

Dr. GOVERDHAN REDDY TURPU

Associate Professor, Department of Pure and Applied Physics
Ex - Coordinator, Internal Quality Assurance Cell, GGV
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07/2023 – Till date	: Associate Professor, GGV, Bilaspur
07/2011 – 07/2023	: Assistant Professor, GGV, Bilaspur
10/2010 – 07/2011	: Research Professor, Sejong University, Seoul, South Korea
02/2010 – 10/2010	: Postdoctoral Fellow, IIP –UFRN, Natal, Brazil
04/2007 -05/2009	: Postdoctoral Fellow, IUCF –Indiana University, Bloomington, USA
06/2006 – 03/2007	: CSIR - Research Associate, UGC DAE CSR, Indore, India
09/2024 – 01/2025	: Coordinator, IQAC, GGV

U.G. &P.G. TEACHING EXPERIENCE

13 Years 09 months +

RESEARCH ACTIVITIES

Total Funds received so far: **91.07 Lakhs (37.02 (Completed) + 54.05 (on going))**

Average Impact Factor: 2.46, h – index: 13 and i – 10 index: 19; Total Citations: 579 (G Scholar)

<u>Ph.D. Guidance</u>		<u>M.Sc. Projects</u>	<u>Research Publications</u>		<u>Projects</u>		<u>Conferences</u>	
<u>Completed</u>	<u>On-going</u>	<u>Guided</u>	<u>Papers (Scopus/WoS)</u>	<u>Book Chapters</u>	<u>Completed</u>	<u>Ongoing</u>	<u>Participated</u>	<u>Organized</u>
02	03	25	59	01	04	01	20	02

RESEARCH PROJECTS:

1)Funding Agency: DST – SERB, New Delhi (# CRG/2021/006934)

Title of The Project: “Exploring Multiferroicity in Hollandite type Mn - based Oxide Materials through Experimental and Theoretical Studies”

Total Grant: 43.28 Lakhs

Duration: 2022-25

2) Funding Agency: UGC DAE CSR, Indore , India (# CSR-IC-ISUM-52/CRS-335/2020-21/793))

Title of The Project: “Exploring Structure Property Relationship in Polar Magnet $\text{Fe}_{2-x}\text{A}_x\text{Mo}_{3-y}\text{W}_y\text{O}_8$ to Tune the Magnetoelectric Coupling”

Total Grant: ~10 Lakhs

Duration: 2020 -

3) Funding Agency: UGC DAE CSR, Mumbai, India(# UDCSR/MUM/CD/CRS-M-263/2017/55)

Title of The Project: “Neutron Diffraction studies into structural changes and magnetic interactions in $\text{Fe}_{1-x}\text{M}_x\text{VO}_4$ (M = Cr, In and Al) solid solutions”

Total Grant : 12.65 Lakhs

Duration: 2017-2020

4) Funding Agency: UGC DAE CSR, Indore, India(# CSR-IC/CRS-87/2014-15/594)

Title of The Project: “Study of Lattice Dynamics in Fe doped VO_2 through Mossbauer Spectroscopy”

Total Grant : 12.82 Lakhs

Duration: 2015-2020

5) Funding Agency: University Grants Commission, India(# 43-407/2014 (SR))

Title of The Project: “Fabrication and Characterization of Reduced Graphene Oxide Field Effect Transistors (RGO-FET) for sensor applications”

Total Grant : 10.02 Lakhs

Duration : 2015-2018

ACADEMIC RECORD:

2000 -2005: Ph.D. [Physics]

Title of thesis: ***“Study of Spin and Lattice Polaron dynamics in CMR Manganites”***

Thesis Supervisor: Prof K Rama Reddy, (Ph.D. USA)

1997-1999 University College of Science, Osmania University, India

M.Sc. Major: Physics, Passed with First Class

1994-1997 M. A. L. D. Govt. College, Gadwal, Telangana (Affiliated to Osmania University, India)

B.Sc. Major: Physics Passed with First Class

1992-1994 M. A. L. D. Govt. College, Gadwal, Telangana (Board of Intermediate Education, AP)

Intermediate Major: M. P. Chem. with First Class

1991-1992 Sri Ravindra High School, Gadwal, Telangana (Board of Secondary Education, AP)

