

KLE Institute of Technology, Hubballi 580 027  
Faculty Profile



**Name: Shridhar N.Mathad**

<b>1.</b>	<b>Educational, professional qualifications, and trainings</b>				
<b>1.1.</b>	<b>Educational Qualification</b>				
<b>S.N.</b>	<b>Degree</b>	<b>University / College</b>	<b>Discipline</b>	<b>Year of Passing</b>	<b>Class obtained</b>
a)	Ph.D	Shivaji University, Kolhapur	Physics	2014	
b)	M.Sc	Karnataka University, Dharwad	Physics	2004	First class
c)	B.Sc	P.C.Jabin College of Science, Hubli, (KUD)	Physics, Mathematics & Electronics	2002	Distinction
<b>1.2.</b>	<b>Training programmes attended</b>				
<b>S.N.</b>	<b>Subject Area of Training</b>	<b>Organization</b>	<b>Place</b>	<b>Period / Duration</b>	
a)	National Level Refresher Course on Mathematical Physics	Indian Academy of Science (IISC)	Swami Vivekanand University, Belurmath, Howrah	May 14-26,	2007
<b>1.3.</b>	<b>Membership of National and International Professional Bodies/Organisations</b>				
<b>S.N.</b>	<b>Name of Professional Body/Organization</b>	<b>Place</b>	<b>Membership Category</b>		
a)	International Society for Research and Development (F3140900595 Fellow member)	London, United Kingdom	Fellow Member (Life time)		
b)	Institute For Engineering Research and Publication (PMIN03698752)	India	Member (Life time)		
c)	International Organization of Scientific Research and Development (E201901041)	India	Fellow Member (2019-23)		
d)	International Association of Engineers (187490)	Hong Kong	Fellow Member (Life time)		
e)	Universal Association of Computer and Electronics Engineers (SNM10100058595 Senior Member)	India	Senior Member (2017-2020)		
<b>1.4.</b>	<b>Technical Papers/Books Published in National / International Events / Journals</b>				
a)	<b>Books</b>				
	[1] S.N.Mathad, " <b>Synthesis, Characterization and Microwave Studies of Thick Films</b> ", LAP LAMBERT Academic Publishing Founded in Germany, 2019, ISBN (978-3-659-86275-5)				

**Journal Papers**

1. Jalgar Sandhya, Narayankar H and Mathad S.N, A Review on Advancing Sustainability: Exploring the Potential of Cork and Granite Sludge Composite Materials in Infrastructure Development, ***Nanomedicine & Nanotechnology Open Access, Nanomed Nanotechnol 2024, 9(1): 0 0 0 297 DOI: 10.23880/nnoa-16000297, ISSN: 2574-187X MEDWIN PUBLISHERS***
2. Tandel R.C, Sunitha, Bagal S, Kamat C, Kotekar S, Naik S, Patil S, Kakati S, Mathad S.N, Shirgaonkar D.B, Patil R.K, Rendale M.K, Deshpande SM and Pujar RB, Tailored Synergy: Synthesis and In-Depth Structural Analysis of  $x[\text{Ni}_{0.2}\text{Cu}_{0.3}\text{Co}_{0.5}\text{Fe}_2\text{O}_4] + (1-x)[\text{Ba}_{0.7}\text{Sr}_{0.3}\text{TiO}_3]$  Composites, ***Nanomedicine & Nanotechnology Open Access (NNOA), 1 2024, 9(1): 0002, ISSN: 2574-187X, DOI: 10.23880/nnoa-16000293***
3. Priyanka Kashid, S.N.Mathad, Mahadev R. Shedam, Rakesh R. Shedam, Low Temperature Chemical Synthesis and Investigation of Cadmium Substituted of Structural Properties of Cobalt Nano Ferrites, ***Journal of Metastable and Nanocrystalline Materials, ISSN: 2297-6620, Vol. 39, pp 37-47(2024)***
4. Shweta G. M, L. R. Naik, R. B. Pujar, S. N. Mathad, Chetan D. M, S. Jambaladinni, Cobalt, Copper and Magnesium Doped Nickel Zinc Nanoferrites by Solution-Combustion Method: Structural, Antibacterial and Antifungal Properties, ***Journal of Metastable and Nanocrystalline Materials. ISSN: 2297-6620, Vol. 39, pp 21-36 (2024)***
5. Priyanka Kashid, S.N. Mathad, M.R. Shedam, Amita Somya, AbuZar Ansari, Mohamed Hashem, Majed M. Alsarani, Omar Alageel ,Facile fabrication and grain-size depended on structural behavior of Cadmium-Substituted nano Co-Ni ferrites by chemical method, ***Ain Shams Engineering Journal, Vol. 15, Issue 3,2024,102549, ISSN 2090-4479, https://doi.org/10.1016/j.asej.2023.102549.***
6. D.B. Shirgaonkar, M.A. Yewale, D.K. Shin, S.D. Pawar, J.L. Gunjekar, S.N. Mathad, R.J. Deokate, Umesh.T. Nakate,Nanofibrous Polythiophene-SnO2 composite Films: A novel approach for Low-Temperature NO<sub>2</sub> sensing,***Materials Science and Engineering: B, Volume 299,2024, 116959,ISSN 0921-5107,https://doi.org/10.1016/j.mseb.2023.116959.***
7. Sandhya R Jalgar, A.M Hunashyal, A.K. Roopa, M.A. Umarfarooq, S.N. Mathad, Madhumati.S Dhaduti, Implementation of Cement-based nano composite Energy Absorption Damper to improve the damping properties of concrete and monitoring applications, ***E3S Web of Conferences 455, 03019 (2023) https://doi.org/10.1051/e3sconf/202345503019***
8. Mallikarjunagouda PatilSavitri G. HunasikaiShridhar N. MathadArun Y. ,PatilChandrashekhar G. HegdeM.A. Sudeept, Enhanced O<sub>2</sub>/N<sub>2</sub> separation by QuaternizedMatrimid/Multiwalled carbon nanotube mixed-matrix membrane, ***Heliyon Vol. 9Issue 11Published online: November 7, 2023***
9. Preeti M. P, Basavaraj S, Shridhar N. Mathad, E. Veena, Sheela Gandad, A Review On Non-Metal And Metal Doped Zno: Fundamental Properties And Applications, ***Acta Periodica technologica APTEFF, Vol. 54, 1-335 (2023) , DOI: https://doi.org/10.2298/APT2354277P 2.***
10. Jalgar S.R, Hunashyal A.M, Mathad S.N. and Bannur M.S, A Review of Experimental and Comparative Study of Cork-Based Nanocomposite Dampers with Normal Dampers in the Field of Construction, ***Nanomedicine & Nanotechnology Open Access, 2023, 8(4): 000277.***
11. Prithviraj Kandekar, Akshay Acharya<sup>1</sup>, Basangouda Patil<sup>1</sup>, Aakash Chatta,Arun Y Patil, Shridhar Mathad, Design and analysis of alternative coating bio-material for Gas turbine engine blade for high temperature aerospace application, International

***Journal of Advanced Science and Engineering, Vol.9 No 4 3106-3114 (2023)***

12. Arun Y. Patil, Tajammul H M Mysore, A. B. Kulkarni, **S.N. Mathad**, M. B. Patil, Thermo Gravimetric Analysis study of kinematic parameters and statistical analysis for Big Sheep Horn/Scapula bone of Indian origin, Vol. 54, December 2023, ***Acta Periodica technologica***, APTEFF, Vol. 54, 1-335 (2023) DOI: <https://doi.org/10.2298/APT2354021P>
13. Sangam S.A , Thabaj K.A , Mathad S N. and Shirgaonkar D.B, "Mini Review on Polymers and their Applications" ***Nanomedicine & Nanotechnology Open Access, Volume 8 Issue 3,1-6***
14. D.A. Gole, S. B. Kapatkar, S.N. Mathad, Rakesh R. Chavan, Synthesis and structural and magnetic studies of nano  $\text{Co}_{1-x}\text{Mg}_x\text{Fe}_2\text{O}_4$  ferrites, ***International Journal of self-propagating high temperature synthesis (Submitted)***
15. Sushant, S.K., Choudhari, N.J., Patil, S. *et al.* Development of M-NiFe<sub>2</sub>O<sub>4</sub> (Co, Mg, Cu, Zn, and Rare Earth Materials) and the Recent Major Applications. ***Int. J Self-Propag. High-Temp. Synth.*** **32,** **61-116** **(2023).** <https://doi.org/10.3103/S1061386223020061>
16. Prithviraj Kandekar, Akshay Acharya<sup>1</sup>, Basangouda Patil<sup>1</sup>, Aakash Chatta<sup>1</sup>, Arun Y Patil, Shridhar Mathad, Design and analysis of alternative coating bio-material for Gas turbine engine blade for high temperature aerospace application, ***International Journal of Advanced Science and Engineering, Vol.9 No 4 3106-3114 (2023)***
17. P. Kashid, H. K.Suresh, **S.N.Mathad**, Rakesh Shedam, M. R. Shedam, Facile fabrication and detailed Structural behavior of Cadmium-Substituted Nano Co-Ni Ferrites by chemical method, ***Nanomaterials (Submitted)***
18. Alexsteven Dharmdas, Arun Y. Patil, Azar Baig, Owais Z Hosmani, Shridhar N Mathad, Mallikarjunagouda B Patil, Raman Kumar, Basavaraj B.Kolturshettar, Islam Md Rizwanul Fattah, An Experimental and Simulation Study of the Active Camber Morphing Concept on Aerofoils Using Bio-Inspired Structures, ***(Accepted) Biomimetics (Q2)***
19. Pathan A.T., Shaikh A.M., Sushant S. and Mathad S.N. 2023. Effect of synthesis methods and comparative study of structural properties of micro and nano Ferrites. ***Physics and Chemistry of Solid State.*** 24, 1 (Mar. 2023), 77-83. DOI:<https://doi.org/10.15330/pcss.24.1.77-83>. ( Q3)
20. Al-Zahrani, Salma A., Mallikarjunagouda B. Patil, Shridhar N. Mathad, Arun Y. Patil, Ahmed Al Otaibi, Najat Masood, Dorsaf Mansour, Anish Khan, Vikas Gupta, Niraj S. Topare, Amita Somya, and Manikandan Ayyar. 2023. "Photocatalytic Azo Dye Degradation Using Graphite Carbon Nitride Photocatalyst and UV-A Irradiation" ***Crystals*** 13, no. 4: 577. <https://doi.org/10.3390/cryst13040577> ( Q2)
21. Patil, M.B., Vader, S.G., Mathad, S.N. *et al.* The effect of ZIF-8 nanoparticle concentration on microwave-assisted synthesis of poly (vinyl alcohol)-*co*-acrylic acid copolymeric membranes and their potential application in fuel cell. ***Emergent mater.*** **6,** 755-767 (2023). <https://doi.org/10.1007/s42247-023-00497-w> (Q2)
22. S. A. Al-Zahrani, M. B. Patil , Shridhar Mathad, A. Y. Patil, Ahmed Al Otaibi, Najat Masood, Dorsaf Mansour, Anish Khan, A. Manikandan, Edi Syafri, Photocatalytic degradation of Textile Orange 16 reactive dye by ZnO nanoparticles synthesized via Green Route using Punica Granatum leaf extract, ***Crystals*** ,**2023**, **13**(2), 172; <https://doi.org/10.3390/cryst13020172> (Q2)
23. Joshi, D., Savanur, A., P. Rathod, L., Mathad, S., Patil, A., & Patil, M. (2022).

