



BIO – DATA

1. **Name** : Prof. Dr. Kapadnis Kailas Haribhau
2. **Designation** : Professor and Head Department of Chemistry,
L.V.H. College, Panchavati, Nashik – 3
3. **Address** : 210 A+B/43. “Shripad” Behind Pokar Colony
Dindori Road, Nashik – 4.
4. **Contact No.** : Mob : 9423476111
Resi. : (0253)2532583.
Email address : khkapadnis@yahoo.co.in &
khkapadnis@gmail.com
5. **Birth Date** : 22/08/1965
6. **Sex** : Male
7. **Nationality** : Indian
8. **Caste Category** : Hindu -Kunbi (O.B.C.)
9. **University Body** : Member of Board of studies in chemistry and
Member 32/5 examination pune University till
31/08/2015.
10. **Date of Appointment** : 11/07/1988
11. **Teacher Approval Letter** : CCO-116, 27th Jan 1989.
NO. & date : CCO-1661, 22nd May 1993.
Professor Approval Letter : CCO-636, 30th March 2017-.
Promoted as Professor : **05/01/2017**
P.G. Recognition : BUTR/SCI-2219-45. 29/08/2008

12. Recognized Ph.D. Guide of :-

- 1) **University of Pune:**
BUTR /Science-421. Date 26/03/2013 for the period 08/05/2012- 07/05/2020.
- 2) **North Maharashtra University Jalgaon.**
NMU/11/PGR/Chem/2329/2013. From Date 13/11/2013.
- 3) **Shri Jagdishprasad Jhabarmal Tibrewala University**
Dist.: Jhunjhunu Rajasthan: Reg. No. JJT/2K9/SC/1197.
From date 22/03/2013.

Ph. D. Students Registered= 07, 05-SP Pune University & 02-North Maharashtra University

13. Member Editorial Advisory Board of “Indian Journal of Research Studies in Pure and applied sciences ISSN 2321-1695.

14. Awards:

- 1) Best teacher award by Panchavati sarvajanic vachanalaya on 05/09/2012
- 2) National level Best teacher Samajik prabodhan award by Yuva Shakti Samjik Sanstha Nasik on 23/12/2012.
- 3) “Samata fellowship award” for social services from Yuva Shakti Samjik Sanstha Nasik on 07/12/2013.

15. Educational Qualification:-

Sr. No.	Exam.	Board/University	Subject	Year	Percentage	Class
1	B.Sc.	Pune University	Chemistry	Apr. 1986	72.72%	Distinction
2	M.Sc.	Pune University (Dept. of Chemistry)	Inorganic Chemistry	Apr. 1988	63.00%	First Class
3	Ph. D.	Pune University	Solution Chemistry	26 Mar. 2008	-	-
4	84 -Articles Published 41 - Research Articles with impact factor more than 2	23- research articles with impact factor more than -5	Chaired a session in 2-international and one national conferences, presented no. of research articles in international and four national conferences.		3- Text Books of S.Y.B.Sc. Chemistry and 01- of T.Y.B.Sc. for S.P. Pune University	Conferences 7 -International, 16 -National, Conference 15 -state level and 23 -university level 3 -International reference books and 04 - Text books

Topic of Ph.D. Thesis:-

“Volumetric and viscometric studies of Glucose, Sucrose, Fructose and

Maltose in NaCl, NaBr, KCl and KBr at various temperatures.” Awarded on 26/03/2008 by University of Pune, Maharashtra, India.

Patent: Patent filed, file no.:201921032508A, Date of application:10/08/2019, Date of publication : 10/11/2019, Title: Methods for preparation of perovskites $Mn_2 CeO_6$ Nanoparticles.

Ph.D. Thesis evaluation: evaluated a thesis from JJTU Rajasthan entitled” Synthesis, Characterization, Spectral Analysis & Pharmacological Evaluation Of Different 1,4-Naphthoquinone Derivatives And Their Metal Chelates” May-2020.

Articles Published:

- 1) “A study of partial molar volumes of R_4NCl in 40 mass % aqueous Methanol at various temperatures”. International journal *Acta Cincia Indica*(UGC No.605) Vol XXXIII, C No.2,165(2007) ISSN NO.0253-7338.
- 2) “Density and Viscosity studies of glucose solutions in water and in aqueous NaCl, NaBr, KCl and KBr solutions at 298.15, 303.15, 308.15 and 313.15K”. J. Indian Chem. Soc(UGC No.230). Vol.85, 1089-1092(November 2008).(I.F. 0.384) ISSN: 0019-4522.
- 3) Volumetric and viscometric studies of sugar solutions in aqueous NaCl and NaBr at 298.15K. International journal *Acta Cincia Indica*(UGC No.605)Vol XXXIV C, No.3,513(2008). ISSN NO.0253-7338.
- 4) Densities and Partial Molar volumes of Fructose and Sucrose in water and 0.05M (NaCl, NaBr, KCl and KBr) aqueous solutions at 303.15K. Physical chemistry an Indian journal of Trade science Inc (UGC No.48319). Vol. 4, 2 (2009) (I.F. 0.835) ISSN 0974 - 7524.
- 5) Photoconductivity study as a function of thickness and Composition of Zn-Te thin films for different illuminated conditions at room temperature. *OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMMUNICATIONS*(UGC No.36542) Vol. 4, ISS.3, March 2010, p. 291-294.(I.F.0.402) ISSN: 1040-5488. Peer reviewed (indexed)
- 6) “Studies on toxicity of endosulfan on edible fresh water fish species *Nemacheilus botia*” International journal *Environmental Conservation Journal* (UGC No.11069).12 (1&2)1-4, 2011.(I.F. 0.58) ISSN: 0972-3099. Peer reviewed (indexed)
- 7) Densities and Partial Molar Volumes of Fructose in Water and 0.05 M (NaCl, and KCl) Aqueous Solutions at 313.15 K. Presented at ICCT-2010 International conference Tsukuba science city, Japan.
- 8) “Effects of an insecticide endosulfan on protein content of edible fresh water fish *Nemacheilus botia*” presented in international conference held at Department of Zoology & Environmental Science, Gurukula Kangri Vishwavidyalaya, Haridwar.
- 9) “Study of Structure-Making/Breaking Properties of Glucose, Fructose, Sucrose and Maltose in Aqueous KCl at various Temperatures”. International journal of *chemical science*

transaction(UGC No.47152). 2(2) 2013, 485-490.ISSN: 2278-3458 (indexed),ICV 5.59 ,(SJIF 2013 : 3.727) Peer revied (indexed).

