Biodata

Name & Designation	**Dr. Subodh Ganesanpotti** Assistant Professor Department of Physics University of Kerala, Kariavattom, Thiruvananthapuram Kerala, India 
Date of joining	15-02-2014
Educational Qualifications	**Ph.D in Physics**, 2009 CSIR- NIIST, University of Kerala Thiruvananthapuram, Kerala, India. **M. Phil.** Photonics (2003-2004), Dept. of Optoelectronics, University of Kerala. **M.Sc.** Physics (2000-2003) – Dept. of Physics, University of Kerala.
Research Areas	Electromagnetic interference shielding materials, Microwave ceramics, Polymer-ceramic composites, Cold sintering process, Microwave antennas. Inorganic phosphors, Optical thermometry, Light emitting diodes, Optical properties of low dimensional materials.
Research output	No. of Book Chapters: 6 **No. of Articles in SCI Journals: 91** **Patent Granted: 1 (Indian)** ICDD Powder Diffraction Files: **14** **Citations: 2300 *h* index: 30, I_{10} index:62** Google Scholar link: https://scholar.google.co.in/citations?user=wp6kTFwAAAAJ&hl=en&authuser=1 Orcid link: https://orcid.org/0000-0002-6784-094X **No. of Ph Ds produced: 8** No. M. Phil Degrees Produced: 9 Postdoctoral Fellows Guided: SERB NPDF- 1, DST Women Scientist- 1, KU PDF-2
Awards and Recognitions	Selected as one of the 40 Inspiring teachers in south India by New Indian Express group (2017) **Kerala State Young Scientist Award- 2016** Equipment grants from Alexander von Humboldt foundation-2014 (19, 845 Eur.) CSIR-SRA (under Scientist pool Scheme)- 2013 **JSPS Fellowship 2011** **Alexander von Humboldt Fellowship, 2009** **Selected for Nobel Laureate's meeting in physics 2008 held at Lindau, Germany.** GATE- 2004 [97.4 percentile, All India Rank-70] Junior & Senior Research Fellowships (CSIR-India).
Projects	**On going** 1 "Development of Near Infrared LEDs through Tailoring Photophysical Response of Garnet Based Phosphors for Biological Windows" **SERB CRG 52.6 Lakhs** (PI). **Completed** 2."Development of polymer nanocomposite based microwave absorbers for L & S band frequencies" Kerala State council for Science Technology and Environment (KSCSTE) Kerala State Young Scientist Award Research Scheme 2020-23, Outlay- 41.32 Lakhs (PI). 3. "Development of cold sintered dielectrics for electronic applications" DST Woman Scientist Scheme 2019-22 Out lay 29 lakhs (Mentor). 4. Novel Double Perovskites Phase 2 ICDD Outlay 1800 USD (PI) 5. "Functional Magneto-dielectric Materials for Microwave Applications" KSCSTE SRS Scheme 2018-21 Outlay 22.32 lakhs (PI).

Biodata

