SANTOSH S. JADHAV

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Professional Summary

Associate Professor with over 26 years of successful experience in teaching, learning and evaluation. Recognized consistently for performance excellence and contributions to success in education field. Strengths in teaching and evaluation backed by training in research. Multi-talented teacher consistently rewarded for success in planning and operational improvements. Experience in policy development and staff management procedures positively impacting overall morale and productivity. Enthusiastic teacher eager to contribute for team success through hard work, attention to detail and excellent organizational skills. Clear understanding of teaching and evaluation and training in Research. Motivated to learn, grow and excel in teaching and research area. Senior lecturer and outstanding performer in curriculum planning and teaching within UG College. Proven success in leadership, operational excellence and organizational development with keen understanding of elements of teaching. Recognized for inspiring management team members to excel and encouraging creative work environments. Excellent reputation for resolving problems, improving student satisfaction, and driving overall operational improvements of the institution. Proven excellence in research by publishing the quality work in reputed international research journals with high impact factors and supervised successfully M. Phil. and Ph. D. awardee.

Skills

- Positive learning environment Teaching/tutoring
- Identifying problems
- English fluency
- Managing classroom for diverse populations
- Student motivation
- Audio-visual aid implementation
- Classroom discipline
- Documentation and reporting
- Tailoring curriculum plans
- Strong collaborator Advising
- Conflict resolution
- Expertise in teaching UG Physics course and research supervision to M. Phil and Ph. D. students
- Research project support Report writing
- Expertise in Synthesis and property analysis of nanocrystalline ferrites

Work History

Associate Professor at College — from 08/1995 to Current

Employer: Principal, D. S. M's Arts, Commerce and Science College, Jintur, Maharashtra, INDIA

- Taught 3 undergraduate classes per semester in 6 different streams of Physics.
- Worked with UG students and teaching assistants on development of classroom material and teaching practicums.
- Distributed course syllabus and responded to student questions and concerns regarding standards, material, grading and progression.
- Completed and submitted reports to administration detailing 6 course activities and plans. Selected and used appropriate support materials such as Over Head Projector and Power Point Show to meet student learning needs.
- Maintained regular office hours to help students with questions and provide educational support.
- Identified student strengths and weaknesses to create tailored learning activities, including extra coaching and remedial activities.
- Developed and implemented curriculum using academic learning strategies and educational pedagogy.

Education

Bachelor of Science: Physics, Mathematics and Electronics — 06/1991

Yeshwant Mahavidyalaya, Nanded, Maharashtra State, INDIA.

- Professional development completed in Physics and Electronics.
- Graduated with first division and 91.25% in Physics at final year
- Awarded Smt. Sakhubai Pande Award for securing highest number of marks (91.25%) in Physics from Dr. B. A. M. University, Aurangabad.
- Coursework in Physics, Mathematics and Electronics
- Majored in Physics

Master of Science: Physics (with specialization in Electronics) — 06/1993

J.E.S. College, Jalna, Maharashtra State, INDIA

- Coursework in Physics and Electronics
- Professional development completed in Physics
- Recipient of Rustamji Jalnawala Scholarship by J. E. S. College, Jalna
- Specialized in Electronics
- Dissertation: Microprocessor (8085) controlled temperature monitoring and control

Bachelor of Education: Teacher Education — 06/1994

Government College of Education – Nanded

- Professional development completed in teaching Science and Mathematics
- Elected as General Secretory of Student's Council of the college in 1993
- Graduated with 70.5%
- Member of Cultural club

Master of Philosophy: Physics — 01/2000

S.G.B. Amravati University – Amravati

- Coursework in Research Methodology, Electronics and Material Science
- Dissertation: Effect of past-electric field on electrical properties of polystyrene

Doctor of Philosophy: Physics — 03/2007

S.R.T.M. University – Nanded

- Thesis: Effect of dopants on magnetic and electrical properties of some soft ferrites.

