

## CURRICULUM VITAE

Name **Dr. K. S. LOKESH**  
Designation Professor of Chemistry (from 22/10/2015)  
Institute Department of Studies in Chemistry/Industrial Chemistry, Vijayanagara Sri  
Krishnadevaraya University  
Father's Name Sri K.K. Sannegowda  
Date of Birth 01.07.1976 Nationality : Indian

**Official Address:**

Professor of Chemistry  
Department of Chemistry  
Vijayanagara Sri Krishnadevaraya University  
Cantonment, Vinayakanagar, Bellary,  
Karnataka-583105, INDIA

**Permanent Address**

S/O K.K. Sannegowda  
Koodlur, Besur, Somwarpet, Kodagu  
Karnataka, INDIA-571231

E-mail address: [kslokesh@vskub.ac.in](mailto:kslokesh@vskub.ac.in); [lokeshsk@gmail.com](mailto:lokeshsk@gmail.com); Mob: +91-9035500208

Languages Known : Kannada, English, Hindi, French, Japanese (Little)

**Educational Qualifications**

DEGREE	YEAR	UNIVERSITY	SUBJECT	GRADES
Secondary School Leaving Certificate -SSLC	1992	Central Board of Secondary Education CBSE	Kannada, English, mathematics, science, social science	76.6% Distinction
Pre University Course PUC	1994	Central Board of Secondary Education CBSC	Physics, chemistry, mathematics, biology	67.4% First Class
B.Sc.	1997	University of Mysore	Physics, chemistry and mathematics	60.4 % First Class
M.Sc.	1999	University of Mysore	Chemistry, Analytical Chemistry Specialization	74.5% Distinction with First Rank
Ph.D.	2005	University of Mysore	Chemistry; <i>Synthesis and characteristic studies on metal phthalocyanines and their polymers as molecular conductors</i>	Ph.D. awarded

**Work and Research Experience**

Designation	Institute	Place	Time period
<b>1. Chemist</b>	Cipla	Bangalore, India	17/02/2000 - 21/12/2000
<b>2. UGC Project Fellow</b>	University of Mysore	Mysore, India	Dec 2000 to Sep. 2003
<b>3. CSIR RA</b> Research interests:- Phthalocyanines and dendrimers for stabilization nanoparticles, self assembled monolayers for electrocatalysis and sensing - Capacitors and batteries; DNA cleavage for photodynamic therapy	IISc	Bangalore, India	July 2005 - March 2008
<b>4. Post-Doc</b> Research Interest: - Synthesis of Metal-metal bonded molecular wires for self assembly and surface co-ordination on different substrates( Au, Ni, Co) for Molecules for SpinElectronics	Universite Joseph Fourier	Grenoble, France	April 2008 - Oct 2009
<b>5. Visiting Scientist</b> Research Interest: -Synthesis of phthalocyanines, porphyrins and electropolymerization. -SAM for electrocatalysis, sensing and corrosion inhibition	University of Gent,	Ghent, Belgium	Nov. 2009-Oct 2010
<b>6. Assistant Professor</b> Research Interest: Fuel cells and supercapacitors – Electrocatalysis with RuO <sub>2</sub> ns/TiO <sub>2</sub> ns with Pt for PEMFC - Insitu electrochemistry based on STM and IR.	Shinshu University	Japan	Nov 2010- Dec 2012

<b>7. Associate Professor of Chemistry</b> Teaching master degree students and Research	Vijayanagara SriKrishnadevaraya University	Ballari, India	22/10/2012 to 21/10/2015
<b>8. Professor of Chemistry</b> Teaching master degree students and Research	Vijayanagara SriKrishnadevaraya University	Ballari, India	22/10/2015 to till now
<b>8 TWAS-UNESCO Associate</b>	Dalain Institute of Chemical Physics	Dalain, China	18/04/2015 to 14/06/2015
			26/05/2018 to 30/06/2018
<b>9. Jury member, Ph.D thesis adjudication</b>	University of Antwerpen, Belgium	Belgium	24/05/2018 to 26/05/2018

