

S. R. Manohara PhD

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Education

S.N.	Degree	Year	Institute	Specialization
1	Ph.D.	2010	Gulbarga University, Kalaburagi, Karnataka	Physics
2	M.Sc.	2002	Bangalore University, Bengaluru, Karnataka	Physics
3	B.Sc.	2000	Kalpataru Science College, Tipaturu (Affiliated to Bangalore University, Bengaluru, Karnataka)	Physics, Chemistry, and Mathematics

Professional Experience

S.N.	Date (from-to)	Designation	Organization
1	2014 – Present	Associate Professor	Siddaganga Institute of Technology, Tumakuru
2	2011 – 2014	Assistant Professor	Siddaganga Institute of Technology, Tumakuru
3	2010 – 2011	Assistant Professor	Shridevi Institute of Engineering and Technology, Tumakuru
4	2009 – 2010	Assistant Professor	Bahubali College of Engineering, Shravanabelagola
5	2005 – 2006	Lecturer	ICFAI Institute of Science and Technology, Bengaluru
6	2004 – 2005	Lecturer	AMC Engineering College, Bengaluru
7	2002 – 2004	Lecturer	Kalpataru Institute of Technology, Tipaturu

Positions held

- o **External Examiner** - Faculty of Science, Agriculture and Engineering (Post-graduate) at **University of Zululand**, South Africa (2021 to till date).
- o **Referee** (or Adjudicator) for evaluation PhD thesis at Christ (Deemed to be University), Bengaluru, Karnataka.
- o Member, **Doctoral Committee** (for reviewing the progress of PhD candidates), Sri Siddhartha Institute of Technology, Tumakuru (2016 to 2022).
- o **Member of Board of Studies** Meeting in Basic Science for finalizing the syllabus and courses of PhD programme, Visvesvaraya Technological University (VTU), Belagavi, Karnataka (2012-2013).
- o **ISO 9001:2015 Internal Auditor** at SIT, Tumakuru (2014 to till date).
- o **Squad member** at SIT, Tumakuru (2024 to till date).
- o **Chairman Board of Examination**, Department of Physics, SIT, Tumakuru (2023-24).
- o **Member Board of Studies**, Department of Physics, SIT Tumakuru (2011 to date).
- o **Member Board of Examination**, Department of Physics, SIT Tumakuru (2011 to till date).

Affiliations of Professional organizations

- o Materials Research Society of India (MRSI), India. [Membership No.: LMB-1639].
- o Indian Association of Physics Teachers (IAPT), India. [Membership No.: 9206 L-5574].
- o Indian Carbon Society (ICS), India. [Membership No.: LM-305].
- o International Radiation Physics Society (IRPS), USA. (2009-2013).

Awards and Honors

- o Conferred **best oral presentation award** for research article entitled "Design and construction of CoAl_2O_4 modified pencil electrode for electrochemical sensing of urea" at Second International Conference on Global Trends in Applied Sciences, Medical and Health Sciences (ICGTASMH-2022) held during October 28-29, 2022 at School of Applied Sciences, REVA University, Bengaluru, Karnataka, India.
- o Conferred **third best prize** for research article entitled "Chemical synthesis and enhanced electrical properties of PEDOT:PSS-Graphene nanocomposites" for the poster presentation at Third International Conference on Nanomaterials: Synthesis, Characterization and Applications (ICN 2018) held during May 11-13, 2018 at Mahatma Gandhi University, Kottayam, Kerala, India.
- o Biography has selected for inclusion in the 12th edition of **Marquis Who's Who in Science and Engineering** 2016-2017.

