

# COLLEGE WEBSITE- FACULTY PERSONAL PAGE

## DATASHEET

### PERSONAL DETAILS

Name	<b>Dr. Anju Linda Varghese</b>
Department	<b>Chemistry</b>
Date of commencement of permanent service	<b>➤ 3<sup>rd</sup> September 2012 at Catholicate College, Pathanamthitta</b> <b>➤ Transferred to Baselius College on 6<sup>th</sup> June 2019</b>
Years of teaching experience as on 1 <sup>st</sup> June of the year	<b>12 Years</b>
Address	<b>Chirakkunnel House</b> <b>Amalagiri P. O., Ammancherry</b> <b>Kottayam</b> <b>PIN: 686561</b>
Phone (Mob :)	<b>9846600644</b>
Email	<b>anjulindavarghese@baselius.ac.in</b>
Email 2	<b>lindaanju@gmail.com</b>

### ACADEMIC QUALIFICATIONS

Degree	Institute	University	Grade/ Rank etc.
UG	St. Joseph's College, Devagiri, Calicut	University of Calicut	95.5 %
PG	Department of Chemistry, University of Calicut	University of Calicut	CGPA: 8.02, A+ II <sup>nd</sup> Rank
Ph D	Sacred Heart College (Autonomous), Thevara	M.G. University	

### College-level Duties and in-charge (Mention Major Charges)

Duty	Position	Duration
Institution's Innovation Council	Convener	2021 to till date
IPR Cell	Convener	2025-26
LuminAura – Baselius Carnival	Convener , Programme Committee	2025-26
Patron Saint's Day	Member, Award Committee	2025-26

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Baselius Trophy	Member, Programme Committee	2025-26
LuminAura – Baselius Carnival	General Convener	2024-25
Faculty Advisor	Faculty Advisor	2024 to till date
UG Admission Committee (Dept. Level)	Member	2023 to till date
Chemistry Association	Teacher in Charge	2023-24
Shreshta	Coordinator	2023-24
Arts Festival	House Master	2023-24
Patron Saint's Day	Convener, Publicity Committee	2022-23
Staff Club	Secretary	2020-21
Class Teachership		2019-22

### University Level Duties

Duty	Position	Duration
Expert committee for PG	Member	2024 to till date
PG Board of Studies	Member	2021 to 2024

### Minor Research Projects

MRP-1872/14-15/ KLMG016/ UGC-SWRO, [12<sup>th</sup> Plan] entitled 'Theoretical Investigation of Non Linear Optical Properties of Molecules Containing Naphthalene Linked to Nitrophenyl Group',  
Rs - 5 lakhs

## PUBLICATIONS AND PRESENTATIONS

### Research Papers Published/Presented

#### International

1. Sustainable carbon dots from expired ciprofloxacin: Dual-mode sensing, molecular logic gates, and biocompatible applications. *Diamond and Related Materials* (2025): 112728.
2. Molecular Docking Studies of Inhibitory Activity of Flavonoids and C Glycosylated Flavonoids Present in *Passiflora incarnata* on Lanosterol Synthase: An *insilico* Approach for Anti Hypercholesterol Therapeutic Strategies. *NeuroQuantology*, 22 (2), 256-269(2024). ISSN 1303-5150.
3. Exploring the Third-Order Non-linear Optical Responses and Optical Limiting Properties of p-Nitroaniline Picrate: A Theoretical and Experimental Study. *Asian Journal of Chemistry*, 36(9), 2013-2018. (2024). ISSN 0970-7077.

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4. Third-Order Optical Nonlinearities and Optical Limiting in 1-Naphthol Picrate: A Z-Scan Approach. *Indian Journal of Natural Sciences*. 15(86), 79961-79967. ISSN: 0976 – 0997
5. DFT Studies on Nonlinear Optical Properties of N-[(Naphthalen-5-yl)methyl]-4-Nitrobenzamine. *Materials Today: Proceedings*, 9, 92-96. (2019). ISSN 2214-7853
6. Structural Dependence of Non-Linear Optical Properties of Molecules Containing Naphthalene Linked to Nitrophenyl Group–A DFT Study. *Asian Journal of Chemistry*,31(3),505-509. (2019). ISSN 0970-7077
7. Theoretical Estimation of Nonlinear Optical Properties of Organic Framework Containing *p*-Nitroaniline Linked to Naphthalene/azanaphthalene Through Saturated Carbon Chain. *Chemical Science Transactions*,7(4),667-675. (2018). ISSN:2278-3458
8. Theoretical and Experimental Study on Third Order Nonlinearities and Optical Limiting Properties of Anthracene Picrate. *Teresian International Journal of Chemical Sciences*, 3(4), 81-87(2022). ISSN:2583-2565

