

RESUME



Name: Mr. Jincemon Cyriac
Designation: Assistant Professor (Contract)
Department: Physics
Phone No: 9947464726
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Date of Entry into Service: 25/07/2014
Date of Retirement:
Qualifications: M.Sc., M.Phil
Area of Interest: Classical mechanics, Condensed Matter Physics, Materials science
Subjects Handled: PG and UG classes in Physics
Field of Research: Nano multiferroic system
Experience: 1.10 years
Extension Activities: Yoga Trainer, Competitive exam coaching

1. Jilu C John, Tina Sebastian, **Jincemon Cyriac**, Alphonsa Paul, Adon Jose, S Shaji, and Saji Augustine, Optoelectronic characteristics of In_2S_3 -CNT nanocomposite thin films for photodetector application, *J. Electron. Mater.* (2021) 1-13. <https://doi.org/10.1007/s11664-021-08804-z>
2. **Jincemon Cyriac**, Saji Augustine, Nandakumar Kalarikkal, Shubharaj Mukherjee, Maudud Ahmed, P M G Nambissan, Dysprosium-substitution-induced structural changes of multiferroic nanocrystalline bismuth ferrite and the investigation through positron annihilation and other studies, *Physica B: Physics of Condensed Matter* 599 (2020) 412431, <https://doi.org/10.1016/j.physb.2020.412431>
3. **Jincemon Cyriac**, Jilu C. John, Nandakumar Kalarikkal, Saji Augustine, Tailoring the dielectric and magnetic properties of Eu-substituted BiFeO_3 nanoparticles, *Materials Today: Proceedings* 25 (2020) 134-139, <https://doi.org/10.1016/j.matpr.2019.12.186>.
4. **Jincemon Cyriac**, Sunny Mathew, Saji Augustine and P M G Nambissan, Defects characterization studies of europium-substituted bismuth ferrite nanocrystals by positron annihilation and other methods, *J. Phys. D: Appl. Phys.* 51 (2018) 435303 (14pp). <https://doi.org/10.1088/1361-6463/aadfa7>

5. **Jincemon Cyriac**, M T Rahul, Nandakumar Kalarikkal and P M G Nambissan, Positron annihilation spectroscopic studies of multiferroic $\text{Bi}_{1-x}\text{Pr}_x\text{FeO}_3$ nanocrystalline Compounds, Journal of Physics: Conference Series 618 (2015) 012012. <https://doi.org/10.1088/1742-6596/618/1/012012>
6. **Jincemon Cyriac**, Rahul Mundiyaniyil Thankachan, B Raneesh, P M G Nambissan, D Sanyal and Nandakumar Kalarikkal, Positron annihilation spectroscopic studies of Mn substitution-induced cubic to tetragonal transformation in $\text{ZnFe}_{2-x}\text{Mn}_x\text{O}_4$ ($x = 0.0-2.0$) spinel nanocrystallites, Philosophical Magazine 95, 35 (2015) 4000–4022. <https://doi.org/10.1080/14786435.2015.1110631>
7. Rahul Mundiyaniyil Thankachan, **Jincemon Cyriac**, B Raneesh, Nandakumar Kalarikkal, D Sanyal and P M G Nambissan, Cr^{3+} -substitution induced structural reconfigurations in the nanocrystalline spinel compound ZnFe_2O_4 as revealed from X-ray diffraction, positron annihilation and Mossbauer spectroscopic studies, RSC Adv., 5 (2015) 64966–64975. <https://doi.org/10.1039/C5RA04516A>
8. Paramjit Singh, Rajesh Kumar, **Jincemon Cyriac**, M T Rahul, P M G Nambissan, Rajendra Prasad, High energy (MeV) ion fluence dependent nano scale free volume defects studies of PMMA films, Nuclear Instruments and Methods in Physics Research B 320 (2014) 64–69, <http://dx.doi.org/10.1016/j.nimb.2013.11.010>