Projects	6. "Glass free magnetodielectric materials for LTCC applications" SERB 2016-19 Outlay 31.19 Lakhs (PI). 7. Rare earth-based oxides as High k materials for gate dielectric applications UGC-2015-17 Outlay 6 lakhs (PI). 8. "Establishing Functional Materials Laboratory" KSCSTE -SARD 2017-20 Outlay-31.5 Lakhs (Coordinator) 9. "Novel Double Perovskites" International Centre for Diffraction Data (ICDD) 2016 Outlay-1000 USD (PI).
Professional Membership	Life Member Materials Research Society India Member American Chemical society (2019 onwards) Member American Ceramic society (2016 onwards) Life Member, Kerala Academy of Science Life Member Indian Institute of Metals Member Executive committee- MRSI Thiruvananthapuram Chapter Member JSPS Alumni Association
Academic Experience	Head, Department of Physics, University of Kerala (July 2016 July 2019) Member Academic Council, University of Kerala (July 2016 July 2019) Chairman PG Board of Studies in Physics University of Kerala (Nov. 2017-Nov.2020) Director, Centre for Academic and Industrial Collaboration (Aug. 2020- till date) Joint Director, Central Laboratory for Instrumentation and Facilitation (CLIF) (April 2021 till date)
Details of Ph.Ds Produced	**Ph. D Awarded** **1. Dr. Varsha Vishwanth (2018)** **Title of the Thesis "Inorganic/Organic-PVVA Nanocomposites for Optoelectronic and Photonic Applications".** **2. Dr. Sibi N (2021)** **Title of the Thesis: "Investigations on Natural Garnet Based Composites for Microwave Applications".** **3. Dr. Vilesh V L (2022)** **Title of the Thesis: "Investigations on Tellurium-based Double Perovskites and Their Composites for Microwave Applications"** **4. Dr. Vidhya Lalan (2022)** **Title of the Thesis: Tailoring Electromagnetic Parameters towards Enhanced Microwave Attenuation in Advanced Materials** **5. Ms. Sariga C Lal (2022)** **Title of the Thesis: "Activator Induced Photophysical Response and Multifunctionality in Tellurate Based Double Perovskites" (Co Supervisor)** **6. Ms. Rakhi M. (2023)** **Title Thesis: "Modulating Dielectric Response of Garnet Structured Ceramics through Cation Substitution and Cold Sintering Process for Microwave Applications"** **7. Ms. Amrithakrishnan B (2023)** **Title of the Thesis: "Polyhedral Substitution and Energy Transfer Assisted Photophysical Response in Multifunctional Garnet Structured Phosphors." (Co Supervisor)** **8. Athira Rajan (2024)** **Title of the Thesis: "Electromagnetic Simulation-driven Design and Fabrication of Ferrite-reinforced Composites for Microwave Applications" (Co Supervisor)**

