

Curriculum-Vitae

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Personal Details

Date of birth : January 1, 1979
Nationality : Indian
Languages known : Marathi, Hindi, English, German
Marital status : Married

Carrier Objective

- 1) To develop sustainable research in the field of chemistry and related interdisciplinary areas such as agricultural chemistry, biotechnology, nanosciences, material chemistry and environmental sciences, etc.
- 2) To share the knowledge among the research groups and create interaction between the multidisciplinary branches.
- 3) To develop novel methods in the analytical research and advance technologies.

Highlights

- 1) Good academic record and good research experience in the field of Analytical and material chemistry.
- 2) Novel analytical methods have been developed for extraction and determination of valuable transition metals including silver and gold.
- 3) Have able to write independent research proposals and papers.
- 4) Ten (10) years teaching experience in academics along with good experience to supervising M. Sc. student's projects.
- 5) Sound knowledge to search research papers and articles on Scifinder, Scopus, and Science direct etc.
- 6) Excellent computer skill in chemistry related applications.

Present citation index: 377, h-index; 11, and i10-index; 11 (Google Scholar, 20th May, 2022)

Academic Qualifications

8/2006-11/2011	Ph. D.	Shivaji University, Kolhapur
2004	M. Sc.	Shivaji University, Kolhapur
2001	B. Sc.	Shivaji University, Kolhapur
2013	Certificate Course in German Language	Shivaji University, Kolhapur

Teaching Experience

2011-present	Assistant Professor	Department of Engg. Chemistry, Kolhapur Institute of Technology's, College of Engineering, Kolhapur
2010-2011	Teaching Assistant	Department of Chemistry, Shivaji University, Kolhapur
2009-2011	Contributory Teacher	Department of Agrochemical and Pest Management, Shivaji University, Kolhapur
2007-2009	Lecturer (Full Time on Contract Base)	Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, Kolhapur
2005-2007	Lecturer (Clock Hour Base)	Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, Kolhapur

Research Experience

- ❖ **Post-Doctoral Research Fellowship** (October, 2017-November, 2018) Department of Chemistry, National Tsing Hua University, Taiwan, P.R. China.
- ❖ **Summer Research Fellow** (IAS-INSA-NASI Summer Research Fellowship – 2013; October, 2013-December, 2013), Discipline of Inorganic Materials and Catalysis, CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), Bhavnagar, Gujarat, India: Chemo-selective synthesis of aromatic esters from biomass derived levulinic acid with aromatics using solid acid catalyst.
- ❖ **Ph. D. Research Scholar** (August, 2006-December, 2011); Department of Chemistry, Shivaji University, Kolhapur, India: Synergistic extraction and spectrophotometric determination of some transition metals with derivative of pyrimidine-2-thiol.
- ❖ **Master Degree project** (June, 2003-March, 2004): Department of Chemistry, Shivaji University, Kolhapur, India: Separation of uranium(VI) from associated elements using poly-(dibenzo-18-crown-6) and column chromatography.

Award

- ❖ **‘InSc Young Achiever Award 2019’** by Institute of Scholars (An ISO 9001:2015 certified Institute by International Accurate Certification, Accredited by UASL), Bengaluru-560091, Karnataka, India. (Date: 02/06/2019)
- ❖ **‘Best Young Researcher Award 2019’** by International Academic and Research Excellence Awards (IARE-2019), GISR Foundation, Noida, U.P., India. (Date: 08/06/2019)

Academic Achievement

7. **Listed in the ‘World Scientists and University Ranking-2022’ survey made by AD Scientific Index, 2022.**
6. **Post-Doctoral Research Fellowship** by Ministry of Science and Technology (MOST), P. R. China, (October 2017- November 2018).
5. **“IAS-INSA-NASI Summer Research Fellow-2013” by Indian Academy of Sciences (IASc), Bangalore.**
4. **Second runner up Prize for best poster presentation** at Chinese Environmental Analytical Society Conference organized by Environment Protection Institute, Zhongali, Taiwan on 3-4 May, 2018
3. **Second Prize for research paper presentation (Oral)** at National Level Conference on ‘Sustainable Chemistry: Challenges and Opportunities’, organized by Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Sub-campus Osmanabad, Dist.- Osmanabad on 9-10 Jan.-2012.
2. **Second runner up Prize** in “AVISHKAR 2011-2012”, at District Level, at Department of Chemistry, Shivaji University, Kolhapur, for poster presentation on 23 December, 2011.
1. **Consolation Prize for research paper presentation (Oral)** at State Level Seminar on ‘Recent trends in Analytical Chemistry’ organized by Department of Chemistry, Rayat Shikshan Santha’s, Abasaheb Marathe Arts and New Commerce, Science College, Rajapur, Dist.- Ratnagiri on 8-9 Oct. 2010.

Book/Book article Publication

❖ **Book Author:**

1) **Synergistic Extraction of Coinage Metals**

ISBN: 978-3-659-79724-8 Publisher: LAP Lambert Academic Publishing (02/11/2015)

2) **Extraction of Cobalt and Nickel Metal Ions**

ISBN: 978-620-0-50659-7 Publisher: LAP Lambert Academic Publishing (18/01/2020)

❖ **Book Editor:**

1) **Graphene Oxide: Applications and opportunities**; ISBN 978-1-78923-589-0; Print ISBN: 978-1-78923-588-3; DOI: 10.5772/intechopen.73080; IntechOpen publication, London, United Kingdom (19.09.2018)

2) **Mass Spectrometry - Future Perceptions and Applications**; (ISBN 978-1-83962-757-6; Print ISBN: 978-1-83962-756-9) IntechOpen Publication, London, United Kingdom (13/11/2019)

3) **2D Functional Nanomaterials: Synthesis, Characterization, and Applications** (ISBN: 978-3-527-34677-6), Wiley-VCH (December, 2021)

❖ **Book Articles:**

1) A sensing behavior synergistic liquid-liquid extraction and spectrophotometric determination of nickel(II) by using 1-(2',4'-dinitro aminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol: Analysis of foundry and electroless nickel plating waste water
Book Title: Water Research and Technology: ISBN: 97881-931247-2-7 (10/08/2016), Publisher: Bhumi Publishing Nigave Khalasa, Kolhapur 416207, Maharashtra, India