### Training/Schools attended

- European School on Nanosciences and Nanotechnology-ESONN-08, Grenoble, France from 25/08/2008 to 13/09/2008.
- X ray Absorption spectroscopy school held in Gent, Belgium on 14<sup>th</sup> and 15<sup>th</sup> January 2010.
- 6<sup>th</sup> International Fuel cell workshop 2012 – PEFCs: from Basic Science to Application" held in Kofu, Yamanashi, Japan, August 2 and 3, 2012
- French Language course
- Permanent Training on Low country studies, Gent, Belgium

### Medals/Awards

- Best Poster prize at Koppal KSTA National conference held on 23-24 Feb, 2018
- Sir C.V. Raman Young Scientist Award in Chemical Sciences for 2015, Karnataka Govt, India
- Best Teacher Award of Vijayanagara Sri Krishnadevaraya University in 2017 ( Students rating + biodata)
- Foundational Best Teacher Award of Vijayanagara SriKrishnadevaraya University, Ballari for the year 2014-15.
- Selected as summer research fellow by Indian Academy of Science for 2014.
- Awarded TWAS-UNESCO visiting Research Associateship in 2014 and Visited State Key Laboratory, Dalian Institute of Chemical Physics, China for two months in 2015.
- Received best Research Publication award, Vision Group of Science and Technology (VGST), Karnataka State Govt., India, 2013-14
- Participated and presented work in "Materials Challenges in Devices for Fuel Solar Production and Employment, (19 - 23 May 2014) held at ICTP, Trieste, Italy
- Participated (On Invitation) in the TWAS Science and Diplomacy workshop on Innovative Energy Policies for Sustainable Future held at Trieste, Italy from 9-13 Dec. 2013.
- Best Paper presentation award at the Asian conference, ACEPS-6, 2012
- Most downloaded Bioelectrochemistry article, 2013
- Invited to present "Analytical Chemistry Education in India" at 'Asianalysis XII' held in Aug 2013 in Japan.
- First rank holder in M.Sc. Chemistry from Mysore University.
- 3 gold medals and 1 cash prize for excellent results during masters education
- Our Research work has been highlighted in the book
  - a) *Chemistry, materials and properties of surface coatings-Traditional and Evolving technologies*, by Gungor Gunduz, DEStech publications Inc. PA, USA, 2015.
  - b) *Electrochemistry: Nanoelectrochemistry*, edited by Richard G. Compton, Jay Wadhawan, RSC, Cambridge, 2014
  - c) *" Peroxides—Advances in Research and Application: 2012 Edition (Google ebook)*
  - d) *Dendrimers, dendrons, and dendritic polymers*, D.A. Tomalia, J. B. Christensen, Ulrik Boas, Cambridge University press, New York, 2012
  - e) *Smart sensors and sensing technology*, by Sourab Sen Gupta, Springer, 2008
  - f) *Frontiers in Transition Metal-Containing Polymers*, By Alaa S. Abd-El-Aziz, Ian Manners, Wiley New Jersey, 2007.

### Fellowships

1. University Grants Commission (UGC) project fellowship from December 2000 to September 2003 (Govt. of India).

- Center of Scientific and Industrial Research (CSIR) senior research fellowship from July 2004 to June 2005 (Govt. of India).
- Indian Institute of Science (IISc) research fellowship from July 2005 to March 2006 (IISc, Bangalore, India)
- Center of Scientific and Industrial Research (CSIR) research associate from April 2006 to March 2008 (Govt. of India).
- Postdoctoral fellowship from UGent, Belgium from Oct 2009 to Oct. 2010.
- Selected for IASc-INSA-NASI Summer Research Fellowship in 2014.
- TWAS-UNESCO Associateship for the year 2014-2019 to visit Chinese laboratory

#### Research Projects Undertaken

Sl. No	Title of Project	Funding agency	Amount (INR)	Duration
1.	N4-Macrocycles for Sensing and Electrocatalytic Applications.	K-FIST of VGST, Karnataka Govt, India	20,00,000.00	2017-19
2.	Development of N4 macrocycle based cost effective catalysts for PEFC	CSIR, Govt of India	3,00,000.00	2017-2020
3.	Co-ordinator from department	DST-FIST	1,04,00,000.00	2017-2022
4.	N4 Macrocyclic metal complex SAM layers as stable electrocatalysts and Sensors	SERB, DST	20,00,000.00	2017-2019
5.	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
6.	Supramolecular self assembly of arene ruthenium complexes	DST-Fast Track Scheme for young scientist	25,00,000.00	2014-2017
7.	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
8.	Self assembled monolayers of N4-macrocycles on gold	UGent, Belgium	22,000 Euros	2009-2010