- 10) “Density and Viscosity Studies of Fructose Solutions in Water and in aqueous NaCl NaBr, KCl and KBr solutions” (ISSN: 2278-6783) Article CS282043042 vol-1, issue-4, 2013 pages 436-438. *In chemical science review and letters an international journal*(UGC No.45864). (Indexed). (I.F.4.014) Peer revied (indexed).
- 11)” phisico-chemical study of aqueous solutions of fructose in the absence and presence of 0.5 m nacl and 0.5m kcl at 298.15 K” (ISSN: 2249-3905) Volume 3, Issue 5 (May 2013) in *International journal of research in engineering and applied sciences* (UGC No.48285).(I.F. 7.196). (Indexed), REFERRED).
- 12) Volumetric and viscometric studies of Glucose, Fructose, Sucrose and Maltose in Aqueous KCl, *Indian streem research journal* Volume 3, Issue- 2, 485-490,(March 2013) (ISSN: 2230-7850) .(U.I.F.3.1560) (indexed) peer reviewed referred.
- 13) Study of structure modifying properties of sugars in aqueous KBr at 298.15, 303.15, 308.15 and 313.15 K” ELECTRONIC JOURNAL OF CHEMISTRY An International Peer reviewed Journal, Volume 01/Issue 2/ NOV.2013.PP58-63. (ISSN: 1984-6428). (I.F. 0.2692) (IC value 5.09) (Indexed) peer reviewed referred.
- 14) “Effects of an insecticide endosulfan on protein content of edible fresh water fish *Nemacheilus botia*” Chapter 35,Environmental Biotechnolodgy,2013. Pages 289-296. ISBN No.9788176222730.
- 15) “Density and viscosity studies of Sucrose solutions in water and in aqueous NaCl, NaBr, KCl and KBr solutions at various temperatures.” Presented at International conference on global opportunities for latest development in chemistry and technology-2014(GOLD-CT-2014), N.M.U Jalgaon.6-8 feb 2014.
- 16) “Study of structure modifying properties of glucose, fructose, sucrose and Maltose in aqueous KBr at various temperatures”. Presented at national conference on “Advanced Analytical Techniques in chemistry and pharmacy” at M.S.G. College Malegaon camp.Nashik.8-9 OCT 2013.
- 17) “solvent structure modifying properties of glucose, fructose, sucrose and Maltose in aqueous NaCl at various temperatures”. Multilingual international referred journal *Information and research trends*” (ISSN 2320- 2327), Page 160-171.Vol-2, Issue-1, Feb2014. Peer reviewed referred.
- 18) “Analysis of Inorganic Constituents from Cosmetic Product” Multilingual international referred journal *Information and research trends* (ISSN 2320- 2327), Page 56-63.Vol-2, Issue-1, Feb2014. Peer reviewed referred.
- 19) “ Study of structure modifying properties of Sucrose and Maltose solutions in water and in aqueous NaBr and KBr solutions at various temperatures” *World journal pharmacy and*

pharmaceutical sciences(UGC No.48793) Vol.3, Issue7, pp1402-1408. (**I.F. 6.647**). ISSN 2278-4357, ICV 5.76 July 2014. **Peer reviewed referred.**

- 20) “ Effects on glycogen content of edible fresh water fish nemacheilus botia exposed to insecticide Endosulfan” international conference at malpani college sangamner international journal of Advances in Management, Technology &Engineering sciences(47955) Vol.3,Issue9(2),pp21-25, ISSN 2249-7455. June 2014.
- 21) “Study of molar refraction and Polarisability constant of aqueous Solution of KCl and KbrO₃ at temperature 298.15 K”. International Research journal, special issue on “Advance analytical techniques” vol:1, Issue: 3(Dec-2014), ISSN: 2350-0905.PP78-85.
- 22) “Structure modifying properties of solvent by sugars in aqueous NaBr at 298.15,303.15,308.15 and 313.15K” International journal of pharmaceutical research and development(UGC list no.23327)(Ijprd) vol-6,Issue-12,(Jan-2015), ISSN: 0974- 9446,PP61-67. (**Impact Factor 2.01**) (**Indexed**). **Peer reviewed referred.**
- 23) “Analysis of protein in milk products with the kjeldahl nitrogen analysis” International journal of pharmaceutical research and development (UGC list no.23327) (Ijprd) vol-6,Issue-12,(Jan-2015),ISSN:0974- 9446,PP61-52-56. (**Impact Factor 2.01**) (**Indexed**). **Peer reviewed referred.**
- 24) “Identification and estimation of Iron from black tea sample by simple laboratory Techniques” International journal of pharmaceutical research and development(UGC list no.23327) (Ijprd) vol-6,Issue-12,(Jan-2015), ISSN:0974- 9446,PP47-50. (**Impact Factor 2.01**) (**Indexed**). **Peer reviewed referred.**
- 25) “Estimation of calcium from fresh milk samples by volumetric method” International journal of pharmaceutical research and development (UGC list no.23327) (Ijprd) vol-6,Issue-12,(Jan-2015), ISSN:0974- 9446,PP144-146. (**Impact Factor 2.01**) (**Indexed**). **Peer reviewed referred.**
- 26) “A STATISTICAL STUDY OF INSECTICIDAL POISONING IN NASIK REGION COMPARATIVE STUDIES”. World Journal of Pharmaceutical Research (UGC list no.47332), Volume 4, Issue 2, PP946-951. ISSN 2277– 7105(**Impact Factor 7.523**) (**Indexed**). **peer reviewed referred.**
- 27) “Development of Method for Determination of Pesticide Residues from Chilly and Ladyfinger by Using HPLC and GC-MS” An International Journal of Chemical and Physical Science (UGC list no 48283) Vol. 4, NCSC-Jan 2015, ISSN: 2319-6602 PP 337-341(**Impact Factor 3.799**). (**Indexed**). **Peer reviewed referred.**
- 28) “Synthesis, Characterization& Antimicrobial Activity of Mixed Metal Oxides Of Iron, Cobalt, Nickel and Zinc. An International Journal of Chemical and Physical Science (UGC list no 48283) Vol. 4, NCSC-Jan 2015, ISSN: 2319-6602 PP-357-360(**Impact Factor 3.799**). (**Indexed**). **Peer reviewed referred.**
- 29) “Identification, Isolation and Characterization of Bacterial Extracellular Pectinases.” Scholars World - International Refereed Multidisciplinary Alkaline Journal

Of Contemporary Research, vol-3 February. 2015 ISSN: 2319-5789 PP62-67 (SJ Impact Factor 3.552). (Indexed). Peer reviewed referred.

