74. | B. N. Achar, **K. S. Lokesh** | Studies on metal (II) tetra-amino phthalocyanines | J. Organomet. Chem.(I. F. = 2.369) | 689 | 3357 | 2004 |
| 75. | B. N. Achar, **K. S. Lokesh** | Studies on polymorphic modifications of copper phthalocyanine | J. Solid State Chem.(I. F. = 3.498) | 177 (6) | 1987 | 2004 |
| 76. | B. N. Achar, **K. S. Lokesh** | Studies on phthalocyanine sheet polymers | J. Organomet. Chem.(I. F. = 2.369) | 689 (16) | 2601 | 2004 |
| 77. | B. N. Achar, G. M. Fohlen, **K. S. Lokesh** | Degradation study on the thermally stable nickel phthalocyanine sheet polymer | Polymer Degradation and Stability(I. F. = 5.03) | 80 (3) |  427 | 2003 |

**13. Detail of patents: 02**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No.** | **Patent Title** | **Name of the Applicant(s)** | **Patent No.** | **Award Date** | **Agency/Country** | **Status** |
| **1.** | Chromeno [4,3-b] quinoline compounds and their synthesis by using silicotungstic acid [H4SiW12O40]  | Subramanya G H and K.S. Lokesh | 202041053100 | 22/01/2021 | Indian patent | Published and granted |
| **2.** | Chromeno [4,3-b] quinoline compounds and their synthesis by using silicotungstic acid [H4SiW12O40] | Subramanya G H and K.S. Lokesh | PCT/IB2021/058086 | Filed 05/09/2021 | WP(PCT) | Under process |

**14. Books/Reports/Chapters/General articles etc.**

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| --- | --- | --- | --- | --- |
| **Sl. No.** | **Title** | **Author’s Name** | **Publisher** | **Year of Publication** |
| 1. | **Chapter Title** : MXene-based sensors and biosensors: next-generation detectionplatforms | Ankita Sinha, Dhanjai, Samuel M. Mugo, Jiping Chen, **Koodlur S Lokesh** | Elsevier, Netherlands | 2020 |
| 2.  | **Chapter Title:** Electrochemical Nano Sensors & applications in the handbook, “Handbook of Nanomaterials for Sensing Applications. | Shambhulinga Aralekallu, Lokesh K.S. | Elsevier | 2020 |

**15. Research Projects Undertaken: 10**

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| --- | --- | --- | --- | --- |
| **Sl. No** | **Title of Project** | **Funding agency** | **Amount (INR)** | **Duration** |
| 1. | Novel N4 macrocycles as efficient catalysts for clean energy production | DST, India –Uzbekistan Joint call | 17,80,000.00 | 2021-2023 |
| 2.  | Metal organic framework electrocatalysts for water splitting reaction to produce H2 and O2 fuels | Karnataka Science & Technology Academy, Govt of Karnataka, India | 70,000.00 | 2021-2022 |
| 3. |

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|  N4-Macrocycles for Sensing and Electrocatalytic Applications.  |

 | K-FIST of VGST, Karnataka Govt., India | 20,00,000.00 | 2017-19 |
| 4. | Development of N4 macrocycle based cost effective catalysts for PEFC | CSIR, Govt. of India | 3,00,000.00 | 2017-2020 |
| 5. | Co-ordinator from department | DST-FIST | 1,04,00,000.00 | 2017-2022 |
| 6. | N4 Macrocyclic metal complex SAM layers as stable electrocatalysts and Sensors | SERB, DST | 20,00,000.00 | 2017-2019 |
| 7. | Arene-ruthenium complexes for host-guest and DNA interaction studies | Research fund for talented teachers (RFTT), VGST, Karnataka Govt, India |  3,00,000.00 | 2016-2017 |
| 8. | Supramolecular self assembly of arene ruthenium complexes | DST-Fast Track Scheme for young scientist | 25,00,000.00 | 2014-2017 |
| 9. | Phthalocyanine molecular conductors as stable and suitable electrocatalysts and sensors | Seed Money to Young Scientists for Research, VGST, Karnataka Govt. India |  6,00,000.00 | 2014-2015 |
| 10. | Self assembled monolayers of N4-macrocycles on gold | UGent, Belgium | 22,000 Euros | 2009-2010 |