Other peer reviewed publications

1. **Jincemon Cyriac**, Jilu C. John, Alphonsa Paul, Tina Sebastian, Saji Augustine, Dielectric and magnetoelectric coupling properties in pr^{3+} doped bismuth ferrite, ALFOMINE: Int. Journal Part A (Sciences) Nov. 2020, ISSN 2250-3870, Vol.6, No.9.
2. Jilu C John, Alphonsa Paul, Jincemon Cyriac, Nisha Joseph, Tina Sebastian, Saji Augustine, Photocatalytic performance of tetragonal $\beta\text{-In}_2\text{S}_3$ thin films for degradation of methylene blue under visible light irradiation, ALFOMINE: Int. Journal Part A (Sciences) Nov. 2020 ISSN 2250-3870 Vol.6, No.9
3. Jilu C John, Tina Sebastian, **Jincemon Cyriac**, Saji Augustine, Structural and Optical Properties of $\text{In}_2\text{S}_3\text{-Gr}$ Nanocomposite Thin Films, Research Lines, 2019, ISSN 0975-8941, Vol. XII, No 1&2.
4. **Jincemon Cyriac**, Saji Augustine, Sunny Mathew, Synthesis and characterization of $\text{Bi}_{1-x}\text{Eu}_x\text{FeO}_3$ ($x = 0$ and 0.1) nanocrystalline system, ALFOMINE: Int. Journal Part A (Sciences) 2016, ISSN 2250-3870, Vol.4, No.5.

5. **Jincemon Cyriac**, Nandakumar Kalarikkal, P M G Nambissan, Nanocrystalline multiferroic $\text{Bi}_{1-x}\text{Pr}_x\text{FeO}_3$ ($x = 0-0.3$) system studied by different characterization techniques, EXPLORATIONS, Journal of seminar papers, Emerging Nanomaterials, 2015, ISSN 2229-4783, Vol. 5, Issue 2.

Papers Presented in Seminars/Conferences:

1. Shubharaj Mukherjee, Maudud Ahmed, **Jincemon Cyriac**, Sunny Mathew, Saji Augustine and P M G Nambissan, Positron annihilation spectroscopic investigation of defects in Dy^{3+} and Cr^{3+} doped BiFeO_3 nanocrystallites. Positron Study of Defects-2020 (PSD-20), BARC, Mumbai, India, 1-5 March 2021.
2. **Jincemon Cyriac**, Jilu C. John, Nandakumar Kalarikkal, Saji Augustine, Tailoring the dielectric and magnetic properties of Eu-substituted BiFeO_3 nanoparticles, International Conference on Science & Technology of Advanced Materials (STAM 20), Mar Athanasius College (Autonomous), Kothamangalam, Kerala, India, 14-18 January 2020.
3. Jilu C John, Tina Sebastian, **Jincemon Cyriac**, Nisha Joseph, S Shaji, Saji Augustine, Influence of Deposition methods on Structural and Optical Properties of In_2S_3 Thin Films, Proceedings of National Seminar on Advanced Materials for Energy NSAME 2019, St. Thomas College, Ranni, Pathanamthitta, Kerala, India, 17-18 December 2019.
4. **Jincemon Cyriac**, Jilu C John, Nandakumar Kalarikkal, P M G Nambissan, Tina Sebastian, Saji Augustine, Structural transformation and enhancement of properties in Dy^{3+} doped BiFeO_3 multiferroic system, National conference on Advances in Nanomaterials & Nanotechnology, Department of Physics, Mar Thoma College, Tiruvalla, Kerala, India, 6-7 August 2019.
5. Jilu C John, Saji Augustine, Tina Sebastian, **Jincemon Cyriac**, Nisha Joseph, Structural and optical properties of In_2S_3 -CNT nanocomposite thin films, National conference on Advances in Nanomaterials & Nanotechnology, Department of Physics, Mar Thoma College, Tiruvalla, Kerala, India, 6-7 August 2019.
6. **Jincemon Cyriac**, Sunny Mathew, Saji Augustine, Nandakumar Kalarikkal, and P M G Nambissan, A novel Synthesis and characterization of Eu doped BiFeO_3 thin film, 4th International Conference on Nanomaterials: Synthesis, Characterization and Applications, IIUCNN, M G University, Kottayam, Kerala, India, 12-14 April 2019.
7. **Jincemon Cyriac**, Sunny Mathew, Saji Augustine, Nandakumar Kalarikkal, N S Negi and P M G Nambissan, Enhanced Dielectric and magneto-electric studies in Eu doped Bismuth Ferrite $\text{Bi}_{1-x}\text{Eu}_x\text{FeO}_3$ system due to structural distortions, 31st Kerala Science Congress, Fatima Mata National College, Kollam, Kerala, India, 2-3 February 2019.