Accomplishments

- Collaborated with team of King Saud University, Riyadh, Saudi Arabia in the development of Rare Earth substituted spinel ferrites.
- Supervised team of 10 staff members to conduct University examinations (UG).
- Research guidance / Supervision
  M. Phil. Awarded – 09
  Ph. D. Awarded – 02, In progress – 06

Affiliations

- Member, Indian Science Congress, Calcutta from2007 to Current date
- Research Supervisor, Microwave Research Laboratory, N.E.S. Science College, Nanded

Fellowships

- Visiting research fellow, JNCASR, Bangalore (2013).

Research Publications: Journals

- A.D. Patil, S.M. Patange, P.M. Dighe, S.F. Shaikh, A.u.H.S. Rana, B. Pandit, S.S. Jadhav, Tuning the structural, optical and magnetic properties of NiCuZn ($Ni_{0.4}Cu_{0.3}Zn_{0.3}Fe_2O_4$) spinel ferrites by Nb_2O_5 additive, Ceramics International (2022), doi: https://doi.org/10.1016/j.ceramint.2022.06.016.
- Shyam K. Gore, Umakant B. Tumberphale, Santosh S. Jadhav, Shoyebmohamad F. Shaikh, Abdullah M. Al-Enizi, Abu ul Hassan S. Rana, Ravindra N. Khule, Siddheshwar D. Raut, Tanay S. Gore, Rajaram S. Mane, Grain and grain boundaries influenced magnetic and dielectric properties of lanthanum-doped copper cadmium ferrites, Journal of Materials Science: Materials in Electronics (2022), https://doi.org/10.1007/s10854-022-07912-8.
- A.B. Mugutkar, S.K. Gore, S.M. Patange, R.S. Mane, S.D. Raut, S.F. Shaikh, M. Ubaidullah, B. Pandit, S.S. Jadhav, Ammonia gas sensing and magnetic permeability of enhanced surface area and high porosity lanthanum substituted Co–Zn nano ferrites, Ceramics International (2022), doi: https://doi.org/10.1016/j.ceramint.2022.02.033.
- Vivekanand B. Kawade, Santosh S. Jadhav, Sunil M. Patange, Siddheshwar D. Raut, Ravindra N. Khule, Umakant B. Tumberphale, Balaji Ghule, Shyam K. Gore, Structural, Morphological, and Dielectric Evaluation of Co^{2+} doped Zinc Ferrite Aluminate, Macromolecular Symposia 400 (2021) 2100103, http://dx.doi.org/10.1002/masy.202100103.
- A.D. Patil, R.A. Pawar, S.M. Patange, Santosh. S. Jadhav, S.K. Gore, S.E. Shirsath, S.S. Meena, TiO_2-doped $Ni_{0.4}Cu_{0.3}Zn_{0.3}Fe_2O_4$ nanoparticles for enhanced structural and magnetic properties, ACS Omega 6 (2021) 17931−17940, https://doi.org/10.1021/acsomega.1c01548.
- V.V. Awati, R.A. Pawar, S.M. Rathod, Santosh S. Jadhav, Mehboobali Pannipara, Abdullah G. Al-Sehemi, Influence of crystal size on structural, magnetic, mechanical, and dielectric properties of Ni-Cu-Zn nanoferrites, Journal of Materials Science: Materials in Electronics 32 (2021) 19786–19797, https://doi.org/10.1007/s10854-021-06503-3.
- D.L. Navgare, V.B. Kawade, S.F. Shaikh, S.S. Jadhav, U.B. Tumberphale, R.N. Khule, R.S. Mane, S.K. Gore, Structure-sensitive magnetic properties of nanocrystalline Co^{2+}-substituted Ni–Zn ferrite aluminates, Ceramics International 47 (2021) 26492–26500 https://doi.org/10.1016/j.ceramint.2021.06.062.
- J.B. Shitole, S.N. Keshatti, S.M. Rathod, S.S. Jadhav, Y^{3+} composition and particle size influenced magnetic and dielectric properties of nanocrystalline $Ni_{0.5}Cu_{0.5}Y_xFe_{2-x}O_4$ ferrites, Ceramics International 47 (2021) 17993–18002, https://doi.org/10.1016/j.ceramint.2021.03.114.
- S.S. Jadhav, S.P. Jadhav, R.S. Ramshetti, S.R. Kamble, S.M. Patange, Ferrimagnetic to paramagnetic transition and dielectric relaxation in $Ni_{1-x}Zn_xFe_2O_4$ ferrites, Ceramica 67 (2021) 139–144, http://dx.doi.org/10.1590/0366-69132021673823028.
- S.M. Rathod, A.R. Chavan, S.S. Jadhav, K.M. Batoo, M. Hadi, E.H. Raslan, Ag^+ ion substituted $CuFe_2O_4$ nanoparticles: analysis of structural and magnetic behavior, Chemical Physics Letters 765 (2021) 138308, https://doi.org/10.1016/j.cplett.2020.138308.