**Ph. D. Students Guided/Guiding: Awarded – 07**

 **Submitted – 01**

 **Working – 06**

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| --- | --- | --- | --- | --- |
| **Name** | **Year of joining** | **Title** | **Year of award** | **Remarks** |
| 1. Dr. Shambhulinga | 2014 | Surface modification of electrodes with macromolecules and redox–active molecules for electrochemical applications. | 12/07/2018 | Working as postdoctoral fellow, Sunchon National university, South Korea |
| 2.Dr. N. Manjunatha | 2014 | Synthesis of conjugated ligand based metal complexes and their analytical applications | 20/02/2019 | Working as Postdoctoral fellow, Rhodes University, South Africa |
| 3.Dr. M. Imdad | 2014 | Studies on redox based materials and macrocycles for electrochemical applications for electrochemical applications | 08/05/2019 | Appointed as Assistant Professor, DRM college, Davanagere |
| 4. Dr. Subramanya | 2016 | Studies on cycloaddition reactions and applications in the synthesis of biologically important polyheterocycles | 19/06/2020 | Senior Scientist at Syngene Ltd, Bangalore (Selected as Postdoctoral fellow at University of Utah, USA) |
| 5. Dr. Mahesh Itagi | 2016 | Studies on redox based materials and macrocycles for electrochemical applications | 25/08/2020 | Lecturer at VSK University, Ballari |
| 6.Dr. Veeresh Sajjan | 2016 | Synthesis of conjugated N4 macrocycles for sensing and catalytic applications | 25/08/2020 | Lecturer at Veerashaiva college, Ballari |
| 7. Dr. Keshavananda Prabhu | 2016 | Synthesis of substituted N4 macrocycles for biologicaland electrochemical applications | 12/06/2020 | Working as postdoctoral fellow, Kyung Hee University, South Korea |
| 8. Mr. Manjunath | 2016 | Phthalocyanine analogus for biological and electroanalytical applications | Submitted | University fellowship |
| 9. Mr. Giddaerappa | 2018 | Electrode modification with redox-active molecules for electrochemical applications | Pursuing | OBC fellowship, Govt of Karnataka |
| 10 Mr. Shantharaja | 2018 | Redox-active molecules for electrocatalysis and clean energy production | Pursuing | University fellowship |
| 11. Mrs Soumyashree | 2021 | Electroactive N-4 Macrocycles for Sustainable Energy Production | Pursuing | DST-project fellow |
| 12. Ms. Naseema Kousar | 2021 |

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| Macrocyclic redox-active molecules for clean energy applications  |

 | Pursuing |  |
| 13. Mrs. Gouthami Patil | 2021 | Biologically Inspired Phthalocyanine Macrocycles for Electrochemical Applications | Pursuing | DST Inspire Fellow |
| 14. Mrs. Ashwini | 2021 | Novel N4-macrocycles as efficient catalysts for electrochemical applications | Pursuing |  |

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| **Ph.D. Thesis Evaluation :** | **Indian : 25****Foreign:** 1. South Africa-02
2. Belgium -01
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| **Google Scholar-citation indices :** | **Citations - 1205** |
|  | **Google h-index - 22** |
|  | **i10 index – 41** |

**Conferences conducted/organized:**

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| **Sl. No.** | **Conferences conducted/organized** |
|  | Advisory committee Member, National conference organized by Engineering college, Bangalore. |
|  | Coordinator, KSTA sponsored Special P. G. Lecture Series in Industrial Chemistry held on 11th -12th March, 2016 at Vijayanagara Sri Krishnadevaraya University, Ballari. |
|  | Convenor/Organising Secretary, KSTA sponsored Interdisciplinary National Seminar on “Impact of Science and Technology on Society and Economy” in Feb. 2017 at Vijayanagara SriKrishnadevaraya University, Ballari. |
|  | Advisory Committee Member, KSTA Conference held on 23th – 24th Febraury, 2018 at Koppal. |
|  | Co-ordinator, KSTA sponsored Special Lecture Series in Chemistry, March 2019. |
|  | Secretary, DST sponsored National workshop on “Recent trends in Chemical Sciences for sustainable development” held during 25th - 26th September, 2019. |
|  | Organised International webinar on “ Advances in Chemical Sciences” in association with KSTA, Govt of Karnataka from 19-22 Jan 2021. |