2) Introductory chapter: Graphene Oxide: Applications and opportunities
Book Title: Graphene Oxide: Applications and opportunities (ID 6802); ISBN 978-1-78923-589-0, Publisher: INTECH publishers, London, United Kingdom (19.09.2018)

3) Graphene Related Materials and Composites: Strategies and Their Photocatalytic Applications in Environmental Remediation.
Book Title: Nanocomposite Materials; ISBN 978-1-80355-619-2, Publisher: INTECH publishers, London, United Kingdom (Publication Date: 4th April, 2022)

Computer Skills

- ❖ Operating System: Microsoft Windows, Linux
- ❖ Software: Basic programming, graphics, ISIS Draw and CHEM Draw, END Note, Origin
- ❖ Passed the Maharashtra State Certificate in Information Technology (MS – CIT) May, 2006

Instrument Handled

- ❖ Field Emission Scanning electron microscope (FE-SEM; JEOL JSM-7000F)
- ❖ Transmission Electron Microscope (TEM; JEOL JEM-2100)
- ❖ Electron diffraction X-ray Spectroscope (EDS; OXFORD Instruments, INCAPentaFETx3, Model 7557)
- ❖ Ultraviolet-visible spectrophotometer (Hitachi U-3300)
- ❖ Ultraviolet-visible spectrophotometer-NIR (Jasco V-570)
- ❖ Ultraviolet-visible spectrophotometer (T60)
- ❖ Time of Flight Secondary Ionization Mass Spectrometry (TOF-SIMS)

Familiar with instruments

HPLC (Agilent Technologies, G1376-60001)-MS (LC/MSD Trap XCT Ultra)
GC (Agilent Technologies 5975C VL MSD)-MS (4552 O-I-Analytical)
Supercritical fluid (CO₂) systems (Spe-ed SFE; Applied Separations USA)
Dynamic light scattering (Zetasizer Nano series Nano-ZS90, Malvern instruments)
Titrator (876 Dosimat plus, Metrohm)
Cyclic voltametry (663 VA Stand, Metrohm)
X-ray diffraction spectrophotometer (XRD; Bruker AXS D2 Phaser)
Photoluminescence spectrofluorometer (HORIBA Jobin Yvon Fluorolog-3)
NMR Spectroscopy (Bruker 400 MHz)
Crystal X-ray diffraction spectrophotometer (Bruker-AXS KAPPA APEX II / 4223 (60kV))

High resolution X-ray photoelectron spectroscopy (HRXPS-PHI Quantera SXM, ΦULVAC-PHI, INC)

Thermogravimetry Analysis/Differential Scanning Calorimeter (METLER TOLEDO)

Co-Curricular Activities

- ❖ **Working as Chief Coordinator of ‘KIT’s Science Academy and Jr. College’ from April 2022 to till today.**
- ❖ Participated as a volunteer in the **Foot Measurement Survey**, as part of the national project on the “**Development of an Indian National Footwear Sizing System**” run by CSIR-Central Leather Research Institute, Chennai under the aegis of DPIIT, Government of India which has been carried out in the premises of KIT’s College of Engineering (Autonomous), Kolhapur, dated on 3rd January, 2022.
- ❖ **Participated in ‘Royal Society of Chemistry (RSC) online discussion, 2-5th October, 2018’ as an invitee speaker and on successful completion and for appreciated suggestion, RSC have offered 50 £ (GBP) as an honorarium payment.**
- ❖ Participated as an artist in photography competition in ‘Art walk 2015’ organized by Art Sprouts conducted at KIT’s, College of Engineering, Kolhapur, on 30th march, 2015.
- ❖ Participated and successfully completed the National Trekking Camp-2013 from Panhala Fort to Pawankhind (47 KM), organized by Hill Rider and Hikers Group Kolhapur dated 27-28 July, 2013.

Successfully worked as,

- ❖ An External Supervisor for Practical Oral Examination for the subject of Engineering Chemistry Lab at Government College of Engineering, Karad (Maharashtra State) dated 11-12 October 2021.
- ❖ **A paper setter for Union Public Service Commission (UPSC), New Delhi, India (02/12/2019/ to 06/12/2019).**
- ❖ An Internal Sr. Supervisor for Theory Examination to Under Graduation, Shivaji University, Kolhapur.
- ❖ An External Sr. Supervisor for Theory Examination to Under Graduation, Shivaji University, Kolhapur
- ❖ A Junior Supervisor for Theory Examination to Under Graduation, Shivaji University, Kolhapur.
- ❖ An Internal and External Examiner to Under Graduate Practical Exam. of Shivaji University, Kolhapur.
- ❖ An Internal and External Practical Expert to Under Graduate Practical Exam. of Shivaji University, Kolhapur.
- ❖ A Junior Supervisor of SET Examination conducted by University of Pune, Pune.
- ❖ A Junior Supervisor, Examiner and Moderator for Theory Examination (June, 2011-present) for Under Graduation (First Year Engineering), Shivaji University, Kolhapur
- ❖ An Excursion Tour in-charge, Test coordinator, Subject coordinator, ERP coordinator for First Year Engineering, KIT’s, College of Engineering, Kolhapur.

Membership

- ❖ Life Member: **Association of Separation Scientist and Technologists [ASSET], BARC, Mumbai (LM-0123).**
- ❖ Life Member: (INSC Id: INSC2019529) Institute of Scholars (An ISO 9001:2015 certified Institute by International Accurate Certification, Accredited by UASL), Bengaluru-560091, Karnataka, India.

Academic Advisory Council Membership

- ❖ Department of General Engineering and Sciences, Sharad Institute of Technology College of Engineering, Yadrav-Ichalkaranji, Maharashtra, India
- ❖ Member of BoS, Department of Basic Sciences and Humanities, Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur, Maharashtra, India
- ❖ Advisory committee member in International Conference of 'International Conference on Energy, Environment and Ethics in Research (IEEE-2019)' held by Yashwatrao Chavan Warana Mahavidyalaya, Warananagar, Maharashtra on 7th February, 2019.
- ❖ Advisory committee member in International Conference of 'International Conference on Recent Developments and Changing Dimensions in Commerce, Humanities and Sciences (RDCDCHS, 2020)' being held by Nya. Tayasaheb Athalye College Arts, Ved. S.R. Sapre Commerce and Vid. Dadasaheb Pitre Science College Devrukh, Dist. Ratnagiri, Maharashtra, India on 28th March, 2020.
- ❖ Member of Advisory Committee for the International Conference on Smart Materials and Nanotechnology (ICSMN-2020) organized by SKN Sinhgad College of Engineering, Korti, Pandharpur-413304, Maharashtra, India during 2-4th January, 2020.