- A.B. Mugutkar, S.K. Gore, R.S. Mane, S.M. Patange, S.S. Jadhav, S.F. Shaikh, A.M. Al-Enizi, A. Nafady, B.M. Thamer, M. Ubaidullah, Structural modifications in Co–Zn nanoferrites by Gd substitution triggering to dielectric and gas sensing applications, Journal of Alloys and Compounds 844 (2020) 156178, https://doi.org/10.1016/j.jallcom.2020.156178.
- A.B. Mugutkar, S.K. Gore, U.B. Tumberphale, V.V. Jadhav, R.S. Mane, S.M. Patange, S.E. Shirsath, S.S. Jadhav, Role of composition and grain size in controlling the structure sensitive magnetic properties of Sm^{3+}substituted nanocrystalline Co-Zn ferrites, Journal of Rare Earths 38 (2020) 1069–1075), https://doi.org/10.1016/j.jre.2019.09.013.
- A.B. Mugutkar, S.K. Gore, U.B. Tumberphale, V.V. Jadhav, R.S. Mane, S.M. Patange, S.F. Shaikh, Mohd. Ubaidullah, A.M. Al-Enizi, S.S. Jadhav, The role of La^{3+} substitution in modification of the magnetic and dielectric properties of the nanocrystalline Co-Zn ferrites, Journal of Magnetism and Magnetic Materials 502 (2020) 166490, https://doi.org/10.1016/j.jmmm.2020.166490.
- U.B. Tumberphale, S.S. Jadhav, S.D. Raut, P.V. Shinde, S. Sangle, S.F. Shaikh, A.M. Al-Enizi, M. Ubaidullah, R.S. Mane, S.K. Gore, Tailoring ammonia gas sensing performance of La^{3+}-doped copper cadmium ferrite nanostructures, Solid State Sciences 100 (2020) 106089, https://doi.org/10.1016/j.solidstatesciences.2019.106089.
- S.S. Desai, S.M. Patange, A.D. Patil, S.K. Gore, S.S. Jadhav, Effects of Zn^{2+}-Zr^{4+} ions on the structural, mechanical, electrical, and optical properties of cobalt ferrites synthesized via the sol–gel route, Journal of Physics and Chemistry of Solids 133 (2019) 171–177, https://doi.org/10.1016/j.jpcs.2019.05.024.
- A.D. Patil, S.G. Algude, Sagar E. Shirsath, Santosh S. Jadhav, S. M. Patange, Elastic, impedance spectroscopic and dielectric properties of TiO_2 doped nanocrystalline NiCuZn spinel ferrites, Phase Transitions, 92 (2019) 790-797, https://doi.org/10.1080/01411594.2019.1644638.
- D.L. Navgare, V.B. Kawade, U.B. Tumberphale, Santosh S. Jadhav, R.S. Mane, Shyam K. Gore, Superparamagnetic cobalt-substituted copper zinc ferrialuminate: synthesis, morphological, magnetic and dielectric properties investigation, Journal of Sol-Gel Science and Technology 93 (2020) 633–642, https://doi.org/10.1007/s10971-019-05106-z.
- A.B. Mugutkar, S.K. Gore, R.S. Mane, K.M. Batoo, S.F. Adil, Santosh S. Jadhav, Magneto-structural behaviour of Gd doped nanocrystalline Co-Zn ferrites governed by domain wall movement and spin rotations, Ceramics International 44 (2018) 21675–21683, https://doi.org/10.1016/j.ceramint.2018.08.255.