- Member, National Level Organizing Committee, Symposium on Today's Techniques in Engineering Materials (T'sTEM), Department of PG Studies and Research in Physics, Tumkur University, Tumakuru, Karnataka held on May 28, 2019.
- Member, National Advisory Committee, World Congress on Microscopy: Instrumentation, Techniques and Applications in Life Sciences and Materials Sciences (WCM 2015), Mahatma Gandhi University, Kottayam, Kerala, October 9-11, 2015.
- **Young Scientist Award** from Vision Group on Science and Technology (VGST), Department of Information Technology, Biotechnology & Science and Technology, Government of Karnataka, Bengaluru, 2014.
- **Summer Research Fellowship** for Teachers – 2014 from Indian Academy of Sciences, Bengaluru to work at National Physical Laboratory, New Delhi.
- Member, Advisory Committee, National Level Conference on Nuclear Applications, Hazards and Safety Measures, Department of PG Studies and Research in Physics, Tumkur University, Tumakuru, Karnataka held during February 10-11, 2012.
- **Summer Research Fellowship** for Teachers – 2012 from Indian Academy of Sciences, Bengaluru to work at National Chemical Laboratory, Pune.
- The **Unfors Raysafe Award of Excellence** for the Best Radiation Measurements Article published in the Journal of Applied Clinical Medical Physics in 2011.
- Member, Organising Committee, National Conference on Engineering of Materials through Energetic Particles (NCEMEP), Bahubali College of Engineering, Shravanabelagola, Karnataka, April 8-10, 2010.
- Biography has been published in 11th Edition of **Marquis Who's Who in Science and Engineering** during December 2010.
- Reviewer for various leading international publishers in the field of Nanotechnology, Materials Science, and Radiation Physics.
- Participation in ANS-6.4.3 Working Group for developing a revision to ANSI/ANS-6.4.3-1991 (W2001) standard data.
- Our articles Nucl. Instrum. Methods B, 266 (2008) 3906–3912 (times cited: 275) and Journal of Nuclear Materials 393 (2009) 465–472 (times cited: 154) are the top cited articles.
- **Receiving incentive award of > Rs. 2,00,000** for research publications and projects from SIT, Tumakuru from 2012 to till date.
- Qualified **GATE-2002 (PHYSICS)** with 87.95 percentile [AIR: 248].
- Fourth **Rank Holder** in **M.Sc. (Physics)-2002**, Bangalore University, Bengalur.

Courses Taught

Undergraduate Courses

- Engineering Physics / Applied Physics (Theory and Lab).
- Physics for Computer Science stream (Theory and Lab).
- Physics for Electrical stream (Theory and Lab).
- Physics for Mechanical stream (Theory and Lab).
- Physics for Civil stream (Theory and Lab).
- Engineering Electromagnetics (ECE students SIT).
- Electromagnetic Field Theory (EEE and ETE students of VTU & SIT).
- Fields, Lines, and Waves (ECE students of SIT).
- Nanotechnology (Open elective for VII semester, SIT, Tumakuru).

Postgraduate Courses: - Nil -

Research Guidance

Sl. no	Name of the Scholar	Title	Year of completion
1.	Dr. Mohsina Taj	Development and characterization of electronically conducting polymer nanocomposites based on poly(3,4-ethylenedioxythiophene) and their application	2022
2.	Dr. Shubha A	Studies on electrical, thermal and optical properties of nanocomposites based on poly(2-ethyl-2-oxazoline)-polyvinyl-pyrrolidone binary polymer system	2020
3.	Dr. Raju Jadar	Fabrication and performance evaluation of nano technology integrated next generation automotive radiator	2017

Research Areas

- Processing of hybrid nanocomposites: Fabrication and characterization of conducting polymer hybrid nanocomposites (PEDOT, graphene, MXene, CNTs, nanoparticles, etc.).
- Hybrid nanocomposites for thermoelectric applications in waste heat recovery.

- Applications of hybrid nanocomposites: EMI shielding, sensors, supercapacitors, anticorrosion, and flame retardant.
- Hybrid nanocomposites for energy generation and energy storage applications.

Keywords: Nanocomposites, thermoelectric generators, EMI shielding, sensor, energy storage, anticorrosion.

Sponsored Projects

Ongoing Projects:

1. Title: Development of poly(3,4-ethylenedioxythiophene) based hybrid nanocomposites for high performance thermoelectric generator
Funding Agency: UGC-DAE CSR, Government of India
Amount: Rs. 1.35 lakhs
Duration: 2022-2025
Role: Principal Investigator

Completed Projects:

1. Title: Ion induced modification of ferroelectric polymer composites for EMI shielding
Funding Agency: Inter-University Accelerator Centre (IUAC), Government of India
Amount: Rs. 11.20 lakhs
Duration: 2021-2024
Role: Co-Investigator
2. Title: Development of novel graphene-polymer hybrid nanocomposites for efficient flame retardant and electromagnetic interference shielding applications
Funding Agency: Vision Group on Science and Technology (VGST), Department of IT, BT & ST, Government of Karnataka, Bengaluru, Karnataka
Amount: Rs. 30.60 lakhs
Duration: 2016-2019
Role: Principal Investigator
3. Title: Thermally stable graphene based polymer nanocomposites for flame retardant applications
Funding Agency: Vision Group on Science and Technology (VGST), Department of IT, BT & ST, Government of Karnataka, Bengaluru, Karnataka
Amount: Rs. 4.00 lakhs
Duration: 2015-2016
Role: Principal Investigator