### National

1. ‘Food Habit’s in Today’s Changing World and its Health Impacts’, Catholicate Journal of Studies and Research, Vol 3.No 1&2, Dec 2014, Pg No:81-85, ISSN:2249-149x’
2. ‘Theoretical Estimations of Nonlinear Optical Properties of Donor-Acceptor Derivatives of Naphthalene’, Discourse-Xaverian Research Journal, Vol 5.No 2, Sep 2017, Pg No: 09-17, ISSN 2321-0214’
3. ‘Biomedical Applications of Noble Metal Nanocluster’, Chapters on NanoScience, Published by UGC-HRDC Kerala University, ISBN 978-81-908006-2-4, Pg No:275-283
4. ‘Theoretical and Experimental Study on Third Order Nonlinear Optical Properties of N-(2, 4-dinitrophenyl) naphthalen-1-amine’, *BASELIUS RESEARCHER*, XX (2), (2019) 90-103, ISSN No: 0975-8658

### Paper Presentations in International Seminars

1. Delivered an invited lecture at International Conference on Advanced Nanomaterials for Sustainability (ICANS 2024), on 19 October 2024 at Amal Jyothi College of Engineering, Kerala, India.

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2. Presented paper in *International* seminar on ‘Advances in Photoresponsive Materials’ (APRM-2017) conducted by Maharaja’s College,Ernakulam on ‘DFT Studies on Nonlinear Optical Properties of N-[(Naphthalen-5-yl)methyl]-4-Nitrobenzamine’
3. Presented poster in *International* Symposium on New Trends in Applied *Chemistry* (NTAC-2019) conducted by Sacred Heart College, Thevara on ‘Synthesis, Characterization, Nonlinear optical responses and optical limiting properties of aromatic derivatives of 2,4-Dinitroaniline’.
4. Presented paper in International Conference on Advanced Nanoscience and Nanotechnology,( ICAN-2024) conducted by M.A. College, Kothamangalam on Fe-Doped TiO<sub>2</sub> Nanoparticles: Investigation of Photoelectrochemical Behavior and Photocatalytic Efficiency

### Paper Presentations in National Seminars

1. Presented paper in Indian Analytical Science Congress 2018 conducted by Indian Society of Analytical Scientists& School of Chemical Sciences,Mahatma Gandhi University, Kottayam on ‘Structural Dependence of NLO properties of molecules containing naphthalene linked to nitrophenyl group-A DFT Study’.
2. Presented paper in ‘Interdisciplinary Approaches in Materials and Biological Research’ 2018 conducted by Mahatma Gandhi College, Thiruvananthapuram on Synthesis, Characterization and Nonlinear Optical Properties of N-(2,4-Dinitrophenyl) Naphthalen-1-Amine.
3. Presented paper in ‘Emerging Trends in Nanomaterials Science and Technology’2017 at Sree Neelakanta Govt.Sanskrit College, Pattambi, on ‘Synthesis, Characterisation and Nonlinear Optical Properties of *p*-nitroaniline picrate’
4. Presented paper in ‘Trends in Green Chemistry 2017’ at St.Thomas College,Ranni on ‘Synthesis, Characterisation and Nonlinear Optical Properties of Picrates of Anthracene’
5. Presented paper in national seminar on ‘New Frontiers in Theoretical Chemistry (NFTC 2018), on January 19-20, 2018 at Catholocate College, Pathanamthitta on Non-Linear Optical Properties of N-[3-(Naphthalene-1-yloxy)butyl]-2,4-dinitroaniline and its Azanaphthalene Derivatives- A DFT Study
6. Anti-Snake Venom Activity Of Various Flavonoids On Phospholipase A2: *In Silico* Evaluation, , Proceedings of Two Day National Seminar on Exploring Frontiers in Chemical Innovation (EFCI-2023) at Baselius College, Kottayam sponsored by KSCSTE, ISBN: 9-789360-132828

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7. Presented a paper in ‘ Two Day National Conference on Energy Materials and Environment’(2024) on ‘W-Doped TiO<sub>2</sub> Nanoparticles: Exploring Its Photoelectrochemical Behavior and Photocatalytic Efficiency for Environmental Pollution Control’ at Catholicate College, Pathanamthitta sponsored by KSCSTE

### MEMBERSHIPS IN FORUMS, COMMITTEES, SOCIETIES OUTSIDE COLLEGE

Organization	Title	Since (Year)
Indian Society of Analytical Scientists	Life Time Member	2016