- Transparent Sheet Heater with Flexibility based on Poly (vinyl alcohol) Embedded with Sodium Tungstate. *Journal of Computers, Mechanical and Management*, 1(2), 01–08, 2022, <https://doi.org/10.57159/gadl.jcmm.1.2.22016>
24. Patil, M.B., Mathad, S.N., Patil, A.Y. M. Ali Hussein, Abeer M. Alosaimi, A. M. Asiri, A. Manikandan & Mohammad Mujahid Ali Khan, Functional Properties of Grapefruit Seed Extract Embedded Blend Membranes of Poly(vinyl alcohol)/Starch: Potential Application for Antiviral Activity in Food Safety to Fight Against COVID-19. *J Polym Environ*, (2022). <https://doi.org/10.1007/s10924-022-02742-5> (Q1)
25. Patil, A.Y., C. Hegde, G. Savanur, S. M. Kanakmood, A.M. Contractor, V. B. Shirashyad, Rahul M. Chivate, Basavaraj B. Kotturshettar, Shridhar N. Mathad, M. B. Patil, Manzoore Elahi M. Soudagar, and Islam Md Rizwanul Fattah. 2022. "Biomimicking Nature-Inspired Design Structures—An Experimental and Simulation Approach Using Additive Manufacturing" *Biomimetics*, 7, no. 4: 186. <https://doi.org/10.3390/biomimetics7040186> (Q2)
26. A. Al Otaibi, M.B. Patil, S.B. Rajamani, S.N. Mathad, Arun Y. Patil, A.M. K., Jilani, Purusottapatnam Shaik, A. M. Asiri, Dr Anish Khan, Development and Testing of Zinc oxide embedded Sulfonated Poly(vinyl alcohol) Nanocomposite Membranes for Fuel Cells, *Crystals* 2022,Q2 12, 1739. <https://doi.org/10.3390/cryst12121739> (Q2)
27. Kakati, S.S., Makandar, T.M., Rendale, M.K. et al. Green Synthesis Approach for Nanosized Cobalt Doped Mg–Zn through Citrus Lemon Mediated Sol–Gel Auto Combustion Method. *Int. J Self-Propag. High-Temp. Synth.* 31, 131–137 (2022). <https://doi.org/10.3103/S1061386222030049> (Q3)
28. K.P. Mudholakar, S.Vinaykumar, Vinut V.Tambe, S.V. Angadi, S.S. Kakati, S. N.Mathad, S.S.Tirlapur, I.B Madalagi, D. B. Shirgaonkar, A.S. Pujar, S.L.Galagali, P.R. Jeergal, S.S.Khemalapur, C.S.Hiremath, R.B.Pujar, Effect of Sintering condition on Magnetization and Microstructure of  $\text{Cu}_x\text{Co}_{(1-x)}\text{Fe}_2\text{O}_4$  Ferrites, *Int. J. Adv. Sci. Eng.* Vol.9 No.2 2678-2685 (2022) 2678, <https://doi.org/10.29294/IJASE.9.2.2022.2678-2685>
29. R. M.Shedam, Azeem M.Bagwan, S.N.Mathad, Ashok B.Gadkari, Mahadev R.Shedam, Rajendra G.Sonkawad,  $\text{Nd}^{3+}$  added Mg– Cd ferrite material study the thick film gas sensing properties, *Materials Chemistry and Physics*, Volume 293, 1 January 2023, 126871 <https://doi.org/10.1016/j.matchemphys.2022.126871> (Q2)
30. R.M. Shedam, A. B. Gadkari, S. N.Mathad, M.R. Shedam, Ferrites gas sensors: A Review: Sensors", *Physics and Chemistry of Solid State*, *Physics and Chemistry of Solid State Vol. 23 No. 3 (2022)*, <https://doi.org/10.15330/pcss.23.3.626-640> (Q4)
31. M. Patil, S. B. Rajamani, S.N. Mathad, A. Y. Patil, Mahmoud A. Hussain, Hajer Saeed Alorfii, Anish Khan, Abdullah M. Asiri, Imran, Khan, Madhu Puttegowda, Microwave-Assisted Synthesis of Poly (Acrylamide-co-2-Hydroxyethyl Methacrylate)/Chitosan Semi-IPN ZnO Nanocomposite Membranes for Food Packaging Applications, *Journal of Materials Research and Technology*, Volume 20, September–October 2022, Pages 3537-3548 (I.F=6.5, (Q1)
32. A. Patil, S.N.Mathad, "Thermal studies of Big sheep horn as Thermal Barrier Coating(TBC) material for Gas turbine compressor blade", *Acta Periodica technologica*, APTEFF, 53, 1-302 (2022), DOI:

<https://doi.org/10.2298/APT2253176A> (Q3)

33. R. Shedam, S.N.Mathad, Priyanka Kashid, H. K.Suresh, , Mahadev R. Shedam Synthesis and Characterization of Nd<sup>3+</sup> Doped Mg-Cd Ferrite (Mg<sub>0.5</sub>Cd<sub>0.5</sub>Nd<sub>0.01</sub>Fe<sub>1.99</sub>O<sub>4</sub>) Nanoparticles Prepared in the Form of a Thick Film for Gas Sensing Applications, **J. NANO- ELECTRON. PHYS. 14, 03027 (2022) (Q4)**
34. Sangam S.A, Thabaj K.A, Kulkarni R.M, and Mathad S.N, Degradation and Kinetics Study of Enrofloxacin using Diperiodato Cuprate (III) in Alkaline Medium, *Nanomed Nanotechnol* 2022, 7(3): 000223, DOI: 10.23880/nnoa-16000223 (I.F =1.5)
35. Sandhya R.Jalgar, Anand M. Hunashyal, **S.N.Mathad**, Raghavendra Jalgar, Engineering Properties and Investigations of Emerging Modern Construction GGBS Based Geopolymer Concrete, *Int. J. Adv. Sci. Eng. Vol.9 No.1 2497-2504 (2022) 2497*
36. Priyanka Kashid, H. K.Suresh, S.N.Mathad, Rakesh Shedam, Mahadev R. Shedam, A Review on Synthesis, Properties and Applications on Cobalt Ferrite, *Int. J. Adv. Sci. Eng. Vol.9 No.1 2567-2583 (2022) 2567*
37. Shashidharagowda. H , S. N.Mathad , Shridhar Malladi , Vinod Gubbiveeranna ,C G Kusuma and S Nagaraju, Fabrication, microstructure and haemostatic activity of Cu-Zn manganite nano-particles" **Journal of Materials Research and Technology (Submitted)**
38. S.S.Gandhad, P.R.Jeergal, E.Veena, L. Hublikar, L.D.Horakeri, S.N.Mathad, "Synthesis and Characterization of Silver Nanoparticles using Green Route", **Int. J. Adv. Sci. Eng. Vol.8 No.2 2194-2199 (2022) 2194.**
39. Devi A. Gole, S. B. Kapatkar, Shridhar N. Mathad, Rakesh R. Chavan, Influence of pH Variation on Structural Properties of Nano-Sized Cobalt Ferrites, **Inorganic and Nano-Metal Chemistry, DOI: 10.1080/24701556.2022.2047070 (Q3)**
40. Shishir.R.Patil, Shridhar N. Mathad, S.S.Gandhad, M.C. Ellemmi, "Smart Trolley with Automatic Billing System using Arudino", **Int. J. Adv. Sci. Eng. Vol.8 No.2 2194-2199 (2022) 2194**
41. Patil, M.; Mathad, S.N.; Patil, A.Y.; Arshad, M.N.; Alorfi, H.S.; Puttegowda, M.; Asiri, A.M.; Khan, A.; Azum, N. Synthesis and Characterization of Microwave Assisted Copolymer Membranes of Poly(vinyl alcohol)-g-starch methacrylate and Their Evaluation for Gas Transport Properties. **Polymers, 2022, 14, 350. <https://doi.org/10.3390/polym14020350> ( Q1, I.F=4.324)**
42. Vijay, V.R. Hiremath, S.N. Mathad, " Synthesis, characterization and evaluation of δ-Al<sub>2</sub>O<sub>3</sub> nanoparticles prepared by chemical method with variation of pH", **J. NANO-ELECTRON. PHYS. 14, 03027 (2022) (Q4)**
43. **Sushant S.K, S.N.Mathad** "Green synthesis approach for nano sized Cobalt doped Mg-Zn through Citrus Limon mediated sol-gel auto combustion method", **International Journal of Self-Propagating High-Temperature Synthesis 31, pages131-137 (2022) (Q3)**
44. S.U Durgadsimi, V.R.Kattimani, Maruti N S and S N Mathad "Synthesis, XRD, SEM and FTIR analysis of nickel ferrite synthesized by co-precipitation method" **Eurasian Physical Technical Journal, 2021, Vol.18, No.4(38) (Q3)**
45. Shashidharagowda. H , S. N.Mathad , S.Malladi , V. Gubbiveeranna ,C G Kusuma and S Nagaraju, Sol-Gel Co-Precipitation Synthesis, Anticoagulant and Anti-Platelet Activities of Copper-Doped Nickel Manganite Nanoparticles, **Gels, 2021, 7, 269.**