Class X with First Class

AWARDS AND FELLOWSHIPS

- Oct 2010* Research Professorship at Sejong University, Seoul, South Korea
- Feb. 2010* Postdoctoral Fellowship at IIP-UFRN, Natal, Brazil (Mentor: Prof. S K Malik)
- April 2007* Postdoctoral Fellowship at IUCF, Indiana University, Bloomington, IN, USA (Mentor: Prof C Y Liu)
- Jun 2006* Research Associateship, CSIR, India (All India Competition) (Mentor: Prof. Ajay Gupta)
- April 2006* Dr K V Rao Research Award 2006, by Dr K V Rao Scientific Society, India
- Apr 2003* Senior Research Fellowship, CSIR, India (All India Competition) (Supervisor: Prof. K. Rama Reddy)
- Dec 1999* Scholarship: Junior Research Fellowship, DST Project, Osmania University, Hyderabad (All India Competition) (P.I.: Prof. Yadagiri Reddy and Honorary Professor: Prof. K. Rama Reddy)

UNIVERSITY ASSIGNMENTS

- Coordinator, Internal Quality Assurance Cell, Guru Ghasidas Vishwavidyalaya, India (2024 -)
- Assistant Director, Internal Quality Assurance Cell, Guru Ghasidas Vishwavidyalaya, India (2021)
- Member, Internal Quality Assurance Cell, Guru Ghasidas Vishwavidyalaya, India for 2021-23
- Member, CBCS Draft Regulation Preparation Committee (2015), Guru Ghasidas Vishwavidyalaya, India
- School Coordinator, NAAC – SSR Preparation Committee, Guru Ghasidas Vishwavidyalaya, India (2018)
- School Coordinator, AQAR Preparation and Submission Committee, Guru Ghasidas Vishwavidyalaya, India for 2018-21
- Member, Validation Committee, NIRF – Overall, Guru Ghasidas Vishwavidyalaya, India for 2016-21
- Member, Departmental Research Committee, Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, India for 2021-23
- Member, Board of Studies, Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, India for 2019-21
- Academic Coordinator - Department of Pure and Applied Physics, Guru Ghasidas Vishwavidyalaya, India for 2016-18

AWARDS FOR Ph.D. ALUMNI (During the stay of students) and their Current Status

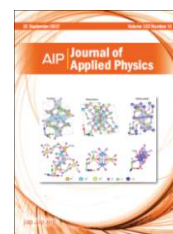
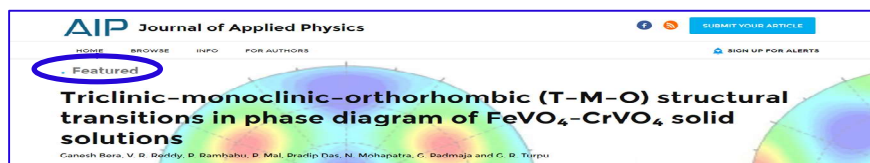
- ✓ Dr. Ganesh Bera was awarded "[MRSI Young Scientist Award 2019](#)" at "Young Scientists Colloquium 2019" organized by Material Research Society of India (MRSI), Kolkata Chapter at Saha Institute of Nuclear Physics (SINP), Kolkata, India on 17th September, 2019.
- ✓ Dr. Ganesh Bera was awarded [Best Oral Presentation Award](#) at CSR users' research scholar's workshop held at UGC-DAE Consortium for Scientific Research, Indore, India during December, 2017.
- ✓ Dr. Ganesh Bera is being awarded "[D. S. Kothari Postdoctoral Fellowship Award](#)" by UGC, New Delhi in 2021
- ✓ Ms. Neha was awarded [Best Oral Presentation Award](#) at International Conference on Current Trends in Advanced Materials and their applications for Societal Development, held at Dr H S Gour Vishwavidyalaya (Central University), Sagar, Madhya Pradesh during 8-10 March 2022.
- ✓ Dr Ganesh Bera, awarded [Postdoctoral Fellowship at University of Valencia, Spain \(2023-\)](#)
- ✓ Dr Neha Joined as a [Guest Lecturer at C.G. Higher Education Department \(2024\)](#)

PUBLICATION HIGHLIGHTS

- **Invited speaker at Indian Science Congress- Materials Science Section 2023 at RTM Nagpur University, Nagpur, India.**