JOURNALS

2025

76. Shubha A, Mohsina Taj, S. R. MANOHARA, B. Siddalingeshwar, Devendra Jain, U.V. Khadke, and Neerish Revaprasadu, Multifunctional polyvinylpyrrolidone-graphene nanocomposites: Unlocking synergistic electrical, dielectric, and antimicrobial properties, *Diamond and Related Materials*, Volume 157, August 2025, Page 112488 (No. of Pages: 11). **Impact Factor:** 4.3. **ISSN:** 0925-9635. **DOI:** 10.1016/j.diamond.2025.112488. **H-Index:** 126. **Rating:** Q1.

2024

75. R. B. Shivaraj, B. Siddlingeshwar, S. R. MANOHARA, H. M. Sudhir, K. Raviraj, and C. S. Jeyaseelan, Experimental and theoretical investigation on vibrational, electronic and docking characteristics of 1-(3-nitro-phenyl)-5-phenyl-penta-2,4-dien-1-one (1NP5PP), *Canadian Journal of Physics*, Volume 102, December 2024, Pages 656–670. **Impact Factor:** 1.1. **ISSN:** 0008-4204. **DOI:** 10.1139/cjp-2024-0040. **H-Index:** 62. **Rating:** Q3.
74. B. Shivaleela, Shivraj G Gounhalli, S. R. MANOHARA, Mayadevi Kalgi, and S. M. Hanagodimath, Studies on photon interaction parameters of some fluorescent molecules, *Journal of Electronic Materials*, Volume 53, December 2024, Pages 7409–7418. **Impact Factor:** 2.1. **ISSN:** 0361-5235. **DOI:** 10.1007/s11664-024-11424-y. **H-Index:** 107. **Rating:** Q3.
73. H. B. Sachhidananda, S. R. MANOHARA, A. M. Sunitha, S. V. Suryanarayana, Haladhara Naik, and Imran Pasha, Measurement of $^{112}\text{Cd}(n, 2n)^{111\text{m}}\text{Cd}$ and $^{112}\text{Cd}(n, p)^{112}\text{Ag}$ reaction cross sections at the neutron energy of 14.54 MeV and covariance analysis, *Journal of Radioanalytical and Nuclear Chemistry*, Volume 333, November 2024, Pages 5629–5638. **Impact Factor:** 1.5. **ISSN:** 0236-5731. **DOI:** 10.1007/s10967-024-09580-w. **H-Index:** 75. **Rating:** Q2.
72. R. Lokesh, N. Dhananjaya, S. R. Yashodha, C. R. Ravikumar, and S. R. MANOHARA, Dielectric study and electrochemical detection of ascorbic acid using modified electrode treated with europium-doped tricalcium aluminate nanoparticles, *Physica B: Condensed Matter*, Volume 691, October 2024, Page 416285 (No. of Pages: 13). **Impact Factor:** 2.8. **ISSN:** 0921-4526. **DOI:** 10.1016/j.physb.2024.416285. **H-Index:** 130. **Rating:** Q2.
71. Yashaswini, R. Venkatesh, Y. B. Vinaykumar, P. Shankar, S. R. MANOHARA, N. Sivasankara Reddy, N. Hanumantharaju, and A. Jayasheelan, Bi^{3+} Co-doped multi-metal stack, $\text{LaAlO}_3:\text{Dy}^{3+}$ nano perovskites: performance and efficiency characteristics with suitability for C-MOS devices, *Journal of Mines, Metals and Fuels*, Volume 72, August 2024, Pages 863–871. **ISSN:** 0022-2755. **DOI:** 10.18311/jmmf/2024/44870. **H-Index:** 13. **Rating:** Q4.
70. Mohsina Taj, S. R. MANOHARA, B. Siddlingeshwar, Hemant Kumar Daima, Ayush Sharma, Vinay S. Bhat, S. S. Subhranshu, Gurumurthy Hegde, and P. K.

