

Curriculum Vitae



Name:- Dr. Mrs. Meera Rajesh Kale
(Maiden Name Dr. S. S. Kulkarni)

Qualification: M.Sc., Ph. D. (Physics)

Designation and Address: ASP College Devrukh, Ratnagiri
(Autonomous), Maharashtra, India.
(02354) 260058.

Mailing Address (Office) As above

Permanent address:- Bhanumati C.H.S. Limited, Near Shivaji High
School, Zadgaon, Tal & Dist.-
Ratnagiri, 415612.

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Email address:- dr.mrkale@gmail.com
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Date of Birth:- 21st July, 1977.

Marital status:- Married

Languages known:- Marathi, English & Hindi
Sufficient Computer knowledge.

Teaching Experience:- 18 years

Research Experience:- 10 years

Field of research: Material Science, Ferrite materials, Thin Film
technology, various deposition techniques for
thin films.

Title of thesis for doctoral degree: “Electro-Chemical Synthesis, Characterization and Applications of MFe_2O_4 , $M = Cu, Co, Ni$ Thin Films”

Academic Achievements/Activities

- Recognized as a guide for Ph.D. in Physics from Mumbai University
- Recognized by Mumbai University as PG teacher for M.Sc. by Research in Physics.
- Selected as Judge for State level Science exhibition organized by Government of Maharashtra.
- Worked as Resource person for summer course in experimental Physics at Homi Bhabha Science Center at Mumbai for 15 days.
- Received C. V. Raman life time achievement award from IRDP Group of Journals Chennai 2018.
- Selected as a referee for Avishkar Research Convention of Mumbai University for Sindhudurg district.
- UGC New Delhi, “Project Fellow: at Department of Physics, Shivaji University, Kolhapur from 29/04/2002 to 15/01/2005
- Nomination by UGC for “DAAD” short-term fellowship of Germany, 2003.
- Worked as Resource person, chairman of session at the various National and International Conferences
- Worked as “Visiting Lecturer” at R. Mane Engineering College, for teaching applied Physics to first year engineering students.

Editorial Board Member:

- Member of Editorial Board for Engineering Sciences International Research Journal ISSN 2320-4338
- An Executive Editor of the Souvenir of the National Seminar on The Prospects and Paradigms of Quality Enhancement in HEI organized by Athalye-Sapre-Pitre College, Devrukh on 5-9th April, 2013.

- An Executive Editor of the Souvenir and Proceeding of the National Conference on renewable Energy and Environment Athalye-Sapre-Pitre College, Devrukh on 25-27th September, 2014.
- An Executive Editor of the Souvenir of the National Conference on Conservation Of Natural Resources and Biodiversity For Sustainable Development organized by Athalye-Sapre-Pitre College, Devrukh on 4-6th December, 2014.

Member of organizing Committee of Conference, Workshop and Seminar:

- An Organizing committee member of two-day National Level Workshop on ‘Remote Sensing and GIS Applications in Geography, organized by Department of Geography, Athalye-Sapre-Pitre College, Devrukh between 9th and 10th January, 2012.
- An Organizing Committee Member of Two Day National Level Seminar on "The Prospects and Paradigms of quality Enhancement in HEI" to be organized by IQAC, Athalye-Sapre-Pitre College, Devrukh between 5th and 6th April, 2013.
- An Organizing Committee Member of Two Day State Level Seminar Marathi Writing and explaining skill and their opportunities in Business, organized by Marathi Department, Athalye-Sapre-Pitre College, Devrukh between 6th and 7th December, 2013.
- An Organizing Committee Member of Two Day National Conference on Renewable Energy and Environment Athalye-Sapre-Pitre College, Devrukh on 25-27th September, 2014.
- An Organizing Committee Member of Two Day National Conference on Conservation Of Natural Resources and Biodiversity For Sustainable Development organized by Athalye-Sapre-Pitre College, Devrukh on 4-6th December, 2014.
- An Organizing Committee Member of International Conference on Environment, Development and Sustainability organized by Athalye-Sapre-Pitre College, Devrukh on 15th December, 2018.