Ph. D. Guide/Supervisor, PG Teacher Recognition

- ❖ Shivaji University, Kolhapur, Maharashtra, India (Date: 22nd June, 2019)
- ❖ Shri Jagdishprasad Jhabarmal Tibrewala University (JJTU) Vidyanagari, Dist - Jhunjhunu - Rajasthan – 330 001
Ref. No.: JJT/2K9/SC/956, dated 14/09/2012 Reg. No.: JJT/2K9/SC/956

Experience of Guiding M. Sc./Ph. D. Research Project

- ❖ M.Sc. Research Projects = 06
- ❖ Encouraging and guiding to UG students for Internship Programme at Taiwan = 03
- ❖ **Ph. D. Guideship = 03 (Ongoing)**

Journal Editorship

- ❖ Editorial Board Member of the “SCIREA Journal of Materials”
<https://www.scirea.org/journal/EditorialBoard?JournalID=43000>
- ❖ Editorial Board Member of the “SCIREA Journal of Chemistry”
<https://www.scirea.org/journal/EditorialBoard?JournalID=15000>

Journal Referee

- ❖ **Publons: Publons Academy graduate (June, 2020)**
- ❖ ACS Sustainable Chemistry & Engineering (ACS)
- ❖ Talanta (Elsevier)
- ❖ Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (Elsevier)
- ❖ Material Letter (Elsevier)
- ❖ RSC Advances (RSC)
- ❖ Separation Science and Purification Technology (Elsevier)
- ❖ Environmental Technology & Innovation (Elsevier)
- ❖ Journal of Materials Science: Materials in Electronics (Springer Link)
- ❖ Clean Technologies and Environmental Policy (Springer Link)
- ❖ Environmental Monitoring and Assessment (Springer Link)
- ❖ Chemical Papers (Springer Link)
- ❖ Journal of The Minerals, Metals & Materials Society (Springer Link)
- ❖ Macromolecular symposia (Wiley)
- ❖ International J. of Environmental Analytical Chemistry (Taylor and Francis)
- ❖ Analytical Chemistry Letter; Taylor and Francis
- ❖ Material Focus (ISSN: 2169-429X (Print); EISSN: 2169-4303 (Online)); American Scientific Publishers
- ❖ Material Research; American Scientific Publishers
- ❖ Journal of Nanoengineering and Nanomanufacturing (ISSN:2157-9326 (Print); EISSN: 2157-9334 (Online)); American Scientific Publishers
- ❖ Advanced Porous Materials; American Scientific Publishers
- ❖ Journal of Analytical Sciences, Methods and Instrumentation (JASMI)
- ❖ RASAYAN Journal of Chemistry (ISSN: 0974-1496 (Print) ISSN: 0976-0083 (Online)) UGC Approved (List No. 1; Sr. No. 272)
- ❖ Material Research (SciELO Publication)
- ❖ InSc:International Journal of Basic and Applied Sciences
- ❖ Journal of Nanomedicine and Nanotechnology, Longdom publishing
- ❖ Reviews in Analytical Chemistry (REVAC) (DE GRUYTER)
- ❖ Egyptian Journal of Microbiology
- ❖ Journal of Solid State Chemistry (Elsevier)
- ❖ Materials Science and Engineering C (Elsevier)
- ❖ Journal of Alloys and Compounds (Elsevier)
- ❖ International Journal of Analytical Chemistry (Hindawi Publication)

Awarded as an Outstanding and Recognized Reviewer by ACS, Elsevier and Springer Link Publications

- 1) **Outstanding Reviewer: Talanta (2015)**
- 2) **Recognized Reviewer: Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2015, 2016)**
- 3) **Recognized Reviewer: Journal of Materials Science: Materials in Electronics (2018)**
- 4) **Recognized Reviewer: ACS Sustainable Chemistry & Engineering (2018)**
- 5) **Recognized Reviewer: Journal of Solid State Chemistry (2020)**

International Scientific Committee Member

- ❖ 3rd International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA 2020) which had been held on November 22-23, 2020 in Beijing, China.
- ❖ 4th International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA 2021) which will be held on December 17-18, 2021 in Xiamen, China.
- ❖ 2nd International Conference on Energy, Power, environment and Computer Application (ICEPECA 2020) which had been held on November 22-23, 2020 in Beijing, China.
- ❖ 3rd International Conference on Modeling, Simulation and Optimization Technologies and Applications (MSOTA 2021) which will be held on December 17-18, 2021 in Xiamen, China

Research Grant

Sr. No.	Title of Project	Grant Sanctioned (Rs)	Funding Agency	Status
1	Development of rapid and selective synergistic extractive spectrophotometric method for determination of valuable metals from e-waste by using of novel pyrimidine-2-thiol extractant	1,50,000	Shivaji University, Kolhapur (Research Initiation Scheme Jan. 2019-Jan. 2021)	Completed

List of Research Publications

2022

30. Sangram B. Kharade, Rajvardhan K. Chougale, Umesh B. Barache, Kallappa R. Sanadi, Kishan C. Rathod, Shashikant H. Gaikwad, Yong-Chein Ling, Mansing A. Anuse, **Ganesh S. Kamble**, Design and optimization of sensitive analytical spectrophotometric method for micro determination of copper (II) from e-waste by using of novel chromogenic extractant, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** **267 (1) (2022) 120502.**

29. Kisan C. Rathod, Kallappa R. Sanadi, Pradip D. Kamble, **Ganesh S. Kamble**, Muddsar L. Gaur, Kalyanrao M. Garadkar, Growth mechanism, structural and Photoelectrochemical study of zinc tellurium thin film, **Asian Journal of Chemistry**, **34(3)**, 2022, 715-719.