## Faculty Profile

[doi.org/10.3390/gels7040269](https://doi.org/10.3390/gels7040269) (Q1, I.F=4.75)

46. R. C. Bharamagoudar, A. S. Patil, L. B. Kankanawadi, **S.N.Mathad**, Structural, Dielectric, and Magnetic Properties of SCS-Produced Copper Zinc Nanoferrites, *International Journal of Self-Propagating High-Temperature Synthesis*, **2021**, *Vol. 30, No. 4, pp. 241–245* (Q3, I. F.: 0.80)
47. A. B. Kulkarni, S. R. Manohara, R. Vishwaroop, S. N. Mathad, Electrical and Dielectric studies of the Cd doped Co-Ni ferrites synthesized by solid state reaction method" *Macromolecular Symposia*, **2021**, **400**, **2100113** (Q3. I.F=0.75)
48. Shashidharagowda.H, Shridhar N.Mathad, Synthesis, Structural, Vibrational, Magnetic Characterization of copper substituted Cobalt Manganite nano particles,*Science of Sintering 2021 Volume 53, Issue 4, Pages: 429-444* (Q2 Impact Factor: 1.17)
49. R. Vishwaroop, S. N. Mathad, A. B. Kulkarni, S. R. Manohara, "Influence of Zinc doped structural properties of nano-MgFe<sub>2</sub>O<sub>4</sub> Ferrites Synthesized by Co-Precipitation Method", *Macromolecular Symposia* **2021**, **400**, **2100088** (Q3. I.F=0.75)
50. S. Kakati, M. K. Rendale, and S. N. Mathad, Synthesis, Characterization, and Applications of CoFe<sub>2</sub>O<sub>4</sub> and M-CoFe<sub>2</sub>O<sub>4</sub> [M = Ni, Zn, Mg, Cd, Cu, Rare Earth materials (RE)] Ferrites (A review), *Int. J Self-Propag. High-Temp. Synth.* **2021**, *Vol. 30, No. 4, pp. 189–219.* (Q3, Impact Factor: 0.80)
51. S. Kulkarni, A.H. Patil, S.N.Mathad, U.V.Khadke, Dielectric Spectroscopy of Ferroelectric Crossbred PVDF-ZnO Polymer Composite Thin Films, *JOURNAL OF NANO- AND ELECTRONIC PHYSICS*, Issue, Volume 13, Year 2021, Number 4, Pages 04014-1 - 04014-5 (Q3, I.F=0.80)
52. Sandhya R.Jalgar, Anand M. Hunashyal, S.N.Mathad, Raghavendra Jalgar Mechanical Properties of novel hardened cement paste reinforced with Multi-Walled Carbon Nano-Tubes (MWCNTs) and Glass Fibers Nano material, *Int. J. Adv. Sci. Eng.* **Vol.8 No.1 2033-2040 (2021) 2033**
53. A.Y. Patil, A. Naik, Bhavik Vakani, R. Kundu, N.R. Banapurmath, M. Roseline, L.Krishnapillai, S. N. Mathad, Next Generation Material for Denture Teeth and Denture Base Material: Limpet Teeth (LT) as an Alternative Reinforcement in Polymethylmethacrylate (PMMA), *JOURNAL OF NANO- AND ELECTRONIC PHYSICS*, **Vol. 13 No 2, 02033(6pp) (2021)** (Q3, I.F=0.80)
54. Akshay B. Kulkarni, Shridhar N. Mathad, "Effect of cadmium doping on structural and magnetic studies of Co-Ni ferrites", *Science of Sintering*, **53** (2021) (Q2, Impact Factor: 1.17)
55. Shweta G. M, L. R. Naik, R. B. Pujar, S. N. Mathad, Influence of Magnesium doping on structural and elastic parameters of Nickel Zinc nanoferrites, *Materials Chemistry and Physics* [Volume 257](#), 1 January 2021, 123825 (Q2, Impact Factor: 3.5)
56. Koushallya M. Halamani, Shalini K. Mathad, **Kulkarni A. B.**, Jeergal P.R., Hiremath C.S., Shridhar N.Mathad, Pujar R.B., "Variation of structural properties of Al doped Ni-Cd ferrites with sintering time", *Eurasian Physical Technical Journal*, Vol.17(2), pp. 34, (2020).( Q4)
57. Devi A. Gole, S. B. Kapatkar, Shridhar N. Mathad, Rakesh R. Chavan, Facile Co-precipitation route for Magnesium Ferrites nanostructure: synthesis, influence of

- pH Variation on Structural Properties, *Science of sintering Vol 53 No 1 (2021)*, (Q2, Impact Factor: 1.17)
58. S.H Gurlhosur, S.N. Mathad, V.M. Patil, Regeneration of used Ironoxide nanoparticles ( $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>) in reduction of Chromium (VI) and Cadmium (II), *Asian J. Research Chem.* **13(5): September – October, 2020**.
59. Shweta, G.M., Naik, L.R., Pujar, R.B. et al. Copper-Doped Nickel Zinc Nanoferrites by Solution-Combustion Synthesis Using Sucrose as a Fuel. *Int. J Self-Propag. High-Temp. Synth.* **29, 208–212 (2020)** ( Q3, Impact Factor: 0.80)
60. Kolekar, R.Y., Kapatkar, S.B. & Mathad, S.N. Nickel-Doped Cobalt Zinc Ferrites Co<sub>0.8-x</sub>Ni<sub>x</sub>Zn<sub>0.2</sub>Fe<sub>2</sub>O<sub>4</sub> (x = 0.0–0.56) by Solid-State Reaction: Synthesis and Characterization. *Int. J Self-Propag. High-Temp. Synth.* **29, 196–201 (2020)** ( Q3, Impact Factor: 0.80)
61. M. B. Patil , Amshumali M. K, Shridhar Mathad , SiO<sub>2</sub> embedded Nano-composite copolymeric membranes of poly (vinyl alcohol)-G-polyacrylic acid for pervaporation separation of binary organic/organic mixtures, *ACTA CHEMICA IASI*, **28\_2, 209-224 (2020)**
62. R. Vishwaroop, S.N.Mathad, Synthesis, Structural, W-H plot and Size-Strain analysis of Nano cobalt doped MgFe<sub>2</sub>O<sub>4</sub> Ferrite "*Science of Sintering, Vol 52 No 3 (2020)*, (Q2, Impact Factor: 1.17)
63. Rakesh Vishwarup , Shridhar N. Mathad, Facile synthesis of Nano Mg-Co ferrites(x=0.15, 0.20, 0.25, 0.30, 0.35, and 0.40) via coprecipitation route: structural characterization, *Materials International*, **2020, 2, 0471-0476**
64. Shweta, G.M., Naik, L.R., Pujar, R.B. et al. Cobalt-Doped Nickel Zinc Nanoferrites by Solution-Combustion Synthesis: Structural and Elastic Parameters. *Int. J Self-Propag. High-Temp. Synth.* **29, 157–161 (2020)** ( Q3, Impact Factor: 0.80)
65. Shashidhargowda H and Shridhar NM. Facile Co-Precipitation Route for Zn<sub>1-x</sub>Cu<sub>x</sub>Mn<sub>2</sub>O<sub>4</sub> Nanostructure: Synthesis, Characterization, and Magnetic Studies. *Nanomed Nanotechnol*, **2020, 5(3): 000196**
66. M. B. Patil , Amshumali M. K, Shridhar Mathad, Poly(VINYL ALCOHOL) and MCM-41 mixed matrix membranes for pervaporation dehydration of isopropanol at their Azeotropic point, *ACTA CHEMICA IASI*, **27\_1, 73-86 (2020)**
67. Devi A. Gole, S. B. Kapatkar, Shridhar N. Mathad, Rakesh R. Chavan, In vitro antimicrobial activity of cobalt ferrite nanoparticles synthesized by Co-precipitation method, *ACTA CHEMICA IASI*, **28\_2, 225-236 (2020)**
68. Shweta G. M , L. R. Naik , R. B. Pujar , S. N. Mathad, Cobalt-Doped Nickel Zinc Nanoferrites by Solution-Combustion Synthesis: Structural and Elastic Parameters, *International Journal of Self-Propagating High-Temperature Synthesis* **29, pages 157–161 (2020)**, ( Q3, Impact Factor: 0.80)
69. Shrikrishna H Gurlhosur , Dr Sreekanth B , Shridhar N.Mathad , Optimization of variable parameters in the photocatalytic reduction of Chromium (VI) using Iron oxide Nano-particles by Response Surface Methodology (RSM), *International Journal of Advanced Science and Engineering (Submitted)*
70. Sadiya Kazi, Feeda Savanur, Sushant Kakati, S.N.Mathad, P.R.Jeergal, A.S.Pujar, C.S.Hiremath, S.L.Galgali, M.K.Rendale, R B pujar, Sintering temperature dependent structural and mechanical studies of Ba<sub>x</sub>Pb<sub>1-x</sub>TiO<sub>3</sub> ferroelectrics, *Journal of Nano-and Electronic Physics* **12 No 4, 04018 (2020)**