- An Organizing Committee Member of Two Day International (Online) Conference on Environment Development and Sustainability organized by Athalye-Sapre-Pitre College, Devrukh on 29-30th March, 2022.
- Organizing secretary of International conference on “Recent Advances in Material Sciences” organized by Athalye-Sapre-Pitre College, Devrukh on 27th March, 2024.

Membership

- Life member of All India Association of Physics Teachers.
- Associate Member of Institute of Physics, London
- Member of American Biographical Institute for Professional Women’s Advisory Board.
- Member of School Management committee at Chaatrapati Shivaji School Devrukh No. 4 (Z.P School)

Research Projects

- Completed Minor Research Project entitled, “Room temperature electro synthesis of Nickel Zinc Ferrite Thin Films”. Sanctioned by Mumbai University during 2011-12 Ref. No. APD/237/256 dated 28/09/2011.
- Completed Minor Research Project entitled, “Electrosynthesis Of Nano-Crystalline Nickel Oxide Thin Films And Their Applications As Supercapacitros”. Sanctioned by Mumbai University during 2016-17 reference No 237/429 dated 16th January 2017

List of publications:

International Journal Papers

- 1 **S. S. Kulkarni (M.R.Kale)**, C. D. Lokhande, R.S. Mane, and Sung-Hwan Han, Room Temperature Single Step Electrosynthesised Copper Ferrite Thin Films And Study Of Their Magnetic Properties, Journal. Mag. Mat. 313 (2007) 69.
- 2 **S. S. Kulkarni (M.R.Kale)**, C. D. Lokhande, R.S. Mane, K.C. Nandi, and Sung-Hwan Han, Structural And Magnetic Properties Of Single Step

Electrochemically Deposited Nanocrystalline Cobalt Ferrite Thin Films, Current Appl. Phys. (CAP1190) 2007.

- 3 **S. S. Kulkarni (M.R.Kale)**, C. D. Lokhande, R.S. Mane Copper Ferrite Thin Films : Single Step Non-Aqueous Growth And Properties, , and Sung-Hwan Han, Journal of Crystal Growth, 303 (2007) 387,.
- 4 T.P.Gujar, **S. S. Kulkarni (M.R.Kale)**, and C. D. Lokhande, Room Temperature Electrodeposition And Characterization Of Bismuth Ferric Oxide Thin Films From Aqueous Nitrate Bath, Appl. Surf. Sci. 252 (2006) 3585.
- 5 **S. S. Kulkarni (M.R.Kale)**, H. M. Pathan, R. S. Mane and C. D. Lokhande “Preparation And Characterization Of Indium Selenide Thin Films From A Chemical Route”, Mater Chem. Phys.93(2005)16..
- 6 **S. S. Kulkarni (M.R.Kale)**, H. M. Pathan, D.P.Amalnekar, T. Seth, and C. D. Lokhande, Some Studies On Successive Ionic Layer Adsorption And Reaction (SILAR) Grown Indium Sulphide Thin Films” Mater Res. Bull.40 (2005)1018
- 7 **S. S. Kulkarni (M.R.Kale)** and C. D. Lokhande Structural, Optical. Electrical And Dielectrical Properties Of Electrosynthesised Nanocrystalline Iron Oxide Thin Films”, Mater. Chem. Phys., 82:1 (2003) 151-156.
- 8 **S. S. Kulkarni (M.R.Kale)** and C. D. Lokhande Electrosynthesis Of Nanocrystalline Copper From Various Baths. Bull. Electrochemistry 19 (11) Nov. (2003), pp 521-524.
- 9 **S. S. Kulkarni (M.R.Kale)**, H. M. Pathan and C. D. Lokhande,Optical Properties Of Nanocrystalline Cadmium Sulphide Thin Films Deposited By SILAR Method.” Proceeding of the Seventh International Symposium on Advances in Electrochemical Science and Technology (ISAEST-VII) Chennai, India. Nov. 2005 27-29; D-152
- 10 **M. R. Kale** and N. P. Tendolkar, “Supercapacitive properties of Nanocrystalline Copper Ferrite Thin Films Deposited by Environment Friendly Electrodeposition Method”, International Journal of Scientific & Engineering Research, (2015) 2229-5518
- 11 **M. R. Kale** and N. P. Tendolkar, Supercapacitive Properties of Electrosynthesised Nanocrystalline Nickel Ferrite Thin Films deposited from Non- Aqueous Bath, International journal of Engineering and Research, ISSN 2320-4338 (2016)Vol I