- Jain, Functional carbon nanoparticles modified poly(3,4-ethylenedioxythiophene) nanocomposites with enhanced dielectric and antibacterial properties, *Hybrid Advances*, Volume 6, August 2024, Page 100204 (No. of Pages: 7). **ISSN:** 2773-207X. **DOI:** 10.1016/j.hybadv.2024.100204. **H-Index:** 16. **Rating:** Q2.
69. R. Rangaswamy, S. R. MANOHARA, K. M. Supritha, and N. S. Arun Kumar, Fabrication of nickel aluminate based electrochemical sensor for dopamine detection, *Hybrid Advances*, Volume 6, August 2024, Page 100221 (No. of Pages: 9). **ISSN:** 2773-207X. **DOI:** 10.1016/j.hybadv.2024.100221. **H-Index:** 16. **Rating:** Q2.
 68. Mohsina Taj, Vinay S. Bhat, Ganesan Sriram, Mahaveer Kurkuri, S. R. MANOHARA, Paola De Padova, and Gurumurthy Hegde, PEDOT-doped mesoporous nanocarbon electrodes for high capacitive aqueous symmetric supercapacitors, *Nanomaterials*, Volume 14, July 2024, Page 1222 (No. of Pages: 18). **Impact Factor:** 4.4. **ISSN:** 2079-4991. **DOI:** 10.3390/nano14141222. **H-Index:** 126. **Rating:** Q1.
 67. A. H. Arshad, Santhoshkumar Dani, Bibi Raza Khanam, S. R. MANOHARA, and U. V. Khadke, Preparation, characterization and electrical properties of PVDF-ZnO nanocomposite thin films, *Journal of Materials Science: Materials in Electronics*, Volume 35, May 2024, Page 886 (No. of Pages: 12). **Impact Factor:** 2.8. **ISSN:** 0957-4522. **DOI:** 10.1007/s10854-024-12659-5. **H-Index:** 97. **Rating:** Q2.
 66. B. Faniband, S. Sarvesh Chandra, Jayadev Pattar, R. Sreekanth, K. Mahendra, M. Nagaraja, S. R. MANOHARA, and S. K. Nataraj, Investigating the charge transport mechanism and dielectric properties in nickel oxide polyaniline nanocomposites, *Materials Chemistry and Physics*, Volume 318, May 2024, Page 129217 (No. of Pages: 9). **Impact Factor:** 4.3. **ISSN:** 0254-0584. **DOI:** 10.1016/j.matchemphys.2024.129217. **Citations** $\geq$ 1. **H-Index:** 177. **Rating:** Q1.
 65. H. Arshad Ayub, Santhoshkumar Dani, Bibi Raza Khanam, S. R. MANOHARA, and U. V. Khadke, Tunable dielectric spectroscopy of PVDF thin films crossbred with TiO₂ nanoparticles for the storage devices, *Macromolecular Symposia*, Volume 413, February 2024, Page 2300029 (No. of Pages: 7). **ISSN:** 1521-3900. **DOI:** 10.1002/masy.202300029. **H-Index:** 84. **Rating:** Q3.
 64. Akshay B. Kulkarni, S.N. Mathad, S. R. MANOHARA, S. M. Deshpande, Kajal A. Kulkarni, and Vaishali Mane, Understanding role of cadmium substitution on the structural, microstructural, transport properties of ferrites synthesized by different methods, *Science of Sintering*, Volume 56, 2024, Pages 417-431. **ISSN:** 0350-820X. **DOI:** 10.2298/SOS240305010K. **H-Index:** 29. **Rating:** Q2.
- ## 2023
63. Jayadev Pattar, I. S. Ashwini, M. Nagaraja, Chandra S. Sarvesh, R. Sreekanth, K. Mahendra, and S. R. MANOHARA, Investigation on structural, electrical, and dielectric properties of polyaniline/ZrO₂ nanocomposites, *Polymer Science – Series A*, Volume 65, December 2023, Pages 813-821. **Impact Factor:** 1.0.

ISSN: 0965-545X. **DOI:** 10.1134/S0965545X2460025X.

H-Index: 35.

Rating: Q3.

