

COLLEGE WEBSITE- FACULTY PERSONAL PAGE

DATASHEET

PERSONAL details

Name	Linju Ann Jacob
Department	Physics
Date of commencement of permanent service	07-01-2002
Years of teaching experience as on 1 st June of the year	18 Years
Address	Chakalayil Near ESI Dispensary, Erayilkadavu, Kottayam
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ACADEMIC QUALIFICATIONS

Degree	Institute	University	Grade/ Rank etc.
UG	Assumption College, changanacherry	M G University	First class with distinction
PG	Department of Physics, Cochin University of Science and Technology	Cochin University of Science and Technology	First class
Ph D	School of Pure and Applied Physics, M G University	M G University	
Additional	UGC – NET qualified	UGC	

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College-level Duties and in-charge (Mention major charges)

Duty	Position	Duration
MGOCSM	Vice president	2019-2020
Open course	Coordinator	2013-2016

PUBLICATIONS AND PRESENTATIONS

International Publication

1. **Linju Ann Jacob**, S. Sisira, Kukku Thomas, Dinu Alexander, P.R. Biju, N.V. Unnikrishnan, Cyriac Joseph, A reddish-orange emitting samarium doped α - $\text{Na}_3\text{Y}(\text{VO}_4)_2$ nanocrystal for single phased UV excitable white light applications, *Journal of Solid State Chemistry* 280 (2019) 120998.
2. **Linju Ann Jacob**, S. Sisira, Kamal P Mani Kukku Thomas, Dinu Alexander, P.R. Biju, N.V. Unnikrishnan, Cyriac Joseph, High purity blue photoluminescence in thulium activated α - $\text{Na}_3\text{Y}(\text{VO}_4)_2$ nanocrystals via host sensitization, *Journal of Luminescence* 223 (2020) 117169 1-9.
3. **Linju Ann Jacob**, S. Sisira, Kamal P Mani, Kukku Thomas, Dinu Alexander, P.R. Biju, N.V. Unnikrishnan, Cyriac Joseph, A new potential green emitting erbium activated α - $\text{Na}_3\text{Y}(\text{VO}_4)_2$ nanocrystals for UV excitable single phase pc-WLED applications, *SN Applied Sciences* 2 (2020) 1076.
4. **Linju Ann Jacob**, S. Sisira, Kukku Thomas, Dinu Alexander, P.R. Biju, N.V. Unnikrishnan, Cyriac Joseph, Synthesis, structural and luminescence characterization of single phased $\text{Tm}^{3+}/\text{Dy}^{3+}$ co-doped $\text{Na}_3\text{Y}(\text{VO}_4)_2$ nanocrystals, *Journal of Crystal Growth* 555 (2021) 125957.
5. Sisira S, **Linju Ann Jacob**, Kamal P Mani, Biju P R, N V Unnikrishnan, Cyriac Joseph, Single phased white light emitting $\text{Dy}^{3+}/\text{Sm}^{3+}$ co-doped CePO_4 nanocrystals for white light applications, ***Journal of Materials Science: Materials in Electronics*, 30(12)(2019) 11354–11367.**
6. Sisira S, **Linju Ann Jacob**, Kukku Thomas Dinu Alexander, Biju P.R., N.V. Unnikrishnan, Cyriac Joseph, Effect of doping concentration and annealing temperature on the luminescence of novel orange red emitting $\text{CePO}_4:\text{Sm}^{3+}$ nanocrystals, ***Journal of Luminescence*, 209 (2019) 197-207.**
7. Sisira S, **Linju Ann Jacob**, Kamal P Mani, Biju P R, N V Unnikrishnan, Cyriac Joseph, High color rendering index single phase white light emitting phosphor based on

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Tb³⁺/Sm³⁺ co-doped CePO₄ nanocrystals: The role of Tb³⁺ as a bridge between Ce³⁺ and Sm³⁺, **New Journal of Chemistry**, **43** (2019), **17367-17382**.

8. Dinu Alexander, Kukku Thomas, S. Sisira, **Linju Ann Jacob**, Ajeeshkumar S, P.R. Biju, N.V. Unnikrishnan, M.A. Ittyachen, Cyriac Joseph, Eu³⁺ activated terbium oxalate nanocrystals: A novel luminescent material with delayed concentration quenching and tunable multicolour emission, **Optical Materials** **86** (2018) **366–375**.
9. Kukku Thomas, Dinu Alexander, S. Sisira, **Linju Ann Jacob**, P. R. Biju, N. V. Unnikrishnan, M. A. Ittyachen, Cyriac Joseph, Sm³⁺ doped tetragonal lanthanum molybdate: A novel host sensitized reddish orange emitting nanophosphor, **Journal of Luminescence**, **211** (2019) **284-291**.
10. Kukku Thomas, Dinu Alexander, **Linju Ann Jacob**, P.R. Biju, N.V. Unnikrishnan, Cyriac Joseph, Novel blue emitting Tm³⁺ activated lanthanum molybdate : Investigations on luminescence behaviour and Judd-Ofelt theoretical analysis, **Optical Materials**, **100** (2020) **109623 1-7**.

Paper Presentation

1. Host sensitized Sm³⁺ doped sodium yttrium vanadate red emitting phosphor for solid state lighting application, **Linju Ann Jacob**, Cyriac Joseph, National Photonics Symposium(NPS 2019), International School of Photonics, Cochin University of Science and Technology, 27-28 February 2019 .
2. Novel UV excitable Dy³⁺ doped sodium yttrium vanadate nanophosphors for solid state lighting applications, **Linju Ann Jacob**, Cyriac Joseph, International Conference on Advanced Functional Materials (ICAFM 2018) St. Berchmanns College, Kottayam, Kerala, 9-10 October 2018.
3. Synthesis and photoluminescence studies of host-sensitized Dy³⁺doped Na₃Y(VO₄)₂ nanocrystals, **Linju Ann Jacob**, Cyriac Joseph, International Conference on Science, Technology and Applications of Rare Earths (ICSTAR 2018) S.V. University, Tirupathy, Andra Pradesh,23-25 September 2018.

Signature of the teachers with date