- 12 **M. R. Kale**, S.T. Sankpal and N. P. Tendolkar, “Systematic Study of Structural, Transport, and Dielectric Properties of Ba (1-x) Sr x TiO₃ Synthesised by Chemical Method,” International Journal of Chemical and Physical Sciences , ISSN 319-6602 Vol 3 (2017)
- 13 **M. R. Kale**, “Room Temperature Electro-Synthesis Of Nanocrystalline Nickel Doped Zinc Oxide Thin Films,” Global Journal for Research Analysis, VOLUME-7, ISSUE-1, (2018) ISSN No 2277 – 8160.
- 14 **M.R.Kale**, “Women In India And Law Governing them” Aarhat Multidisciplinary International Education Research Journal (AMIERJ), ISSN 2278-5655, Volume VII (2019)
- 15 **M.R.Kale**, Single Step Electrosynthesis of Co-Ferrite Thin Films from Alkaline Non-Aqueous Bath, IOP: Materials Science & Engineering, ISSN 17578981, 1757899X, Issue No. 1258,2022

National Journal Papers /Proceeding of Conference

1. C. D. Lokhande, **S. S. Kulkarni** and S. D. Sartale, “A novel electrochemical process for nanocrystalline ferrite thin film deposition,” proceeding of National Seminar on Electro and Magnetic Ceramic Devices and systems, Ed. A. L. Deshmukh, C. B. Kolekar and B. P. Ladgaonkar Allied Publishers PVT. Ltd., Asaf Ali Road, New Delhi. (Review article)
2. A novel electrochemical process for nanocrystalline ferrite thin film deposition,” C. D. Lokhande, **S. S. Kulkarni** and S. D. Sartale, proceeding of National Seminar on Electro and Magnetic Ceramic Devices and systems, Ed. A. L. Deshmukh, C. B. Kolekar and B. P. Ladgaonkar Allied Publishers PVT. Ltd., Asaf Ali Road, New Delhi.
3. Growth Of Copper Oxide Thin Films By Electrodeposition,” **S. S. Kulkarni** and C. D. Lokhande, proceeding of National Seminar on Electro and Magnetic Ceramic Devices and systems, Ed. A. L. Deshmukh, C. B. Kolekar and B. P. Ladgaonkar Allied Publishers PVT. Ltd., Asaf Ali Road, New Delhi.
4. Preparation and Characterisation of MnS and MnS₂ Thin Films Deposited by M-CBD Method”. **S. S. Kulkarni**, S. D. Sartale, H. M. Pathan and C. D. Lokhande, proceeding of National Seminar on Electro and Magnetic Ceramic Devices and

systems, Ed. A. L. Deshmukh, C. B. Kolekar and B. P. Ladgaonkar Allied Publishers PVT. Ltd., Asaf Ali Road, New Delhi.

5. Junction Fabrication Between N-Cds And P-Polyaniline Thin Films.” S. S. Joshi, **S. S. Kulkarni** and C. D. Lokhande, A book chapter Advances in Renewable energy Technology” Ed. S. H. Pawar and L. A. Ekal, Narosa publishing House, New Delhi (2003) p-243.
6. Electrosynthesis Of Nanocrystalline Cuprous Oxide (Cu₂O) Thin Films From Alkaline Sulphate Bath”, **S. S. Kulkarni** and C. D. Lokhande, Transactions of SAEST38 (2003) 123.
7. “Room temperature Electro-synthesis of Nanocrystalline Nickel-Zinc Ferrite Thin films”, **M. R. Kale** and N. P. Tendolkar, Asian Journal of Experimental Sciences. ISSN 0971-5444.
8. **M.R.Kale**, “Room Temperature Electro-synthesis of Nanocrystalline Nickel Oxide Thin Films” Emerging Trends in Basic Sciences, ISBN NO 978-81-927211-2-8.
9. **M.R.Kale**, “Electro-synthesis of Nanocrystalline Mn-Doped Zinc Oxide Thin Films,” Emerging Trends in Basic Sciences, ISBN NO 978-81-927211-2-8.