## Faculty Profile

71. Shweta, G.M., Naik, L.R., Pujar, R.B. et al. Cobalt-Doped Nickel Zinc Nanoferrites by Solution-Combustion Synthesis: Structural and Elastic Parameters. *Int. J Self-Propag. High-Temp. Synth.* **29**, 157–161 (2020), ( Q3, Impact Factor: 0.80)
72. R.Vishwarup, S.N.Mathad, Elastic properties of nano  $Mg_{1-x}Co_xFe_2O_4$  ( $x = 0.15, 0.2, 0.25, 0.3, 0.35$  and  $0.4$ ) synthesized by co-precipitation method, *Materials Science for Energy Technologies*, Vol. 3, 2020, pp. 559-565
73. Lata C. Shidaganal , Akshay B. Kulkarni, S.B.Kapatkar , Shridhar N.Mathad, R.B.Pujar , Al-Doped Co-Cd Nanoferrites by Solution-Combustion Synthesis: Preparation and Structural Characterization, *International Journal of Self-Propagating High-Temperature Synthesis* **29**, pages176–180(2020), ( Q3, Impact Factor: 0.80)
74. Shashidharagowda.H, Akshay Kulkarni, Shridhar N.Mathad, “Synthesis and structural studies of  $Zn_{0.95}Cu_{0.05}Mn_2O_4$  ceramics”, *Macromolecular symposia*, **2020, 392, 1900151 (Q3)**
75. Akshay B. Kulkarni, S. N. Mathad, N.D.Hegde , Shashidharagowda H., Influence of cadmium doping on structural and mechanical properties Co-Ni nano ferrites, *Macromolecular symposia*, 22 December 2021, [doi.org/10.1002/masy.202100088](https://doi.org/10.1002/masy.202100088) (Q3)
76. Shashidhar.G, *S.N.Mathad*, Effect of incorporation of copper on structural properties of spinel nickel manganites by co-precipitation method , *Materials Science for Energy Technologies*, Volume 3, 2020, Pages 201-208
77. S.S.Gandhad, Preeti.M.Patil, S.N.Mathad, L.V.Hublikar, P.R.Jeergal, R.B.Pujari "Effect of aluminum doping on structural and mechanical properties of Ni-Mg Ferrites, *International Journal of Self-Propagating High-Temperature Synthesis* , 2019, Vol. 28, No. 4, pp. 271–273. ( Q3, Impact Factor: 0.80)
78. Pratibha Bakale, Pragati Guggari, Apeksha Keste, A.S.Pujar, S.N.Mathad, C.S.Hiremath, P.R.Jeergal, R.B.Pujar, Synthesis, Structural and Mechanical Properties of  $Ni_{1-x}Cd_xFe_2O_4$  ferrites ( $X=0.1, 0.2, 0.3,$  and  $0.4$ ), *Int. J. Adv. Sci. Eng. Vol.6 No.1 117x-117x (2019) Accepted*
79. S.L.Galagali, R.A.Patil, R.B.Adaki, C.S.Hiremath, *S.N.Mathad*,R.B.Pujar, “FTIR and Elastic Properties of  $Mg_{1-x}Cd_xFe_2O_4$  ferrite systems”, *Songklanakarin Journal of Science and Technology Vol. 41 No.5 ,September - October, 2019*
80. S.H Gurlhosur, Sreekanth B , U. B.Deshannavar , S.N.Mathad , Synthesis, characterization and application of talc/Fe<sub>3</sub>O<sub>4</sub> nano composite in the photocatalytic degradation of methylene blue dye, *International Journal of Advanced Science and Engineering, Vol.5 No.4 1146-1153 (2019)*
81. A.Y Patil, M. Satapute, S.N.Mathad: Investigation of quarter turns pneumatic actuator for its structural rigidity and design strength, *Journal of Mechanical Engineering ( Submitted)*
82. Kolekar, S.B.Kapatkar, S.N.Mathad, ,Synthesis and characterization of  $Co_{0.8-x}Ni_xZn_{0.2}Fe_2O_4$  ferrites by Williamson–Hall and size–strain plot methods, *ACTA CHEMICA IASI*, 27\_1, 73-86 (2019)
83. A.Y. Patil, N. R. Banapurmath, J. S. Yaradoddi, B. B. Kotturshettar, A.shok S. Shettar, G. D. Basavaraj, T. M. Y. Khan, S.N. Mathad, Experimental and Simulation Studies on Waste Vegetable Peels as Bio-composite Fillers for Light Duty Applications, *Arabian Journal for Science and Engineering*, pp 1–13 ( Accepted June 2019)
84. *S. N Mathad*,A. Kulkarni,; R. Bakale, “The evaluation of kinetic parameters for



- cadmium doped Co-Zn ferrite using thermogravimetric analysis”, *Ovidius University Annals of Chemistry Volume 30, Number 1, pp. 60 - 64, 2019.*
85. S.S.Gandhad, P.M.Patil, S.N.Mathad, L.V.Hublikar, P.R.Jeergal, R.B.Pujari, and S. U. Durgadsimi Structural, Williamson-Hall Plot and Size-strain Analysis of  $Mg_xNi_{1-x}Al_xFe_{2-x}O_4$  Ferrites, *International Journal of Advanced Science and Engineering*, Vol.5 No.41146-1153(2019) 1146
  86. R. C. Bharamagoudar, J. Angadi V, A. S.Patil, L. B .Kankanawadi, **S.N.Mathad** , Structural and dielectrical studies of nano Mn-Zn ferrites prepared by combustion method, *International Journal of Self-Propagating High-Temperature Synthesis*, 2019, Vol. 28, No. 2, pp. 132–136. ( Q3, I.Factor: 0.80)
  87. **S. N. Mathad**,; Akshay Kulkarni, Variation in structural and mechanical properties of Cd-doped Co-Zn ferrites,*Materials Science for Energy Technologies* , Volume 2, Issue 3, December 2019, Pages 455-462
  88. S.C.Dhaduthi,S.N.Mathad,Shridhar.H.B, Preparation and analysis of mechanical properties of short sisal and glass fiber reinforced composite, *International Journal of Advanced Science and Engineering*,VOL.5,No3.1009-1016
  89. S.U.Durgadsimi, S.S.Chougule, R.G.Kharabe, S.N.Mathad, M.K.Rendale, Synthesis and structural studies of  $Li_{0.5}Ni_{0.75-x/2}Zn_{x/2}Fe_2O_4$  ferrites, *International Journal of self propagating high temperature synthesis*, 2019, Vol. 28, No. 1, pp. 71–73. ( Q3, Impact Factor: 0.80)
  90. S. S. Khemalapure, P. L. Hosamani, S. N. Mathad, A. S. Pujar, C. S. Hiremath, Pundalik R. Jeeragal, S. S. Pawar, and Rangappa B. Pujar, Synthesis, Structural and Dielectric Properties of Ni–Zn–Cu Ferrites, *Advanced Science, Engineering and Medicine*, Vol. 11, pp. 1–8, 2019
  91. M.S.Bannur, K.I.Maddani, **S.N Mathad**, P.S.Patil, Optical and Structural Properties of (110) Plane Textured Zinc Doped Tin Oxide Thin Films, , *International Journal of self propagating high temperature synthesis*, 2019, Vol. 28, No. 1, pp. 34–38, ( Q3, Impact Factor: 0.80)
  92. **Shridhar N. Mathad**, Mechanical and Structural Properties of  $Zn_{0.1}Ni_{0.4}Cu_{0.5}Fe_2O_4$  Ferrite, *Int. J. Adv. Sci. Eng. Vol.5 No.2 911-916 (2018)*
  93. A.Y. Patil, S. N. Mathad ,Design and analysis of alternative material for bird strike on aircraft windshield, *Technological Engineering*, volume XV, number 2/2018 ISSN 1336 - 5967
  94. R. C. Bharamagoudar, A. S.Patil, L. B .Kankanawadi, **S.N.Mathad** ,Magnetic and antibacterial studies of nano ferrites prepared by self propagating high-temperature synthesis route, *ACTA CHEMICA IASI*, 26\_2, 249-262 (2018), ( Q3, Impact Factor: 0.80)
  95. Shashidhar.G, **S.N.Mathad**, Synthesis and Structural Analysis of  $Ni_{0.45}Cu_{0.55}Mn_2O_4$  by Williamson–Hall and Size–Strain Plot Methods, *Ovidius University Annals of Chemistry*, Volume 29, Number 2, 2018
  96. M.K. Rendale, **S.N.Mathad**, Vijaya Puri, Resonance Shifting by Ferrite Thick film Superstrate, *SERBIAN Journal of Electrical Engineering*,Vol. 15, No. 3, October 2018, 275-284
  97. S. Patil, D. Mahadik, M.R.Shedam ,S. N. Mathad, R.M. Shedam, “ Shielding of metals from the corrosion induced by water and humidity by using scratch resistant and hydrophobic silica coatings” *Journal of Research in Physics* , Volume,39, Issue 1,