Biodata

Patents	**Indian Patent Application No: 202241066521, Patent No. 454107** **Subodh G**., Sibi K S, K. G. Gopchandran, Nithin J S and Amrithakrishnan B. **"Double Perovskite Tellurates and the Use thereof in Fabrication of Cyan Emitting LEDs"**
List of Publications	**Book chapters** **6**. Sariga C Lal**, Subodh G "***Recent Advancements in Optical Thermometry Based on Photoluminescent Perovskite Oxides"* Chapter 11 CRC Press (To be published in 2024) in **the book "Luminescent Thermometers: Fundamentals, Materials, and Applications"** **5.** Amrithakrishnan B, Jawahar I N, Subodh G "Luminescence Temperature Sensing Based on Ratiometric and Colorimetric Fluorescence in Garnets" Chapter 12 CRC Press (To be published in 2024) in **the book "Luminescent Thermometers: Fundamentals, Materials, and Applications"** 4. Athira Rajan, Sibi K S, **Subodh G*** Cold Sintering: A Sustainable Alternative to Process Ferrites for Advanced Applications Ferrite Materials and Technologies" Chapter 6 Nova Science, 2023, ISBN 979-8-89113-086-9**.** 3**.** Sariga C Lal, Jawahar I. N, **Subodh G*,** "Optical Thermometry Based on Eu3+ Activated Double Perovskites: State of the Art and Challenges" Horizons in World Physics. Volume 307, Nova Science, 2022, ISBN: 978-1-68507-549-1, 2 Rick Ubic, **G. Subodh**, M. T. Sebastian "High k materials" Materials for Microwave Applications" Wiley 2017 ISBN:9781119208525, 1.M.T. Sebastian, S. Ananthakumar, **G. Subodh**, J. Juuti and H. Jantunen Composite Electro-ceramics, Encyclopedia of Composites Wiley 2011 ISBN: 9780470128282. **Publications in SCI Journals** **2024** **91.** Nithin J S, Amrithakrishnan B, Sibi K S, **Subodh G*** "Harnessing the Inherent Photoluminescence of Ba_2MgTeO_6 Double Perovskite Phosphor for Visible to Near Infrared pc-LED Applications" Accepted J. Lumin. (2024). **90** Rakhi M, Subodh G **"**Single step densification and magneto dielectric response of Y3Fe5O12 -EDTA composite for microwave substrate applications" Mater. Res. Bull. (accepted 2024) **89** Pooja K V **Subodh G*** "Harnessing the Dual-Mode Luminescence of Er/Yb Co-Doped $SrLaLiTeO_6$ Double Perovskite Phosphors for Remarkably Wide Range Temperature Sensing and NIR pc-LEDs" **Laser Photonics Reviews** (Accepted). **88.** Bhagyalekshmi G L**, Subodh G*** Comprehension of the Photo-induced Charge Transfer Assisted Energy Transfer in Gd^{3+} Based Host Sensitized Tellurate Phosphor for Thermal Sensing and Anti-counterfeiting Labels" **Dalton Transc. 53**, 8229 **(2024).** **87.** Sariga C Lal, Jawahar I N, **Subodh G* "**Enhancing the Inherent NIR Photoluminescence in $SrLaLiTeO_6$ Through Cr^{3+}-Yb^{3+} Co-substitution for High Performance pc-LEDs **Invited article Dalton Transc. 53**, 1230 **(2024)** **2023** **86.** Jagadeesh M, Santha N Jawahar I. N**.** and **Subodh G*** Water-assisted densification and broadband dielectric response of cold-sintered $CaCu_3Ti_4O_{12}$-SnF_2 composites **Ceram. Inter.** 49 36600 (2023). **85.** Amrithakrishnan B, Jawahar I N, **Subodh G* "**Delving into the multifunctionality of $Sr_2NaMg_2V_3O_{12}$ via RE^{3+} substitution for dual-mode temperature sensing, latent fingerprint detection and security inks" **Mater. Adv. 4**, 3796 (2023). **84.** Amrithakrishnan B, Jawahar I N, **Subodh G***Augmenting Cyan Emission in Vanadate Garnet via Dy^{3+}Activation for Light Emitting Devices and Multi-Mode Optical Thermometry **Dalton Transc. 52**, 11705 (2023). **83.** Akhila M. J., **Subodh G,** Sibi K. S.,* Biju V* "Folic acid-derived luminescent carbon dots: Effect of Ag inclusion and switch ON sensing of sulfide ions**" J. Mol. Liq.** 3**85 122396 (2023).**