- **[Featured article in Journal of Applied Physics: Bera et.al, 122 \(2017\)115101.](#)**



- **[Cover page of Journal of Applied Physics: Issue 11, Vol. 122 \(2017\)](#)**
- **[Physical Review B in 2019 \(Corresponding Author from GGV, Bilaspur\)](#)**
- **[Best research Paper Awards for the Year 2019 and 2020 at GGV, Bilaspur in the school of Physical Sciences](#)**



MEMBERSHIP IN PROFESSIONAL BODIES

- 2016 -17 Member, American Chemical Society
- 2016 - Life Member, Indian Society for Particle Accelerators, India
- 2022 - Life Member, Indian Science Congress Association, India

LIST OF PUBLICATIONS

1. *Ab-initio study of anomalous Hall and Nernst effects in equiatomic quaternary heusler alloy CoFeVGe*
R Pradhan, M. Rana, A. Sharma, S R Pathipati, G R Turpu, P Das, B L Chittari and P Rambabu
Physica Scripta 100, 035947 (2025) **I.F.:2.8**
2. *Exploring the effect of La substitution on magnetic and electrical behavior of DyFeO₃*
S S K Reddy, SS Samantham, T Sowmya, M.S.Reddy, G R Turpu, C.G.Reddy, P Y Reddy, V R Reddy
J. Supercond. and Novel Magnetism, 38,131(2025)
3. *Local structural investigation across the magnetic transition in the type-II multiferroic material FeVO₄*
G. Bera, A. Surampali, M. L. Riddick, V.R.Reddy, V.G. Sathe, G.R.Turpu, E. Welter, A.Sagdeo, C.Menegini ,
Phy Rev B 109, 75138 (2024) **I.F.:3.7**
4. *Topological nodal line features in NiSe semimetal: Insights from electronic transport and density functional theory studies*
Sharadnarayan Pradhan, Sanand Kumar Pradhan, Priyanath Mal, P. Rambabu, Archana Lakhani, Bipul Das, Bheema Lingam Chittari, G. R. Turpu, and Pradip Das
Phy Rev B 110,195153 (2025) **I.F.:3.7**
5. *Synthesis and characterization of p-CuO/n-ZnO heterostructured composite thin films for the detection of formaldehyde gas*
S Yadav, P Nagaraju, S Begum, M Swathi, KG Krishna, JK Ojha, ...
J. Phy. Cond. Matter, 37,55201 (2025) **I.F. 2.74**
6. *Synthesis and characterization of spray deposited ZnO–CuO nano composite thin films for the detection of xylene*
SS Yadav, N Pothukanuri, S Begum, M Swathi, K Gopikrishna, GR Turpu, ...
*J. Mat.Sc. Mat. Elect.*35,1959 (2024) **I.F. 2.779**
7. *rGO and g-C₃N₄ as synergistic additives in SnS₂-MoS₂ Hybrid Nanocomposites for Photocatalytic and Electrochemical Applications: A Detailed Study*
Neha, S Kavita, Anshu Andola, Ravi R Pandey, Rakesh K. Pandey, G Padmaja, P. Rambabu, Pradip Das, Iqra Rabani, and G. R. Turpu
Emergent Materials 8,183 (2025) **I.F. 4.8**
8. *"Endless Dirac nodal lines and high mobility in kagome semimetal Ni₃In₂Se₂ : A theoretical and experimental study"*
Sanand Kumar Pradhan; Priyanath Mal; Sharadnarayan Pradhan; Archana Lakhani; Dinesh Kumar; Bipul Das; Bheema Lingam Chittari; P. Rambabu; G. R. Turpu; Pradip Das
J. Phy. Cond. Matter, 36,445601 (2024) **I.F. 2.74**
9. *Investigation of Magnetotransport Properties of Topological Surface States in SnBi₄Te₇ Single Crystal*
Sanand Kumar Pradhan; Priyanath Mal; Sharadnarayan Pradhan; Archana Lakhani; Dinesh Kumar; Bipul Das; Bheema Lingam Chittari; P. Rambabu; G. R. Turpu; Pradip Das
*J. Mat.Sc. Mat. Elect.*35,788 (2024) **I.F. 2.779**
10. *Photocatalytic Drug Degradation and Supercapacitor applications of FeVO₄ and rGO - FeVO₄ Nanocomposite*
Neha, Young Soo Seo, Sobia Nisar, R. Vijaya Kumar, P. Rambabu, Chandra S Perugu, S. Banerjee, Pradip Das, Iqra Rabani, and G. R. Turpu
ChemNanoMat 10, e202100106 (2024) **I.F. 3.8**
11. *"Structural and electronic transport properties of Zn- and Ga-doped Bi₂-xSb_xTe₃-ySe_y topological insulator single crystals*
Sanand Kumar Pradhan; Priyanath Mal; Sharadnarayan Pradhan; Archana Lakhani; Dinesh Kumar; Bipul Das; Bheema Lingam Chittari; P. Rambabu; G. R. Turpu; Pradip Das
Journal of Physics: Cond. Matter, 36 , 31, (2024) **I.F. 2.745**
12. *Studies into the synergy between MoS₂ – rGO – gC₃N₄ for photocatalytic and supercapacitor applications*
Neha, Anshu Andola, Ravi R Pandey, Rakesh K. Pandey, P. Rambabu, Pradip Das, Iqra Rabani, and G. R. Turpu