62. K. Amrutesh, P. Avinash, S. R. MANOHARA, Mohsina Taj, and M. G. Kotresh, In-depth study of zinc nanoferrite particles at different calcination temperatures and their behavior in the presence of electric and magnetic fields, *Journal of Magnetism and Magnetic Materials*, Volume 584, October 2023, Page 171079 (No. of Pages: 8). **Impact Factor:** 2.5. **ISSN:** 0304-8853. **DOI:** 10.1016/j.jmmm.2023.171079. **H-Index:** 195. **Rating:** Q2.
61. S. Pratibha, Yashaswini, K. Hareesh, S. R. MANOHARA, H. J. Yashwanth, and C. R. Manjunatha, Dielectric and electrochemical sensing studies of Li co-doped $\text{LaAlO}_3\text{:Ce}^{3+}$ nanopowders, *Journal of Electronic Materials*, Volume 52, June 2023, Pages 5757-5768. **Impact Factor:** 2.2. **ISSN:** 0361-5235. **DOI:** 10.1007/s11664-023-10529-0. **H-Index:** 112. **Rating:** Q2.
60. R. Rangaswamy, S. R. MANOHARA, S. Nethravathi, and S. M. Basavarajaiah, Studies on design, fabrication and electrochemical performance of cobalt aluminate modified pencil electrode towards urea detection, *Applied Surface Science Advances*, Volume 15, June 2023, Page 100409 (No. of Pages: 8). **Impact Factor:** 7.5. **ISSN:** 2666-5239. **DOI:** 10.1016/j.apsadv.2023.100409. **Citations** $\geq$ 1. **H-Index:** 25. **Rating:** Q1.
59. C. H. Abdul Kadar, M. Faisal, N. Maruthi, Narasimha Raghavendra, B. P. Prasanna, K.R. Nandan, S. R. MANOHARA, M. Revanasiddappa, and C.K. Madhusudhan, Anticorrosive polypyrrole/barium ferrite ($\text{PPy/BaFe}_{12}\text{O}_{19}$) composites with tunable electrical response for electromagnetic wave absorption and shielding performance, *Journal of Electronic Materials*, Volume 52, March 2023, Pages 2080-2093. **Impact Factor:** 2.1. **ISSN:** 0361-5235. **DOI:** 10.1007/s11664-022-10179-8. **Citations** $\geq$ 4. **H-Index:** 112. **Rating:** Q2.
58. Anup Thomas, Elena M. Kirilova, B. V. Nagesh, G. Krishna Chaitanya, Reji Philip, S. R. MANOHARA, H. C. Sudeeksha, and B. Siddlingeshwar, Influence of nitro group on solvatochromism, nonlinear optical properties of 3-morpholinobenzanthrone: Experimental and theoretical study, *Journal of Photochemistry & Photobiology A: Chemistry*, Volume 437, March 2023, Page 114434 (No. of Pages: 10). **Impact Factor:** 4.1. **ISSN:** 1010-6030. **DOI:** 10.1016/j.jphotochem.2022.114434. **H-Index:** 176. **Rating:** Q2.
57. Mohsina Taj, S. R. MANOHARA, B. Siddlingeshwar, Narasimha Raghavendra, M. Faisal, and U. V. Khadke, Anticorrosion and electromagnetic interference shielding performance of bifunctional PEDOT-graphene nanocomposites, *Diamond and Related Materials*, Volume 132, February 2023, Page 109690 (No. of Pages: 9). **Impact Factor:** 4.3. **ISSN:** 0925-9635. **DOI:** 10.1016/j.diamond.2023.109690. **Citations** $\geq$ 8. **H-Index:** 126. **Rating:** Q1.

2022

56. Anup Thomas, Parutagouda Shankaragouda Patil, B. Siddlingeshwar, S. R. MANOHARA, Neelamma B. Gummagol, G. Krishna Chaitanya, and Elena M. Kirilova, Nonlinear optical properties of benzanthrone derivatives with N'-methylpiperazin-1-yl and N'-phenylpiperazin-1-yl substituents: Experimental