- S.K. Gore, U.B. Tumberphale, S.S. Jadhav, R.S. Kawale, M. Naushad, R.S. Mane, Microwave-assisted synthesis and magneto-electrical properties of Mg-Zn ferromagnetic oxide nanostructures, Physica B: Physics of Condensed Matter 530 (2018) 177–182, https://doi.org/10.1016/j.physb.2017.11.044.
- R.A. Pawar, S.M. Patange, A.R. Shitre, S.K. Gore, S.S. Jadhav, S.E. Shirsath, Crystal chemistry and single-phase synthesis of Gd^{3+} substituted Co-Zn ferrite nanoparticles for enhanced magnetic properties, RSC Advances 8 (2018) 25258, https://doi.org/10.1039/C8RA04282A.
- S.K. Gore, S.S. Jadhav, U.B. Tumberphale, S.M. Shaikh, M. Naushad, R.S. Mane, Cation distribution, magnetic properties and cubic-perovskite phase transition in bismuth-doped nickel ferrite, Solid State Sciences 74 (2017) 88–94, https://doi.org/10.1016/j.solidstatesciences.2017.10.009.
- S.K. Gore, S.S. Jadhav, V.V. Jadhav, S.M. Patange, M. Naushad, R.S. Mane, K.H. Kim, Structural and magnetic properties of dual phase cobalt ferrite, Scientific Reports 7 (2017) 2524, https://doi.org/10.1038/s41598-017-02784-z.
- S.U. Ekar, G. Shekhar, Y.B. Khollam, P.N. Wani, S.R. Jadkar, M. Naushad, M.G. Chaskar, S.S. Jadhav, A. Fadel, V.V. Jadhav, J.H. Shendkar, R.S. Mane, Green synthesis and dye-sensitized solar cell application of rutile and anatase TiO_2 nanorods, Journal of Solid State Electrochemistry 21 (2017) 2713–2718, https://doi.org/10.1007/s10008-016-3376-3.
- R.A. Pawar, S.S. Desai, S.M. Patange, S.S. Jadhav, K.M. Jadhav, Inter-atomic bonding and dielectric polarization in Gd^{3+} incorporated Co-Zn ferrite nanoparticles, Physica B 510 (2017) 74–79, http://dx.doi.org/10.1016/j.physb.2017.01.011.
- S.S. Desai, R.A. Pawar, S.S. Jadhav, Sagar E. Shirsath, S.M. Patange, Role of Coupling Divalent and Tetravalent Metal Ions on the Elastic and Electric Properties of $CoFe_2O_4$ Ferrites Prepared by Sol–Gel Method, Journal of Superconductivity and Novel Magnetism 29 (2016) 2635–2640, https://doi.org/10.1007/s10948-016-3585-0.
- S.K. Gore, R.S. Mane, M. Naushad, S.S. Jadhav, M.K. Zate, Z.A. Alothman, B.K.N. Hui, Influence of Bi^{3+}-doping on the magnetic and Mossbauer properties of spinel cobalt ferrite, Dalton Transactions 44 (2015) 6384–6390, https://doi.org/10.1039/C5DT00156K.
- S.U. Ekar, Y.B. Khollam, S.A. Mirji, R.S. Mane, M. Naushad, S.S. Jadhav, Biosynthesis of silver nanoparticles by using Ganoderma-mushroom extract, Modern Physics Letters B 29 (2015) 1540047, https://doi.org/10.1142/S0217984915400473.