28. Kisan C. Rathod, Kallappa R. Sanadi, Pradip D. Kamble, **Ganesh S. Kamble**, Muddsar L. Gaur, Kalyanrao M. Garadkar, Photovoltaic Solar Application Study of Cu_{0.5}Zn_{0.5}Se Thin Films by Chemical Bath Deposition Method, **Materials Research**, **25 (1)**, 2022.

2021

27. Rathod K. C., Kamble P.D., Sanadi K.R., Kamble G.S., Gaur M.L., Garadkar K.M., Synthesis characterization of copper selenide thin films and study of photovoltaic solar applications, **International Journal of Recent Scientific Research**, **12 (7)**, (2021), 42450-42453.

26. Prashant D Sarvalkar, Rutuja R Mandavkar, Mansingraj S Nimbalkar, Kiran K Sharma, Pramod S Patil, **Ganesh S Kamble**, Neeraj R Prasad, Bio-mimetic synthesis of catalytically active nano-silver using Bos taurus (A-2) urine, **Scientific Reports**, **11 (1)**, 2021, 16934.

25. Kisan C Rathod, Pradip D Kamble, Kallappa R Sanadi, **Ganesh S Kamble**, Muddsar L Guar, Kalyanrao M Garadkar, Photovoltaic Application Study of Zinc Telluride Thin Films Grown by Chemical Bath Deposition Method, **Advances in Materials Physics and Chemistry**, **11 (8)**, 2021, 131-144.

24. K. R. Sanadi, P. D. Sanadi, M. L. Gaur, A. V. Mali and **G. S. Kamble**, Optical, electric and morphological studies of β HgS thin film prepared by improved chemical bath deposition technique, **Bulletin of Materials Science, Indian Academy of Sciences**, **44**, 2021, 1-5.

2020

23. **Ganesh S. Kamble**, Yong-Chein Ling, Solvothermal Synthesis of Facet-dependent BiVO₄ Photocatalyst with Enhanced Visible-light-driven Photocatalytic Degradation of Organic Pollutant: Assessment of Toxicity by Zebrafish Embryo, **Scientific Report**, **10**, 2020, 12993.

22. Avinash M. Nalawade, Rekha A. Nalawade, Rajendre V. Shejwal, **Ganesh S. Kamble**, Yong-Chein Ling, Mansing A. Anuse, Development of a reliable analytical method for the precise extractive spectrophotometric determination of cadmium(II) by using of chromogenic reagent: analysis of real samples, **International Journal of Environmental Analytical Chemistry (Accepted, 2020)**, <https://doi.org/10.1080/03067319.2020.1780223>

2019

21. Umesh B. Barache, Abdul B. Shaikh, Sachin A. Deodware, Pratibha C. Dhale, **Ganesh S. Kamble**, Tukaram N. Lokhande, Shashikant H. Gaikwad, Sensitive and selective liquid-liquid extractive spectrophotometric determination of Bismuth(III) from water, pharmaceuticals and synthetic mixtures, **Groundwater for Sustainable Development**, **9**, 2019, 100221.

2018

20. Sunil B. Zanje, Vishal J. Suryavanshi, Arjun N. Kokare, Anita A. Ghare, **Ganesh S. Kamble**, Pravin N. Kamble, Mansing A. Anuse, 2-Nitrobenzaldehyde thiocarbohydrazone assisted precise extraction spectrophotometric method for the determination of ruthenium(III) in alloy and catalysts, **Journal of Analytical Chemistry**, **73** (5), **2018**, 438–451.

19. Kallappa R. Sanadi, Seema P. Patil, Vinayak G. Parale, Hyung-Ho Park, **Ganesh S. Kamble**, Hemraj M. Yadav, Preparation of cobalt substituted zinc aluminium chromite: photocatalytic properties and Suzuki cross coupling reaction, **Journal of Materials Science: Materials in Electronics**, **29**, **2018**, 7274-7286.

18. B. N. Kokare, G. S. Kamble, K. R. Sanadi, R. S. Kamble, and M. A. Anuse, Separation of Gadolinium(III) by solvent extraction using n-n-Octylaniline as an extractant, **Material Focus**, **7** (1), **(2018)**, 83-88.

17. Umesh B. Barache, Abdul B. Shaikh, Tukaram N. Lokhande, **Ganesh S. Kamble**, Mansing A. Anuse, Shashikant H. Gaikwad, An efficient, cost effective, sensing behaviour liquid-liquid extraction and spectrophotometric determination of copper(II) incorporated with 4-(4'-chlorobenzylideneimino)-3-methyl-5-mercapto-1, 2, 4-triazole: Analysis of food samples, leafy vegetables, fertilizers and environmental samples, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy** **189** (2018) 443–453.

2017

16. Umesh B. Barache, Abdul B. Shaikh, Tukaram N. Lokhande, Mansing A. Anuse, **Ganesh S. Kamble**, Vashishtha M. Gurame, Shashikant H. Gaikwad, Acid switched efficient, cost effective, selective separation and determination of selenium(IV), **Journal of Environmental Chemical Engineering** **5** (2017) 4828–4840.

15. A. B. Shaikh, U. B. Barache, T. N. Lokhande, **G. S. Kamble**, M. A. Anuse, S. H. Gaikwad, Expeditious extraction and spectrophotometric determination of palladium(II) from catalysts and alloy samples using new chromogenic reagent, **Rasayan Journal Chemistry**, **10** (3) (2017) 967-980.

14. K. R. Sanadi and **G. S. Kamble**, Novel synthesis of silver ferrite by sol–gel auto combustion method and study of its photocatalytic activity, **Advanced Porous Materials**, **5** (2017) 1-4.

13. **Ganesh S. Kamble**, Sunil S. Joshi, Arjun N. Kokare, Sunil B. Zanje, Sanjay S. Kolekar, Anil V. Ghule, Shashikant H. Gaikwad, Mansing A. Anuse, A sensing behavior synergistic liquid-liquid extraction and spectrophotometric determination of nickel(II) by using 1-(2',4'-dinitro aminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol: Analysis of foundry and electroless nickel plating waste water, **Separation Science and Technology**, **52** (14) (2017) 2238-3351.