**Special Lectures:**

1. “Analytical Chemistry Education in India with special reference to Karnataka” *at ‘Asianalysis XII’ held in Aug 2013 in Japan.*
2. “UV-Vis. Spectroscopy” at Saraladevi Govt. First Grade College, Ballari under Spectroscopy special lecture series on 8th April, 2015.
3. Invited Lecture/Resource Person, National Seminar on “Advances in Spectroscopy and Analytical Techniques” at Suvetha Institute of Sciences, NMIMS Deemed to be University, Mumbai.
4. Invited Lecture/Resource person and Session chair , Interdesciplinary International conference on “Energy and Environmental Impact on Biodiversity and Sustainable Development”, BRABU University, Muzaffarpur, Bihar, Dec. 15-17, India
5. Invited Lecture, One day workshop on Emerging Trends in Basic Science and Technology, BITM Engg Collge, Ballari, Karnataka on 9th January, 2016.
6. Invited Lecture on “Principles of Analytical chemistry” at SBC and SV Science and SVPG College, Humnabad on 6th February, 2016.
7. Invited Lecture on Basic concepts of Chemistry at the work-shop conducted by Department of Chemistry, Gulbarga University on 4th – 6th November, 2016.
8. Delivered Special talk at “Basics of Analytical Chemistry” at ASM Womens College, Ballari on 31st January, 2018.
9. Delivered special Lecture on “Nanotechnology and its Impact on your future” at Vijnana Sammelana of Koppal District at Govt First Grade College, Gangavathi on 16th February, 2018.
10. Delivered two lectures on “Basics of Alternative energy systems” and “Advanced Research in Alternative Energy Systems” at Refresher Course in Chemistry held at Mysore University on 19th February, 2018.
11. Chaired a session at KSTA National Conference held at Koppal on 23rd February, 2018.
12. Delivered Lecture at Dept. of Chemistry, Maharani’s Science College, Mysore on 26th March, 2018.
13. Invited Lecture on “Chromatographic Techniques; Basics, Methodology and Applications” delivered at Tumkur University, Tumkur on 27th July, 2018.
14. Delivered invited lecture on “Electrochemical Sensors” at National Conference on Recent Trends in Chemical Sciences held at Pachamuthu Arts and Science College for Women, Dharmapuri, Tamil Nadu on 19th September, 2018.
15. “Nanotechnology” as part of Science day celebrations, ASM College, Ballari, 28th February, 2019.
16. Insights in Electrochemistry for Sustainable Development, at National conference on Developments in Chemical Biology and Materials Engineering at Veerashaiva college, Ballari on 30th – 31st January, 2020.
17. Delivered lecture for Refresher Course participants at HR-UGC Academic Staff College, Mysore on 10th February, 2020.
18. Delivered a lecture at State Level Workshop in Kottureshwara College, Kottur on Research Methodology on 2th March, 2020.
19. Delivered a Lecture at Vijayanagara College, Hospet on “ Research and Innovations in Chemistry” on 06/02/2021.
20. Delivered a Lecture at Veerashaiva College, Ballari on “ Basics of spectroscopy” on 19/02/2021.
21. Delivered a lecture on Chromatography in Dept of Chemistry, Gulbarga University on 6/3/2021.
22. Delivered a lecture on “ Nanotechnology for Sustainable development” at National webinar organized by ASM college, Ballari on 13/07/2021.

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| **Research Collaborations:**  | **National Collaborations:**1. Prof. Muhammed Mustafa, Department of Chemistry, IISER, Pune, India.
2. Dr. Mariappan, Department of Chemistry, SRM University, Chennai, Tamilnadu.

**International Collaborations:**1. Prof Karolien De Wael, Department of Chemistry, University of Antwerpen, Belgium.
2. Prof Tebello Nyokong, Department of Chemistry, Rhodes University, South Africa
3. Prof. Mirabbos Hojamberdiev, Senior Scientist, Tashkent Institute of Chemical Technology, Tashkent, Uzbekistan.
4. Prof. Can Li, State Key Laboratory of Catalysis, Dalain Institute of Chemical Physics, Dalain, China.
5. Prof. Mieke Adriaens, Dept of Analytical Chemistry, University of Ghent, Ghent, Belgium.
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**Editor and Reviewer of Research Journals:**

1. Editor, Austin Journal of Analytical and Pharmaceutical Chemistry (I.F.=2.1)
2. Permanent Review Editor, Frontiers in Chemistry (I.F. =5.4)

**Reviewer:**

1. J. Physical Chemistry C, 2. Nanoscale, 3. New Journal of Chemistry, 4. Industrial & Engg Chemistry Research, 5.Electrochemica Acta, 6. Journal of Electrochemical Society, 7. Journal of Electroanalytical Chemistry, 8. Journal of Photochemistry and Photobiology A: Chemistry. 9. Inorganic chem commn , 10. International Journal of Environmental Analytical Chemistry, 11. J. Organometallic chemistry, 12. Materials Chemistry and Physics, 13. Talanta, 14. Materials Research Bulletin, 15. Applied Catalysis B, 16. Journal of Porphyrins and phthalocyanines, 17. J. Non Crystalline solids, 18. Journal of Applied Electrochemistry, 19. Microchimica Acta, 20. Microchemical J, 21) Food chemistry

**Administrative Responsibilities:**

1. Dean, Faculty of Pure Science, VSK University, Ballari- 2019 to till now
2. Chairman, Department of Chemistry/Industrial Chemistry, VSK University, Ballari, 2019 to till now
3. Syndicate Member, VSK University, July 2021 to till now
4. Director, USIC, VSK University, Ballari- 2015 to till now.
5. Coordinator, ICT, VSK University, Ballari- 2017 to 2020.
6. Academic Council member, VSK University, Ballari, 2018 to till now
7. Chairman, BOS (Chemistry), VSK University, Ballari-2019 to till now
8. Chairman, BOE (Chemistry-PG), VSK University, 2016-17, 2021-22
9. Academic Council Member, Satishchandra Saraladevi Agarwal Govt (Autonomous) college, Ballari, 2020-till now
10. Chairman, UG and PG Admission Committee , VSK University, Ballari
11. NAAC Peer Team, Member and Coordinator

**Other Activities:**

1. Instrumental in acquiring HPLC (02 numbers), GC-MS and LC-MS to Department through donation from industries.