#### Ph.D. Students Guided/Guiding:

Awarded: 03

Working: 07

Name	Year of joining	Title	Remarks
1. Mr. Shambulinga	2014	Surface modification of electrode with macromolecules and redox active molecules for electrochemical applications.	Ph.D. degree awarded on 12/07/2018
2. Mr. N. Manjunatha	2014	Synthesis of conjugated ligand based metal complexes and their analytical applications	Ph.D. degree awarded on 20/02/2019
3. Mr. M. Imdad	2014	Synthesis of N4 macrocycles for electrochemical applications	Ph.D. degree awarded on 08/05/2019
4. Mr. Subramanya	2016	Synthesis and anticancer activity of indoles and imidazoles	Part-time
5. Mr. Mahesh Ittigi	2016	Synthesis of N4 macrocycles for catalysis and sensing	OBC fellowship Karnataka Govt
6. Mr. Veeresh Sajjan	2016	Pyrolysed macrocyclic structures for cathode of fuel cell	OBC fellowship Karnataka Govt
7. Mr. Keshavananda Prabhu	2016	Synthesis of substituted N4 macrocycles for biological and electrochemical applications	University SC/ST fellowship
8. Mr. Manjunath	2016	Phthalocyanine analogus for biological and electroanalytical applications	University SC/ST fellowship
9. Mr. Giddaerappa	2018	Phthalocyanine based electrocatalysts for sensing and fuel cell applications	DST-SERB project fellow

10. Mr. Shantharaja	2018	N4-macrocycle based catalysts for OER and HER	University fellowship	SC/ST
---------------------	------	---	-----------------------	-------

#### Membership of Academic bodies

1. American Nano Society
2. Editorial Board Member, Global Journal of Analytical Chemistry, Simplex Academic Publishers
3. Electrochemical Society, 2012-2013.
4. Editorial Board Member, Austin Journal of Analytical & Pharmaceutical Chemistry, Austin Publishers

#### Reviewer of Research Journals:

1. J. Physical Chemistry C, 2. Nanoscale, 3. New Journal of Chemistry, 4. Industrial & Engg Chemistry Research, 5. Electrochimica 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. Journal of Electroanalytical Chemistry

#### Ph.D. Thesis Evaluation:

**Indian: 11**

**Foreign: South Africa-02 Belgium -01**

#### Google Scholar-citation indices

Citations	730
Google h-index	16
i10 index	23

#### Administrative Responsibilities

1. Dec. 2018 to till now, Academic Council Member, Vijayanagara Sri Krishnadevaraya University, Ballari
2. 2015- till now, Director, University Scientific Instrumentation Center (USIC), Vijayanagara Sri Krishnadevaraya University, Ballari, INDIA
3. Nodal Officer, KSET-2018, Vijayanagara Sri Krishnadevaraya University, Ballari, INDIA
4. Co-ordinator, ICT and E-tender from 2017, Vijayanagara Sri Krishnadevaraya University, Ballari, INDIA
5. Co-ordinator, PG Admissions 2018-19, VSK University, Ballari.
6. 2015-16- Chairman, BOE in Chemistry/Industrial Chemistry, Vijayanagara Sri Krishnadevaraya University, Ballari, INDIA
7. 2013-till now, Member, BOS in Chemistry, Vijayanagara Sri Krishnadevaraya University, Ballari; Tumkur University, Tumkur; Govt Science College(autonomous), Hassan.
8. Served as Member, BOE in Chemistry, Vijayanagara Sri Krishnadevaraya University, Ballari; Gulbarga University, Gulbarga; Karnataka state Woman's University, Bijapur; Karnatak University, Dharwad; Mangalore University, Mangalore; Kuvempu University, Shivamogga
9. 2013- till now, Chairman/Member, Affiliation committee, Vijayanagara Sri Krishnadevaraya University, Ballari, INDIA
10. 2012-till now, Member, Department Council, Vijayanagara Sri Krishnadevaraya University, Ballari, INDIA
11. 2013-till now, Examiner, BOE, Mysore University, Mangalore University, Kuvempu University, Gulbarga University, St. Aloysius college, Mangalore, and Karnataka state Woman's University, Bijapur, Davangere University, Bangalore University, Karnatak University, Rani Chennamma university and Tumkur University
12. 2014, Subject expert, Selection of DST project fellow, Bangalore University
13. 2014 to till now, Chairman, Chemical Society, VSK University, Ballari
14. 2015-Subject expert, Chemistry, Appointment/Evaluation of Lecturers, Veerashaiva Educational society, Ballari
15. Member, Advisory committee, NSS programme in 2016-17, VSK University, Ballari