Biodata

List of Publications	**82.** Rakhi M, **Subodh G * "**Water and SnF_2 Assisted Ultralow-Temperature Sintering of Mechanically Tough $Y_3Fe_5O_{12}$ Composites for Magneto-Dielectric Antennas" **ACS Appl. Elect. Mater.** 5, 3172–3183. (2023). **81.** Amrithakrishnan B, Jawahar I N, **Subodh G* "**Strategic Tuning of Photophysical Response in Polyhedral Framework of the Garnet Structure towards White Light Emitting Devices with Enhanced Color Rendering" **Inorg. Chem.** 62, 5744–5756 (**2023)** **80.** Sariga C Lal, Nima M, Jawahar I N, **Subodh G*** "Raman and photoluminescence intensity ratio: A tool for high temperature optical thermometry in $Ba_2Y_{2/3}TeO_6$: Eu^{3+} double perovskites" **Ceram. Inter.** 49, 19528-19532 (**2023).** 79. Vidhya Lalan, **Subodh G*** "The smallest anions entrapped mayenite electride@graphitic carbon core-shells reinforced with superparamagnetic Fe_3O_4delivers unrivalled high-frequency microwave absorption" C**hem. Engg. J.** 461, **1**41857 (2023) 78.Sariga C Lal, Jawahar I N, **Subodh G*** "A six-mode optical thermometry rooted from the distinct thermal behavior of $SrLaLiTeO_6$: Mn^{4+}, Eu^{3+} double perovskites and their potential application in wavelength detection" **J. Sci. Adv. Mater. Dev.** 8 100544 (2023). 77 Athira Rajan, Sibi K Solaman**, Subodh G* "**Design and Fabrication of Layered Electromagnetic Interference Shielding Materials: A Cost-Effective Strategy for Performance Prediction and Efficiency Tuning" ***ACS Appl. Mater. Interfaces,*** 15, 4, 5822 (2023). 76**.** Rakhi M, Athira Rajan, **Subodh G* "**Cold-sintered $NaCa_2Mg_2V_3O_{12}$–Li_2MoO_4 microwave dielectrics for the design and fabrication of high-bandwidth antennas **Mater. Res. Bull.** 158, 112069 (2023). **2022** 75. Santha N*****, Jagadeesh M, Jawahar I. N. and **Subodh G*** "Ethylenediaminetetraacetic Acid (EDTA) Assisted Single Step Densification of Li_2TiO_3/PTFE Composites at Ultralow Sintering Temperature to Realize a High-Performance Ku-Band Antenna" ***ACS Appl. Electron. Mater***. 4, 9, 4406 (2022). 74. Adersh V, Athira Rajan, **Subodh G*** $MgFe_{1.98}O_4$ – $BaFe_{12}O_{19}$ magneto-dielectric composites-based ferrite resonator antenna for super-high frequency applications **Ceram. Inter.** 48, 24531 (2022). **73.** Sibi N, **Subodh G*** Garnet mineral reinforced silicone rubber based composites for flexible microwave substrates **Mater. Res. Bull.** 153, 11879 (2022). **72.** Amrithakrishnan B, Jawahar I. N, **Subodh G*** "Insights into the crystal structure and photophysical response of Dy^{3+} doped $Li_3Y_3Te_2O_{12}$ for ratiometric temperature sensing" **J. Sci. Adv. Mater. and Devices**. 7, 100444 (2022). **71.** Vilesh V. L, **Subodh G*** "Silicone Rubber- $BaBiLiTeO_6$ composites: Flexible Microwave Substrates for 5G Applications" **J. Electr. Mater**. 5, 3237–3247 (2022). **70.** Sreelekshmi A. K, Sariga C Lal, **Subodh G*** "Probing Multifunctionality in $NaGdMgTeO_6$:Eu^{3+}: A Double Layered Perovskite for Ratiometric Phosphor Thermometry and Solid-State Lighting" **J. Alloys and Compds** 905, 164138 (2022). **69.** Vidhya Lalan, **Subodh G*** "The smallest anions, induced porosity and graphene interfaces in C12A7: e-electrides: A paradigm shift in electromagnetic absorbers and shielding materials" **J. Mater. Chem. C 10, 969 (2022)** **68** Amrithakrishnan B, Jawahar I N, **Subodh G*** Distortion and Energy Transfer Assisted Tunability in Garnet Phosphors **Critical Rev. Solid State Mater. Sci**. 47 621 (2022) **(IF-11).** **67** Amrithakrishnan B, Jawahar I N, **Subodh G*** "Vibrationally Induced Photophysical Response of $Sr_2NaMg_2V_3O_{12}$:Eu^{3+} for Dual mode Temperature Sensing and Safety Signs" **Adv. Photonics Res.** 3 2100159 (2022). **2021** **66.** Amrithakrishnan B, Anusree S Priya, Jawahar I N, **Subodh G* "**Deciphering crystal structure and photophysical response of Bi^{3+} and Pr^{3+} co-doped $Li_3Gd_3Te_2O_{12}$ for lighting and ratiometric temperature sensing" **J. Alloys Compds.** 893 162246 (2021). **65.** Vilesh V. L. Santha N, **Subodh G*** "Influence of Li_2MoO_4 and polytetrafluoroethylene addition on the cold sintering process and dielectric properties of $BaBiLiTeO_6$ ceramics" **Ceram. Inter.** 47 30756-30763 (2021).