- K.S. Lohar, S.M. Patange, Sagar E. Shirsath, V.S. Surywanshi, S.S. Gaikwad, Santosh S. Jadhav, Nilesh Kulkarni, Structural refinement by Rietveld method and magnetic study of nano-crystalline Cu-Zn ferrites, International Journal of Advances in Engineering & Technology, 3 (2012) 354-361, http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.666.2030.
- S.M. Patange, S.E. Shirsath, S.S. Jadhav, K.M. Jadhav, Cation distribution study of nanocrystalline $NiFe_{2-x}Cr_xO_4$ ferrite by XRD, magnetization and Mossbauer spectroscopy, Physica Status Solidi A 209 (2012) 347–352, https://doi.org/10.1002/pssa.201127232.
- B.G. Toksha, Sagar E. Shirsath, M.L. Mane, S.M. Patange, S.S. Jadhav, K.M. Jadhav, Auto-combustion High-Temperature Synthesis, Structural, and Magnetic Properties of $CoCr_xFe_{2-x}O_4$ ($0 \leq x \leq 1.0$), Journal of Physical Chemistry C 115 (2011) 20905–20912, https://doi.org/10.1021/jp205572m.
- Sagar E. Shirsath, Santosh S. Jadhav, B.G. Toksha, S.M. Patange, K.M. Jadhav, Influence of Ce^{4+} ions on the structural and magnetic properties of $NiFe_2O_4$, Journal of Applied Physics 110 (2011) 013914, https://doi.org/10.1063/1.3603004.
- S.E. Shirsath, S.S. Jadhav, B.G. Toksha, S.M. Patange, K.M. Jadhav, Remarkable influence of Ce^{4+} ions on the electronic conduction of $Ni_{1-2x}Ce_xFe_2O_4$, Scripta Materialia 64 (2011) 773–776, https://doi.org/10.1016/j.scriptamat.2010.12.043.
- S.M. Patange, Sagar E. Shirsath, K.S. Lohar, S.S. Jadhav, Nilesh Kulkarni, K.M. Jadhav, Electrical and switching properties of $NiAl_xFe_{2-x}O_4$ ferrites synthesized by chemical method, Physica B 406 (2011) 663–668, https://doi.org/10.1016/j.physb.2010.11.081.
- S.M. Patange, S.E. Shirsath, G.S. Jangam, K.S. Lohar, S.S. Jadhav, K.M. Jadhav, Rietveld structure refinement, cation distribution and magnetic properties of Al^{3+} substituted $NiFe_2O_4$ nanoparticles, Journal of Applied Physics 109 (2011) 053909, http://dx.doi.org/10.1063/1.3559266.
- S.S. Jadhav, S.E. Shirsath, S.M. Patange, K.M. Jadhav, Effect of Zn substitution on magnetic properties of nanocrystalline cobalt ferrite, Journal of Applied Physics 108 (2010) 093920, http://dx.doi.org/10.1063/1.3499346.
- S.S. Jadhav, S.M. Patange, K.M. Jadhav, Dielectric behaviour study of nanocrystalline Co-Zn ferrite, Journal of Biomedical and Bioengineering 1 (2010) 21–29.
- S.M. Patange, K.S. Lohar, Sagar E. Shrisath, B.G. Toksha, S.S. Jadhav, N. Kulkarni, K.M. Jadhav, The effect of oxidizing agents on the electrical properties of cobalt ferrite, Physica Scripta 82 (2010) 045703, http://dx.doi.org/10.1088/0031-8949/82/04/045703.
- S.M. Patange, Sagar E. Shirsath, S.S. Jadhav, K.S. Lohar, D.R. Mane, K.M. Jadhav, Rietveld refinement and switching properties of Cr^{3+} substituted $NiFe_2O_4$ ferrites, Material Letters 64 (2010) 722–724, https://doi.org/10.1016/j.matlet.2009.12.049.
- Santosh S. Jadhav, Sagar E. Shirsath, B.G. Toksha, S.M. Patange, D.R. Shengule, K.M. Jadhav, Structural and electric properties of zinc substituted $NiFe_2O_4$ nanoparticles prepared by co-precipitation method, Physica B 405 (2010) 2610–2614, https://dx.doi.org/10.1016/j.physb.2010.03.008.
- S.M. Patange, Sagar E. Shirsath, B.G. Toksha, Santosh S. Jadhav, K.M. Jadhav, Electrical and magnetic properties of Cr^{3+} substituted nanocrystalline nickel ferrite, Journal of Applied Physics 106 (2009) 023914–023917, https://dx.doi.org/10.1063/1.3176504.
- S.M. Patange, Sagar E. Shirsath, B.G. Toksha, Santosh S. Jadhav, S.J. Shukla, K.M. Jadhav, Cation distribution by Rietveld, spectral and magnetic studies of chromium-substituted nickel ferrites, Applied Physics A: Materials and Processing 95 (2009) 429–434, https://doi.org/10.1007/s00339-008-4897-0.
- Jadhav S.S., Shirsath S.E., Toksha, B.G., Patange S.M., Shukla S.J., Jadhav K.M., Structural properties and cation distribution of Co-Zn nano-ferrites, International Journal of Modern Physics B 23 (2009) 5629–5638, http://dx.doi.org/10.1142/S021797920905225X.
- S.S. Jadhav, S.E. Shirsath, B.G. Toksha, D.R. Shengule, K.M. Jadhav, Structural and dielectric properties of Ni-Zn ferrite nanoparticles prepared by co-precipitation method, Journal of Opto-Electronics and Advanced Materials 10 (2008) 2644–2648, https://old.joam.inoe.ro/index.php?option=magazine&op=view&idu=1672&catid=31.
- S.S. Jadhav, S.E. Shirsath, B.G. Toksha, S.J. Shukla, K.M. Jadhav, Effect of cation proportion on the structural and magnetic properties of Ni-Zn ferrites nano-size particles prepared by co-precipitation technique, Chinese Journal of Chemical Physics 21(2008) 381, https://doi.org/10.1088/1674-0068/21/04/381-386.