16. Member, Advisory committee, Prasaranga, VSK University, Ballari
17. Custodian, central valuation, VSK University, Ballari-2015-16
18. Nodal officer, Solar campus, VSK University, Ballari
19. Member, DPAR, VSK University, Ballari

#### Conferences conducted/organised

1. Advisory committee Member, National conference organized by Engineering college, Bangalore
2. Coordinator, KSTA sponsored Special PG Lecture Series in Industrial Chemistry held in March 11-12, 2016 at Vijayanagara SriKrishnadevaraya University, Ballari.
3. 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
4. Advisory committee Member, KSTA Conference held at Koppal on 23 and 24 Feb 2018
5. Co-ordinator, KSTA sponsored Special Lecture Series in Chemistry, March 2019.

#### 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 8/04/2015 .
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 , Interdisciplinary 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 n 09/01/2016.
6. Invited Lecture on “Principles of Analytical chemistry” at SBC and SV Science and SVPG college, Humnabad on 6/02/2016 .
7. Invited Lecture on Basic concepts of Chemistry at the work-shop conducted by Department of Chemistry, Gulbarga University. On 4-6 November 2016.
8. Delivered Special talk at “Basics of Analytical Chemistry” at ASM Womens College, Ballari on 31/01/2018
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 16/02/2018.
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 19/02/2018.
11. Chaired a session at KSTA National Conference held at Koppal on 23/02/2018.
12. Delivered Lecture at Dept of Chemistry, Maharani’s Science College, Mysore on 26/03/2018
13. Invited Lecture on “Chromatographic Techniques; Basics , methodology and Applications” delivered at Tumkur University, Tumkur on 27/07/2018
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 19/09/2018.
15. ASM college, Ballari as part of Science day celebrations, 28/02/2019

#### Research Collaborations:

National	International
1. Prof. Muhammed Mustafa, Department of Chemistry, IISER, Pune, India	1. Prof Karolien De Wael, Department of Chemistry, University of Antwerpen, Belgium
2. Dr. Mariappan, Department of Chemistry, SRM University, Chennai, Tamilnadu.	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.

### List of Publications

**International Journals: ~55**

**and National Journals: 0**

Authors	Title	Journal Name	Volume, Page	Year	Impact Factor
1. 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	318, 342-353	2019	5.4
2. Subramanya G., Lokesh K.S., Manjunatha N.	Regioselective Synthesis and biological evaluation of Novel dispiropyrrolidine derivatives Via One-Pot Four-Component Reaction	Molecular Diversity	Submitted		
3. 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	J. Electroanalytical chem..	In press	2019	3.2
4. <a href="#">Mounesh, B S Jilani, Malatesh P., K.R. Venugopala Reddy, K.S. Lokesh</a>	Simultaneous and sensitive detection of ascorbic acid in presence of dopamine using MWCNTs-decorated cobalt (II) phthalocyanine modified GCE	Microchemical Journal	147, 755-763	2019	3.2
5. N. Manjunath, M. Imadaullah, K.R. Venugopala Reddy, K.S. Lokesh	Synthesis and electropolymerization of tetra [ $\beta$ -(2-benzimidazole)] and tetra [ $\beta$ -(2-(1-(4-aminophenyl)) benzimidazole)] embedded cobalt phthalocyanine and their supercapacitance behaviour	Dyes and Pigments	153, 213-224	2018	4.1
6. 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	170, 107592	2019	4.1
7. Veena V, Shivaprasad, K.H, Lokesh K.S., Krupanidhi A.M.	TiO <sub>2</sub> and Pt/Pd doped TiO <sub>2</sub> upconversion nanoparticles for photodynamic biomedical applications.	IOSR Journal of Pharmacy and Biological Sciences	13(5), Ver 3, 1-10	2018	
8. Manjunatha N., Lokesh K., 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	Synth Commun	48, (18), 2441-2451	2018	1.1
9. Subramanya Hegde Gopal, Lokesh Koodlur, Vijayakumar G. Revanasiddappa, Suchetan P. Adimule, Suman Y. Reddy, Atanu Ghoshal, H. Nagabhushana	MgSiO <sub>3</sub> NPs catalyzed intramolecular cycloaddition reaction: A simple and stereo selective synthesis of unprecedented julolidine analogs	Synthetic commun	48(19), 2485-2495	2018	1.1
10. Veeresh A. Sajjan, Imadadulla Mohammed, Manjunatha Nemakal, Shambulinga Aralekallu, Hemanth Kumar KR, <sup>1</sup> Lokesh K.S.	Synthesis and electropolymerization of cobalt tetraamine benzamidephthalocyanine macrocycle for the amperometric sensing of dopamine	J Electroanalytical Chemistry	838, 33-40	2019	3.2