Book Chapters

1. **M. R. Kale** “Nanocrystalline Nickel Ferrite Thin Film Formation From Non Aqueous Bath Using Environment And Ecofriendly Route” Book Chapter in Environment, Development and Sustainability” Published by Lambert Academic Publishing, Germany ISBN:978-613-9-45834-9(page nos. 171-179) (2018) .
2. **M.R.Kale**, “Cu-Ferrite Thin Film as an Electrochemical Supercapacitor synthesized by Eco- Friendly Method”, Book Chapter in Recent Advances in Basic and Applied Sciences, Lambart Academic Publishing, Moldova, Europe. International Book ISBN 978-620-4-95588-9
3. **M.R.Kale**, Legislations relating to environment protection in India and their effective implementation: A necessity of the hour, Book Chapter in Recent Advances in Basic and Applied Research, Lambart Academic Publishing, Moldova, Europe. International Book ISBN 978-620-4-95627-5.
4. **M.R.Kale**, N. D. Barne, Suresh Gawande and Kiran Khandagale, Synthesis and Characterization of Zinc Oxide Nanoparticles by Chemical Precipitation Method and Their Structural and Optical Properties, Book Chapter in Trends in Science

Research, Lambert Academic Publishing, Moldova, Europe. International Book ISBN 978-620-7-80493-1.

5. **M.R.Kale**, Single Step Electrodeposition of Cobalt Ferrite Thin Films from Alkaline Bath, Book Chapter in Trends in Science Research, Lambert Academic Publishing, Moldova, Europe. International Book ISBN 978-620-7-80493-1.

Book Published

1. Recent Advances in Material Sciences, Lambert Academic Publishing, Moldova, Europe. International Book ISBN 978-620-7-65373-7.

Workshop/ Seminar /Symposia/Conferences Attended

- 1 Attended Annual General Meeting Of Material Research Society Of India, 10th AGM, RRL Bhopal, 8-10 Feb, 1999.
- 2 Participated National Symposium on Recent Advances in Renewable Energy and Technology, August 13-15, 2002.
- 3 Attended National Seminar on Electromagnetic Devices at Akhuj, 2002
- 4 Participated in National Seminar on Recent Trends in Optoelectronic Materials and Devices (NSRTOM) at Shri Venkateshwara University Tirupati, 2003.
- 5 Participated at Annual General Meeting and Theme Symposium on novel Polymeric materials, Materials Research Society of India, Bhabha Atomic Research Center Mumbai, 11-13 Feb. 2003.
- 6 Campaign on University Research & Training (COURT) 2003, Shivaji Univ. Kolhapur.
- 7 Participated in Annual General Meeting and Symposium on Automotive Industries, Material Research Society of India, at NCL Pune, 10-12 Feb. 2005.
- 8 Attended workshop on revised syllabus of T. Y. B.Sc. Physics held at R. P. Gogate college of Arts and Science and R. V. Jogalekar College of Commerce, Ratnagiri.
- 8 National Conference on Recent Trends in Materials Research at Birla College of Arts, Science and Commerce, Kalyan. During 29-30th January 2011.
- 9 Participated in National Conference on Population, Environment and Tourism”, between 3-5 March 2011.
- 10 Attended work shop on credit and grade based evaluation system held at R. P. Gogate college of Arts and Science and R. V. Jogalekar College of Commerce, Ratnagiri, on 4th July 2011.