*Pages, 23-30,2018*

98. A.Y. Patil, S. N. Mathad A Novel Mechatronics approach to measure the payload of heavy duty vehicle, **Technological Engineering**, volume XV, number 1/2018 ISSN 1336 - 5967
99. A.Y. Patil, S. S.Gad, S.C Policepatil, Shivanandgouda Patil, S. N. Mathad, Design and analysis of backpack structure for schoolchildren using FEA tool, **Int. J. Adv. Sci. Eng. (IJASE), Vol.5,No.1 862-870, (2018)**
- 100.A. S. Pujar, A.B. Kulkarni, **S. N. Mathad**, C.S.Hiremath, M.K. Rendale, M.R. Patil, R.B.Pujar, Synthesis, Structural, FTIR and Electrical properties of  $\text{Cu}_x\text{Co}_{1-x}\text{Fe}_2\text{O}_4$  (  $x=0,0.4,1$  ) Prepared by Solid State Method, **International Journal of self propagating high temperature synthesis, July 2018, Volume 27, Issue 3, pp 174–179** |( Q3, Impact Factor: 0.80)
- 101.Lata C. Shidaganal, Sheela S. Gandhad, C. S. Hiremath, **S. N. Mathad**, P. R. Jeergal, and R. B. Pujar, “Effect of Al doping on structural and mechanical properties of Ni-Cd ferrites” *AIP Conference Proceedings 1953, 130025 (2018); doi: 10.1063/1.5033169*
- 102.M. Prasad, A. Kuppasat,V. Kamat,J. Bhadrapur,P. Shiggavi, **S.N.Mathad**, “Design, analysis and fabricate cylindrical parabolic concentrator by local available materials”, **Journal of Research In Mechanical Engineering and Applied Mechanics, Vol 3, No 2,pp1-22 (2018)**,
- 103.S.N.Adarakatti ,V. S.Pattar ,P.K. Korishettar, B.V. Grampurohit, R.G.Kharabe , A.B.Kulkarni, C.S.Hiremath ,R.B.Pujar , **S.N.Mathad**, Synthesis, Structural and electrical studies of Li-Ni-Cu Nano ferrites, **Acta Chemica Iasi, Volume 26: Issue 1 ,17 Jul 2018 , Page Count: 1–12**
- 104.S.L.Galagali, R.A.Patil, R.B.Adaki, C.S.Hiremath, **S.N.Mathad**,R.B.Pujar, “Influence of Cadmium substitution in magnesium ferrites on Structural and Mechanical properties”, **Science of Sintering**, 50 (2018) 217-223, (Impact Factor: 1.17)
- 105.S.L.Galagali, R.A.Patil, R.B.Adaki, C.S.Hiremath, S.N.Mathad,,R.B.Pujar, “Electrical and magnetic properties of Mg-Cd ferrites”, **International Journal of Self-Propagating High-Temperature Synthesis, April 2018, Volume 27, Issue 2, pp 107–113, ( Q3, Impact Factor: 0.80)**
- 106.S. D. Vasawade, S. S. Paramaje, N. J. Choudhari, B. V. Grampurohit, M. K. Rendale, **S. N. Mathad**, C. S. Hiremath, R. B. Pujar, “Structural and Dielectric Properties of lead free Zr-doped Barium Titanates” **International Journal of Self-Propagating High-Temperature Synthesis, January 2018, Volume 27, Issue 1, pp 26–32, ( Q3, Impact Factor: 0.80)**
- 107.A. S. Molakeri, Sangshetty Kalyane, **S.N.Mathad**, “Comparative study of nickel ferrite nano-ferrites synthesized by combustion and microwave route”, **International Journal of Self-Propagating High-Temperature Synthesis, January 2018, Volume 27, Issue 1, pp 44–50, ( Q3, IF: 0.80)**
- 108.A. B. Kulkarni , **S.N. Mathad**, “Synthesis and structural analysis of Co-Zn-Cd ferrite by Williamson-Hall and Size-Strain Plot Methods”, **International Journal of Self-Propagating High-Temperature Synthesis, January 2018, Volume 27, Issue 1, pp 37–43, ( Q3, Impact Factor: 0.80)**
- 109.S.N. Timmagoudar, C. C. Baseganni, D. V. Patil, M. H. Gohil,S. B. Akkisagar,Manjunath Prasad, **S. N.Mathad**, “Design and Working of Semi Automated Dish Washer”,

**World Journal of Technology, Engineering and Research, Volume 3, Issue 1 (2018) 126-138**

- 110.A.B.Kulkarni, S N.Mathad, Effect of sintering temperature on structural properties of Cd doped Co-Zn ferrite, *Journal of Nano- and Electronic Physics*, **V.10, №1, 2018. - P. 01001-1 - 01001-5.**
- 111.M. R. Shedam, R.M.Shedam, **S.N.Mathad** "Morphological and FTIR studies of Barium oxalate single crystals" *Acta Chemica Iasi*, **25,2,195-207,2017**
- 112.P. Kashid, Mahadev.Shedam, A. B. Kulkarni, S. N.Mathad, R. Shedam, "Synthesis and structural studies of nano  $\text{Co}_{0.85}\text{Cd}_{0.15}\text{Fe}_2\text{O}_4$  ferrite by Co-precipitation Method", *Journal of Advanced physics*, **6, 545-548 (2017)**
- 113.A. S. Molakeri, Sangshetty Kalyane, **S.N.Mathad**, "Elastic Properties of nickel ferrite synthesized by combustion and microwave method using FTIR spectra" "*International Journal of Advanced Science and Engineering*, **Vol.3 No.4 422-427 (2017) 422**
- 114.M.K.Rendale, **S.N.Mathad** and V. Puri , "Structural, Mechanical and Elastic Properties of  $\text{Ni}_{0.7-x}\text{Co}_x\text{Zn}_{0.3}\text{Fe}_2\text{O}_4$  Nano-ferrite thick-films", *Microelectronics international*, **Vol. 34 Issue: 2, pp.57-63 2017.**
- 115.M.R.Patil, M.K.Rendale, **S. N.Mathad** and R.B.Pujar , "Electrical and magnetic properties of  $\text{Cd}^{+2}$  doped Ni-Zn ferrites" *INORGANIC AND NANO-METAL CHEMISTRY*, **2017, VOL. 47, NO. 8, Pages 1145-1149, 2017**
- 116.M.G. Prasad. A.G.Girimath, S. Rao, A.J.Vinekar, D.C.Patil, S.N.Timmanagoudar, **S.N.Mathad**, "FFT studies of Sisal fiber reinforced polymer composites", *Int. J. Adv. Sci. Eng. Vol.4 No.2 605-611 (2017) 605*
- 117.M.G. Prasad. A.G.Girimath, S. Rao, A.J.Vinekar, D.C.Patil, S.N.Timmanagoudar, **S.N.Mathad** , "Investigation of Vibration and Mechanical properties of sisal fiber reinforced polymer composites" *Advanced Journal of Graduate Research* , **Volume 1, Issue 1, pp. 40-48, January 2017**
- 118.Shrinivas T, R Kamballi, Mahalaxmi K , Avinash L , **S. N. Mathad**, "Multipurpose pedal operated power generation and water pumping", *The Journal of Recent Trends in Mechanics*, **Volume 1 Issue 3,20-32,2016**
- 119.M. R. Shedam, R.M.Shedam, **S.N.Mathad**, "Microstructures of  $\text{CdC}_2\text{O}_4 \cdot 3\text{H}_2\text{O}$  single crystal grown in silica gel" *Journal of nano- and electronic physics*. **Vol. 8 No 4(2), 04075(4pp) (2016)**
- 120.R.M. Shedam, A. B. Gadkari, **S. N.Mathad**, M. R. Shedam , "Synthesis and structural investigation of nano-sized cadmium ferrite". *Journal of Modern Materials*, **Vol. 2 Issue 1, pp. 7-12, October 2016.**
- 121.R.M. Shedam, A. B. Gadkari, **S. N.Mathad**, M.R. Shedam "Structural and Mechanical Properties of nano-sized magnesium ferrite by Oxalate Co-Precipitation Method", *International Journal of Self-Propagating High-Temperature Synthesis*,**Vol.26, issue.1,2017, ( Q3, Impact Factor: 0.80)**
- 122.M.R.Patil, M.K.Rendale, **S. N.Mathad** and R.B.Pujar, "Infrared spectral studies and elastic properties of of Cd-substituted Ni-Zn ferrite system" *International Journal of Self-Propagating High-Temperature* **Vol.26, issue.1,2017. ( Q3, Impact Factor: 0.80)**
- 123.S. Patil, D. Mahadik and M R Shedam **S. N. Mathad** "Study of Super hydrophobic Silica coatings on different substrates" to Processing and Application of Ceramics