2016

12. Balaji T. Khogare, **Ganesh S. Kamble**, Arjun N. Kokare, Sunil B. Zanje, Vishal J. Suryavanshi, Mansing A. Anuse, Pravina B. Piste, Balasaheb N. Kokare, Development of novel solvent extraction method for determination of gold(III) using 4-heptylaminopyridine: Application to alloys and environmental analysis, **Journal of Environmental Chemical Engineering** **4** (2016) 3075–3083.
2015

11. Rekha A. Nalawade, Avinash M. Nalawade, **Ganesh S. Kamble**, Mansing A. Anuse, Rapid, synergistic extractive spectrophotometric determination of copper(II) by using sensitive chromogenic reagent N", N"-bis [(E)-(4-fluorophenyl) methylidene] thiocarbonohydrazide, **Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy**, **146** (2015) 297-306.

2013

10. Anita A. Ghare, **Ganesh S. Kamble**, Mansing A. Anuse, Sanjay S. Kolekar, Development and optimization of analytical method for synergistic extraction and spectrophotometric determination of cadmium(II) by using 1-(2',4'- dinitroaminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol: Analysis of alloys, thin film and biological material", **Journal of Trace Element Analysis**, **2**(1) (2013) 1-20.

9. Ashwini P. Gaikwad, **Ganesh S. Kamble**, Sanjay S. Kolekar, Mansing A. Anuse, "Liquid anion exchange chromatographic extraction and separation of platinum(IV) with n-octylaniline as a metallurgical reagent: analysis of real samples", **Journal of Chemistry**, (2013) 1-9.

8. Leena E. Noronha, **Ganesh S. Kamble**, Sanjay S. Kolekar, Mansing A. Anuse, "Extraction behavior of Zr(IV) using 2-OAP in presence of succinate media: Analysis of real samples," **Indian Journal of Chemical Technology**, **20** (2013) 252-258.

7. Leena E. Noronha, Ganesh S. Kamble, Sanjay S. Kolekar, Mansing A. Anuse, "Extractive separation of Vanadium(V) from succinate medium by solvent extraction using 2-n-octylaminopyridine," **International Journal of Analytical and Bioanalytical Chemistry**, **3** (1) (2013) 27-35.

6. Leena E. Noronha, **Ganesh S. Kamble**, Sanjay S. Kolekar, Mansing A. Anuse, "Recovery of Molybdenum(VI) from hydrochloric acid medium by solvent extraction with 2-n-octylaminopyridine", **International Journal of Chemical Science and Technology**, **3** (1) (2013) 15-24.

2011

5. Balasaheb N. Kokare, **Ganesh S. Kamble**, Balasaheb M. Sargar, Mansing A. Anuse, Development of an reliable analytical method for liquid anion-exchange extraction and separation of Neodymium(III), **The Scientific World Journal**. (December (2011)

4. **Ganesh S. Kamble**, Anita A. Ghare, Sanjay S. Kolekar, Sung. H. Han, Mansing A. Anuse, Development of an reliable analytical method for synergistic extraction and spectrophotometric determination of cobalt(II) using 1-(2',4'-dinitro aminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol: analysis of real samples, **Spectrochimica Acta Part A:Molecular and Biomolecular Spectroscopy 84A (2011) 117-124.**

3. **Ganesh S. Kamble**, Ashwini P. Gaikwad, Sanjay S. Kolekar, Sung. H. Han, Mansing A. Anuse, A rapid and sensitive synergistic extraction and spectrophotometric determination of silver(I) using 1-(2',4'-dinitro aminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol: analysis of real samples, **Industrial and Engineering Chemistry Research 50 (2011) 11270-11279.**

2. **Ganesh S. Kamble**, Sanjay S. Kolekar, Mansing A. Anuse, Rapid synergistic extraction and spectrophotometric determination of copper(II) using 1-(2',4'-dinitro aminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol: Analysis of alloys, pharmaceuticals and biological samples, **Spectrochimica Acta Part A:Molecular and Biomolecular Spectroscopy 78 (2011) 1455-1466.**

2010

1. **Ganesh S. Kamble**, Sanjay S. Kolekar, Sung. H. Han, Mansing A. Anuse, Synergistic liquid-liquid extractive spectrophotometric determination of gold(III) using 1-(2',4'-dinitro aminophenyl)-4,4,6-trimethyl-1,4-dihydropyrimidine-2-thiol **Talanta, 81 (2010) 1088-1095.**

❖ **Proceeding of International conference on Advances in Materials Science: ISBN 978-93-5254-490-5 (7th December, 2016)**

- 1) Influence of Cd substitution on structural and catalytic activity of copper ferrites synthesized by sol-gel auto-combustion method. (Sr. No 46, Page No. 159-161)
- 2) Extraction of ion-pair complex of mercury(II) and octylcyclohexylamine from hydrochloric acid: Analysis of real samples. (Sr. No 49, Page No. 169-174)

Invited Talk/Session Chair/Referee

12. Worked as a 'Session Chair' at 1st International Conference on Recent Trends in Physical, Chemical, Biological Nanosciences (ICRT-PCBNano-2022)' organized by Department of Physics, Chemistry, Life Sciences with IQAC, Lal Bahadur Shastri College of Arts, science and Commerce, Satara, Maharashtra dated on 17-18 May, 2022.

11. Delivered a 'Guest Lecture' titled on, 'Introductory Periodic Table and Research Opportunities in Nanosciences' organized by Department of Chemistry, Smt. Kusumtai Rajarambapu Patil Kanya Mahavidyalya, Islampur, Dist. Sagali for B.Sc. and M.Sc. students under Lead College Scheme of Shivaji University, Kolhapur dated on 2nd May, 2022.

10. Delivered a 'Guest Lecture' titled on, 'Chemistry and Its Importance in Career Development' organized by Department of Chemistry, Doodhsakhar Mahavidyala, Bidri, Dist. Kolhapur for B.Sc. III students dated on 30th April, 2022.

9. Delivered an Invited Talk titled on 'Modern Advances in Research and Development' at 'Online Three Days Faculty Development Programme on Emerging Trends in Chemistry and Research Methodology' organized by K.E. Society's Rajarambapu Institute of Technology, Diploma Department of Science and Humanities in association with ISTE RIT Chapter (MH-084) dated on 18th Feb. 2022.