- 11 Participated in National workshop on Remote Sensing and GIS application in Geography between 9-10 Jan. 2012, organized by ASP College, Devrukh.
- 12 Attended workshop on Research Methodology at Sub Centre Mumbai University, Ratnagiri on 25th Feb. 2012
- 13 Participated in National Seminar on Human Rights and Social Justice organized by ASP College, Devrukh, between 2-3 March 2012.
- 14 International Conference on Thin Films and Applications, during 15-17th March 2012. At Sastra University, Thanjavur, Tamilnadu.
- 15 National Seminar on Nanomaterials: Synthesis And Application during 4-6th March 2013. at Govt. Post Graduate College Chhindwara (M. P.)
- 16 Participated in 'Yuva Diwas' Organized by Mumbai university, Mumbai.
- 17 Participated in One day Workshop for MPSC crash course by ASP college, Devrukh, Dist Ratnagiri.
- 18 Attended orientation course of one month organized by Pune University, Pune.
- 19 Attended International Conference in Trends in Renewable Energy 27-28th Dec. 2013 at C. V. Raman College, Bhubaneswar Orrisa

- 20 Attended and presented paper in National Conference on renewable Energy and Environment, ASP College Devrukh, 25-27th Sept. 2014
- 21 Attended and presented paper in **International** Conference on Environment and Ecology, Foundation of Science and Environment, Kolkatta., 02-04th March 2015.
- 22 Attended and presented paper in 'National Conference on Materials for Energy Conversion and Storage, organized by Department of Chemistry and of Physics of Mahatama Phule Mahavidyalaya, Pimpri, Pune-411017 on 12th and 13th February 2016.
- 23 Attended one week training programme on Computer interfaced science experiments conducted by IUAC Delhi during 02 May-06 May 2016.
- 24 Attended and presented paper in 'National Conference on Materials and Environmental Science by Yashwantrao Patil Science College, Solankur on 15 February 2017.
- 25 Attended and presented paper in 'International Conference on Nanotechnology Addressing The Convergence of Material Science, Biotechnology and Medical

- Science” by Center for Interdisciplinary Research, D. Y. Patil Education society, Kolhapur during 9-11,2017
- 26 Attended workshop on Research Based Pedagogical Tools (RBPT) Conducted by IISER, at IIT Gandhinagar during 10-13th December 2017.
 - 27 Participated in E-content and Digital Presentation Development for Educational Video Production Workshop 16-17 October 2018.
 - 28 Attended National Seminar on Gender Sensitization and Women’s Rights, at Dr. Ambedkar College of Commerce and Economics, Wadala, Mumbai, September 2018
 - 29 Attended three days workshop on Experimental Physics for Undergraduate Teachers” during 8-10 July 2019 conducted by IISER, Pune
 - 30 Completed various **Six** online courses conducted by H. C. Verma on MOOC platform
 - 31 Attended **Seven** faculty development programmes conducted by various institutes of India during Covid -19 Pandemic.
 - 32 Attended **Thirty two** Webinars during Covid -19 Pandemic on various topics.

List of papers accepted /presented at national/International conferences.

1. **S. S. Kulkarni** A. R. Ingawale, B. R. Sankapal and C. D. Lokhande, “Preparation and photo-electrochemical characterization of Bi₂S₃ thin films deposited using SILAR method”
Material Research Society of India, 10th AGM, RRL Bhopal, 8-10 Feb, 1999.
2. H. M. Pathan, **S. S. Kulkarni** and C. D. Lokhande, "Synthesis of Nanocrystalline Cadmium Selenide (CdSe) Thin Films By SILAR Method", National Seminar on Advanced Materials, NSAM-2002, Department of Chemistry, DDU Gorakhpur University Gorakhpur- 273009. 17-19, March 2002.
3. **S. S. Kulkarni**, H. M. Pathan and C. D. Lokhande, "Preparation and characterisation of Manganese doped cadmium sulphide thin films", National seminar on Materials and Devices March 9-10, 2002, MJP Rohilkhand University, Bareilly
4. **S. S. Kulkarni**, H. M. Pathan and C. D. Lokhande, "Optical Properties of Cadmium sulphide Thin Films Deposited by Modified Chemical Method,"

NANOTECH-2002, "At the Edge of revolution", Houston, TX. 9-12 September, 2002.