13. **Journal of Electronic Materials**, 53,5289 (2024) **I.F. 2.047**
 Electrochemical, Photocatalytic and Photoluminescence properties of BaWO₄ and rGO-BaWO₄ nano-composites: A Comparative study
 Ch Sridhar Neha, Young-Soo Seo, Iqra Rabani, G.R. Turpu, Salinta Tigga, G. Padmaja;
Current Applied Physics, 59, 79 (2024) **I.F. 2.04**
14. Ultrafast photodegradation of methylene blue dye and supercapacitor applications of flower like hydrothermal synthesized V₂O₅ nano -structures on rGO as nano - composite
 Neha, G. R.Turpu, Iqra Rabani, Y S Seo, Pradip Das and S K Reddy
Journal of Physics and Chemistry of Solids, 184, 111673 (2024) **I.F. 4.000**
15. Novel Pd_{0.1}Cu_{0.9}Co₂O₄ nano-flake: A promising multifunctional catalyst for the electrochemical water splitting and photo-degradation reactions at ambient temperature
 AR Patel, S Bhagat, G Patel, G Maity, GR Turpu, AK Singh, S Banerjee
International Journal of Hydrogen Energy 51,561 (2024) **I.F. 7.200**
16. Comparative Electrochemical, Photocatalytic, and Photoluminescence Studies in SrWO₄ and rGO - SrWO₄ Nanocomposites
 Ch. Sridhar, Neha, Y S Seo, I Rabani, G R Turpu, S Tigga and G Padmaja
Journal of Electronic Materials, 52, 3759 (2023) **I.F. 2.047**
17. Structural engineering of ruthenium decorated zeolitic imidazole framework nanocomposite for hydrogen evolution reactions and supercapacitors
 I Rabani, JW Lee, SR Choi, JY Park, SA Patil, GR Turpu, M Kim, Young Soo-Seo
Journal of Energy Storage 62, 106885 (2023) **I.F. 8.903**
18. An Additional Simultaneous Magnetic Ordering and Magneto-Capacitive Behavior with Dielectric Relaxation besides Multiferroicity in Fe_{1-x}TexVO₄
 G Bera, A Surampalli, D Prajapat, P Mal, VR Reddy, K Kumar, A Sagdeo, Pradip Das and G R Turpu,
J Phy Cond. Matter 35, 125801 (2023) **I.F. 2.745**
19. Disappearance of spiral spin order and field induced spin reorientation transition in Fe_{1-x}CrxVO₄ (0.1 ≤ x ≤ 0.3) multiferroic: ⁵⁷Fe Mössbauer spectroscopic studies
 G Bera, M Kuila, P Mal, VR Reddy, P Das, GR Turpu,
Physica B Cond Matt. 646, 414236 (2022) **I.F. 2.988**
20. Comparative fermiology study of PbBi₂Te₄ and SnBi₂Te₄ 3D topological insulators
 Priyanath Mal, Bipul Das, Ganesh Bera, **G.R.Turpu**, C.V. Tomy and Pradip Das
J. Mat. Sc. Mat. In Electron, 33, 1 (2022) **I.F. 2.779**
21. Transport evidence of linear Dirac dispersion of non-trivial surface states in Fe-substituted PbBi₂Te₄ 3D topological insulator
 Priyanath Mal, Bipul Das, Ganesh Bera, P.Rambabu, **G.R.Turpu**, C.V. Tomy and Pradip Das
Physica E: Low Dimensional Systems and Nanostructures 130, 114672 (2021) **I.F. 3.382**
22. Structural, magnetic, dielectric and ⁵⁷Fe Mossbauerspectroscopic studies on Fe_{1-x}CexVO₄: a type-II multiferroic material
 G.Bera, A.Surampally, P.Mal, V.R.Reddy, K.Kumar, A.Sagdeo, P. Rajput, P. Das, **G. R. Turpu**
J. Mat. Sc. Mat. In Electron 32, 7399–7409 (2021) **I.F. 2.779**
23. Observation of 2D transport in Sn- and In-doped Bi_{2-x}SbxTe_{3-y}Se_y topological insulator
 Priyanath Mal, Bipul Das, Ganesh Bera, P.Rambabu, **G.R.Turpu**, C.V. Tomy and Pradip Das
J. App. Phy. 129, 095702 (2021) **I.F. 2.877**
24. Spin splitted topological surface states in PbBi₄Te₇
 Priyanath Mal, Bipul Das, Ganesh Bera, P.Rambabu, **G.R.Turpu**, C.V. Tomy and Pradip Das
Journal of Physics D: Applied Physics, 53, 484003(2020) **I.F. 3.169**
25. Synthesis of Sr_{1-x}BaxBi₂B₂O₇ glass ceramics: A study for structure and characterization using experimental techniques and DFT method
 G.Padmaja, G.Devarajulu, B.Devaprasad Raju, **G.R.Turpu**, K.Srishailam, B.Venkatram Reddy, G.Pavan Kumar