8. Delivered an Invited Talk titled on 'Interactive Periodic Table' at 'Online Three Days Faculty Development Programme on Emerging Trends in Chemistry and Research Methodology' organized by K.E. Society's Rajarambapu Institute of Technology, Diploma Department of Science and Humanities in association with ISTE RIT Chapter (MH-084) dated on 16th Feb. 2022.
7. Delivered as a Keynote Speaker Talk on 'Graphene Based Nanomaterials: A Sustainable Photo-/Electrocatalyst, Biosensor and Biomedical Material' at 2nd International Conference on Sustainable Manufacturing, Materials and Technologies (ICSMMT 2020) organized by SNS College of Engineering and KPR Institute of Engineering and Technology, Coimbatore, Tamilnadu, India dated on 17-18 July 2020.
6. Worked as a Reviewer in the International Conference on Smart Materials and Nanotechnology (ICSMN-2020) organized by SKN Sinhgad College of Engineering, Korti, Pandharpur-413304, Maharashtra, India during 2-4th January, 2020.
5. Worked as a 'Session Chair' at International Conference on Smart and Intelligent Learning for Information Optimization (CONSILIO-2019)' organized by Department of Computer Science and Engineering, MGM's, College of Engineering and Technology, Noida, U.P. India on 8-9th June, 2019.
4. Worked as a 'Session Chair' at International Conference on Energy, Environment and Ethics in Research (IEEE-2019)' held by Yashwantarao Chavan Warana Mahavidyalaya, Warananagar, Maharashtra, India on 7th February, 2019.
3. Worked as an 'Evaluator for Oral Paper Presentation' at International Conference on Energy, Environment and Ethics in Research (IEEE-2019)' held by Yashwantrao Chavan Warana Mahavidyalaya, Warananagar, Maharashtra on 7th February, 2019.
2. Delivered as an Invitee Talk on, "Research Career: Is it an option for traditional jobs?" delivered in One day workshop on "R & D Opportunities in Biological Sciences" on Thursday, 17th January, 2019 at Department of Microbiology, Shivaji University, Kolhapur, Maharashtra, India
1. Delivered a guest lecture on the topic of 'Instrumentation and Analytical Techniques' at D. D. Shinde, College of Engineering, Gadhinglaj, Dist. Kolhapur, Maharashtra, India on 10th February, 2014.

Academic Workshop/Webinar/FDP

35. Participated in the webinar and Q&A session entitled, 'The journey from metabolomics to mechanisms with mass spectrometry' organized by SelectScience Ltd. Company, UK on 12th August, 2020.
34. Participated in DST and ACS Virtual Workshop on 'Mastering the publishing process' organized by Department of Science and Technology, Government of India and American Chemical Society dated on 28th July, 2020.
33. **Participated in the Five Days Faculty Development Programme (Online) on 'Nanomaterial Characterization Techniques and Results Analysis Methodology: Ideas, Innovations and Initiatives' organized by Faculty Development Centre, UGC-Human Resource Development Centre, Savitribai Phule Pune University and Shikshan Prasarak Sanstha's S. N. Arts, D. J. Malpani Commerce and B. N. Sarada Science College (Autonomous), Sangamner (under the scheme Pandit MadaN Mohan Malaviya National Mission on Teachers and Teaching) dated on 27-31 July, 2020.**

32. Participated the International Workshop on ‘Innovation and Cooperation between The Scientific Community and Business’ (Online) organized by Wrocław University of Science and Technology in partnership with Wrocław Center for Technology Transfer, Wrocław Poland on the day 26th June 2020.
31. Participated the Webinar on ‘Flexible working – Building a better chemistry culture’ (Online) organized by Chemistry World Webinar, RSC, London on 18th June, 2020.
30. Participated the Webinar on ‘Global webinar on Engineering, Science and Technology’ (Online) organized by Baba Institute of Science and Technology, Vishakhapatnam (AP) on 13-14 June, 2020.
29. Participated the ‘One Week Faulty Development Programme’ (Online) on NAAC Assessment and Accreditation (A&A) for Affiliated Colleges’, organized by the Internal Quality Assurance Cell (IQAC), Vinayakrao Patil Mahavidyalaya, Vijapur on 8-13 June 2020 under the U.G.C. Paramarsh Scheme.
28. Participated the Webinar on ‘21st Century: Emerging Technologies in Chemistry’ (Online) organized by the Department of Chemistry, Dr. Zakir Husain College, Ilayangudi, Tamilnadu on 8th June 2020.
27. Participated the Webinar on ‘Sustainable IT in Rural and Remote Environments’ (Online) organized by Department of Management, Mizoram University, Mizoram on 2nd June 2020.
26. Participated the ‘One Week Faulty Development Programme’ (Online) on ‘Usage of ICT Tools for Effective Learning and Evaluation’ organized by Department of Computer Science, St. Joseph’s Degree and PG College, Kingkoti, Hyderabad on 1-5 June 2020.
25. Participated the Webinar on ‘Developing career-oriented skills during pandemic period’ (Online) organized by Department of Applied Science, RPS Group of Institutions, Mahendergarh, Haryana on 30th May 2020.
24. Participated the Webinar on ‘Nano-The Tiny Warrior’- Engineering Nanomedicine and Drug Delivery System’ (Online) organized by Department of Chemistry, Kongu Engineering College, Perundurai, Tamil Nadu on 30th May, 2020.
23. Participated the Webinar on ‘Astronomy and Astrophysics’ (Online) organized by Department of Physics, Karunya Institute of Science and Technology, Coimbatore, Tamilnadu on 29th May, 2020.
22. Participated the ‘One Week Faulty Development Programme’ (Online) organized by RPS Group of Institutions, Mahendergarh, Haryana on 21-27 May 2020.
21. Participated the workshop on ‘Nanomaterial Synthesis is Emerging Facet of the World’ (Online) organized by Late Pushpadevi Patil Arts and Science College, Risod on 20th May 2020.
20. Participated the Webinar on ‘Role of Knowledge Resource Centre of HEI’s in Post COVID-19’ (Online) organized by Department of Library Science and IQAC of Raje Ramrao Mahavidyalaya, Jath, Sangli 16th May 2020.
19. Participated the ‘One Week Faulty Development Programme’ (Online) on ‘Advanced Topics in Chemical Sciences’ organized by Post Graduate Department of Chemistry, Nallamuthu Gounder Mahalingam College, Pollachi Tamilnadu on 15-21 May 2020.
18. Participated in the webinar and Q&A session entitled, ‘Secondary ion mass spectroscopy workshop: Sensitive compositional analysis at the micro- and nanoscale’ organized by SelectScience Ltd. Company, UK on 5th May, 2020.