5. S. D. Sartale, **S. S. Kulkarni**, H. M. Pathan and C. D. Lokhande "Preparation and Characterisation of Fe based alloys and their oxides (Ferrite) thin films"
6. S. S. Kulkarni, S. S. Joshi and C.D. Lokhande, "Studies on electrodeposition of copper from various complexing baths".
7. S. S Joshi, **S. S. Kulkarni** and C. D. Lokhande, "Junction Fabrication between n-CdS and P- Polyaniline thin film". 5-7:National symposium on recent advances in renewable Energy and Technology, August, 13-15, 2002
8. **S. S. Kulkarni**, H. M. Pathan and C. D. Lokhande, "Optical properties of nanocrystalline cadmium sulphide thin films deposited by SILAR method, International Symposium on Advances in Electrochemical Science and Technology (ISAEST-VII) Chennai, 2002.
9. **S. S. Kulkarni** and C.D. Lokhande, "Growth of Copper Oxide Thin Films by Electrodeposition"
10. H. M. Pathan, G. D. Bagde, R. B. Kale, **S. S. Kulkarni** and C. D. Lokhande, Preparation and Characterisation of Lanthanum Chalcogenide Thin Films Deposited by M-CBD Method
11. C. D. Lokhande, **S. S. Kulkarni** and S. D. Sartale, "A Novel Electrochemical Process For Nanocrystalline Ferrite Thin Film Deposition".
12. **S.S. Kulkarni**, S. D. Sartale, H. M. Pathan and C.D. Lokhande, "Preparation and Characterisation of MnS and MnS₂ Thin Films Deposited by M-CBD Method".
13. V. R. Shinde, **S. S. Kulkarni**, H. M. Pathan and C. D. Lokhande, "Preparation of ZnO Thin Films by Electrodeposition Method"
9-13: National Seminar on Electromagnetic Devices at Akluj,2002
14. **S. S. Kulkarni** and C.D. Lokhande, "Nanocrystalline Copper Oxide Thin Films Deposited By Electrodeposition"
National Seminar on Recent Trends in Optoelectronic Materials and Devices (NSRTOM) at Shri Venkateshwara University Tirupati, 2003
15. **S. S. Kulkarni**, S.S. Joshi, S. P. Bhosale And C.D. Lokhande, "Synthesis of Iron Oxide Thin Films At Room Temperature".

National Conference on recent Advances in Materials Science (NCMS) at Tiruchirapali.2003

16. **S. S. Kulkarni** and C.D. Lokhande, "Electroplating Of Cobalt From Sulphate And Citrate Bath", International conference on Ionic Device at Anna University Chennai, 28-30 Nov. 2003.
17. **S. S. Kulkarni** and C.D. Lokhande, Preparation And Characterization Of Lanthanum Sulphide Thin Films Deposited By Chemical Bath Deposition (M-CBD) Method.
18. V. R. Shinde, **S. S. Kulkarni** and C.D. Lokhande, "Synthesis Of Nanocrystalline Zn Thin Films By Electrodeposition.
17&18 presented at Annual General Meeting and Theme Symposium on novel polymeric materials, Materials Research Society of India, Bhaba Atomic Research Center Mumbai, 11-13 Feb. 2003.
19. **S. S. Kulkarni** and C.D. Lokhande, "Synthesis Of Iron Oxide Thin Films At Room Temperature, Campaign on University Research & Training (COURT) 2003, Shivaji Univ. Kolhapur.
20. **S. S. Kulkarni** and C.D. Lokhande, "Growth Of Cobalt Oxide Thin Films By Electrodeposition, National Seminar on Futuristic Aspects of Electrochemical science & Technology 23-24 July, Nagpur 2003
21. **S. S. Kulkarni** and C. D. Lokhande, "Anodization Of CuFe Alloy: New Process For The Formation Of Ferrite Thin Films At Room Temperature. International Convention on Surface Engineering, Bangalore (India), 25-27, August 2004.
22. **S. S. Kulkarni** and C. D. Lokhande, "Room Temperature Electrosynthesis Of Nickel Iron Alloy From Aqueous Sulphate Bath AVS 51th International Conference Symposium and Exhibition, Anaheim, CA, 14-19, November 2004.
23. **S. S. Kulkarni** and C.D. Lokhande,," Electrosynthesis, Nucleation And Characterization Of Nickel Oxide Thin Films". 15th AGM Material Research Society of India & Theme symposium on material for light and smart structures Feb. 9-11 2004.
24. **S. S. Kulkarni** and C.D. Lokhande, "Electrosynthesis Of Nanocrystalline Cobalt Oxide Thin Films From Alkaline Sulphate Bath", Eleventh National Convention of Electrochemists (NCE-11) 26-27 Dec. 2003. Tiruchirappalli.