**(submitted Aug.2016)**

- 124.S. S. Yattinahalli, **S.N.Mathad**, S. B. Kapatkar, " Review :Nanoscience Materials and its applications", *Research J. Engineering and Tech. 7(3): July- September, 2016*
- 125.M. R. Shedam, R.M.Shedam, **S.N.Mathad**, "Effect of Acid Impurities on Nucleation and Growth Mechanism of Cadmium Selenide Single Crystal in Silica Hydrogels" *Journal of Nanotechnology and Nano-Engineering, Volume 2 Issue 3,1-8,October 2016.*
- 126.**S. N. Mathad**, M. K. Rendale, R.N. Jadhav, V.Puri, "Study of lead free ferroelectrics using overlay technique on thick film microstrip ring resonator (MSRR)", *Processing and Application of Ceramics 10 [1] (2016) 41-46 .(I.F=0.94)*
- 127.M.G. Hudedmani, V. M. Soppimath, **S.N.Mathad**, "Impacts of energy generation on Environment", *International Journal of Electrical and Electronics Engineers, Vol 8,Issue 1,Jan 2016.*
- 128.S. S. Yattinahalli , S. B. Kapatkar , **S.N.Mathad**, "Synthesis and structural characterization of Nano - manganese ferrites" *Journal Of Nano- And Electronic Physics,Vol 7,4, 04096-1 - 04096-3,Dec 2015.*
- 129.M.K. Rendale, **S.N.Mathad**, Vijaya Puri, ""Dielectric and magnetic properties of substituted Li-Zn ferrite thick films clouded over a half wavelength microstrip rejection filter." ,*International Journal of Self-Propagating High-Temperature Synthesis, 2016, Vol. 25, No. 2, pp. 86-91.(I.F=0.65)*
- 130.M.R.Patil, M.K.Rendale, S. N.Mathad and R.B.Pujar, "Structural and IR study of  $Ni_{0.5-x}Cd_xZn_{0.5}Fe_2O_4$ ", *International Journal of Self-Propagating High Temperature Synthesis, 2015, Vol. 24, No. 4, pp. 241-245. ( Q3, Impact Factor: 0.80)*
- 131.P.R. Hiremath, M. K. Rendale ,**S.N.Mathad** "Comparative Dielectric Relaxation studies of 2-Ethoxybenzonitrile, 4-Ethoxybenzonitrile, 1-Bromo 2,4-Difluorobenzene, 2,6-Difluorobenzaldehyde and 2-Bromo 4-Fluoroanisole in Benzene" *Materials Focus, Volume 4, Number 5, October 2015, pp. 370-378(9)*
- 132.M.K. Rendale, **S.N.Mathad** and V.Puri , "Thick Films of Magnesium Zinc Ferrite with Lithium Substitution: Structural Characteristics" *International Journal of Self-Propagating High Temperature Synthesis, Vol. 24, No. 2, pp. 112-117,2015. ( Q3, Impact Factor: 0.80)*
- 133.P.R. Hiremath, M. K. Rendale, S.N.Mathad, "Impact of viscosity on dielectric relaxation time of some organic molecules", *Journal of Advanced physics. 4, 134-138 (2015).*
- 134.**S.N.Mathad** , P. Jadhav , V. Puri , "Dielectric and electrical properties of  $Sr_xBa_{1-x}Nb_2O_6$  ( $0.40 \leq X \leq 0.75$ ) ceramics" ,*Journal of Advanced physics, Volume 4, Number 1, March 2015, pp. 19-24(6)*
- 135.**S. N. Mathad**, V. Puri, "Microwave Studies of Environmental Friendly Ferroelectrics", *International Scholarly Research Notices, Volume 2014, Article ID 683986,6 pages. Oct.2014.*
- 136.**S.N.Mathad**, R.N.Jadhav, P Jadhav, V.Puri, "Modification of Ag Thick Film Microstripline Due to Superstrate Strontium Barium Niobate Thick-Films",*International Journal of Computing and Technology ,Vol. 1, Issue 1, Feb. 2014.*
- 137.S.S.Yattinahalli, **S.N.Mathad**, S.B.Kapatkar, "Structural Studies of Zinc Ferrite Synthesized at Low Temperature", *International Review, 1,1, 5-8, June 2014.*

- 138.A.T.Pathan ,**S.N.Mathad** ,A. M. Shaikh, "Infrared Spectral studies of Co<sup>2+</sup> substituted Li-Ni-Zn Nano-structured Ferrites", International Journal of Self-Propagating High Temperature Synthesis, Vol. 23, No. 2, pp. 112–117,2014. ( Q3, Impact Factor: 0.80)
- 139.S.S.Yattinahalli,S.B.Kapatkar **S.N.Mathad**, "Structural and mechanical properties of a nano ferrite" , Advanced Science Focus, Vol. 2, pp. 42–46, 2014.
- 140.**S.N.Mathad**, R.N.Jadhav, V.Phadtare, V. Puri, "Structural and Mechanical Properties of Strontium doped Barium Niobate Thick-films", International Journal of Self-Propagating High Temperature Synthesis,vol. 23, no. 3,2014. ( Q3, Impact Factor: 0.80)
- 141.**S.N.Mathad** , R.N.Jadhav, V.Phadtare, V.Puri. "Response of Ag thick film microstripline due to superstrate strontium substituted bismuth manganites" Journal Of Nano- And Electronic Physics, Vol. 6 No 2, 02009(3pp),2014.(*IF=0.70*)
- 142.**S. N. Mathad**, R.N. Jadhav, V. Puri, "Microwave Studies of Bismuth Strontium Manganite Thick-Films by Superstate Method",Open Journal of Modern Physics, 2372-6288,2014
- 143.**S. N. Mathad**, R. N. Jadhav and V. Puri "Microwave studies by perturbation of Ag thick film microstrip ring resonator using superstrate of bismuth strontium manganites" **Microelectronics International Vol. 30, No. 2, pp. 85–91,2013.(*IF=0.80*)**
- 144.**S. N. Mathad**, R. N. Jadhav, R. P. Pawar, V. Puri "Dielectric Spectroscopy and Microwave Conductivity of Bismuth Strontium Manganites at High Frequencies" Electronic Materials Letters, Vol. 9, No. 1, pp. 87-93,2013. .(*IF=3.98*)
- 145.**S.N.Mathad** , R. N. Jadhav ,R.P.Pawar , V. Puri "Electromagnetic Behavior of Lead Free Ferroelectrics at Microwave Frequencies",**Advanced Science Engineering and Medicine, Vol. 5, pp. 1–7,2013.**
- 146.R. N. Jadhav, **S. N. Mathad** and V. Puri, "Properties of fritless Ni<sub>0.6</sub>Cu<sub>0.4</sub>Fe<sub>y</sub>Mn<sub>2-y</sub>O<sub>4</sub> NTC ceramic thick films", Physica Scripta, Vol. 87,pp .065801-08,2013. .(*IF=2.2*)
- 147.R. N. Jadhav, **S. N. Mathad**, V. Puri "Studies on the properties of Ni<sub>0.6</sub>Cu<sub>0.4</sub>Mn<sub>2</sub>O<sub>4</sub> NTC ceramic due to Fe doping" **Ceramics International Vol. 38, pp. 5181–5188,2012. .(*IF=2.0*)**
- 148.N.D.Patil, P.S. Jadhav, R.N. Jadhav, **S. N. Mathad**, Vijaya Puri, "Electromagnetic properties of self propagating auto combustion synthesized nano-crystalline Pb(Zr<sub>0.52</sub>Ti<sub>0.48</sub>)O<sub>3</sub>," **International Journal of Self-propagating High Temperature Synthesis, Vol.22, Issue 3, pp 141-146,2013. ( Q3, Impact Factor: 0.80)**
- 149.**S.N.Mathad**, R.N.Jadhav, N. D. Patil, V. Puri, "Structural and mechanical properties of Sr<sup>+2</sup> doped bismuth manganite thick films" **International Journal of Self-propagating High Temperature Synthesis, Vol.22, Issue4,pp180-184,2013. ( Q3, Impact Factor: 0.80)**
- 150.R. Jadhav, S.P.Patil, **S. N. Mathad**, S. A. Kanade, V. Puri, "Perturbation of Ag thick film microstrip ring resonator due to superstrate Ni<sub>0.6</sub>Co<sub>0.4</sub>Ag<sub>y</sub>Mn<sub>2-y</sub>O<sub>4</sub> ceramics" **AIP Conf. Proc. 1536, 1193 ,2013.(*IF=1.3*)**
- 151.S. S. Yattinahalli, S. B. Kapatkar,N. H. Ayachit, **S. N. Mathad**, "Synthesis and Structural Characterization of Nanosized Nickel Ferrite" **International Journal of Self-Propagating High-Temperature Synthesis, Vol. 22, No. 3, pp. 147–150,2013. ( Q3, Impact Factor: 0.80)**
- 152.R. S. Pawar,**S.N.Mathad**, N. D. Patil, V.Puri, "Modification of Ag Thick Film

Microstripline Due to Superstrate Ni-Cu-Fe-Mn-O ceramics”, **International Journal of Engineering and Innovative Technology**, 3, 4, 2013.

