Dr. Alinda Shaly .A

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Education

- **Ph.D.** in Physics, University of Madras, 2022
- **M.Sc.** in Physics, University of Madras, 2016
- **B.Sc.** in Physics, Madurai Kamaraj University, 2014

Teaching Experience

- **Assistant Professor** (2024–present), Department of SH, Loyola-ICAM College of Engineering and Technology (LICET)
- **Assistant Professor** (2022–2024), Loyola College

Publications and Book Chapters

- **Journals:** 13 international publications (Scopus/WoS)

[1] Shaly, A. A., Priya, G. H., & Linet, J. M. (2020). An outlook on the mechanical attributes and load curve analysis of hydrothermally acquired hydroxyapatite bioceramic nanoparticles. *Physica B: Condensed Matter*, 590, 412223.

[2] Priya, G. H., Shaly, A. A., & Linet, J. M. (2021). Effect of Zn variation in TiO_2/ZnS nanocomposite on photocatalysis for the degradation of the hazardous crystal violet dye. *Journal of Materials Science: Materials in Electronics*, 32(5), 5790-5802.

[3] Shaly, A. A., Priya, G. H., Mahendiran, M., Linet, J. M., & Mani, J. A. M. (2022). An intrinsic analysis on the nature of alumina (Al_2O_3) reinforced hydroxyapatite nanocomposite. *Physica B: Condensed Matter*, 642, 414100.

[4] Selvi, S. S. T., Priya, G. H., Shaly, A. A., Joseph, L. A., & Linet, J. M. (2020). Synthesis, characterization, photocatalytic effect of thiourea and thioglycolic acid on ZnO/CuS nanocomposites for degradation of Mordant Black 11 dye. *Applied Physics A*, 126(5), 328.

[5] Shaly, A. A., Priya, G. H., & Linet, J. M. (2021). An exploration on the configurational and mechanical aspects of hydrothermally procured MgO/HA bioceramic nanocomposite. *Physica B: Condensed Matter*, 617, 413131.

[6] Priya, G. H., Shaly, A. A., Evangelin, G., & Linet, J. M. (2022). Fabrication and characterization of TiO_2/CuS nanocomposites (Cu= 0.25, 0.50, and 0.75 M) utilized for the photocatalytic degradation of crystal violet dye. *Journal of Materials Research*, 37(23), 4182-4199.

[7] Shaly, A. A., Priya, G. H., Mahendiran, M., & Linet, J. M. (2022). A behavioural study of hydrothermally derived novel alumina/magnesia/hydroxyapatite (Al_2O_3/MgO/HA) bioceramic nanocomposite. *Journal of the Mechanical Behavior of Biomedical Materials*, 133, 105313.

[8] Shaly, A. A., Priya, G. H., Matharasi, A., Prabha, A. S., & Linet, J. M. (2022). The nature and role of α-MnO_2 nanowires in the photocatalytic degradation of the antibiotic tetracycline. *Materials Today: Proceedings*, 68, 282-286.

[9] Matharasi, A., Vinisha, V., Hannah Priya, G., Alinda Shaly, A., Arul Martin Mani, J., & Mary Linet, J. (2024). Physicochemical, optical and magnetic properties of ZrO_2/Fe_2O_3 nanocomposite and its application in photocatalysis and antibacterial treatment. *Surfaces and Interfaces*, 55, 105278.

[10] Matharasi, A., Surya Prabha, A., Vinisha, V., Hannah Priya, G., Alinda Shaly, A., Arul Martin Mani, J., & Mary Linet, J. (2025). Controlled synthesis of $BiFeO_3$, $Bi_2Fe_4O_9$ and $BiFeO_3/Bi_2Fe_4O_9$ nanostructures with enhanced photocatalytic activity on degradation of Eosin Yellow under visible light. *Environmental Technology*, 46(24), 5027-5040.

[11] Priya, G. H., Shaly, A. A., Matharasi, A., Prabha, A. S., Ragu, R., Mary, T. A., & Linet, J. M. (2023). Physico-Chemical Attributes and Photodegradation Assessment of Crystal Violet Dye by Utilizing TiO_2/Sn_2S_3 (Sn= 0.25, 0.50, 0.75 M) Nanocomposite Prepared Via Hydrothermal Strategy. *Journal of Cluster Science*, 34(6), 3013-3029.

[12] Priya, G. H., Shaly, A. A., Ragu, R., Evangelin, G., Mani, J., Martin, A., & Linet, J. M. (2024). ZnO nanoparticles with altered structural and optical traits by Cu and Li doping for elevated photocatalytic activity toward organic pollutants. *Journal of Dispersion Science and Technology*, 46(1), 21-28.

[13] Matharasi, A., Vinisha, V., Jobisha, J., Hannah Priya, G., Alinda Shaly, A., Arul Martin Mani, J., & Mary Linet, J. (2026). Synthesis and characterization of $BaTiO_3/BiFeO_3$ nanocomposite and its application in piezo-photocatalysis. *Surfaces and Interfaces*, 108958.

Paper Presentations

2022 "Photocatalytic degradation tetracycline" – ICAM
2020 "Mechanical Attributes of MgO/HA nanocomposite" – ICMEE
2020 "Mechanical Attributes of hydroxyapatite nanoparticles" – ICPAMM

Workshop / FDP: Attended

Year	Title / Organizer
2026	"Inculcating Universal Human Values in Technical Education" – AICTE
2023	"Linear Vector Spaces" – Loyola College
2023	"Frontiers in Physics Research" – Easwari Engineering College

MOOCs Course Details

- NPTEL – "Physics for Renewable Energy Systems" (Elite+Silver)
- SWAYAM – "Fundamentals of Engineering Physics"

Any Other Details

- All India Catholic University Federation (AICUF) Unit Advisor of LICET