- and quantum chemical study, *Optics and Laser Technology*, Volume 156, December 2022, Page 108616 (No. of Pages: 11). **Impact Factor:** 4.6. **ISSN:** 0030-3992. **DOI:** 10.1016/j.optlastec.2022.108616. **Citations** $\geq$ 6. **H-Index:** 104. **Rating:** Q1.
55. Santhoshkumar Dani, N. C. Prachalith, Mohsina Taj, S. R. MANOHARA, and U. V. Khadke, The electromagnetic interference shielding effectiveness and dielectric response of polyvinylidene fluoride (PVDF) - titanium dioxide (TiO₂) nanocomposites thin films, *Trends in Sciences*, Volume 19, November 2022, Page 3046 (No. of Pages: 9). **Impact Factor:** 1.2. **ISSN:** 2774-0226. **DOI:** 10.48048/tis.2022.3046. **H-Index:** 22. **Rating:** Q3.
 54. P. Sushma, M. Nagaraja, B. M. Praveen, P. Jayadev, S. R. MANOHARA, and K. Sunil, Structural, electrical and dielectric properties of chitosan/polyaniline/vanadium-pentoxide hybrid nanocomposites, *Journal of Molecular Structure*, Volume 1267, November 2022, Page 133600 (No. of Pages: 14). **Impact Factor:** 4.0. **ISSN:** 0022-2860. **DOI:** 10.1016/j.molstruc.2022.133600. **Citations** $\geq$ 8. **H-Index:** 125. **Rating:** Q2.
 53. Shubha A, S. R. MANOHARA, and Basavaraj Angadi, Influence of TiO₂ nanoparticles on structural, optical, dielectric, and electrical properties of bio-compatible PEOX-PVP-TiO₂ nanocomposites, *Polymer Bulletin*, Volume 79, September 2022, Pages 7117-7135. **Impact Factor:** 3.1. **ISSN:** 0170-0839. **DOI:** 10.1007/s00289-021-03838-z. **H-Index:** 73. **Rating:** Q2.
 52. C. H. Abdul Kadar, Muhammad Faisal, N. Maruthi, Narasimha Raghavendra, B. P. Prasanna, and S. R. MANOHARA, Corrosion resistant polyaniline coated zinc tungstate nanocomposites with enhanced electric properties for electromagnetic shielding applications, *Macromolecular Research*, Volume 30, September 2022, Pages 638-649. **Impact Factor:** 2.8. **ISSN:** 2092-7673. **DOI:** 10.1007/s13233-022-0067-z. **Citations** $\geq$ 7. **H-Index:** 58. **Rating:** Q2.
 51. Anup Thomas, Elena M. Kirilova, B.V. Nagesh, S. R. MANOHARA, B. Siddlingeshwar, and Sergey V Belyakov, Synthesis, solvatochromism and DFT study of pyridine substituted benzanthrone with ICT characteristics, *Journal of Molecular Structure*, Volume 1262, August 2022, Page 132971 (No. of Pages: 12). **Impact Factor:** 4.0. **ISSN:** 0022-2860. **DOI:** 10.1016/j.molstruc.2022.132971. **Citations** $\geq$ 8. **H-Index:** 125. **Rating:** Q2.
 50. Shubha A, S. R. MANOHARA, B. Siddalingeshwar, Hemant Kumar Daima, Mandeep Singh, and Neerish Revaprabhu, Ternary poly(2-ethyl-2-oxazoline)-polyvinylpyrrolidone-graphene nanocomposites: thermal, electrical, dielectric, mechanical, and antibacterial profiling, *Diamond and Related Materials*, Volume 125, May 2022, Page 109001 (No. of Pages: 10). **Impact Factor:** 4.3. **ISSN:** 0925-9635. **DOI:** 10.1016/j.diamond.2022.109001. **Citations** $\geq$ 8. **H-Index:** 126. **Rating:** Q1.
 49. K. H. Sudheer Kumar, H. J. Yashwanth, S. Pratibha, Hareesh K, S. R. MANOHARA, and D. K. Yashaswini, Entada Gigas seeds mediated synthesis of carbon for dielectric and sensing applications, *Sensors International*, Volume 3, January 2022, Page 100162 (No. of Pages: 8). **ISSN:** 2666-3511. **DOI:** 10.1016/j.sintl.2022.100162. **Citations** $\geq$ 5. **H-Index:** 31, **Rating:** Q1.