25. **S. S. Kulkarni** and C.D. Lokhande, "Room Temperature Electrosynthesis Of Cobalt Iron Alloy From Aqueous Sulphate Bath."
International Conference on Electrochemical Power System, Hyderabad (India), 20-21, December 2004
26. **S. S. Kulkarni** and C.D. Lokhande, "Room Temperature Electrosynthesis Of Nickel Iron Alloy From Aqueous Sulphate Bath."
27. P. B. Patil, **S. S. Kulkarni** and C. D. Lokhande, "Supercapacitive Properties Of Electrochemically Prepared Polyaniline Thin Films."
28. Y. B. Kamble, **S. S. Kulkarni** and C. D. Lokhande, "Chemical Deposition Of Manganese Oxide Thin Films For Supercapacitor.",
26-28 are Accepted for Theme Symposium on Materials for Automotive Industries, held at National Chemical Laboratory Pune, 10-12 Feb. 2005.
29. **S. S. Kulkarni** and C. D. Lokhande, "Magnetic Thin Films Of Copper, Cobalt And Nickel Ferrite Prepared At Room Temperature By Simple Electrochemical Route." Accepted for International conference on electro ceramics 2005, KIST, Seoul, South Korea. June 12-16 2005.
30. **S. S. Kulkarni** and C. D. Lokhande, "Preparation Of Nickel Ferrite Thin Films In Single Step Electrosynthesis Method", Accepted for International conference on Solar Energy and Solar Materials, Mexico, 2005.
31. **M. R. Kale** and N. P. Tendolkar, "Single Step Room Temperature Electrosynthesis Of Nickel Ferrite Thin Films", Presented in National Conference on Recent Trends in Materials Research at Birla College of Arts, Science and Commerce, Kalyan. During 29-30th January 2011.
32. **M. R. Kale** and N. P. Tendolkar, "Room Temperature Electro-synthesis of Nanocrystalline Ferrite Thin Film from Non-Aqueous Bath", Presented in International Conference on Thin Films and Applications, during 15-17th March 2012. At Sastra University, Thanjavur, Tamilnadu.
33. **M. R. Kale** and N. P. Tendolkar, "Supercapacitive properties of Electro-synthesized Nanocrystalline Nickel Ferrite thin films deposited from Non-aqueous Bath" presented in International conference on Information and Engineering sciences during 21-23rd Feb. 2013.

34. **M. R. Kale** and N. P. Tendolkar, "Room temperature Electro-synthesis of Nanocrystalline Nickel-Zinc Ferrite Thin films., presented in National Seminar on Nanomaterials: Synthesis And Application during 4-6th March 2013. at Govt. Post Graduate College Chhindwara (M. P.)
35. **M. R. Kale** and N. P. Tendolkar, "Supercapacitive properties of Nanocrystalline Copper Ferrite thin films deposited by environment friendly electrodeposition method" presented in International Conference in Trends in Renewable Energy 27-28th Dec. 2013 at C. V. Raman College, Bhubaneswar Orrisa.
36. **M. R. Kale**, "Nanocrystalline Nickel Ferrite Thin Film By Using Environment Friendly Electrodeposition Method And Their Use In Energy Storage Device As Electrochemical Supercapacitor." Presented in National Conference on Renewable Energy and Environment Athalye-Sapre-Pitre College, Devrukh on 25-27th September, 2014.
37. **M. R. Kale** and R. S. Kale, "Indian Perspective Of Implementation Of Environmental Laws," presented paper in International Conference On Environment & Ecology At Kolkata, during 02-04th March 2015.
38. **M R. Kale** , "Comparative Study of Electro-synthesized Nanocrystalline Nickel Ferrite Thin Films from Aqueous and Non-Aqueous Baths and Their Use in Electrochemical Capacitor.", presented a paper in 'National Conference on Materials for Energy Conversion and Storage, organized by Department of Chemistry and of Physics of Mahatama Phule Mahavidyalaya, Pimpri, Pune during 12-13th February . 2016
39. **M R. Kale** , "Structural, Dielectrical and Magnetic Properties of Nickel Ferrite Thin Films Electrosynthesised from Non-Aqueous Baths and Their applications in Electrochemical Supercapacitors", International Conference on Mathematics, Physics & Allied Sciences – 2016 at Goa.
40. **M R. Kale** , Room Temperature Electrosynthesis of Nickel Oxide Thin Films and Their Applications as Supercapacitors, 'National Conference on Materials and Environmental Science by Yashwantrao Patil Science College, Solankur on 15 February 2017.
41. **M R. Kale**, Nanocrystalline Nickel Ferrite Thin Films Synthesized At Room Temperature And Their Structural And Magnetic Studies, in 'International Conference on Nanotechnology Addressing The Convergence of Material Science,