List of Publications	**64** Nima A. M., Vidhya L, **Subodh G*** "Green Route for the Synthesis of Fluorescent Carbon Nanoparticles from Circassian Seeds for Fe(III) Ion Detection**" J. Fluorescence** 31 1323 (2021). **63**. Rakhi M, Santha , **Subodh G*** "Insights into the Microstructure and Dielectric Properties of Cold Sintered $NaCa_2Mg_2V_3O_{12}$ Based Composites**" Frontiers in Materials** 8 665033 (2021). **62** Athira R, Sibi K. S**. Subodh G* "**Cold Sintering: An Energy-Efficient Process for the Development of $SrFe_{12}O_{19}$–Li_2MoO_4 Composite-Based Wide-Bandwidth Ferrite Resonator Antenna for Ku-Band Applications" **ACS Appl. Electr. Mater.** 3, 2297−2308 (2021). **61.** Sariga C. Lal, Jawahar I. N, **Subodh G*** "Deep-Red Emitting $SrLaLiTeO_6$: Mn^{4+} Double Perovskites: Correlation Between Mn^{4+}-O^{2-} Bonding and Photoluminescence" **J. Am. Ceram. Soc** 104. 5293–5306. (2021). **60.** Sibi N, **Subodh G*** "Magnetodielectric response of composites based on a natural garnet and spinel ferrites for sub-GHz wireless applications" **Ceram. Inter**. 47, 21404, (2021). **59.** Nithin J. S, Mahesh A, Sibi K. S, **Subodh G*** "Insights into the crystal structure and multifunctional optical properties of A_2CdTeO_6 (A= Ba, Sr, Ca) double perovskites" **J. Alloys. Compds.** 865 158902 (2021). **58** Anooja J B, Vidhya L, **Subodh G* "**Synergy-induced tunable electromagnetic response and enhanced shielding efficiency in carbon black-and carbonyl iron-reinforced polydimethylsiloxane composites" **Mater. Res. Bull.** 142 111415 (2021). **57**. Sariga C. Lal, Jawahar I. N, **Subodh G*** Distortion induced structural characteristics of $Ba_2R_{2/3}TeO_6$ (R = Y, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu) double perovskites and their multifunctional optical properties for lighting and ratiometric temperature sensing **Mater. Adv.** 2 1328 (2021). **56.** Vilesh V. L. **Subodh G*** "Crystal structure and phonon modes of disorder induced $Ba_2Li_{1-x}Te_{1+x}O_{5.5+\delta}$ (x= 0, 0.1, 0.2) double perovskite based microwave dielectrics" **Mater. Res. Bull.** 137 111190 (2021). **2020** 55. C.I. Muneera Varsha Viswanath, Subodh G. Zinc Phthalocyanine-Poly (Vinyl Alcohol) nanocomposite films: Low threshold optical limiting properties based on third-order nonlinear absorption response Optics and Laser Techn. 127 106168 (2020). **54** Nima A M, Amritha P, Vidhya L. **Subodh G*** "Green synthesis of blue-fluorescent carbon nanospheres from the pith of tapioca (Manihot esculenta) stem for Fe (III) detection**" J. Mater. Sci. Mater. Electr.** 23 21767 (2020). **53** Athira Rajan, Subodh G* "Crystal structure, microstructure, and broadband electromagnetic response of Al^{3+}-substituted $Sr_3YCo_4O_{10+\delta}$ double perovskites" **Ceram. Inter.** 46 25683 (2020). **52.** Adersh V, Subodh G* Influence of B_2O_3 on the Broadband Electromagnetic Response of MgFe1.98O4 Ceramics **J. Electr. Mater**. 49 7316 (2020). **51.** Santha N. Rakhi M. **Subodh G*** "Fabrication of high quality factor cold sintered $MgTiO_3$–NaCl microwave ceramic composites" **Mater. Chem. Phys.** 255 123636 2020 **50.** Sibi N. Athira Rajan, **Subodh G*** Garnet Mineral Based Composites through Cold Sintering Process: Microstructure and Dielectric Properties" **J. Eur. Ceram. Soc.** 40 371-375 (2020). **49.** Rakhi M. **Subodh G*** "Crystal structure, phonon modes, and bond characteristics of $AgPb_2B_2V_3O_{12}$ (B = Mg, Zn) microwave ceramics" **J. Am. Ceram. Soc.** 103, 3157 (2020). **48.** Vidhya Lalan, **Subodh G*** "Broadband Electromagnetic Response and Enhanced Microwave Absorption in Carbon Black and Magnetic Fe_3O_4 Nanoparticles Reinforced Polyvinylidenefluoride Composites" **J. Electr. Mater.** 49, 1666 (2020). 47. P Sajan, CK Krishna Sagar, NG Divya, G Subodh, M Junaid BushiriRoom temperature Near-IR photoluminescence from ethylenediamine assisted solvo-hydrothermally grown wurtzite ZnS: Nd_2O_3 system Mater. Che. Phys. 257 123713 (2020). **2019** **46**. Sariga C. Lal, A.M. Aiswarya, K.S. Sibi, **G. Subodh***, "Insights into the structure, photoluminescence and Judd-Ofelt analysis of red emitting $SrLaLiTeO_6$: Eu^{3+} phosphors" **J. Alloys Compds** 788 1300 (2019).