11. Manjunatha Nemakal, Imadadulla Mohammed, Shambhulinga A, Sreenivasa Swamy, Lokesh KS	Novel cobalt(II) octabenzimidazolephthalocyanine: synthesis and its application for amperometric detection of environmental pollutant hydrazine	J Electroanalytical Chemistry	839, 238-246	2019	3.2
12. Subramanya Gopal Hegde, Lokesh KS, Suman Y. Reddy, Manjunatha Narayanarao	MgSiO <sub>3</sub> 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	In press	2019	0.862
13. Keshavananda Prabhu C P, Manjunatha Nemakal, Shambhulinga A, Imadadulla Mohammed, Hemantha Kumar KR, Shivaprasad KH <sup>1</sup> , Lokesh KS	Synthesis and characterization of novel imine substituted phthalocyanine for sensing of L-cysteine	J Electroanalytical Chemistry	230, 834	2019	3.2
14. N. Manjunatha, M. Imadadulla, K.S. Lokesh	Chemisorbed palladium phthalocyanine for simultaneous determination of biomolecules	Microchemical Journal	143, 82-91	2018	3.2
15. M. Imadadullah, N. Manjunath, K.S. Lokesh	Solvent dependent dispersion behavior of macrocycle stabilized cobalt nanoparticles and their applications	New Journal of Chemistry	42, 11364 - 11372	2018	3.1
16. M. Imadadullah, N. Manjunath, Veeresh Sajjan, K.S. Lokesh	Electropolymerized film of cobalt tetrabenzimidazolephthalocyanine for the amperometric detection of H <sub>2</sub> O <sub>2</sub>	J. Electroanal. Chem.	826, 96-103	2018	3.2
17. Shambhulinga Aralekallu, Giddaerappa Kuntoji, Manjunatha Nemakal, Imadadulla Mohammed, Lokesh Koodlur Sannegowda	Self Assembled Monolayers of Reactive Difunctional Molecules on Nickel Electrodes	Surfaces and Interfaces	15, 19-25	2019	
18. 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	90 (21), 12917-12922	2018	6.32
19. 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.	6 (11), 15007-15014	2018	7.140
20. A. Shambulinga, M. Imadadulla, 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	282, 417-425	2019	6.4
21. Ravikumar, Shambulinga, Mruthyunjayachari, Shahi, Alagar Raja, Zahid Bhat, K.S. P.S. Shahid, Lokesh, O.T. Musthafa	A single chamber direct methanol fuel cell	Advanced Materials Interfaces	1700321	2017	4.27
22. 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	ChemElectrochem	4(3), 692-700	2017	3.506
23. Mallikarjun, K.S. Lokesh, K.H. Shivaprasad, K.R. Venugopala Reddy	Extractive Spectrophotometric Methods for the Determination of Metoprolol Succinate in Pure and Pharmaceutical Formulations	Austin J Anal Pharm Chem	3(3), 1070	2016	
24. 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 J Anal Pharm Chem	3(3), 1069	2016	
25. Manjunath K, Lokesh K.S, Vijayakumar G. Revanasiddappa, Subramnaya G H, Susmita K.	Multicomponent synthesis of spiro pyrrolidine analogues derived from vinylindole/indazole by a 1,3-dipolar cycloaddition reaction	Beilstein Journal of Organic Chemistry	12, 2893-2897	2016	2.697
26. K.S. Lokesh, A. Adriaens	Electropolymerised amine containing Palladium phthalocyanine for capacitive applications	Dyes and Pigments	112, 192	2015	4.1
27. K.S. Lokesh, Shambulinga, N. Manjunatha, M. Imadad, M. Hojamberdiev,	Porphyrin macrocycle stabilised gold and silver nanoparticles and their Application in Catalysis of Hydrogen peroxide	Dyes and Pigments	120, 155-160	2015	4.1
28. Q. Liu, K.S. Lokesh, C.	Model Electrode Studies of the Electrostatic Interaction	J. Electrochem.	161,	2014	3.266