- 30) "Impact of Folicure on Protein alteration in fresh water snail *Lymnea auricularia*". Scholars World - International Refereed Multidisciplinary Journal Of Contemporary Research, vol-3 February. 2015 ISSN: 2319-5789 PP-54-57 (SJ Impact Factor 3.552). (Indexed) peer reviewed referred.
- 31) "Estimation of metals like Zn, Ni, Cd, and Fe from "tobacco" (1) and "panmasala" (2) by spectral analysis: a review" International Journal of Current Research" Dr. Kapadnis, Mr. Koli P.B., ISSN:0975-833X Vol.7,Issue, 06,pp.17144-17148, June, 2015(SJ Impact Factor 5.349). (Indexed) peer reviewed referred.
- 32) "Isolation, screening and optimization of microorganism producing amylase" World journal of pharmacy and pharmaceutical sciences (UGC No.48793), Dr. Kapadnis, Miss Patil V. B. and Dr. Patil A.P. World journal of pharmacy and pharmaceutical sciences, Vol. 4, Issue 07,pp- 1415-1425. July, 2015, ISSN 2278-4357, ICV 5.76 (SJ Impact Factor 6.647). (Indexed) peer Reviewed referred.
- 33) Identification and Estimation of Manganese from black tea samples by spectrophotometric technique, Proceedings National conference on "Innovative research techniques in chemical and Physical sciences-IRTCPS-2015, Vol-5, ISBN-978-81-923917-0-3. PP-14-18.
- 34) Magnesium Estimation from fresh milk samples by a simple volumetric Method, Proceedings National conference on "Innovative research techniques in chemical and Physical sciences-IRTCPS-2015, Vol-5, ISBN-978-81-923917-0-3. PP-26-28.
- 35) Density and viscosity study of sucrose and maltose in aqueous KBr 308.15 and 313.15K., Proceedings National conference on "Innovative research techniques in chemical and Physical sciences-IRTCPS-2015, Vol-5, ISBN-978-81-923917-0-3. PP-109-113.
- 36) Heavy metals analysis Study by EDS from Ayurvedic antacids drugs International Journal of Research in Engineering and Applied Sciences (UGC No.48285), Dr. Kapadnis, Koli P.B.,Dr. Hiray A.P., Dr.Jagadale B.S.and Dr.Patil A.P. (ISSN 2249-3905) Vol. 5, Issue 08, Aug 2015, pp- 67-75. (SJ Impact Factor 7.196). (Indexed). Peer reviewed referred.
- 37) "Structure-modifying properties of glucose and fructose in aqueous KBr and NaCl at 298.15 and 313.15K a study" World journal of pharmacy and pharmaceutical sciences, (UGC No.48793) Dr. Kapadnis Volume 4, Issue 10, pp-1061- 1068, oct, 2015, ISSN 2278-4357, ICV 5.76 (SJ Impact Factor 6.647). (Indexed) peer Reviewed referred.
- 38) "Analysis of Iron and Copper from Wine samples" World journal of pharmacy and pharmaceutical sciences, (UGC No.48793), Dr. Kapadnis, Volume 4, Issue 10, pp- 2229-2233, Oct, 2015, ISSN 2278-4357, ICV 5.76 (SJ Impact Factor 6.647). (Indexed) peer Reviewed referred.
- 39) "Detection and Determination of Fe and Mn from tea samples using different techniques" World journal of pharmacy and pharmaceutical sciences(UGC No.48793), Dr. Kapadnis, Volume 4,

Issue 11, pp-1457-1463, Nov, 2015, ISSN 2278- 4357, ICV 5.76 (SJ **Impact Factor 6.647**).
(Indexed) peer Reviewed referred.