2021

48. A. B. Kulkarni, S. R. MANOHARA, R. Vishwaroop, and S. N. Mathad, Electrical and dielectric studies of Cd doped Co-Ni ferrites synthesized by solid-state reaction method, *Macromolecular Symposia*, Volume 400, December 2021, Page 2100113 (No. of Pages: 5). **ISSN:** 1521-3900. **DOI:** 10.1002/masy.202100113. **Citations** $\geq$ 2. **H-Index:** 84. **Rating:** Q3.
47. R. Vishwaroop, S. N. Mathad, A. B. Kulkarni, and S. R. MANOHARA, Influence of zinc doped structural properties of nano-MgFe₂O₄ ferrites synthesized by co-precipitation method, *Macromolecular Symposia*, Volume 400, December 2021, Page 2100088 (No. of Pages: 6). **ISSN:** 1521-3900. **DOI:** 10.1002/masy.202100088. **Citations** $\geq$ 2. **H-Index:** 84. **Rating:** Q3.
46. P. Sushma, M. Nagaraja, B. M. Praveen, P. Jayadev, S. R. MANOHARA and K. Sunil, Structural, electrical and dielectric studies on novel Chitosan/Polyaniline/Molybdenum-trioxide hybrid nanocomposites, *Polymer Science – Series B*, Volume 63, November 2021, Pages 951-963. **Impact Factor:** 1.0. **ISSN:** 1560-0904. **DOI:** 10.1134/S1560090421060233. **Citations** $\geq$ 2. **H-Index:** 25. **Rating:** Q3.
45. I. S. Ashwini, Jayadev Pattar, R. Sreekanth, M. Nagaraja, S. R. MANOHARA, and P. Anjaneyulu, Synthesis, electrical and dielectric properties of novel Polyaniline/Strontium di-nitrate composites, *Polymer Composites*, Volume 42, October 2021, Pages 5125-5133. **Impact Factor:** 4.8. **ISSN:** 1548-0569. **DOI:** 10.1002/pc.26210. **Citations** $\geq$ 9. **H-Index:** 99. **Rating:** Q1.
44. R. Venkatesh, S. R. MANOHARA, G. Nagaraju, and N. Dhananjaya, E-tirucalli latex mediated green biogenic synthesized Dy³⁺ doped and Bi³⁺ co-doped nano perovskite lanthanum aluminum oxide: structure, morphology, luminescence and dielectric studies, *The European Physical Journal Plus*, Volume 136, September 2021, Page 984 (No. of Pages: 15). **Impact Factor:** 2.8. **ISSN:** 2190-5444. **DOI:** 10.1140/epjp/s13360-021-01888-w. **Citations** $\geq$ 1. **H-Index:** 84. **Rating:** Q2.
43. N. Maruthi, Muhammad Faisal, Narasimha Raghavendra, B. P. Prasanna, S. R. MANOHARA, and M. Revanasiddappa, Anticorrosive polyaniline-coated copper oxide (PANI/CuO) nanocomposites with tunable electrical properties for broadband electromagnetic interference shielding, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, Volume 621, July 2021, Page 126611 (No. of Pages: 15). **Impact Factor:** 4.9. **ISSN:** 0927-7757. **DOI:** 10.1016/j.colsurfa.2021.126611. **Citations** $\geq$ 29. **H-Index:** 195, **Rating:** Q1.
42. J. Saji, A. Umapathi, S. R. MANOHARA, P.N. Navya, M. Kumawat, D. Prakash, and H. K. Daima, Polyvinyl alcohol scaffold incorporated with silver nanoparticles and titanium dioxide: electrical, dielectric, dye-degradation, and antibacterial properties, In: G. Manik, S. Kalia, S.K. Sahoo, T.K. Sharma, O.P. Verma (eds). *Advances in Mechanical Engineering, Lecture Notes in Mechanical Engineering*, Springer, Singapore, June 2021, Pages 367-379. **DOI:** 10.1007/978-981-16-0942-8_36. **ISSN:** 2195-4356. **Citations** $\geq$ 3. **H-Index:** 29, **Rating:** Q4.

41. S. R. Yashodha, N. Dhananjaya, S. R. MANOHARA, and H. S. Yogananda, Investigation of photoluminescence and dielectric properties of Europium doped LaOCl nanophosphor and its Judd-Ofelt analysis, *Journal of Materials Science: Materials in Electronics*, Volume 32, May 2021, Pages 11511–11523. **Impact Factor:** 2.8. **ISSN:** 0957-4522. **DOI:** 10.1007/s10854-021-05726-8. **Citations** $\geq$ 8. **H-Index:** 97. **Rating:** Q2.
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2020

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4. Maruthi N, Muhammad Faisal, Narasimha Raghavendra, B. P. Prasanna, K. R. Nandan, C. K. Madhusudhan, C. H. Abdul Kadar, S. R. MANOHARA, and M. Revanasiddappa, "Chapter 14: Polymer nanocomposite films and coatings for anticorrosion and antiwear applications", *Polymer nanocomposite films and coatings: Processes, fundamental properties and applications*, January 1, 2024, Pages 467-524, Publisher: Elsevier Science Publishing Co Inc., edited by Mayank Pandey, Kalim Deshmukh, Chaudhery Mustansar Hussain, ISBN: 9780443191398. DOI: 10.1016/B978-0-443-19139-8.00020-6