- Journal of Molecular Structure* 1220, 128660 (2020) **I.F. 3.84**
26. Rapid photodegradation of methylene blue dye by rGO- V2O5 nano composite
A.Mishra, A.Panigrahi, P.Mal, S.Penta, G.Padmaja, G.Bera, P.Rambabu, P.Das and **G.R.Turpu***
Journal of Alloys and Compounds 842, 155746 (2020) **I.F. 6.37**
 27. Vibrational spectra and optical properties of Fe_{1-x}Cr_xVO₄ solid solutions: With a group theory analysis
Ganesh Bera, P Mal, V.R.Reddy, U Deshpande, Pradip Das, G. Padmaja, **G. R. Turpu**,
Spectrochimica Acta Part A, 227, 117668 (2020)) **I.F. 4.831**
 28. Methylene blue dye degradation by bulk, nano FeVO₄ and rGO-FeVO₄
Ganesh Bera, A Mishra, P Mal, Pradip Das, G. Padmaja, P. Rambabu and **G. R. Turpu**,
AIP Conf. Proceedings 2220, 080070 (2020)
 29. Magneto-Lattice Coupling, Magnetic Frustration and Magneto-Electric Effect in Cr doped FeVO₄ Multiferroic Material and their correlation with Structural Phase Transitions
G.Bera, A.Surampally, A.Mishra, P.Mal, V.R.Reddy, A. Banerjee, A.Sagdeo, P. Das, **G. R. Turpu**,
Phy. Rev. B, 100, 014436 (2019) **I.F.:4.036**
 30. Comparative electrochemical analysis of rGO-FeVO₄ nanocomposite and FeVO₄ for supercapacitor application,
A.Mishra, G.Bera, P.Mal, P.Sen, B.Chakraborty, P.Das, G.Padmaja and **G.R.Turpu**,
App. Surf. Sci. 488, 221, (2019) **I.F.:7.392**
 31. Vibrational Spectra of Pb₂Bi₂Te₃, PbBi₂Te₄ and PbBi₄Te₇ Topological Insulators: Temperature Dependent Raman and Theoretical Insight from DFT Simulations
Priyanath Mal, G. Bera, **G. R.Turpu**, S. K. Srivastava, A. Gangan, B. Chakraborty, Bipul Das and Pradip Das,
Phy. Chem. Chem. Phy., 21, 15030-15039 (2019) **I.F.:3.567**
 32. Unusual Conductance Fluctuations and Quantum Oscillation in Mesoscopic Topological Insulator PbBi₄Te₇,
P.Mal, B.Das, A.Lakhani, G.Bera, **G.R.Turpu**, J.C.Wu, C.V.Tomy, P. Das
Scientific Reports 9, 7018 (2019) **I.F.:4.378**
 33. Low temperature synthesis of FeVO₄ through mechano - milling assisted solid state reaction method
G. Bera, V.R.Reddy, P. Rambabu, P. Mal, P. Das, G.Padmaja, and **G. R. Turpu**:
AIP Conf. Proceedings 2115, 030110 (2019)
 34. Multifunctionality of Partially Reduced Graphene Oxide –CrVO₄ Nano-Composite: Electrochemical and Photocatalytic Studies with Theoretical Insight from Density Functional Theory
G. Bera, A. Mishra, P.Mal, A. Sankarakumar, P. Sen, A. Gangan, B. Chakraborty, P.Das and **G.R.Turpu**,
J. Phy. Chem C, 122, 21140 (2018) **I.F.:4.126**
 35. Synthesis and photocatalytic degradation study of methylene blue dye under visible light irradiation by Fe_{1-x}Bi_xVO₄ solid solutions (0 ≤ x ≤ 1)
G. Bera, V.R.Reddy, P. Mal, P. Das and **G. R. Turpu**:
AIP Conf. Proceedings 1953, 080026 (2018)
 36. Synthesis and temperature dependent Raman studies of large crystalline faces topological GeBi₄Te₇ single crystal,
P. Mal, G. Bera, **G. R. Turpu**, S.K.Srivastava and P. Das:
AIP Conf. Proceedings 1953, 70022 (2018)
 37. Triclinic – monoclinic – orthorhombic (T–M–O) structural transitions in phase diagram of FeVO₄ - CrVO₄ solid solutions.
G.Bera, V.R.Reddy, P. Rambabu, P. Mal, P. Das, N. Mohapatra, G. Padmaja, **G. R. Turpu**,
Journal of Applied Physics 122, 115101 (2017) **I.F. 2.877**
 38. Electronic, magnetic and spectroscopic properties of doped Mn(1-x)AxWO₄ (A = Co, Cu, Ni and Fe) multiferroic: an experimental and DFT study.
P. Mal, G Bera, P Rambabu, **G R Turpu**, B.Chakraborty, L. M Ramaniah, R P Singh, P. Sen, P.Das:
J of Physics: Cond. Matter 29, 075901 (2017) **I.F.:2.745**
 39. Mg-NHC complex on the surface of nano magnesium oxide for catalytic application. M.Shaikh,