- 40) “Identification and Estimation of Cobalt from Arogyawardhini Vati samples by spectrophotometric technique” World journal of pharmacy and pharmaceutical sciences(UGC No.48793), Dr. Kapadnis , Jadhav K.K. and Dr. Patil A.P., Volume 4, Issue 11, pp-1493-1498, Nov, 2015, ISSN 2278-4357, ICV 5.76 (SJ **Impact Factor 6.647**). **(Indexed) peer Reviewed referred.**
- 41) “Magnesium and Calcium Estimation from fresh milk samples in Nashik region by a simple method.” World journal of pharmacy and pharmaceutical sciences(UGC No.48793), Dr. Kapadnis, Volume 4, Issue 12, pp-793-797, Dec. 2015, ISSN 2278-4357, ICV 5.76 (SJ **Impact Factor 6.647**). **(Indexed) peer Reviewed referred.**
- 42) “DETERMINATION OF RESIDUAL PESTICIDES BY USING GC TECHNIQUE FROM GUAVA AND POMEGRANATE”. World journal of pharmacy and pharmaceutical sciences (UGC No.48793), Dr. Kapadnis , Mr. R. K. Sonawane and Dr. Patil A.P. Volume 4, Issue 12, pp1054-1063, Dec., 2015, ISSN 2278-4357, ICV 5.76 (SJ **Impact Factor 6.647**). **(Indexed) peer Reviewed referred.**
- 43) “ Four synthesis methods of Schiff base ligands and preparation of their metal complex with IR and antimicrobial investigation” World journal of Pharmacy and pharmaceutical sciences(UGC No.48793), Dr. Kapadnis, Jadhav Sheetal P, Dr.Patil A.P. and Dr. Hiray A.P Volume 5, Issue 2, pp-1055-1063, Jan. 2016, ISSN 2278-4357, ICV 5.76 (SJ **Impact Factor 6.647**). **(Indexed) peer Reviewed referred**
- 44) “ Analysis of Fe, Mn, Cu, Zn and Mg from Arogyavardhini vati by A.A.S. technique” International Journal of Research in Engineering and Applied Sciences(UGC No.48285), Dr. Kapadnis (ISSN 2249-3905) Vol.6, Issue-1, Jan. 2016, pp- 52-58 (SJ **Impact Factor 7.196**). **(Indexed). Peer Reviewed referred.**
- 45) “Comparison between four methods of synthesis of Schiff base ligands and preparation of Schiff base metal complex with spectroscopic investigations and antimicrobial activity.” International conference (RTCES -2016) held at malpani college sangamner 12&13 Feb-2016. Dr. Kapadnis
- 46) “Identification and estimation of Fe, Mn, Cu, Zn and Mg from arogyavardhini vati samples by aas technique” International conference (RTCES -2016) held at malpani college sangamner 12&13 Feb-2016. Dr. Kapadnis and Jadhav K.K.
- 47) “Methods of Synthesis a Comparative study for Schiff base ligands and their Metal complex” International conference on Emerging trends and issues in research and development (ETIRED-2016), research journey(UGC No.40705),, international multidisciplinary E-research journal ,global impact factor 0.676, e-ISSN-2348 -7143, feb 2016,pp-75-81.M.S.G.College Malegaon –camp.
- 48) “Residual Pesticide Determination from Guava and Pomegranate by using HPCL Technique” International conference on Emerging trends and issues in Research and development (ETIRED-2016), research journey(UGC No.40705),international

multidisciplinary E- research journal, global impact factor 0.676, e-ISSN-234-87143,feb2016, pp82-91.M.S.G.College Malegaon –camp.

- 49) “Study of Pesticide Residue from two common fruits of Nashik area using HPLC. International Journal of Research in Engineering and Applied Sciences, Dr. Kapadnis (UGC No.48285) (ISSN 2249-3905) Vol.6, Issue-2, Feb. 2016, pp-13-18, (SJ Impact Factor **7.196**). (Indexed). Peer Reviewed referred.
- 50) “Green synthesis and characterization of SnO₂ and ZnO nanoparticles Study their electrical conductivity and gas sensing properties” Pelagia Research Library, Der Chemica Sinica (Impact Factor **0.676**), ISSN: 0976-8505,2016, 7(2)pp- 29- 35. (Indexed) referred.
- 51) Multiple pesticide residue determination from Bean and Brinjal using HPLC, International Journal of Research in Engineering and Applied Sciences(UGC No.48285), Dr. Kapadnis (ISSN 2249-3905) Vol.6, Issue-5, May. 2016, pp-15-21. (SJ Impact Factor **7.196**). (Indexed). Peer Reviewed referred
- 52) “synthesis of Nano composites zinc and cobalt ferrite-polyaniline by Polymerization method, their characterization and bio assay.” World Journal of Pharmaceutical Research, (UGC list no.47332), Volume 5, Issue 9, PP9 556-563. ISSN 2277– 7105 (I. F **7.523**) (Indexed). Peer Reviewed referred
- 53) “Effect of folicure on lipid alteration in fresh water snail *Lymnaea auricularia*” World Journal of Pharmaceutical Research, (UGC list no.47332), Volume 5, Issue11, Nov-16, pp-957-961, ISSN 2277– 7105(I. F **7.523**) Peer Reviewed referred.
- 54) “Antibacterial activity of ginger (*zingiber officinale*) and honey on *escherichia coli*.” World Journal of Pharmaceutical Research, (UGC list no.47332), Volume 5, Issue11,pp- ISSN 2277– 7105(I. F **7.523**) Peer Reviewed referred
- 55) “Synthesis, Characterization and Gas Sensing properties Co₃O₄ and NiO Nanoparticles by thick films fabrication” International Journal of Research in Engineering and Applied Sciences UGC No.48285) (ISSN 2249-3905) Vol-6., Issue-12, Dec. 2016, pp-1-10. (SJ Impact Factor **7.196**). (Indexed). Peer Reviewed referred.
- 56) “Study of solvent structure properties modifications by sugars in aqueous NaBr at Various temperatures” research journey (UGC No.44117), international multidisciplinary E- research journal, global impact factor 0.676, e-ISSN-234-87143,feb2017, pp-131-136 P.V.H. College Malegaon –camp.
- 57) “Methanol Gas sensing properties of Pervoskite LaFeO₃ Nanoparticles doped by Transition Metals Cr³⁺ and Co²⁺ journal of chemical and pharmaceutical research (UGC No.21821), (ISSN 975-7384), Vol-9., Issue-1, FEB 2017,pp-253-259.