17. One day 'NCTU and IIT Delhi joint workshop on Advanced Functional Materials' organized by Department of Material Science and Engineering, National Chiao Tung University, Taiwan, on 5th October, 2018.
16. One day training workshop on 'Flow Cytometry and Cell Sorter Workshop, 2018 (Theoretical and practical)' by Biomedical Science and Engineering Center, National Tsing Hua University, Taiwan, on 2nd October, 2018.
15. Two days' 'Taiwan-Japan-US Joint Workshop on Energy Materials for Sustainable Development' organized by College of Engineering, National Chiao Tung University, Taiwan, on 3-4 September, 2018.
14. One day training workshop of '2018 Caliper I.V.I.S. spectrum (Theoretical and practical)' by Biomedical Science and Engineering Center, National Tsing Hua University, Taiwan, on 24th January, 2018.
13. ISTE approved Two days' workshop on "Institutional Development through Research" organized by Departments of Production and Mechanical Engineering, KIT's, College of Engineering, Kolhapur, held on 1st and 2nd April, 2017.
- 12. UGC-HRDC, Savitribai Phule Pune University, Pune approved 'Four Week's Orientation Programme' organized by Department of Technology, Shivaji University, Kolhapur, from 02/12/2016 to 29/12/2016**
- 11. Two Week ISTE Short Term Training Programme (STTP) on Technical Communication 8th Oct.-5th Dec. 2015, IIT Bombay under the national Mission Education through ICT (MHRD, Govt. of India)**
- 10. Two Weeks AICTE sponsored workshop on 'Recent Development in Bioprocess Technology Opportunities' organized by Department of Biotechnology, KIT's, College of Engineering, Kolhapur, held 3-13 June, 2015.**
9. One day workshop on 'Nuclear Chemistry is clean source of Energy', organized by Department of Chemistry, Yashwantrao Chavan Institute of Science, Satara, held on 8th Oct. 2012.
8. One day workshop on 'Modern Techniques in Teaching-Learning process and Pedadology', organized by ISTE chapter KIT's college of Engineering, Kolhapur, held on 10th July, 2012.
- 7. Two days Awareness Workshop of UGC-DAE Consortium for Scientific Research organized by UGC-DAE Consortium for Scientific Research, Mumbai Centre and GITAM Institute of Science, GITAM University held at GITAM Institute of Science, GITAM University, Visakhapatnam on June 26-27, 2012.**
6. One day workshop on 'Chemistry in our lives', organized by National Chemical Laboratory, Pune, held on 23rd Sept. 2011 on the occasion of International Year of Chemistry-2011.
5. One day workshop on 'Chemistry in our lives', organized by Department of Chemistry, Shivaji University, Kolhapur, held on 26th August, 2011, on the occasion of International Year of Chemistry-2011.
4. '7th University Industry Council Symposium', organized in 5th and 6th August 2010, Shivaji University, Kolhapur.

3. 'Workshop on Analytical Instrumental Techniques', organized by, University Science Instrumentation Centre (USIC), Shivaji University, Kolhapur, 3-5 June 2008.
2. 'Workshop on Atomic Structure and Chemical Bonding', jointly organized by Shivaji University, Kolhapur and Pune University, Pune, March 11-12, 2006.
1. 'Faculty Development Workshop', conducted by ICFAI National College, Kolhapur, on 22 Nov. 2006.

Academic Seminars/Conferences

- Worked as a Sincere Volunteer in 7th University Industry Council Symposium, organized in 5th and 6th August 2010, Shivaji University, Kolhapur.
- Participated/Presented a research paper at,

1) State Level

- 4) 'Nuclear Chemistry' organized by Department of Chemistry, Rayat Shikshan Santha's, Yashwantrao Chavan Institute of Science, Satara, on 6th Oct. 2012.
- 3) 'Recent trends in Analytical Chemistry' organized by Department of Chemistry, Rayat Shikshan Santha's, Abasaheb Marathe Arts and New Commerce, Science College, Rajapur, Dist.- Ratnagiri on 8-9 Oct.2010.
- 2) 'Recent Advances in Chemistry', organized by Department of Chemistry, Sonopant Dandekar Arts, V. S. Apathe Commerce and M. H. Mehta Science college, Palghar, Dist.- Thane on 19-20 Feb. 2010.
- 1) 'Solvent Extraction of Copper', organized by the S. P. Mandal's Dalit Mitra Kadam Guruji Science and Arts College, Mangalwedha, Dist.- Thane, on 3-4, May 2009.

2) National Level

- 23) One Day National Conference on 'Recent Trends in Chemical Sciences' (RACS-2022), organized by School of Chemical Sciences, Punyashlok Ahilyabai Holkar Solapur University, Solapur dated on 28th April, 2022.
- 22) National Conference on Materials and Environmental Science (NCMES-2017), organized by Shri Yashwantrao Patil Science College, Solankur, Tal.: Radhanagari, Dist.: Kolhapur, on 15th Feb., 2017.
- 21) National Conference on Innovative Research in Chemical Sciences, organized by Department of Chemistry, Shivaji University, Kolhapur, on 1st and 2nd Feb., 2017.
- 20) National Seminar on Application of chemical and material science for sustainable development, Department of Chemistry, Shivaji University, Kolhapur, on 20th Feb., 2016.
- 19) UGC (WRO) Sponsored National Seminar on Recent Trends in Analytical Chemistry, organized by Department of Chemistry, Arts, Commerce and Science College, Satral, Tal., Rahuri, Dist., Ahmednagar, on 30-31 August, 2014.
- 18) UGC-SAP-DRS-II Sponsored National Symposium on Current Trends in Chemical and Nano Sciences (CTCNS-2014), organized by Department of Chemistry, Shivaji University, Kolhapur, on 17-18 January, 2013.
- 17) National Conference on Frontiers in Chemical and Biological Sciences (FCBS-2013), organized by Department of Chemistry, Padmabhushan Dr. Vasantarao Patil Mahavidyalaya, Tasgaon, Dist. Sangli, on 16-17 September, 2013.