Research Publications: Conference Proceedings

- S. M. Patange, K. S. Lohar, Y. A. Vijapure, S. S. Jadhav, S. P. Jadhav, S. E. Shirsath, D. R. Mane, K. M. Jadhav, Effect of Al^{3+} substitution on the structural and magnetic properties of Cu-Zn ferrite, Bionano Frontier Special Issue on NCANDT-2010, Shri Krushna Mahavidyalaya, Gunjoti, Tq. Omerga, Dist. Osmanabad, February 10-11, 2010.

- K. S. Lohar, S. M. Patange, D. R. Kulkarni, S. E. Shirsath, S. S. Jadhav, V. S. Suryawanshi, S. R. Kamble, D. R. Mane, Structural and magnetic properties of vanadium substituted nano Nickel Cadmium ferrites synthesized by sol-gel method, Bionano Frontier Special Issue on NCANDT-2010, Shri Krushna Mahavidyalaya, Gunjoti, Tq. Omerga, Dist. Osmanabad February 10-11, 2010.
- S. M. Patange, K. S. Lohar, S. E. Shirsath, S. S. Jadhav, D. R. Mane, K. M. Jadhav, Study of D. C. resistivity and dielectric properties of nano-size Cu-Zn ferrites, Bionano Frontier Special Issue on, ICLAM-2010, Abasaheb Garware College, Pune, March 6-8, 2010.
- Kishan S. Lohar, Sunil M. Patange, Venkatesh S. Suryawanshi, S.S. Jadhav, Sagar E. Shrisath, Eco- friendly normal michelle techniques for synthesis of ferrite nano particles, Bionano Frontier Special Issue on International Conference on Sustainable Enviornment Eco Revolution-2011, Eco-Needs Foundation (www.econeeds.org), 19-20 Feb, 2011.
- K.S. Lohar, S.M. Patange, S.E. Shirsath, S.S. Jadhav, Structural and frequency dependent dielectric properties of magnesium doped nickel ferrite, IEEE Xplore Conference Proceedings, Int. Conf. on Nanoscience, nanotech and Societal Implications NSTSI-2011(8-10 Dec 2011) Bhubaneswar Pg.1-2.
- S. K. Gore, Santosh S. Jadhav, R. S. Mane, Structural properties of nanocrystalline ferrimagnetic Mg-Cu-Zn ferrites, National Conference on Nanotechnology-2012, ISBN 978-81-924894-4-5, Maharashtra Mahavidyalaya, Nilanga.
- Santosh S. Jadhav, S. K. Gore, S. M. Patange, Magnetic properties of $Cu_{0.7}Zn_{0.3}Al_xFe_{2-x}O_4$ nano particles, International Journal of Advanced Research in Basic and Applied Science (IJARBAS), Special Issue, KSK College, Beed.
- S. K. Gore, Santosh S. Jadhav, S. M. Patange, K. T. Tehare, R. S. Mane, Infrared spectral study of Bi^{3+} doped Cobalt ferrite, International Journal of Advanced Research in Basic and Applied Science (IJARBAS), KSK College, Beed.
- S. M. Patange, Santosh S. Jadhav, S. K. Gore, S. E. Shirsath, S. G. Algude, K. M. Jadhav, Influence of Cr^{3+} on electric and dielectric properties of Copper-Zinc ferrite system, International Journal of Advanced Research in Basic and Applied Science (IJARBAS), KSK College, Beed.
- S. K. Gore, Santosh S. Jadhav, A. B. Mugutkar, K. K. Tehare, S. M. Patange, Distribution of cations in the matrix of Ni-Cu-Zn ferrite nanocrystals, Proceedings of the National Conference on Emerging trends in material characterization, 9-10 Feb' 2016, Padmashri Vikhe Patil College of Arts, Science and Commerce, Pravaranagar.
- R. A. Pawar, S. S. Desai, S. S. Jadhav, S. E. Shirsath, S. M. Rathod, S. M. Patange, Influence of Ce^{3+} ion on dielectric properties of nano barium hexaferrites, Proceedings of the National Conference on Emerging trends in material characterization, 9-10 Feb' 2016, Padmashri Vikhe Patil College of Arts, Science and Commerce, Pravaranagar.