- 58) "Synthesis, Characterization and gas sensitivity performance of LACRO₃ thick films in Presence of ethanol atmosphere" researchers world international referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-7., Issue-4 (4),dec-2016, pp-26-31. (Impact Factor 3.19). (Indexed) referred
- 59) "Synthesis and Characterization of 3-Amino Carbonyl Ligand by Infrared Spectroscopy" Researchers world international referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-7., Issue-4(4), dec-2016, pp-70-73. (Impact Factor 3.19). (Indexed). referred.
- 60) "Chemical analysis of natural water in manmad & Nashik district region" researcher's world international referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-7., Issue-4(4), dec-2016, pp-98-100. (Impact Factor 3.19). (Indexed). referred.
- 61) "Synthesis and characterization of Schiff base derived from vanillin with various amine and formation of Co(II), Cu(II) and Ni(II) metal complexes with derived Schiff base." World Journal of Pharmaceutical Research, (UGC list no.47332), Sept 2017, Volume 6, Issue12, pp-1361-1368, ISSN 2277– 7105(**I. F 7.523**) **Peer Reviewed referred.**
- 62) "Synthesis and Characterization of CuO Nanoparticles Thick Film with Dopant Variation and its Applications for NH₃ Gas Sensors" *K. K. Jadhav & Dr. K. H. Kapadnis*, Researchers world International referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-9, Issue-4(4)Jan 2018-, pp-111-114. (Impact Factor 3.19). (Indexed). referred.
- 63) "Nanosized Semiconducting Stannous Oxide Thick Films Sensor for Some Oxidizing and Reducing Gases" *P. B. Koli, K. H. Kapadnis, U. G. Deshpande & U. J. Tupe* Researchers world international referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-9, Issue-4(4)Jan 2018-, pp-127-131. (Impact Factor 3.19). (Indexed). referred.
- 64) "Synthesis and Characterization of Co₃O₄ Nanoparticles and Study their Application in Gas Sensing" *R. K. Sonawane & Dr. K. H. Kapadnis* Researchers world international referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-9, Issue-4(4)Jan 2018-, pp-143-146. (Impact Factor 3.19). (Indexed). referred.
- 65) "Synthesis and Characterization of Schiff bases of Benzaldehyde with Nitroanilines and their Cobalt, Nickel and Copper metal Complexes" *JadhavSheetall P. & Dr. Kapadnis Kailas H.* Researchers world international referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-9, Issue-4(4)Jan 2018-, pp-147-152. (Impact Factor 3.19). (Indexed). referred.

- 66) "Synthesis and Characterization of LaCrO₃ Doped with Y by Sol-Gel Method" V.S. Shinde, K.H. Kapadnis, C. P. Sawant & P. B. Koli Researchers world international referred research journal (UGC No.10509) (ISSN 2231-4172), Vol-9, Issue-4(4)Jan 2018-, pp-171-174. (Impact Factor 3.19). (Indexed). Referred.
- 67) "Synthesis and characterization of LaCrO₃ by sol-gel method" V.S.shinde, K.H. Kapadnis, C.P.Sawant, A.N.Ahirrao, International Journal of Chemical and Physical Sciences, ISSN:2319-6602, Vol. 7, Special Issue, ICAFM - March 2018,PP-311-316, (UGC No.) (Impact Factor 3.42). (Indexed). referred.
- 68) "Study of physico-chemical properties, detection and toxicity study of organic compounds from effluent of MIDC Thane and GIDC Ankleshwar industrial zone" P. B. Koli , K H Kapadnis and U G Deshpande, Applied Water Science(springer publication) (oct 2018) 8:196, ISSN: 2190-5495 (electronic version) PP- 1-9, (Impact Factor 2.165). (Indexed). Referred.
- 69) "Fabrication and characterization of pure and modified Co₃O₄ nanocatalyst and their application for photo catalytic degradation of eosin blue dye: a comparative study" Prashant Bhimrao Koli1, Kailas Haribhau Kapadnis, Uday Gangadhar Deshpande , Manohar Rajendra Patil, Journal of Nanostructure in Chemistry (springer publication) ISSN: 2193- 8865, Vol-8, Issue-4,Dec- 2018 ,PP- 453-463, referred.
- 70) "Synthesis, structural characterization of LaCrO₃ nanostructures and it's gas sensing Applications" Vrushali S. Shinde, Chatur P Sawant , Kailas H. Kapadnis, Journal of Emerging Technologies and Innovative Research,(JETIR1812B70), ISSN: 2349-5162, Vol-5, Issue-12, Dec- 2018. (Impact Factor 5.87). (Indexed). Referred. (UGC No.)
- 71) "Tin doped gas sensors in semiconductor metal oxide form and their scientific applications: a review" R. M. Nikam , K. H. Kapadnis and R. Y. Borse., J. Biol. Chem. Chron. (JBCC) 2019, 5(3), 53-56, (Impact Factor). (Indexed). Referred. (UGC No.)
- 72) "Nanocrystalline-modified nickel ferrite films: an effective sensor for industrial and environmental gas pollutant detection" Prashant Bhimrao Koli, Kailas Haribhau Kapadnis, Uday Gangadhar Deshpande1 , Manohar Rajendra Patil, Journal of Nanostructure in Chemistry (springer publication) ISSN: 2193- 8865, Vol-9, Issue-2, Apr- 2019 ,PP-, referred.
- 73) "Transition metal decorated Ferrosferric oxide (Fe₃O₄): An expeditious catalyst for photodegradation of Carbol Fuchsin in environmental remediation." Prashant Bhimrao Koli, Kailas Haribhau Kapadnis, Uday Gangadhar Deshpande" Journal of Environmental Chemical Engineering(Elsevier publication) ISSN 2213-3437, Vol-7, Issue-5,oct- 2019 article no-103373 Referred.
- 74) "Modified Sn-doped LaCrO₃ nanostructures: focus on their characterization and applications as Ethanol sensor at a lower temperature" Vrushali S. Shinde, Chatur P Sawant , Kailas H. Kapadnis,

Journal of Nanostructure in Chemistry (springer publication) ISSN: 2193- 8865, Vol-9, Issue- 3, sept - 2019, PP- 231-245, referred.