List of Publications	45. Varsha Viswanath, Sreeja Sreedharan Nair, G Subodh, CI MuneeraEmission features, surface morphology and optical limiting properties of semiconducting Toluidine Blue O dye-poly (vinyl alcohol) nanocomposite architecture SN Applied Sciences 1 43 (2019 **44.** Varsha Viswanath, Sreeja Sreedharan Nair, **G. Subodh***, C. I. Muneera* "Zinc oxide encapsulated poly (vinyl alcohol) nanocomposite films as an efficient third-order nonlinear optical material: Structure, microstructure, emission and intense low threshold optical limiting properties" Mater. Res. Bull. 2, 281–291 (2019). **43**. Athira Rajan, Sikha L. Das, Sibi K. S, **Subodh G*** "Influence of Bi Substitution on the Microstructure and Dielectric Properties of $Gd_3Fe_5O_{12}$ Ceramics" **J. Electr. Mater**. 48, 1133, (2019). **42.** Vidhya Lalan, Aparna P. N., K. P. Surendran, **Subodh G** "Room-Temperature Ferromagnetic $Sr_3YCo_4O_{10+\delta}$ and Carbon Black-Reinforced Polyvinylidenefluoride Composites toward High-Performance Electromagnetic Interference Shielding" **ACS Omega** 4, 8196−8206 (2019**)**. **41.** Anooja J. Babu, Dijith K. S, Surendran K. P., **Subodh G***, A simple strategy for flexible electromagnetic interference shielding: Hybrid rGO@CB-Reinforced polydimethylsiloxane, **J. Alloys and Compds.** 807, 151678, (2019). **40.** Vilesh V. L, Rukzana K, **Subodh G***, "Vibrational studies and microwave dielectric properties of $Ca_3Te_2Zn_3O_{12}$ ceramic with garnet structure" **J. Mater. Mater. Electr.** 30, 18936 (2019). **2018** **39.** Rakhi M. **Subodh G*** "Crystal structure and microwave dielectric properties of $NaPb_2B_2V_3O_{12}$ (B=Mg, Zn) ceramics" **J. Eur. Cer. Soc**. 38 4962 (2018). **38.** Sibi N, Induja I. J., K. P. Surendran, **Subodh G***, **"**Natural garnet reinforced high density polyethylene composites for sustainable microwave substrates" **Mater. Res. Bull.** 106 478 (2018). **37.** Sariga C. Lal, Vidhya Lalan, **Subodh G***. Structural Characterization of B-Site Ordered $Ba_2Ln_{2/3}TeO_6$ (Ln = La,Pr, Nd, Sm, and Eu) Double Perovskites and Probing its Luminescence as Eu^{3+} Phosphor Hosts, **Inorg. Chem.** 57 6226-6336 (2018). **36.** Vilesh V. L., **Subodh G*** "Crystal Structure, Phonon Modes and Dielectric Properties of B Site Ordered $ABiLiTeO_6$ (A= Ba, Sr) Double Perovskites Cer. Inter. 44 12036–12041 (2018). **2014-2017 (University of Kerala)** **35**. Sariga C. Lal, Athira Rajan, **Subodh G*** "Crystal Structure and Luminescence Properties ofrare Earth Doped $Ba_2Bi_{2/3}TeO_6$ Double Perovskites", **Materials Today Proceedings** 4, 4396 4402 (2017). **34**. Vilesh V. L., **Subodh G***, "Crystal Structure and Dielectric Properties of $BaANaTeO_6$ (A = Bi,La) Double Perovskites" **Ceram. Inter.** 43 (15), 12718- 12723 (2017) . **33**. N. Sibi, **G. Subodh***, "Structural and Microstructural Correlations of Physical Properties of Natural Almandine-Pyrope Solid Solution: Al70Py29" **J. Elect. Mater**. 46 (12), 6947 (2017). **32.** Amrithakrishnan B., **Subodh G***, "Crystal Structure and optical properties of B site Ordered $ALaLiTeO_6$ (A = Ba, Sr) ceramics" **Mater. Res. Bull**. 93,177–182 (2017). **31.** M. Rakhi & **Subodh G*** "Rare Earth Titano-silicates for High k Gate Dielectric Applications" **Ceram. Inter**. 42, 10886 (2016). 30. PS Krishnaprasad, P Mohanan, G Subodh, MT Sebastian, MK JayarajA novel $Sr_3Pb_6Ce_2Ti_{12}O_{36}$ ferroelectric thin film grown by pulsed laser ablation Appl. Phys. A 116, 199 (2014). **JSPS Postdoctoral Fellow at Kyoto University Japan (2011-2013)** **29**. **Subodh G**, T. Yajima, K. Nakano, Y. Nozaki, C. Tassel, Y. Kobayashi, H. Kageyama*, Superconductivity in $LaPd_2As_2$ with a Collapsed 122 Structure, **J. Alloys. Compd.** 613 370 (2014)**.**