Research Publications: Conference Presentations

- Santosh S. Jadhav, S. M. Patange, C. T. Birajdar, D. R. Shengule, K. M. Jadhav, Dielectric properties of Ni-Zn ferrites prepared by co-precipitation method, NCMRAT-2007, Dr.B.A.M.U., Aurangabad (29-31 Jan, 2007).
- Santosh S. Jadhav, S. M. Patange, B. G. Toksha, S. E. Shirsath, K. M. Jadhav, Electrical and dielectric properties of Co-Zn ferrites prepared by co-precipitation method, ICMAT-2007, Shivaji University, Kolhapur (15-17 Nov, 2007).
- S. S. Jadhav, B. G. Toksha, S. E. Shirsath, A. P. Keche, S. S. Jadhav, K. M. Jadhav, Synthesis and magnetic properties of Zn substituted cobalt ferrite nano particles prepared by wet chemical co-precipitation method, UGC-DAE Symposium-2007, Mysore (27-31 Dec, 2007).
- S. S. Jadhav, S. M. Patange, V. N. Dhage, A. B. Kadam, K. M. Jadhav, Role of Zn substitution in the matrix of $CoFe_2O_4$ nano particles, MMA-21, New Delhi (21-23 Oct, 2008).
- S. S. Jadhav, S. M. Patange, K. M. Jadhav, Relaxation characteristics and dielectric properties of Zn doped Cobalt spinel ferrite, Indo-US Workshop on AMM & their applications (1-4 may, 2009).
- Santosh S. Jadhav, Sunil M. Patange, Kishan Lohar, Ravi S. Kawale, Effect of Cu^{2+} ion substitution on physical properties of Mg-Zn nano ferrites, International Conference on Recent Trends in nano and Biosciences by Osmania University, Hyderabad (24-26 Feb 2010).
- Santosh S. Jadhav, S. M. Rathod, A. B. Shinde, J. H. Shendkar, S. M. Patange, Effect of Zn^{2+} substitution on physical properties of nanocrystalline magnesium ferrites, International Conference on Lasers and Advanced Materials, Abasaheb Garware College, Pune (6-8 March 2010).
- S. M. Patange, K. S. Lohar, S. S. Jadhav, K. M. Jadhav, Synthesis and characterization of $Cu_{0.7}Zn_{0.3}Al_xO_4$ nano particle using egg white Structural, Third national symposium for material research scholars MR-10, Indian Institute of Technology, Bombay (7-8 May 2010).
- S. S. Jadhav, S. K. Gore, S. E. Shirsath, S. M. Patange, K. S. Lohar, Properties of Co^{2+} substituted nano-crystalline Ni-Mg ferrite, International Conference on Nanoscience and Nanotechnology, School of Physical Sciences, S.R.T.M.U., Nanded (India) (January 11-13, 2011).
- S. S. Jadhav, S. K. Gore, R. S. Mane, Physical properties of nanocrystalline ferromagnetic Mg-Cu-Zn ferrites, National Conference on Nanotechnology-2012, Maharashtra Mahavidyalaya, Nilanga (7-8 Sept, 2012).