- M.Sahu, P.K.Gavel, **G. R. Turpu**, S.Khilari, D.Pradhan, K.V.S. Ranganath:
Catalysis Comm. **84**, 89-92 (2016) **I.F.:3.51**
40. *rGO –SnO₂ composites for super capacitor applications*
P. Rambabu, S.K.Srivastava, P.Das and **G.R.Turpu**,
IOP Conf. Series: MSE , **159**,012169 (2016)
41. *Structural characterization of FeVO₄ synthesized by co-precipitation method.*
G.Bera, Sourav Sinha, P. Rambabu, P. Das, A. K. Gupta, **G. R. Turpu**:
AIP Conf Proceedings **1728**, 020284 (2016)
42. *Study of photo catalytic degradation of an industrial dye Ujala Supreme and Methyl Orange using SnO₂-rGO composites.*
P. Rambabu, S. K. Srivastava, **G. R. Turpu**
AIP Conf Proceedings **1728**,020375 (2016)
43. *Energy band gap and spectroscopic studies in Mn_{1-x}Cu_xWO₄ (0 ≤ x ≤ 0.125).*
P. Mal, P.Rambabu, **G. R. Turpu**, A. K. Gupta, B.Chakraborty, P.Sen, P. Das:
AIP Conf Proceedings **1728**, 020323 (2016)
44. *New Experimental Limit on the Electric Dipole Moment of the Electron in a Paramagnetic Insulator.*
Y. J. Kim, C Y Liu, S. K. Lamoreaux, G. Visser, B. Kunkler, A. V. Matlashov, **T.G. Reddy**
Phys. Rev. D **91**,102004 (2015) **I.F.:5.296**
45. *Nanosize effects on the magnetic field induced transitions in La_{0.67-x}Eu_xCa_{0.33}MnO₃ perovskite manganite.*
N. Raju, D. R.Sree, S. S. K. Reddy, Ch. G.Reddy, P. Yadagiri Reddy, K. R. Reddy, V. R.Reddy, **G.R. Turpu**:
J of Mag. and Mag. Materials, **368**, 308 (2014) **I.F.:2.993**
46. *Relaxation in bi-stable resistive states of chemical vapour deposition grown graphene.*
G.R. Turpu, M.W. Iqbal, M.Z. Iqbal, JonghwaEom:
Thin Solid Films, **522**, 468-472, (2012) **I.F.:2.183**
47. *EPR spectroscopic studies in (30 - x) Li₂O-xK₂O-10CdO-59B₂O₃-1MnO₂ multi-component glass system*
P. Gangapur, **Goverdhan Reddy Turpu**, K. Puram:.
Chem. Phys. **394**, 17-20 (2012) **I.F.:2.348**
48. *Effect of an electric field on superfluid helium scintillation produced by α-particle sources.*
T. M. Ito, S. M. Clayton, J. Ramsey, M. Karcz, C. -Y. Liu, J. C. Long, **T. G. Reddy**, G. M. Seidel:
Phys. Rev. A, **85**, 042718 (2012) **I.F.:3.140**
49. *Experimental search for the electron Electric Dipole Moment using solid state techniques*
Y J Kim, C-Y Liu, S K Lamoreaux, **G Reddy**.
J. Phys. Conf. Ser. **312**,102009 (2011)
50. *Compositional dependence of optical absorption spectra in mixed alkali borate glasses*
G. Padmaja, **Goverdhan Reddy Turpu**, P. Kistaiah:
Phil. Mag. Lett. **91**, 97 (2011) **I.F.0.980**
51. *On the Electron Paramagnetic Resonance Studies in Mixed Alkali Borate Glasses.*
G. Padmaja, **T. Goverdhan Reddy**, P. Kistaiah:
AIP Conf. Proc. **1391**, 544-546 (2011)
52. *Nanosize effects in Eu doped La_{0.67}Ca_{0.33}MnO₃ perovskite.*
D. RojaSree, S. K.Cholleti, S.G.Fard, Ch. Gopal Reddy, P. Y. Reddy, K R.Reddy, **G. R. Turpu**:
J. App. Phys. **108**, 113917 (2010) **I.F.:2.877**
53. *Magnetic field-induced transitions in La_{0.42}Eu_{0.25}Ca_{0.33}MnO₃ perovskite manganite.*
Goverdhan Reddy Turpu, Ajay Gupta, K Rama Reddy:
J. Phys. D: App. Phys. **42**, 145004 (2009) **I.F.:3.409**
54. *¹⁵¹Eu Mössbauer studies on La_{0.46}Eu_{0.21}Ca_{0.33}MnO₃ CMR system.*
T. Goverdhan Reddy, Ajay Gupta, K. Rama Reddy:
Chem Phys Lett **476**, 209-212 (2009) **I.F.:2.719**
55. *⁵⁷Fe Mössbauer study of La_{0.67}Ca_{0.33}Mn_{1-x}Fe_xO₃ CMR system*
V. Raghavendra Reddy, R. Rawat, **T. G. Reddy**, Ajay Gupta, P. Y. Reddy, K. Rama Reddy:.