28. Subodh G*, C. Tassel, N. Hayashi, G. Bouilly, Y. Goto,T. Yajima, Y. Kobayashi, and, H. Kageyama, Charge Disproportionation and Magneto-resistivity in a Double Perovskite with Alternate Fe^{4+} (d^4) and Mn^{4+}(d^3) Layers, **Eur. J. Inor. Chem.** 2576-2581 (2014).

27. G. Subodh T. Yajima, K. Nakano, Y. Nozaki, C. Tassel, Y. Kobayashi, and H. Kageyama*, $LaPd_2Sb_2$, a pnictide superconductor with $CaBe_2Ge_2$ type structure **J. Alloys. Compd.** 583 151–154 (2014).

26 C. Tassel, L. Seinberg, N. Hayashi, **Subodh G,** Y. Ajiro, Y. Kobayashi, H. Kgeyama* Sr_2FeO_3 with Stacked Infinite Chains of FeO_4 Square Planes **Inor. Chem**. 52 6096 (2013)

25. Chameswary J, Dhanesh Thomas, **Subodh G**, Soumya Harshan, Jacob Philip, M. T Sebastian "Microwave dielectric properties of flexible butyl rubber–strontium cerium titanate composites" 124 3426 (2012).

24. Rick Ubic, Steven Letourneau, S Thomas, Subodh G, MT Sebastian "Re-Examination of the Structure of $Sr_2(MgTe)O_6$ Double Perovskite J. Aus. Ceram. Soc. 47 49 (2011).

Alexander von Humboldt Fellow at University of Stuttgart, Germany (2009-10)

23. R. Ubic*, Steven Letourneau, S. Thomas, **G. Subodh** and M. T. Sebastian,"Influence of Sr substitution on the structure microstructure and microwave dielectric properties of $Ca_{1-x}Sr_xMgTeO_6$ ceramics", ***Chem. Mater***. 22 4572-4578 (2010).

22 L. Burianova, S. Panos, M C Stennett, A R West, Subodh G, M T Sebastian, S. Kamba Piezoelectric and ferroelectric properties of new $Pb_9Ce_2Ti_{12}O_{36}$ and lead-free $Ba_2NdTi_2Nb_3O_{15}$ ceramics J. Electroceram. 25 116-121 (2010).

21. R. Ubic*, **G. Subodh**, Prediction of Lattice constants in orthorhombic perovskites, ***J. All. Comp.*** 488 374-79, (2009).

20. **G. Subodh**, V. Deepu, P. Mohanan M. T. Sebastian*, Dielectric Response of High permittiviity Polymer ceramic Composite with Low Loss tangent, ***Appl. Phys. Lett.*** 9 062903 (2009).

Selected Publications as Ph. D student at CSIR-NIIST, Trivandrum

19. A. Dias*, **G. Subodh**, M. T. Sebastian, and R. L. Moreira, Vibrational spectroscopistudy of Sr_2ZnTeO_6 double perovskites, ***J. Raman. Spectr.*** 41,70206, (2010).

18. R. Ubic, * **G. Subodh**, M. T. Sebastian, D. Gout, and T. Proffen, "Crystal Structure of $Sr_{0.4}Ce_{0.4}TiO_3$ Ceramics", ***Chem. Mater.*** 21,4706-10,(2009).

17 S. Kamba*, M. Savinov, O. Tkáč, Ch. Kadlec, S. Veljko, E. John, **G. Subodh**, M. T. Sebastian, F. Laufek, V. Bovtun, J. Pokorny, J. Petzelt, Quantum Paraelectric and Ferroelectric Properties in novel $Sr_{9-x}Pb_xCe_2Ti_{12}O_{36}$ (x=0-9) ceramic system, **C*hem. Mater.*** 21, 811, (2009).

16. G. Subodh,V. Deepu P. Mohanan, M. T. Sebastian*, Dielectric response of $Sr_2Ce_2Ti_5O_{15}$ ceramic loaded polyethylene, ***J. Phys. D. Appl. Phys.*** 42, 225501 (2009).

15. R. Ubic*, G. Subodh, M.T. Sebastian, D. Gout, and T. Proffen, Effective Size of Vacancies in the $Sr_{1-3x/2}Ce_xTiO_3$ Superstructure, ***Ceramic Transactions***, 204 177-86, (2009).

14. J. Honkamo, H. Jantunen*, G. Subodh, M. T. Sebastian, P. Mohanan, Tape Casting and Dielectric Properties of $Zn_2Te_3O_8$-based Ceramics with Ultra-Low Sintering Temperature, ***Int. J. of Appl. Ceram. Tech.*** 6, 531-36 (2009).

13 G. Subodh, V. Dipu, P. Mohanan and M. T. Sebastian*, Polystyrene/$Sr_2Ce_2Ti5O_{15}$ composites For Microwave Substrate Applications, ***Polym. Engg. Sci.*** 49, 1218-24, (2009).

12.R. L. Moreira*, R. P. S. M. Lobo, G. Subodh, M. V. Jacob, M. T. Sebastian, and A.