- S. S. Jadhav, S. K. Gore, S. M. Patange, K. S. Lohar, Effect of Cr ions on physical properties of Cu-Zn ferrite nano particles, National Conference on Recent Trends in Physics (NCRTP-2012), Mungsaji Maharaj Mahavidyalaya, Darwha, Dist. Yavatmal (26-27 Oct, 2012).
- S. S. Jadhav, S. M. Patange, S. K. Gore, S. M. Rathod, Nanocrystalline Cu-Zn-Cr ferrites, National Conference-NCETLEM 2013, Abasaheb Garware College, Pune (Oct. 28-29, 2013).
- S.S. Jadhav. S.K. Gore, R.S. Mane, Change in magneto-structural properties of bismuth doped cobalt ferrites, International Conference on Innovations in energy, Ploymer and Environmental Sciences (IEPES-2014), Rayat Shikshan Santha, Satara, Y.C. Institute of Sci., Satara and Shivaji University, Kolhapur (10-12 Jan, 2014).
- Santosh S. Jadhav, S. U. Ekar, S. K. Gore, Structural refinement and electrical properties of Zn substituted $NiFe_2O_4$ nano particles, International Conference on functional eco-friendly smart emerging materials, Baburaoji Gholap College, Sangvi, Pune (10-12 March 2016).
- Santosh S. Jadhav, Shyam K. Gore, Sunil M. Patange, Anil B. Mugutkar, R. S. Kawale, Effect of Ce^{3+} ions substitution in nanocrystalline Ni-Zn spinels, International conference on advanced functional materials ICAFM 2017, Rajiv Gandhi University of Knowledge Technologies, Basar, Telengana (18-20 Dec 2017).
- Santosh S. Jadhav, Anil Kalyankar, Synthesis of low Silicious Fly Ash Zeolite and their application for Copper Ion Removal, National e-Conference on Advances in Mathematics and Physics, Shree Datta Arts, Commerce and Science College, Hadgaon, Dist. Nanded (12 May 2021).

Chapters in a book

- Shyam K. Gore, Santosh S. Jadhav, Basics of ferrites, Spinel ferrite nanostructures for energy storage devices, ISBN: 978-0-12-819237-5, Micro and nano technologies 2020, Elsevier Inc., pg. 1-11, https://doi.org/10.1016/B978-0-12-819237-5.00001-8
- Sagar E. Shirsath, Danyang Wang, Santosh S. Jadhav, M. L. Mane, Sean Li, Ferrites obtained by sol-gel method, Handbook of sol-gel science and technology ISBN 978-3-319-19454-7, Springer International Publishing AG 2018, https://doi.org/10.1007/978-3-319-19454-7_125-1
- Santosh S. Jadhav, Sagar E. Shirsath, S. M. Patange, K. S. Lohar, S. M. Rathod, Physical properties of cobalt substituted nanocrystalline Ni-Mg ferrite, Processes and characterization of advanced nanostructured materials ISBN: 023-033-199-8, Macmillan Publishers India Limited, 2010, pg. 61-66.

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Research papers reviewed

- Journal of Alloys and Compounds
- Journal of Physics and Chemistry of Solids
- Materials Chemistry and Physics
- Physica B
- Journal of Rare Earths
- Arabian Journal of Chemistry
- Journal of King Saud University- Science
- Material Research Express
- Macromolecular Symposia
- Results in Physics
- WSPC Nano
- Applied Physics A: Materials and Processings
- Journal of Superconductivity and Novel Magnetism
- Journal of Dispersion Science and Technology
- ECS Journal of Solid State Science and Technology
- ACS Omega
- Physics Scripta
- Inorganic and nano-metal chemistry
- Engineered Science

- The European Physical Journal Plus
- Journal of Taibah University for Science
- Advances in Condensed Matter Physics
- Active and Passive Electronic Components
- Al-Bahir Journal for Engineering and Pure Sciences
- Green Processing and Synthesis

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Declaration

I hereby declare that the above information given by me is true to the best of my knowledge.

Date: 05/07/2022

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