- 75) "Importance of ICT based values in rational society" R. M. Nikam , K. H. Kapadnis and R. Y. Borse,, Ajanta ISSN2277-5730, Vol-8, Issue- 1,jan-march - 2019 ,PP- 133-136, referred. (Impact Factor 5.5). (Indexed).
- 76) "Thermodynamic Interactions of binary liquid mixture of Anisole, Phenetole and Benzyl ether with 2- Pentanol at temperatures T= 298.15K and 308.15K" K.K.Jadhav, * K. H. Kapadnis, 3P.S.Pawar, Journal of Gujraht Research society, ISSN: 0374-8588 Volume 21 Issue 14, November 2019, pp-1257-1267. UGC-CARE List Group: Group D Impact Factor: **4.3** .
- 77) "Molecular Interactions And Of Binary Liquid Mixtures Of Isopropyl Ether And Di-N-Butyl Ether With 2- Pentanol At Different Temperatures" Kailaspati. K. Jadhav, * Kailas. H. Kapadnis and Pankaj.S. Pawar, Our Heritage, ISSN: 0474-9030,Vol-68, Special Issue-12, pp-1257-1267, UGC-CARE List Group: Group D, Impact Factor:
- 78) "Sol-Gel Fabricated Transition Metal Cr^{3+} , Co^{2+} Doped Lanthanum Ferric Oxide (LFO- LaFeO_3) Thin Film Sensors for the Detection of Toxic, Flammable Gases: A Comparative Study" Prashant Bhimrao Koli, Kailas Haribhau Kapadnis, material science research India, ISSN : 0973-3469 , Online ISSN: 2394-0565. April-2020, volume 17 issue-1,pp--70-83
- 79) "A Survey on Epidemic Growth of Corona Virus-Covid-19 in Global world: Issues, Concern and Possible Remedial Parameters" Rohit M Nikam, Kailash H Kapadnis, Ratan Y Borse, International Journal for Research in Applied Science & Engineering Technology (IJRASET),ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429, Volume 8 Issue III Mar 2020,pp-938-941.
- 80) "Electrical and Structural Characterization of Fired SnO_2 Thick Films by Screen Printing Technique" R. M. Nikam, K. H. Kapadnis, R. Y. Borse. International Journal for Research in Applied Science & Engineering Technology (IJRASET),ISSN: 2321- 9653; IC Value: 45.98; SJ Impact Factor: 7.429, Volume 8 Issue III Mar 2020, pp-157-162.
- 81) "Innovative Nanomaterials in Emerging Basic Sciences and their applications: An Overview" R. M. Nikam, K. H. Kapadnis and R.Y. Borse, International Journal for Research in Applied Science & Engineering Technology (IJRASET),ISSN: 2321- 9653; IC Value: 45.98; SJ Impact Factor: 7.429, proceedings of state level conference feb2020, pp-42-49.
- 82) "Tin Doped Gas Sensors in Semiconductor Metal Oxide Form and Their Scientific Applications: A Review" , R. M. Nikam, K. H. Kapadnis and R.Y. Borse J. Biol. Chem. Chron. 2019, 5(3), pp, 53-56.
- 83) Role of National service scheme in enhancing Rational values in socity" R. M. Nikam, K. H. Kapadnis and R.Y. Borse, International Journal for Research in Applied Science & Engineering Technology (IJRASET),ISSN: 2321- 9653; IC Value: 45.98; SJ Impact Factor: 7.429, Volume 8 Issue IV, Apr 2020,pp-2169-2172.
- 84) "A Comprehensive Study on Petrol Vapours based Gas Sensors" R Mr Nikam1, K H Kapadnis, R Y Borse. International Journal for Research in Applied Science & Engineering Technology (IJRASET), ISSN: 2321- 9653; IC Value: 45.98; SJ Impact Factor: 7.429, Volume 8, Issue V, may 2020,pp-1256-1258.

BOOKS PUBLISHED (international reference books):

- 1) An international reference book on "Density and Viscosity of Sugars in Aqueous Electrolytes" **ISBN No.978-3-659-35881-4** Lambert publication Germany.
- 2) An international reference book on "Endosulfan toxicity study on fish" **ISBN No.978-3-659-37218-6** Lambert publication Germany.
- 3) An international reference book on "Residual pesticides from fruits and vegetables" **ISBN No.978-3-659-85294-7** Lambert publication Germany.

TEXT BOOKS PUBLISHED

- 1) A text book of "Practical Chemistry" for S.Y.B.Sc. Practical course-223 of Success publication pune, for Savitribai phule University PUNE. **ISBN-978-93-5158-082-9.**
- 2) A text book of "Physical and Analytical Chemistry" for S.Y.B.Sc. (Sem-I)(Paper-I) of Success publication pune, for Savitribai phule University PUNE. **ISBN-978-93-5158-142-0.**
- 3) A text book of "Inorganic chemistry" for T.Y.B.Sc. (Sem-III)(Paper-VI) CH-332 of Success publication pune for Savitribai phule University PUNE with ISBN-**978-93-5158-379-0.**
- 4) A text book of "Physical and Analytical Chemistry" for S.Y.B.Sc. (Sem-II) (Paper-I) of Success publication pune, for Savitribai phule University PUNE. ISBN-**978-93-84916-99-2.**

Research Projects:

- 1) Completed minor research project **on** "Development of Analytical procedures for residual Pesticide Determination on various vegetables using GC. and GC.MS". Amount sanctioned is Rs. 1, 45,000/-

Experience

1. 30 Years' Experience as a Senior College Lecturer In Chemistry at Undergraduate Level.
2. 11 Years' Experience as a Post Graduate Lecturer in Inorganic Chemistry.
3. Worked as a Science Faculty In charge for two years at L.V.H. College Nashik -3.

4. Worked as a Placement Cell Incharge of the College for five years 2006-2011 and 2013-14.
5. Working as Head Department of Chemistry L.V.H. College.
6. Worked as selection committee member for the selection of the post for Assistant professor at various institutions eighteen times.
7. Worked as senior supervisor at university examinations at number of Times.
8. Worked as paper checker at T.Y.B.Sc. And F.Y.B.Sc. Examinations Number of times.
9. Worked as university local enquiry committee member at different Colleges at various institutions twenty times.
10. Worked as paper Setter in the subject of chemistry for Maharashtra Governments Maharashtra Public Service Commission(MPSC) in Oct-2011.
11. Worked as an F.Y.B.Sc. Syllabus setting committee member at pune university level, committee appointed by board of studies in chemistry During A/Y 2012-13.

Other University Experience:

- 1) Worked as **Chairman for Ph.D. viva-voce** of Mr. Jadhav Vilas Bhaskar at North Maharashtra university Jalgaon on 25/01/2014.
- 2) Worked as M.Sc. II Inorganic chemistry practical examiner at school of Chemical science **North Maharashtra university Jalgaon 08/12/2013.**
- 3) Worked as M.Sc. II Inorganic chemistry practical examiner at Pratap college Amalner Comes under **North Maharashtra university Jalgaon.** (Two time).
- 4) Worked as M.Sc. (II) Analytical chemistry paper setter at North Maharashtra university Jalgaon.
- 5) Worked as squad chairman at **Yashvantrao chavan open University.** Nasik Maharashtra for two years 2010-2011 and 2011-2012.