Chauvin, W.Sugimoto	between Electrochemically Dissolved Pt Ions and RuO <sub>2</sub> Nanosheets	Soc	F259-F262		
29.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	4, 11367	2014	2.94
30..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	Austin J Anal Pharm Chem	1,1029	2014	
31. 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 ZnIn <sub>2</sub> S <sub>4</sub> Microspheres.	Journal of Hazardous Materials.	278, 572-583	2014	7.65
32. 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	World Journal of Pharmacy and Pharmaceutical Sciences	3(7), 815	2014	
33. K.S. Lokesh	Layer-by-Layer assembly of a water-soluble phthalocyanine on gold. Application to the electrochemical determination of hydrogen peroxide	Bioelectrochemistry	91, 21-27	2013	4.472
34. K.S.Lokesh, A.Adriaens	Synthesis and characterization of tetra-substituted palladium phthalocyanine complexes	Dyes and Pigment	96, 269-277	2013	4.1
35.C.Chauvin, Q. Liu, T. Saida, K.S. Lokesh, T. Sakai, W. Sugimoto	Effect of nanosheet size on activity and durability of RuO <sub>2</sub> nanosheet Pt/C catalyst	Electrochemical Society Transactions	50, 1583-1588	2013	
36. 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	28(32), 11779-11789	2012	3.68
37. K.S. Lokesh, M.D. Keersmaecker, A. Elia, D. Depla, P. Dubruel, P. Vandenebeele, S.V. Vlierberghel, 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	62, 73-82	2012	6.4
38. K.S. Lokesh, M. De Keersmaecker, A.Adriaens	Self assembled films of porphyrins with amine groups at different positions: influence on their orientation on corrosion inhibition and electrocatalytic activity	Molecules	17, 7824-7842	2012	2.416
39. K.S. Lokesh, Karoline de wael, A. Adriaens	Self assembled supramolecular array of polymeric phthalocyanine on gold for the determination of hydrogen peroxide	Langmuir	26(22), 17665	2010	3.6
40. S. Chandra, K.S. Lokesh and H. Lang	Iodide recognition by the N, N-bissuccinamide-based dendritic molecule H <sub>2</sub> C(O)NHC(CH <sub>2</sub> CH <sub>2</sub> C(O)OtBu) <sub>3</sub> ] <sub>2</sub>	Sensors and Actuators B-Chemical	137(1), 350	2009	6.3
41. K.S. Lokesh, Y. Shivaraj, B.P. Dayananda, S. Chandra	Synthesis of phthalocyanine stabilized rhodium nanoparticles and their application in biosensing of cytochrome C	Bioelectrochemistry	75, 104	2009	4.5
42. 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	632(1), 63	2009	5.2
43. K.S. Lokesh, N.S.Venkatanarayanan, S.Sampath	Phthalocyanine macrocycle as stabilizer for gold and silver nanoparticles	Microchimica Acta	167(1-2), 97-102	2009	5.3
44. K.S. Lokesh, N. Uma, B. N. Achar	The microwave-assisted syntheses and conductivity study of a platinum phthalocyanine and its derivative	Polyhedron	28(5), 1022	2009	2.011
45. S. Mitra, K.S. Lokesh, S. Sampath	Exfoliated graphite-ruthenium oxide composite electrodes for electrochemical supercapacitors	J. Power Sources	185(2), 1544	2008	7.5
46.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	110, 11	2008	2.259
47. B.N. Achar, T.M.M. Kumar, K.S. Lokesh	Synthesis, characterization, pyrolysis kinetics and conductivity studies of chlorosubstituted cobalt phthalocyanines	J. Coord. Chem.	60, 1833	2007	2.012
48. 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	353(4), 384	2007	1.766
49. 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	9(12), 872	2005	1.397
50. 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 Spectrometry	243(3), 199	2005	1.972