8. **Jincemon Cyriac**, Rahul M T, Saji Augustine, Sunny Mathew, Substitutional effects of Cr^{3+} on $\text{BiFe}_{1-x}\text{Cr}_x\text{O}_3$ multiferroic system, International Conference on Optoelectronics and Nano Materials for Advanced Technology (icONMAT), Cochin University of Science and Technology, Kochi, India, 3-5 January 2019.
9. **Jincemon Cyriac**, Sunny Mathew, Saji Augustine, Tina Sebastian and P M G Nambissan, Dielectric and magneto-electric studies in europium doped Bismuth ferrite $\text{Bi}_{1-x}\text{Eu}_x\text{FeO}_3$ systems due to structural distortions, 30th Kerala Science Congress Organized by KSCSTE, and Government Brennen College, Government Brennen College, Thalasseri, Kannur, Kerala, India, 28-30 January 2018.
10. **Jincemon Cyriac**, Rahul M T, Saji Augustine, Sunny Mathew, Effects of substitution on the structural, optical, dielectric and ferroelectric properties of multiferroic $\text{BiFe}_{1-x}\text{Cr}_x\text{O}_3$ system, International Conference on Nanotechnology: Ideas, Innovations and Initiatives – 2017, Dept. of Mechanical & Industrial Engineering and Centre of Nanotechnology, IIT, Roorkee, India, 06-08 December 2017.
11. **Jincemon Cyriac**, Rahul Mundiyanil Thankachan, B Raneesh, P M G Nambissan, and Nandakumar Kalarikkal, Multiferroic properties studies in Pr^{3+} doped BiFeO_3 in bulk & nanosystems, Department of Physics, St. Xavier's College Vaikom, Kottayam, Kerala, India, 11-12 February 2016
12. **Jincemon Cyriac**, Rahul Mundiyanil Thankachan, Saji Augustine, P. M. G Nambissan, D. Sanyal, Cr^{3+} and Mn^{3+} - substitution induced structural reconfigurations in the nanocrystalline spinel compound ZnFe_2O_4 , UGC sponsored National Seminar on "Nanoscale Science and Technology", Department of Physics, Deva Matha College, Kuravilangad, Kottayam, Kerala, India, 10-11 December 2015.
13. **Jincemon Cyriac**, Nandakumar Kalarikkal, P M G Nambissan, nanocrystalline multiferroic $\text{Bi}_{1-x}\text{Pr}_x\text{FeO}_3$ ($x = 0 - 0.3$) system studied by different characterization techniques, UGC sponsored national seminar on Emerging Nanomaterials, NSEN 2015, Deva Matha College, Kuravilangad, Kottayam, Kerala, India, 06-07 January 2015.

Awards & Achievements

1. **RSC, journal of Material chemistry C – Best oral presentation award**
Jincemon Cyriac, Jilu C. John, Nandakumar Kalarikkal, Saji Augustine, Tailoring the dielectric and magnetic properties of Eu-substituted BiFeO_3 nanoparticles, International Conference on Science & Technology of Advanced Materials (STAM-20), Mar Athanasius College (Autonomous), Kothamangalam, Kerala, India, 14-18 January 2020.
2. **Springer – Best poster award**
Jincemon Cyriac, Sunny Mathew, Saji Augustine, Tina Sebastian and P M G Nambissan, Dielectric and magneto-electric studies in europium doped Bismuth

ferrite ($\text{Bi}_{1-x}\text{Eu}_x\text{FeO}_3$) systems due to structural distortions, 30th Kerala Science Congress Organized by KSCSTE, and Government Brennen College, Government Brennen College, Thalassery, Kannur, Kerala, India, 28-30 January 2018.

TEACHING EXPERIENCE:

B.Sc./ M.Sc. Physics (1 year 10 months 17 days)

- ✚ Guest Lecturer in Physics department, Deva Matha College, Kuravilangad (**B.Sc. and M.Sc**) Appointment order **No. B5-918/G.L./2014-15**, from 25/07/2014 to 31/12/2015.
- ✚ Guest Lecturer in Physics department, Deva Matha College, Kuravilangad (B.Sc.) Appointment order **No. A2-1216/GL/2015-16**, from 15/7/2015 to 31/03/2016.
- ✚ Guest Lecturer in Physics department, Deva Matha College, Kuravilangad (B.Sc.) Appointment order **No. A2-1216/GL/2017-18**, From 04/10/2017 to 15/03/2018.

Additional Qualifications

- ✚ Member in Academy of Physics Teachers, Kerala, Reg. No. 1051/99. Judge / Office work for KURAVILANGAD SUB – DISTRICT WORK EXPERIENCE/SCIENCE/MATHS/SOCIALSCIENCE/IT FAIR AT GOVT.VHHS/VAYALA ON 21/10/2014.
- ✚ Trained YOGA for 17 Kerala Bn NCC cadets for international Yoga day on 21 June 2015.