- 6) Worked as practical examiner at Maulana Azad college Aurangabad
Comes under **Babasaheb Ambedkar University Aurangabad.**
- 7) Worked as **observer for SET** Sept.2015, May-2016 and Apr. 2017 for
Jalgaon District (M.J College center), Dhule District (Mahajan Jr. College
center) and for Ahemadnagar District. Respectively,.
- 8) Worked as practical examiner at Department of Chemistry **Sant
Gadgebaba University Amaravati.**

Social Activity: 1) Through department of chemistry we are running practical
Demonstration Programme for 8th, 9th & 10th students of
aativashi ashram school in Nashik District.

2) Regularly donating blood in blood donation camps.

Refreshers and Orientations Course Completed

Sr. No.	Name of Course	Academic Staff Colleges	Dates of the Course
1	Orientation Course	University of Pune	02/03/0993 To 29/03/1993
2	Refresher Course	University of Pune	16/05/1995 To 12/06/1995
3	Refresher Course	Goa University	01/08/1997 To 21/08/1997
4	Refresher Course	University of Pune	09/11/2001 To 15/12/2001

Workshop and Seminars Co-ordinated and attended (A) International conference

Sr. No.	Topic of Workshop or Seminar	Dates and venue of Workshop or Seminar
1	International conference on chemical thermodynamics(ICCT 2010) (presented paper)	Tsukuba science city, Japan 01-06 Aug 2010
2	International conference on "Global	Gurukul Kangdi Vishvavidyalay

	Climate change and Biodiversity Conservation(WCMANU 2011) (presented paper)	,Haridwar, Uttarkhand. India.11-13 Nov.2011
3	International conference on Biodiversity and Environmental Crisis: Past, Present and Future.	S V P S Sansthas L.K.Dr.P R Ghogrey Science College , Dhule (Maharastra),India.11-13Feb2011
4	International conference on global opportunities for latest development in chemistry and technology-2014 (GOLD-CT-2014) (presented paper)	School of Chemical Sciences North Maharashtra university Jalgaon on 06-08 Feb 2014.
5	International interdisciplinary conference on Paradigm shift in Economy: Its alteration of Trade, Commerce, and Management. Engineering and Social sciences (presented paper)	Sangamner Nagarpalika Arts, D.J. Malpani Commerce & B.N. Sarda Science College, Sangamner, Dist. Ahmednagar, (M.S.), India. 28 june 2015.
6	International conference on Recent Trends in Chemical and Environmental sciences (RTCE 2016) (presented paper) and (Chaired a Session) .	Sangamner Nagarpalika Arts, D.J. Malpani Commerce & B.N. Sarda Science College, Sangamner, Dist. Ahmednagar, (M.S.), India. 12&13 feb-2016.
7	International conference on Emerging trends issues in research and development (ETIRE 2016) (presented paper) and (Chaired a Session) .	M.S.G.College Malegaon camp. Dist- Nashik. (17 &18 feb- 2016).
8	International conference on innovations in Nanomaterials and their applications (ICIN 2018) (presented paper) and (Chaired a Session) .	L.V.H. College Panchavati, Nasik-3.on18/20 Jan. 2018.
4	International interdisciplinary Conference in Innovations in teaching ,learning and evolution	L.V.H.College ,Panchvati, Nashik-422003, 23-24 JAN 2019
(B)National Conference		
1	3 rd National Conference on Thermodynamics of Chemical and Biological systems	Rastrasant Tukdoji Maharaj Nagapur University ,Nagpur on 16-17/10/2008.
2	National Level Seminar on Nano science	G.M.D. Arts,B.W. Commerce and J.Science college Sinner.21-23/01/2010.
3	National Seminar on preparation of Nanomaterials and their Applications	Arts , commerce andScience College Nandgaon Dist. Nasik 20-22/02/2010

4	National Symposium on “Interface of Teachers and Students with Chemical Industries”	K.T.H.M.College Nasik.26-28/12/2007
5	National Seminar on “General Application of Chemistry “(inaugural guest)	S.S.G.M. College, Kopargaon (11 -12 -13, Feb.2012)
6	National Seminar on “Advances in synthetic and applied “Chemistry (Resource person)	S.N.Arts,D.J.M.Com. &B.N.S.Sci. College Sangmner Dist A’Nagar(6-8 Sept 2012).
7	National Conference on “indian development in recent and ideal semiconductors for novel application”(NC IDRIS-2012)	D.H.Agarwal Arts,S.A.Com. and C.C.Shah&M.G.Agarwal Sci. College Navapur Dist-Dhule (6-7 oct 2012)
8	National Symposium on “Advances and opportunities in Chemical Sciences”	RSC Sponcered at K.T.H.M. College Nasik.(20/10/2012)
9	National Conference on “Advanced Analytical Techniques in chemistry and pharmacy”(presented paper)	M.S.G.College Malegaon camp. Dist- Nashik.(8 &9 Oct 2013).
10	National Conference on” Redefining the role of chemistry in modern science” (presented paper) and (inaugural guest).	K.V.N. Naik College, Nashik on 13 and 14 Feb 2014.
11	National Conference on “Reseny trends in Chemical research” (presented paper) and (inaugural guest).	K.V.N. Naik College, Nashik on 12 and 13 Jan 2015.
12	National Seminar on “Chemistry for overall development of human being” (inaugural guest).	K.S.K.W Arts,sci and com. College ,Cidco, Nashik-8, 16,17 Jan 2015.
13	National Conference on Innovative Research techniques in chemical and Physical sciences-IRTCPS-2015. (Presented paper) and (Chaired a Session).	S.S.G. College Kopergaon, Dist – A’Nagar. 7 th and 8 th Aug-2015.
14	28 statutory conference and national seminar on new higher education policies, challenges and prospectus	Gujrat university area teacher association in association with GLS at Abaji Gujrath on 18-20 Dec.2016.
15	National Conference on “Emerging trends in chemistry and Nano sciences”	L.V.H. College Panchavati, Nasik-3.on21/22 Jan. 2017.
16	National workshop on “water crisis management & future challenges”	Y.C.M.O.University Nashik-2, 27 may2017.
(C)State level Seminar		
1	State level Seminar on “Advance Trends in Chemistry”	M.S.G.College Malegaon Camp. 22-23/09/2005.
2	State level Seminar on “Advance Trends	R.B.N,B, College, Shrirampur. 04-