51. 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	63, 63	2005	2.515
52. B.N. Achar, K.S. Lokesh	Studies on metal (II) tetra-amino phthalocyanines	J. Organomet. Chem.	689, 3357	2004	2.173
53. B.N. Achar, K.S. Lokesh	Studies on polymorphic modifications of copper phthalocyanine	J. Solid State Chem.	177(6), 1987	2004	2.133
54. B.N. Achar, K.S. Lokesh	Studies on phthalocyanine sheet polymers	J. Organomet. Chem.	689(16), 2601	2004	2.173
55. B.N. Achar, G.M. Fohlen, K.S. Lokesh	Degradation study on the thermally stable nickel phthalocyanine sheet polymer	Polymer Degradation and Stability	80(3), 427	2003	3.8

### Research Papers Under preparation/submission

1. K.S. Lokesh and S. Sampath, Langmuir Blodgett monolayers of aminophthalocyanines of Transition metals: Comparative electrocatalytic study, In preparation.
2. K.S. Lokesh, S. Mitra and S. Sampath, Electrochemical Capacitors Based on composites of exfoliated graphite and Macrocycle, in preparation.

### Abstracts of presentations in conferences

Authors	Title	Conference Name	Place	Year
1. S.P. Madhu, G.S. Gopalakrishna, K.G. Ashamanjari, K.S. Lokesh, J. Shashidharaprasad	Hydrothermal synthesis, structure and Ionic conductivity of LiZnHP <sub>2</sub> O <sub>7</sub> and LiSrHP <sub>2</sub> O crystals	8 <sup>th</sup> International symposium on Hydrothermal reactions and 7th International Conference on Solvothermal reactions, ISHR & ICSTR	Sendai, Japan	5-9 August 2006
2. K.S. Lokesh, S. Chandra, A. Nicolai, H. Lang	Dendrimer encapsulated rhodium nanoparticles for amperometric determination of hydrogen peroxide	4th International Meeting on Molecular Electronics, Elecmol 08	Grenoble, France	8-12 December 2008
3. K.S. Lokesh, S. Chardon-Noblat, F. Lafalet, A. Deronzier, C. Gondran, P. Labbé	Patterned monolayer of Rh-Rh coordination polymer wires on mercaptopyrindine gold platform. One step vs layer by layer elaboration and characterizations	Indo-French Workshop on Nanosciences and Nanotechnology	Delhi, India	October 12-14, 2009
4. R.J.H. Morris, M.G. Dowsett, A. Adriaens, K.S. Lokesh, N.R. Wilson	Ultra low energy O <sub>2</sub> <sup>+</sup> SIMS depth profiling of CuPc and Co2Ta monomolecular layers	18th International Conference on Secondary Ion Mass Spectrometry – SIMS XVIII	Riva del Garda, Trento, Italy	18-23 September 2011
5. K.S. Lokesh, C. Chauvin, W. Sugimoto	RuO <sub>2</sub> nanosheet to improve the activity and durability of Pt/C catalyst	6th Asian conference on Electrochemical Power Sources (ACEPS-6)	Chennai, India	5-8 January, 2012
6. C. Chauvin, K.S. Lokesh, W. Sugimoto	RuO <sub>2</sub> ns to enhance the activity and durability of core-shell Pt nanoparticles	Springer Electrochemical society conference	Australia	April 2012
7. K.S. Lokesh, C. Chauvin, W. Sugimoto	Chemisorption studies of Platinum species with RuO <sub>2</sub> nanosheet	6 <sup>th</sup> International Fuel cell workshop 2012 – PEFCs: from Basic Science to Application	Kofu, Yamanashi, Japan	August 2 - 3, 2012
8. D. Takimoto, K.S. Lokesh, C. Chauvin, W. Sugimoto	Improved ORR performance of Pt/C with low Pt loading by modification with RuO <sub>2</sub> nanosheet	6 <sup>th</sup> International Fuel cell workshop 2012 – PEFCs: from Basic Science to Application	Kofu, Yamanashi, Japan	August 2 - 3, 2012
9. K.S. Lokesh, C. Chauvin, W. Sugimoto	Influence and interaction of RuO <sub>2</sub> ns with Pt to increase the durability of the catalyst	Prime	Hawaii, USA	Oct 2012
10. C. Chauvin, T. Saida, K.S. Lokesh, W. Sugimoto	Effect of Nanosheet Size on Activity and Durability of RuO <sub>2</sub> Nanosheet- Pt/C Catalyst	Prime	Hawaii, USA	Oct 2012
11. D. Takimoto, M. Ohuchi, K.S. Lokesh, C. Chauvin, W. Sugimoto	Improvement in ORR Performance of 1-1.5 nm Pt Nanoparticles by Modification with RuO <sub>2</sub> Nanosheets	Prime	Hawaii, USA	Oct 2012
12. C. Chauvin, D. Takimoto, K.S. Lokesh, T. Sakai, W. Sugimoto	Effect of Nanosheet Size on Activity and Durability of RuO <sub>2</sub> Nanosheet- Pt/C Catalyst	The 53 <sup>rd</sup> Battery Symposium in Japan	Fukoka, Japan	Nov 14-16, 2012
13. K.S. Lokesh, C. Chauvin, W. Sugimoto	RuO <sub>2</sub> nanosheet to improve the activity and durability of	International Conference on Nanoscience and	Chennai, India	18-20 March 2013