- Biotechnology and Medical Science” by Center for Interdisciplinary Research, D. Y. Patil Education society, Kolhapur during 9-11,2017.
- 42 **M R. Kale**, “Electro-chemical synthesis, Characterization and Applications of copper and Nickel ferrite thin films”, Invited talk in International Multidisciplinary conference on Information Science, Management and Social Science, organized by Alpha Arts and Science College, Porur, Chennai on 24 February 2017.
- 43 **M R. Kale**, Nanocrystalline nickel ferrite thin films synthesized at room temperature and their structural and magnetic studies, paper presented in International Conference on Nanotechnology Addressing the Convergence of Material Science, Biotechnology and Medical Science organized by Center for Interdisciplinary Research, D. Y. Patil University, Kolhapur during, 9-11 November, 2017.
- 44 **M R. Kale**, Room Temperature Electro-synthesis of Nanocrystalline Nickel Oxide Thin Films, paper presented in National Conference on Emerging Trends in Basic Sciences, organized by Abasaheb Marathe College, Rajapur on January, 30 2018.
- 45 **M R. Kale**, Nanocrystalline Nickel Ferrite Thin Film Formation From Non Aqueous Bath Using Environment And Ecofriendly Route, paper presented in, International Conference on Environment, Development and Sustainability organized by Athalye-Sapre-Pitre College, Devrukh, on 15 December, 2018.
- 46 **M R. Kale**, Women In India And Law Governing Them, presented in National Seminar on Gender Sensitization and Women’s Rights, organized by Dr. Ambedkar College of Commerce and Economics, Wwadala, Mumbai on 22 september 2018.
- 47 **M R. Kale**, Single Step Room Temperature Electrosynthesis of Nickel Ferrite Thin Films, worked as invited speaker in International e-Conference on Material and Manufacturing 2021 organized by Signature Scientific Solutions, Pune and ES Publisher USA on 30 October 2021
- 48 **M R. Kale**, Electrochemical Supercapacitor Formed by Nickel Ferrite Thin Film deposited from Environment and Ecofriendly Electrochemical Route, presented paper in International e-Conference On ‘Environment, Development and Sustainability’ organized by ASP College, Devrukh during 29-30 March 2022.
- 49 **M R. Kale**, Single Step Electrosynthesis of Co-Ferrite Thin Films from Alkaline Non-Aqueous Bath, presented in International Conference on Material Science and

Manufacturing Technology (ICM SMT2022) organized by Akshaya College of Engineering and Technology Coimbatore, and Diligentec Solutions (Industry Partner), Coimbatore, Tamil Nadu, India during 8-9 April 2022.

- 50 **M R. Kale** and N. D. Barane, Synthesis and Characterization of Zinc Oxide Nanoparticles by Chemical Precipitation Method and Their Structural and Optical Properties, presented in International Conference on 'Recent Advances on Material Sciences' (RAMS-2024) organized by ASP college, Devrukh on 04 April 2024.
- 51 **M R. Kale** and A. N. Nandiskar, Synthesis and characterization of Nickel Zinc Ferrite by solgel method presented in International Conference on 'Recent Advances on Material Sciences' (RAMS-2024) organized by ASP college, Devrukh on 04 April 2024.