2023

3. S. S. Subhranshu, S. R. MANOHARA, and V. Vinita, "Chapter 10: Green synthesis of graphene and its derivatives", Graphene extraction from waste: A sustainable synthesis approach for graphene and its derivatives (1st edition), June 23, 2023, Pages 305-318. Publisher: Elsevier Science Publishing Co Inc., edited by C. N. Hussain, A. K. Srivastav, C. S. Tiwary, and J. M. Tour, ISBN: 9780323909143. DOI: 10.1016/B978-0-323-90914-3.00011-5.

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2. Shubha A, S. R. MANOHARA, and S. S. Subhranshu, "Chapter 1: Nanomaterials: Types of nanomaterials and their fundamental physicochemical properties", Nanotoxicology: Toxicity evaluation of nanomedicine (1st edition), July 15, 2021, Pages 1-20, Publisher: CRC Press (Taylor & Francis group), edited by H.K. Daima, S.L. Kothari, and S.K. Bhargava. ISBN-13: 978-0367266479. DOI: 10.1201/9780429299742
1. S. S. Subhranshu, Harjeet Nath, and S. R. MANOHARA, "Chapter 17: Current guidelines and regulatory challenges, insight into the legal, societal and ethical issues of nanomaterials", Nanotoxicology: Toxicity evaluation of nanomedicine (1st edition), July 15, 2021, Pages 445-490, Publisher: CRC Press (Taylor & Francis group), edited by H.K. Daima, S.L. Kothari, and S.K. Bhargava. ISBN-13: 978-0367266479. DOI: 10.1201/9780429299742

BOOKS

- Electricity, Magnetism and Electromagnetic Theory, S. R. Manohara and Shubha A, S Chand and Company Limited, New Delhi, 2018 (ISBN: 9789-3528-34402).

Editor/ Reviewer of Journal

Invited peer reviewer for the following journals in the field of Nanotechnology, Materials Science, and Radiation Physics.

- Applied Radiation Isotopes (Elsevier)
- Annals of Nuclear Energy (Elsevier)
- Journal of Physics and Chemistry of Solids (Elsevier)
- Physica Medica: European Journal of Medical Physics (Elsevier)
- Medical Dosimetry (Elsevier)
- Radiation and Environmental Biophysics (Springer)
- Radiation Physics and Chemistry (Elsevier)
- X-Ray Spectrometry (Wiley)
- Vacuum (Elsevier)
- Colloids and Surfaces B (Elsevier)

- Canadian Journal of Physics
- Journal of Materials Science: Materials in Electronics (Springer)
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Patents

S. R. MANOHARA, Shubha A., Shivasiddaramaiah A. G., A sample holder to measure electrical transport properties of materials and a method thereof. Indian Patent Application Number: 202541032460. Date Filed: 02-04-2025.

Invited Lectures, talks and workshops

- Invited talk on "Time varying fields and Maxwell's equations" for fourth semester students of Department of Electronics and Communication Engineering during March 27, 2019 to March 29, 2019 at SIT, Tumakuru, Karnataka, India.
- Invited talk on "Polymer nanocomposites for electromagnetic interference shielding applications - An overview" in "Third International Conference on Nanomaterials: Synthesis, Characterization and Applications" (ICN 2018) held during May 11-13, 2018 at Mahatma Gandhi University, Kottayam, Kerala, India.
- Invited talk on "Improved dielectric properties of graphene reinforced polyvinylpyrrolidone nanocomposites" in "International conference on Nano Technology in Energy, Nano-bio interface & Sustainable Environment" (INTENSE) held during August 19–21, 2017 at Amity University, Jaipur, Rajasthan, India.
- Special Lecture on "Maxwell's Equations" for BSc students on July 19, 2022 at Sree Siddaganga College of Arts, Science and Commerce, Tumakuru, Karnataka, India.

- Talk on "Graphene based polymer nano-composites and their applications" in a Five Days Virtual FDP on Applications of Fluid Dynamics and Advanced Materials held during August 24–28, 2020 at Bheemanna Khandre Institute of Technology, Karnataka, India.