- Hyp. Int.* **187,109-115** 9 (2008)) **I.F. 0.329**
56. *151Eu Mössbauer studies on La_{0.5}Eu_{0.17}Ca_{0.33}MnO₃ CMR system*,
T. Goverdhan Reddy, Ajay Gupta, K. Rama Reddy:
Phy Lett A **371,508-511** (2007) **I.F.:2.707**
57. *On the coexistence of spin and lattice polarons in the La_{0.67} – xEu_xCa_{0.33}MnO₃ CMR system*.
T. Govardhan Reddy, P. Yadagiri Reddy, V. R.Reddy, Ajay Gupta, M. Gupta, K. Rama Reddy:
Sol State Comm **133, 77-81** (2005) **I.F.:1.934**
58. *151 EuMössbauer Spectroscopy in La_{0.38}Eu_{0.29}Ca_{0.33}MnO₃*.
T. Goverdhan Reddy, P. Yadagiri Reddy, V. R. Reddy, Ajay Gupta, K. Rama Reddy:
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59. *Correlation techniques for the improvement of signal-to-noise ratio in measurements with stochastic processes*.
V.R. Reddy, Ajay Gupta, **T. Goverdhan Reddy**, P. Y. Reddy, K. R.Reddy
Nucl. Inst. and Meth. A **501, 559-571** (2003) **I.F.:1.33**