153. **S.N. Mathad**, R.N. Jadhav, N.D.Patil, V. Puri, “Response of Ag thick film microstripline to perturbation of bulk lead free ferroelectric ceramics”, **CRT-2013 Conferences proceedings in IET Digital library ISBN: 978-1-84919-868-4, 2013.**

154. **S. N. Mathad**, R. N. Jadhav, V.Puri “Raman studies of Rod-like Bismuth strontium manganites” **European Journal of Applied Engineering and Scientific Research**, Vol.1, No. 3, pp. 67-72, 2012.

155. **S. N. Mathad**, R. N. Jadhav, R. P. Pawar, V. Puri “Studies on Rod Shaped Bismuth Strontium Manganite Ceramics ” **Science of Advanced Materials** 4, 12, Vol.6, pp. 1276-1281, 2012. (IF=3.3)

156. **S. N. Mathad**, V. Puri “Structural and dielectric properties of  $Sr_xBa_{1-x}Nb_2O_6$  ferroelectric ceramics” **Archives of Physics Research**, Vol.3, No. 2, pp. 106-115, 2012.

#### Presentations in Conferences

- [1] Ravikumar Kolekar, S.B.Kapatkar, S.N.Mathad, Synthesis and structural study of  $Co_{0.8-x}Ni_xZn_{0.2}Fe_2O_4$  ferrites by solid state reaction METHOD, Fourth International Conference on Advances in Materials Science, 20th–21st JANUARY 2020, RAJE RAMRAO MAHAVIDYALAYA, Jath, Maharashtra
- [2] Akshay B. Kulkarni, S. N. Mathad, N.D.Hegde, Shashidharagowda H., Priyanka Kashid, Influence of cadmium doping on structural and mechanical properties Co-Ni nano ferrites, Fourth International Conference on Advances in Materials Science, 20th–21st JANUARY 2020, RAJE RAMRAO MAHAVIDYALAYA, Jath, Maharashtra (**BEST POSTER AWARD**)
- [3] Shashidharagowda, Akshay Kulkarni, Shridhar Mathad, Synthesis and structural studies of  $Zn_{0.95}Cu_{0.05}Mn_2O_4$  ceramics, Fourth International Conference on Advances in Materials Science, 20th–21st JANUARY 2020, RAJE RAMRAO MAHAVIDYALAYA, Jath, Maharashtra
- [4] Priyanka P. Kashid, Shridhar N.Mathad, Mahadev Shedam, Akshay B.Kulkarni, Preparation and Characterizations of cadmium substituted cobalt ferrite nanoparticles, Fourth International Conference on Advances in Materials Science, 20th–21st JANUARY 2020, RAJE RAMRAO MAHAVIDYALAYA, Jath, Maharashtra
- [5] S.N.Mathad, A.B.Kulkarni, Shashidhar.H, Influence of cadmium substitution in  $Co_{0.5}Zn_{0.5}Fe_2O_4$  on structural and mechanical properties, National Conference on Nano Materials for Sustainable Development - 2019 (NMSD - 2019), GovindramSeksaria Science College, Belagavi from 1-2 February 2019 (**BEST POSTER AWARD**)
- [6] Shashidhar.H, S.N.Mathad, A.B.Kulkarni, Synthesis and Study copper doped nano  $NiMn_2O_4$  NTC ceramics by coprecipitation method, National Conference on Nano Materials for Sustainable Development - 2019 (NMSD - 2019), GovindramSeksaria Science College, Belagavi from 1-2 February 2019
- [7] Shridhar N. Mathad, Shivaleela. B. Hoonallib, Shaila. P. Unakal, Sweta. S. Papti, “A Review on Overlay method ,
- [8] S.N.Mathad, A.B.Kulkarni, “Synthesis and Structural analysis of  $Co_{0.5}Zn_{0.5}Cd_{0.6}Fe_{1.4}O_4$  ferrite ” One Day National Conference On “Recent Trends in Chemical Science and Its Interdisciplinary Applications, 06th January, Department of Chemistry, Shri Yashwantrao Patil Science College, Solankur, Maharashtra (**BEST PAPER AWARD**).
- [9] S. N. Mathad, S.S.Mathad, and S.S.Yattinahalli, “Synthesis and structural studies of

# KLE Institute of Technology, Hubballi 580 027

## Faculty Profile

- bismuth manganite” P.C.JabinCollege,Hubli. “ADVANCES IN SOFT MATTER AND LOW DIMENSIONAL MATERIAL” held at P.C. Jabin College, Hubli on 20<sup>th</sup> and 21<sup>st</sup> Feb 2015.
- [10] S.N. Mathad, M.K.Rendale, Vijaya Puri “Investigation of  $\text{Sr}_{0.75}\text{Ba}_{0.25}\text{Nb}_2\text{O}_6$  using overlay technique on thick film microstrip ring resonator at microwave frequencies”, Natinal level Raman Memorial conference 2015, 13-14 Mar. 2015, Pune University, Pune.
- [11] M.G.Hudedmani, S.N.Mathad, V.M. Soppimath, “Environmental impacts of Energy generation”, Indian Congress of Civil Engineers, 05 Dec2015, Department of Civil Engineering ,Acharya Institute of Technology, Bangalore.
- [12] Prasad Kadolkar, S. G. Joshi, S.N.Mathad and S. S. Yattinhalli “Simulation, Purification and Harvesting of Overland Flows in Tier-2 Cities”, Indian Congress of Civil Engineers, 05 Dec2015, Department of Civil Engineering ,Acharya Institute of Technology, Bangalore.
- [13] S. N. MathadNikhik] ,ChetanAkki, and V. Puri “PTC Thermistor Properties of Strontium Barium Niobates”, International Conference on “Science and Technology (ICST-2K14), S.B.Patil College OF Engineering, Indapur, PUNE, Feb. 21-22,2014.
- [14] S. S. Yattinahalli, S. B. Kapatkar, S.N.Mathad , “Texture analysis and Mechanical properties of zinc ferrite” International Conference on “Science and Technology (ICST-2K14), S.B.Patil College OF Engineering, Indapur, PUNE, Feb. 21-22,2014.
- [15] S.N. Mathad, R.N. Jadhav, V.Puri, “Preparation and characterization of  $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Nb}_2\text{O}_6$  ceramics” National Seminar on Physics of Materials and Materials Based Device Fabrication (NSPM-MDF-2011), Department of Physics, Shivaji University, Kolhapur.
- [16] R.Jadhav, S. N. Mathad, V. Mane, V.Puri “Effect of iron and nickel on microwave properties of thick film zinc manganite ceramic”Feb.,11-13,2013,Kalpakkam,Tamil Nadu.
- [17] R. Jadhav, S. P. Patil, S. N. Mathad, S. A. Kanade, V. Puri, “Perturbation of Ag thick film microstrip ring resonator due to superstrate  $\text{Ni}_{0.6}\text{Co}_{0.4}\text{Ag}_y\text{Mn}_{2-y}\text{O}_4$  ceramics” Proceeding of international conference on recent trends in applied physics and material science: RAM 2013,Bikaner, Rajasthan, India.
- [18] S.N.Mathad, Pramod.V, Saji.KV.Puri, “Microwave studies of environmental friendly ferroelectrics” ,National Conference on Scope of Advanced Materials in Energy & Environment (SAMEE 2013), organized by the Department of Chemistry, CMR Institute of Technology, Bangalore,7-8 Aug., 2013.
- [19] S.N.Mathad, P.Velhal, S. Sajikamdod, V.Puri, “Response of Ag thick film micro strip ring resonator to perturbation of  $\text{Sr}_{0.40}\text{Ba}_{0.60}\text{Nb}_2\text{O}_6$  ceramics”, International Conference on Convergence of Science, Engineering and Management in Education and Research- A Global Perspective (ICCSEM-2013), Dayananda Sagar Institutions ,26-27 Sept. 2013,Bangalore.
- [20] S. S. Yattinahalli ,S.N.Mathad, S. B. Kapatkar, “Review on Nano-science Materials and its applications”, International Conference on Convergence of Science, Engineering and Management in Education and Research- A Global Perspective (ICCSEM-2013) ,Dayananda Sagar Institutions (DSI), 26-27 Sept.2013,Bangalore.
- [21] N. D. Patil, S. N. Mathad, V. S. Kambale, Vijaya Puri, “X and Ku band microwave dielectric properties of  $\text{Ni}_{0.4}\text{Co}_x\text{Cd}_{0.6-x}\text{Fe}_2\text{O}_4$ ” ,2<sup>nd</sup> National Seminar on Physics of Materials and Materials Based Device Fabrication (NSPM-MDF 2013), 4-5 Jan.2013, Department of Physics, Shivaji University, Kolhapur.
- [22] S.N. Mathad, R.N. Jadhav, N.D.Patil, Vijaya Puri, “Response of Ag thick film microstripline to perturbation of bulk lead free ferroelectric ceramics”, National Conference on Challenges in Research & Technology in the Coming Decades(CRT-2013), 27-28 September 2013, S.D.M.I.T,UJIRE,India.
- [23] S. S. Yattinahalli ,S.N.Mathad, S. B. Kapatkar, “Structural Studies of Zinc Ferrite