	Dias, Microwave and infrared dielectric properties of $Sr_{1-x/2}Ce_xTiO_3$ (x=0.154 to 0.400) incipient ferroelectrics at cryogenic temperatures, ***J. Phys. D. Appl. Phys.*** 42, 75411-19 (2009). **11.** R. Rejini, **G. Subodh** and M. T. Sebastian*, $Ca_4La_2Ti_5O_{17}$: A novel low loss dielectric ceramics in the CaO-La_2O_3 -TiO_2 system, ***J. Mater. Sci. Mater. Electr.*** 19, 1153-55 (2008). **10.** A. Dias, **G. Subodh,** M. T. Sebastian, M. M. Lage and R. L. Moreira*, Vibrational studies and microwave dielectric properties of A-site substituted tellurium-based double perovskites, ***Chem. Mater.*** 20, 4347 (2008). **9.** R. Ubic*, **G. Subodh**, M.T. Sebastian, D. Gout, and T. Proffen, Structure of compounds in the $Sr_{1-3x/2}Ce_xTiO_3$ Homologous Series, ***Chem. Mater.*** 20, 3127-33 (2008). **8.** G. Subodh and M. T. Sebastian*, Microwave Dielectric Properties of ATe_3O_8 (A=Sn, Zr) Ceramics, ***Jpn. J. Appl. Phys.*** 47, 7943-46 (2008). **7.**G. Subodh, M. V. Manjusha, J. Philip and M. T. Sebastian*, Thermal Properties of PTFE/$Sr_2Ce_2Ti_5O_{16}$ Polymer Ceramic composites, ***J. Appl. Polm. Sci.*** 108, 1716 (2008). **6. G. Subodh** and M. T. Sebastian* "Microwave dielectric properties of $Sr_2Ce_2Ti_5O_{16}$ ceramics" ***Mater. Sci. Engg. B*** 136, 50-56 (2007). **5. G. Subodh**, J. James, M. T. Sebastian, R. M. Paniago, A. Dias and R. L. Moreira*, Structure and Microwave Dielectric Properties of $Sr_{2+n}Ce_2Ti_{5+n}O_{15+3n}$ ($n \leq 10$) Homologous Series" ***Chem. Mater.*** 19, 4077- 82 (2007). **4.** R. L. Moreira*, R. P. S. M. Lobo, **G. Subodh**, M. T. Sebastian, F. M. Matinaga, and A. Dias, Optical Phonon Modes and Dielectric Behavior of $Sr_{1-3x/2}Ce_xTiO_3$ Microwave Ceramics ***Chem. Mater.*** 19, 6548-54 (2007). **3. G. Subodh**, C. Pavithran, P. Mohanan, M. T. Sebastian*, PTFE/$Sr_2Ce_2Ti_5O_{16}$ Polymer Ceramic Composites for Electronic Packaging Applications ***J. Euro. Ceram. Soc.***27, 3039 (2007). **2. G. Subodh** and M. T. Sebastian*, Glass free $Zn_2Te_3O_8$ microwave ceramic for LTCC Applications ***J. Am. Ceram. Soc.*** 90, 2266-68 (2007). **1. G. Subodh**, Manoj Joseph, P. Mohanan and M. T. Sebastian*, Low Dielectric Loss Polytetrafluoroethylene/TeO_2 Polymer Ceramic Composites" ***J. Am. Ceram. Soc.*** 90, 3507-3511 (2007).
Invited Talks/ Conferences Presentations	No. of Invited Talks in National/International Conferences: 25 No. of conference presentations (oral and poster) from the research group: 70
Reviewer	Advanced Functional Materials Nano-micro Letters Advanced Optical Materials Chemical Engineering Journal Chemistry of Materials ACS Sustainable Chemistry and Engineering ACS Applied Materials and Interfaces ACS Applied Nanomaterials ACS Applied Optical Materials Langmuir Journal of Materials Chemistry C ACS Omega

	RSC Advances Journal of Physical Chemistry C Journal of Materials Science Dalton Transactions Journal of American Ceramic Society Journal of Applied Physics Materials Chemistry and Physics International Journal of Applied Ceramic Technology Materials Science and Engineering B Material Research Bulletin Journal of Luminescence Journal of Electronic Materials Composite Part B Engineering Journal of European Ceramic Society Journal of Magnetism and Magnetic Materials Journal of Physics D Applied Physics Materials Research Express Journal of Alloys and Compounds Optical Materials Journal of Physics and Chemistry of Solids Nanotechnology Journal of Advanced Dielectrics European Journal of Inorganic Chemistry Materials Advances Scientific Reports Journal of Raman Spectroscopy Journal of Physics and Chemistry of Solids AIP Advances Synthetic Metals MedComm-BIOMATERIALS AND APPLICATIONS Materials Today Communications Rare Metals Physica Status Solidi European Physical Journal Applied Physics Journal of Polymer Engineering SPE Polymers Applied Mathematical Modelling Journal of Solid-State Science and Technology Energy and Fuels
Ph. D Thesis Examiner	1. IISc Bangalore 2. C-MET Thrissur 3. Pondicherry University 4. Madurai Kamaraj University
Project Evaluator	1. SERB 2. KSCSTE 3. National Science Centre, Poland