ORGANIZATION OF CONFERENCES / WORKSHOPS /SEMINARS

From 2011 to till now, I contributed to 7 events, workshops and conferences. I acted as a member of local organizing committee member for 6 events and for one of the event I was the organizing secretary in 2018.

- 2018 Organizing Secretary, XX National Seminar on Ferroelectric and Dielectrics at GGV, Bilaspur National Seminar / ~ 100 / India. NSFD is a national seminar on theme of dielectric and ferroelectrics which is organized every two years and being organized for the last 40 years. The event was organized for 3 days during Dec 14 -16 2018 at GGV

INVITED LECTURES AT CONFERENCES / SEMINARS / WEBINARS /WORKSHOPS

- Title of the The Talk: Reduced Graphene Oxide based Composites for supercapacitor applications
International E – Workshop on Graphene and Related 2D Materials Processes & Applications (GR2DMPA 2021) Organizaed by ACS College, Maregaon, Amaravati University, on 11 September 2021 (Online)
- Title of the Talk: Structural phase transitions in FeVO₄ – CrVO₄ solid solutions and effect on Multiferroicity in FeVO₄
International Conference on Crystallography, Structural Chemistry and Polymer Science Allied Academies and the Editors of Journal of Materials Science and Nanotechnology & Journal of Industrial and Environmental Chemistry by held during August 31, 2020(Webinar)
- Title of the Talk: Multifunctional properties of reduced graphene oxide composites: A study on photocatalytic and supercapacitor applications
Three-day National level webinar on “Recent Trends in Materials Science (RTMS-2020)” organized by Department of Physics, Science & Humanities,Usha Rama Engineering College, Vijayawada during 19-21, August 2020
- Title of the Talk: Perspectives of Nanotechnology in Water Treatment: Fundamentals and Applications
National Webinar on Advancement in Materials Science in Present Scenario (AMSPS-2020)” Jointly organized by Department of Chemistry and Physics, Govt. J.M.P. College Takhatpur, Bilaspur(C.G.) during 23.08.2020
- Title of the Talk: Correlation of Structure, Magnetism and Ferroelectricity in Fe_{1-x}Cr_xVO₄
International E – Conference on Advanced Functional Materials and Optoelectronic Devices organized by Centre for Renewable Energy, VBS Purvanchal University, Jaunpur during June 13-15, 2020
- Title of the Talk: Multifunctionality of graphene oxide – orthovanadate composites

National Seminar on Advance Materials for Sustainable Industrial and Social Applications, Organized by Govt. Pt. Shyamacharan Shukla College, Raipur, during 17-18 January 2020.

7. *Title of the Talk: Patterning of CVD Graphene F.E.T.Structures*

National Level Short Term Training Programme on Recent Trends in Materials Science and Nano-Technology, Organized by National Institute of Technology, Raipur during 3 – 7 October 2017

8. *Title of the Talk: SEM: Basic Instrumentation and it's Applications*

Skill Development Training on “Materials Characterization Techniques” organized by Skill Development Centre, Guru Ghasidas Vishwavidyalaya, Bilaspur during 16-17 February, 2017

9. *Title of the Talk: Surface Analysis Through SEM and SPMs: Introduction and Applications*

National Level Short Term Training Programme on Advance in Chemical Analysis, Organized by National Institute of Technology, Raipur during 6 – 10 July, 2015

10. *Title of the Talk: SEM: Principles and Applications*

National Level Short Term Training Programme on Nano – materials: Characterization and Applications, Organized by National Institute of Technology, Raipur during 1 – 5 Dec., 2014

11. Invited Speaker at Rashtriy Uchatar Siksha Abhiyan (RUSA) Workshop on Youngsters and Opportunities at Govt. K.K.B. College, Sakti, Janjgir-Champa, Chhattisgarh, India,

GOVERDHAN REDDY TURPU