# KLE Institute of Technology, Hubballi 580 027

## Faculty Profile

		<p>Synthesized at Low Temperature”, Indian Congress on Curbing E Indian Congress on Curbing E-Wastes, 09 November 2013, Department of Civil Engineering &amp; C.T.M, Acharya Institute of Technology, Bangalore.</p> <p>[24] R. N. Jadhav, S. N. Mathad, V.Puri “Effect of <math>Ni_{0.6}Co_{0.4}Ag_yMn_{2-y}O_4</math> NTC ceramics on Ag thick film microstrip ring resonator” 23rd AGM of the MRSI held at Thapar University, Patiala ,February 13-15, 2012.</p> <p>[25] R.N.Jadhav, S.N.Mathad, V.Puri “Influence of pH on microwave Properties of thick film <math>ZnMn_2O_4</math> NTC ceramics” 1<sup>st</sup> International Conference on Physics of Materials and Materials based Device Fabrication (ICPM-MDF-2012), Department of Physics, Shivaji University, Kolhapur, India January 17-19, 2012.</p> <p>[26] R.N.Jadhav, S.N.Mathad, Vijaya Puri “ Study of Microwave absorption and complex permittivity of <math>Ni_{1-x}Zn_xO_4</math>; (0.2<math>\geq</math>x<math>\leq</math>1.0) NTC Ceramics”, International Conference on Nano-science and Technology (ICONSAT-2012) ,January 20-24, 2012 ,Hyderabad, India.</p> <p>[27] S. N. Mathad, R. N. Jadhav, N.D.Patil, P.Jadhav ,V. Puri “Synthesis, structural, dielectric and microwave studies of Barium Niobate ceramics” International conference on Recent Advances in Materials Science (RAMS - 2012), 6-8 Nov. 2012,Karnataka state higher education council, Bangalore.</p> <p>[28] S.N. Mathad, R.N. Jadhav, V. Puri “Structural and Microwave Dielectric properties of bismuth strontium manganites ceramics” Recent Advances in Functionalized Materials (RAFM-12), organized by Department of Chemistry, M.S. Ramaiah Institute of Technology, Bangalore on 24 – 25th Jan. 2012.</p> <p>[29] R. P. Pawar, S. N. Mathad and V. Puri “Microwave Properties of strontium calcium manganite in the 8-12 GHz frequency spectrum ” International symposium on macro- and supermoleculararchitecherts and materials(MAM-12) 21-25 Nov. 2012, Center for Nanoscience and Technology, K.S.Rangaswamy college of Technology,Coimbatore,TAMIL NADU, India.</p> <p>[30] S. N .Mathad,R. N. Jadhav, N. D. Patil, V.Puri “Structural and Microwave Dielectric Properties of <math>Sr_{0.75}Ba_{0.25}Nb_2O_6</math> Ferroelectrics at X and Ku Bands” National conference on Recent Trends in Nanotecnology-2012, 14-15<sup>th</sup> Dec.2012,Vivekand College, Kolhapur, India.</p> <p>[31] S.N.Mathad, R.L.Kshirasagar “Possible Effects of electromagnetic radiations on environment and adverse health effects” International Conference on Bioremediation and Environmental Management and Polar Science &amp; Technology(24th Annual Conference of NESE, New Delhi) ,Presidency College, Bangalore on 28-29th Dec 2011.</p> <p>[32] R. N. Jadhav, S. N. Mathad, V.Puri “Microwave Absorption and permittivity of <math>Ni_{1-x}Cu_xMn_2O_4</math> ceramic Thick films” in International conference on emerging microelectronics and interconnection technology EMIT-08, IMAPS India at NIAS, IISc campus, Bangalore on December 15-18, 2008.</p> <p>[33] R N Jadhav, S.N.Mathad, P D Kamble, Vijaya Puri “Structural and electrical propetis of Thick film <math>Ni_{1-x}Zn_xMn_2O_4</math> (0.2<math>\leq</math>x<math>\leq</math>0.6) NTC ceramics” International conference on Nanomaterials and Nanotechnology (NANO-10), K.S.R. College of Technology, Coimbatore, Tamilnadu ,December 13-16,2010 ISBN 10: 0230-33200-5,MacMillan Publishers India Ltd.</p>	
1.5.	<b>Language skills (ability to)</b>	<b>Speak:</b>	<b>Read / Write</b>
		Kannada	Kannada
		English	English
		Hindi	Hindi
<b>2.</b>	<b>Employment Information and Professional Experience till date</b>		
<b>2.1.</b>	<b>Employment Information</b>		



# KLE Institute of Technology, Hubballi 580 027

## Faculty Profile

a)	Job title	Associate Professor
	Employer	K.L.E.Institute of Technology,Hubballi
	Dates (from - to)	January 2023 till date.
	Responsibilities	Teaching Engineering Physics Subject (Both Theory and Lab) to first year B.E. Students, HEAD (Physics) Head of Department.Ph.D. Guidance, MR (EOMS), ISO Coordinator and Auditor
b)	Job title	Assistant Professor
	Employer	K.L.E.Institute of Technology,Hubballi
	Dates (from - to)	September 2010 till date.
	Responsibilities	Teaching Engineering Physics Subject (Both Theory and Lab) to first year B.E. Students, Ph.D. Guidance, First Year coordinator, I.A coordinator, ISO Coordinator and Auditor and Head of Department.
c)	Job title	Lecturer
	Employer	Jain College, Belgaum
	Dates (from - to)	June 2008-August 2010
	Responsibilities	HOD
d)	Job title	Lecturer
	Employer	Shri Bhagwan Mahaveer Jain College, V.V.Puram, Bangalore
	Dates (from - to)	June 2006-June2008
	Responsibilities	
e)	Job title	Lecturer
	Employer	Chetana College of Science, Hubli
	Dates (from - to)	Jan2006-April 2006
	Responsibilities	
f)	Job title	Lecturer
	Employer	Swami Vivekananda Residential College of Science, Hulkoti
	Dates (from - to)	Jun 2006-Dec2006
	Responsibilities	
<b>2.2.</b>	<b>Public Service &amp; Volunteer Work</b>	
<b>2.3.</b>	<b>Other professional achievements such as any awards, special skills, etc.</b>	
a)	<b>PH.D Guide of Scholars</b>	
	<i>Akshay Kulkarni</i>	<i>G.S.S Science College, Belgaum ( Awarded, March 2021 )</i>
	<i>Shashidhar Gouda</i>	<i>TC Engg. college, Gadag (Awarded, March 2023)</i>
	<i>Rakesh Shedam</i>	<i>Gokhale College, Kolhapur (Awarded, August 2023)</i>
	<i>Rakesh Vishwaroop</i>	<i>GM University,Davanageri (Awarded 2023)</i>
	<i>Priyanka Kashid</i>	<i>Submitted the Thesis March 2024</i>
b)	<u>Editorial Board Member:</u>	
	Applied Physics Research (Canadian Center of Science and Education), Asian Journal of Physical Sciences, Journal of Modern Materials, Advanced Nano Research, Boson Journal of Modern Physics, Advanced Journal of Graduate Research, Journal of Materials Science and Metallurgy, Journal of advances in natural sciences	
c)	<u>Reviewer :</u>	

# KLE Institute of Technology, Hubballi 580 027

## Faculty Profile

ECS Journal of Solid State Science and Technology, Physica Scripta, Saudi Pharmaceutical Journal, Materials Advances, Heliyon, Trends in Sciences, Materialia, Advances in Civil Engineering, Applied Physics A Philosophical Magazine, International Journal of Applied Ceramic Technology, Journal of Alloys and Compounds, Physics of Fluids, Nanotechnology Reviews, Ceramics International, Phase Transitions, Journal of Material Sciences & Manufacturing Research Journal of Inorganic and Organometallic Polymers and Materials, Nano, Arabian Journal of Chemistry, Materials Today: Proceedings, Canadian Journal of Physics, Materials Science and Engineering: A, Chemical Physics Impact, Vibrational Spectroscopy, Materials Research Bulletin, Walailak Journal of Science and Technology, Materials Chemistry and Physics, Emergent Materials, Journal of material engineering and performance, Materials Science for Energy Technologies ,The Journal of physical science,Tribology in industry, Journal of Advances in Physics, Open Journal of Composite Materials (OJCM), Advances in Materials Physics and Chemistry (AMPC),International Journal of Microwave and Wireless Technologies, Open Access Journal of Mathematical and Theoretical Physics, Canadian Journal of Physics, Journal of Modern Physics, Advanced Nano Research, Tribology in Industry, Journal of Materials Engineering and Performance, Journal of Physical Science, Journal of Inorganic and Organometallic Polymers and Materials, Electrochemical Science Advances, Nanomedicine & Nanotechnology Open Access (NNOA), Current Applied Materials, The European Physical Journal Plus, ECS Journal of Solid State Science and Technology, Materials Performance and Characterization, Engineered Science, ES Materials & Manufacturing,	
<b>3.</b>	<b>Any other information</b>
3.1.	<b>Strengths</b> Self Motivated, Honesty and Integrity, Punctuality, Learning agility: Quick learner, Team Work Skills.
<b>4.</b>	<b>General information</b>
4.1.	Name Shridhar N.Mathad
4.2.	Gender Male
4.3.	Nationality Indian
4.4.	Contact address P.No 52, Shridhar Kripa, Ravi Nagar, Gokul Road, Hubli-580030
4.5.	Phone / mobile number
4.6.	Email physicssiddu@kleit.ac.in

02/04/2024	Shridhar N.Mathad
Date	Full name