Sugimoto, K.R.V. Reddy, K.H. Shivaprasad	Pt/C catalyst in PEMFC fuel cell	Nanotechnology (		
14. K.S. Lokesh, A. Adriaens, K.H. Shivaprasad, K.R.V.Reddy	Electrochemically synthesized palladium amine phthalocyanine polymer as supercapacitor	UGC National Seminar on Recent Advances in Chemical Biology	Hassan, Karnataka	15-16 March 2013
15. K.S. Lokesh,	Analytical Chemistry Education in India	Invited Talk, ASIANALYSIS XII	Fukuoka, JAPAN	22-24, August 2013
16. K.S. Lokesh, A. Adriaens	Electropolymerization of amine phthalocyanine as supercapacitor	ASIANALYSIS XII	Fukuoka, JAPAN	22-24, August 2013
17.K.S. Lokesh	Innovative Energy Policies for a Sustainable Future	Invited, TWAS Science and Diplomacy Workshop	Triesty, Italy	9-13 Dec. 2013
18. K.S. Lokesh, C.Chauvin, W.Sugimoto	RuO <sub>2</sub> nanosheet to improve the efficiency of PEMFC	KSTA conf. on Science and Technology for promoting Innovative research and development	Bangalore	20-21, Dec 2013
19.K.S. Lokesh	Material Challenges in device for fuel solar production and employment	Participated, ICTP	Triesty, Italy	19-23 May 2014
20.K.S. Lokesh	Electropolymerised film as supercapacitor	KSTA Regional conference, Bellary	Bellary, India	Jan. 16-17, 2015
21. K.S. Lokesh	Junction materials for photoelectrochemical water splitting	Asian 3 conference	Dalian, China	May 30-31 2015
22.K.S. Lokesh	Chemistry conference, Advisory committee member	Engg college Bangalore	Bangalore	May 2015
23.K.S. Lokesh	National conference on Advances in Spectroscopy-Invited speaker	NMIMS University, Mumbai	Mumbai	15-17 Oct 2015
24 K.S. Lokesh	International Interdisciplinary conference- Invited Speaker/ Session Chair	BRABU University, Muzaffarpur	Bihar	15-17 Dec. 2015
25. K.S. Lokesh	One day workshop on Emerging Trends in Basic Science and Technology-Invited Speaker	BITM Engg College, Ballari	Karnataka	09/01/2016
26. K.S. Lokesh	Invited Lecture on “Principles of Analytical chemistry”	SBC and SV Science and SVPG college, Humnabad	Karnataka	6/02/2016
27.K.S. Lokesh	KSTA National Conference on Impact of Science and Technology	VSK University, Ballari	Karnataka	March 8—10, 2017
28. K.S. Lokesh	KSTA Conference on role of Science and Technology in Rural Development	SG College, Koppal	Karnataka	23-24 Feb 2018
29. K.S. Lokesh	Mechanistic Approaches on efficient photocatalytic systems for solar fuels production	Dalian Institute of Chemical Physics, Dalian	China	June 10-13, 2018
30 K S Lokesh	National Conference on Recent Trends in Materials Research	Shivaji University, Kolhapur, Maharashtra	India	Feb 09, 2019