- 16) National Conference on Drug Designing and Discovery (DDD-2013), organized by Department of Chemistry, Devchand College, Arjunnagar, on 7-8 September, 2013.
- 15) National Conference on Current Research in Chemical Sciences, organized by Department of Chemistry, Shivaji University, Kolhapur, on 22-23 January, 2013.
- 14) 2nd National Seminar on, "Physics of Materials and Materials Based Device fabrication 2013" held at Department of Physics, Shivaji University, Kolhapur on 4-5 January 2013.
- 13) "National Seminar on Recent Advances in Synthetic Chemistry and Nanomaterials" organized by Department of Chemistry, Shivaji University, Kolhapur, on 21-22 January, 2012.
- 12) National Conference on 'Sustainable Chemistry: Challenges and Opportunities', organized by Department of Chemistry, Dr. Babasaheb Ambedkar Marathwada University, Sub-campus Osmanabad, Dist.- Osmanabad on 9-10 Jan.-2012.
- 11) National Seminar on, "Physics of Materials and Materials Based Device fabrication" held at Department of Physics, Shivaji University, Kolhapur on 17-18 January 2011.
- 10) National Seminar on, "Nanomaterials and its Applications (NAMA-11)" organized by Department of Chemistry, Walchand College of Arts and Science, Solapur on January 28-29, 2011.
- 9) National Conference on "Advances in Synthetic Methodologies and New Materials (ASMNM-2011)" held at Department of Chemistry, Shivaji University, Kolhapur on 21-22 January 2011.
- 8) National Seminar and Exhibition on, "Emerging Trends in Renewable and Nonrenewable Energy Technologies", organized by Department of Energy Technology, Shivaji University, Kolhapur, on 22 Oct.2010.
- 7) National Seminar on, "Emerging Trends in Chemistry" organized by Department of Chemistry, Rayat Shikshan Santha's, Yashwantrao Chavan Institute of Science, Satara, on 14-15 Oct. 2010.
- 6) National Seminar on, "Environment Pollution and Monitoring" organized by Changukana Thakur, Arts, Science and Commerce College, New Panwel, on 17-18 September 2010.
- 5) National Seminar on, "Advances in Coordination Chemistry" organized by Department of Chemistry, Rayat Shikshan Santha's, Rajarshi Chatrapati Shahu College, Kolhapur, on 17-18 August 2010.
- 4) National Seminar on, "Advanced Materials-2010", organized by Department of Physics, Shivaji University, Kolhapur, on 19-20 Mar. 2010.
- 3) "Advanced Synthetic Methodologies and Functional Materials-2009", organized by Department of Chemistry, Shivaji University, Kolhapur, 23-24 Dec. 2009.
- 2) "Recent Trends in Thin Film Technology (RTTFT-08)", organized by Walchand College of Arts and Science, Solapur, on 14-15 Nov. 2008.
- 1) "Synthesis of New Materials for Industrial Applications", organized by Department of Chemistry, Shivaji University, Kolhapur, on 1-2 Feb. 2008.

3) International Level

- 12) One day International Conference on 'Reflection of Human Values through Humanities, Commerce, Science and Technology, organized by Arts, Commerce and Science College Pauls Dist. Sangli on 15th June 2020.

- 11) Fifth International Conference on Advances in Materials Science (Online) (ICAMS - 2020) organized by Post-Graduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath Dist – Sangli, Maharashtra, India on 6-7th June 2020.
- 10) Chinese Environmental Analytical Society conference organized by Environment Protection Institute, Zhongali, Taiwan on 3-4 May, 2018.
- 9) International Conference on Contemporary Research in Chemical and Life Sciences (ICCRCLS-2015), organized by Sadguru Gadage Maharaj College, Karad on 22-23 April, 2015.
- 8) ‘IInd International Conference on Emerging Trends in Chemical Sciences’ organized by School of Chemical Sciences at Solapur University, Solapur on 22-24 November, 2012.
- 7) ‘International Conference on Emerging Trends in Separation Science and Technology (SESTEC-2010), organized by BARC, Mumbai at SVKM’s Mithibai College, Mumbai on 27 Feb.-1 Mar. 2012.
- 6) 1st International Conference on Physics of Materials and Materials Based Device Fabrication (ICPM-MDF-2012), organized by Department of Physics, Shivaji University, Kolhapur on 17-19 January, 2012.
- 5) ‘International Conference on Emerging Trends in Separation Science and Technology (SESTEC-2010), organized by Indira Gandhi centre for Atomic Research, Kalpakkam on 1-4 Mar. 2010.
- 4) ‘International Conference on Emerging Trends in Chemistry’, organized by Department of Chemistry, University of Pune, Pune, on 5-7 Jan. 2010.
- 3) ‘International Conference on Nanomaterials and Applications-2008’, organized by Department of Chemistry, Shivaji University, Kolhapur, on 9-11 Dec. 2008.
- 2) ‘International Conference on Advanced Materials and Applications-2007 [ICNAMA-2007], organized by Department of Physics, Shivaji University, Kolhapur, on 15-17 Nov. 2007.
- 1) ‘International Conference on Emerging Trends in Chemical Sciences [ICETCS- 2007]’, organized by Department of Chemistry, University of Mumbai, on 23-25 Jan. 2007.

References:

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<p>3) Prof. Ling, Yong-Chien Department of Chemistry, National Tsing Hua University, Taiwan, P. R. China Email: ycling@mx.nthu.edu.tw Phone: +886-3-5721484</p>	<p>4) Prof. S. S. Kolekar Department of Chemistry, Shivaji University, Kolhapur – 416 004, India Brain Pool Korea-Fellow (S. Korea) Email: sskolekar@gmail.com Phone: +919423260799</p>
<p>5) Dr. Pradip Sarawade Assistant Professor, Department of Physics, University of Mumbai, Mumbai Alumini: Post-Doctorate Researcher KAUST, Catalysis Center, King Abdulha University of Science and Technology, KSA Email: pradipsarawade@yahoo.co.in pradip.sarawade@physics.mu.ac.in</p>	