	in Chemistry”	05/01/2008.
3	State level Seminar on “Expectations of Industries from Academia”.	K.T.H.M.College Nasik. 18/12/2004.
4	State level Seminar on “Critical concepts in electro chemistry”(inaugural guest)	M.G.V’s A.S.&C.College Manmad Dist- Nasik
5	State level Seminar on “precaution to be taken while handling hazardous chemicals in laboratory”(resource person)	Advocate M.N. Deshmukh, A.S. &C. College Rajur Dist A’Nagar.
6	Two days state level conference on “Recent trends in Nano technology”	L.V.H. College Panchavati, Nasik- 3.on28 th and 29 th Dec 2012.
7	State level workshop on” Choice Based Credit System”	C.T. Bora College Shirur Dist: Pune on 16 th Jan2013
8	State level workshop on ‘Development of Laboratory skills in non-teaching staff of various colleges”(Convener) (resource person)	L.V.H. College Panchavati, Nasik- 3 on 4 th and 5 th Feb2013.
9	State level workshop on “Application of synthetic chemistry”(resource person)	Arts, Sci and Comm. College Dindori on 1 st and 2 nd March 2013.
10	State level Seminar on” Indian Agriculture : Problems and Perspectives”	L.V.H. College Panchvati NasiK- 3on 2 nd and 3 rd Feb 2013.
11	State level Seminar on “Biodiversity and Pollution Control”	M.G. Vidyamandir’s Arts, Science & Commerce College Nampur 3&4 Feb 2011
12	State level Seminar on “New trends in modern chemistry” (resource person)	A.C.and S. College Kalwan (Manur),18and 19 Dec. 2014
13	State level Seminar on “Role of Environmental Chemistry in our Life” [Interdisciplinary] (resource person)	Smt. PVH College Malegaon camp, dist – Nashik.03/02/2017.
14	State level conference “Innovative nanomaterials have better future in imerging basic sciences” (Chaired a Session) and (resource person).	M.J.M.A,S and C College Karanjali Tal-Peth Dist –Nashik 20/21/01/2020.
15	State level Seminar on “Innovative applications of nanomaterials in science and Technlody” (resource person).	M.V.P a,S and C College Nandgaon- Tal- Nandgaon ,Dist- Nashik,24/25/01/2020
(D)One Day Workshop		
1	Workshop on “Theoretical and Experimental aspects of Flame emission spectroscopy and Gas chromatography’.(Co- ordinator)	L.V.H. College Panchavati NasiK-3 on 15/03/2005
2	Workshop on “Theoretical and Experimental aspects of Atomic Absorption spectroscopy and High performance liquid chromatography’. (coordinator)	L.V.H. College Panchavati NasiK-3on 14-15/02/2006.

3	Workshop on "Revision of T.Y.B.Sc. Chemistry Syllabus"	K.T.H.M. College Nasik.30/01/2004
4	Two day Seminar on "Fifty Years of DNA"	L.V.H. College Panchvati Nasik-3 on 12-13/10/2003.
5	Workshop on "Concept comprehension in atomic structure and chemical bonding"	L.V.H.College Panchvati Nasik-3 on 20-21/03/1999.
6	Workshop on "Transport and Thermodynamic Properties of Solution"	M.S.G. College, Malegaon Camp., Malegaon. on 28/03/1992
7	Workshop on "Solution Chemistry"	M.S.G. College, Malegaon Camp., Malegaon. on 21/01/1994
8	Workshop on "Modern Trends in Chemistry"	Arts, Science & Commerce College, Saikheda, Tal-Niphad, Dist-Nashik. On 18/01/2008.
9	One day Seminar on "Problems in Higher Education" organized by PUCTO	Pune University & College Teacher's organization (PUCTO) on 03/07/2005.
10	Seminar on "Modern analytical techniques & Environmental science"	K.V.N. Naik College, Nashik on 17/02/2006
11	One day workshop in Chemistry for Post-graduate Teachers	M.S.G. College, Malegaon Camp, Nashik on 19/12/2006
12	One day Seminar on "Applications of stereochemistry & Techniques in Organic Chemistry"	Arts, Commerce & Science College, Satana, Dist-Nashik. on 06/01/2009
13	Workshop on "Revision of S.Y.B.Sc Syllabus in Chemistry"	M.S.G. College, Malegaon Camp, Nashik on 30/12/2002
14	One day workshop on "Recent Trends on Thermodynamics"	L.V.H.College Panchvati Nasik-3 on 03/02/2010
15	PUCTO organized one day workshop on "Crisis in Higher Education"	L.V.H.College Panchvati Nasik-3 on 30/11/2003
16	PUCTO organized one day workshop on "Crisis in Higher Education"	L.V.H.College Panchvati Nasik-3 on 21/09/2003
17	Recent trends in chemistry	M.S.G. College, Malegaon Camp, Nashik on 29-30/01/2010
18	Workshop on syllabus restructuring of M.Sc. I	Department of chemistry University of pune.
19	One day seminar on "Green Chemistry"	K.V.N.Naik Sanstha's Arts, Science & Commerce College Canada corner Nasik 21-01-2011
20	One day Seminar on "Advanced Electro Analytical Techniques"	K.K.W. Arts, Science & Commerce College, Pimpalgaon (B)23-12-2009

21	One day workshop on “F.Y.B.Sc. Chemistry Syllabus Framing.”(Convener)	L.V.H.College Panchvati Nasik-3 on 22/01/2013
22	One day workshop on “S.Y.B.Sc. Chemistry Syllabus Framing”. (Resource person)	K.T.H.M.College Nasik.31/12/2013
23	Workshop on Framing of T.Y.B.Sc. Chemistry Syllabi.	H.P.T. and R.Y.K.College Nasik. On 22/01/2015.