

Faculty Profile

1. Name: Dr. Janapati Yellaiah
2. Designation: Assistant Professor Stage - I
3. Email(s): janapati.yellaiah@visva-bharati.ac.in
4. Date of Birth: 16.05.1990
5. Contact numbers: +91 9885116027
6. Address: Department of Physics, Visva-Bharati University, Santiniketan, PIN 731235, West Bengal, India.
7. Research ID (Google Scholar, ORCID ID, Scopus ID, WOS ID, Vidyan ID, Research Gate):
 ORCID ID: <https://orcid.org/0000-0001-6778-9315> ,
 Scopus ID: 57215870869
 Google Scholar: <https://scholar.google.com/citations?user=Z5ia6EAAAAAJ&hl=en>
 Research Gate: https://www.researchgate.net/profile/J-Yellaiah?ev=hdr_xprf
8. Membership of Learned Societies: Optical Society of America.
9. Publication Summary:
 - (a) No. of Research papers - 4
 - (b) No. of Book Chapters - 1
 - (c) No. of Conference papers - 12
 - (d) h-index - 6
 - (e) i-10 index – 2
 - (f) Citations - 89
10. Date of Joining Visva-Bharati Service: 22nd December 2025.
11. Education:

Degree	Year	University/Institution
Ph. D.	2022	University of Hyderabad
M. Sc. (Physics)	2012	Yogi Vemana University
B. Sc.	2010	Acharya Nagarjuna University

12. Academic Positions held (in reverse chronological order)

Sl. No.	Positions held	Institution	Period
1.	Assistant Professor Stage – I	Visva-Bharati	22.12.2025 - Present
2.	Part-Time Faculty	National Institute of Technology (NIT) Raipur	20.08.2024 – 18.12.2025
3.	Project Scientist-I	University of Hyderabad	29.06.2022 – 28.02.2023

13. Areas of Research: Laser-Matter Interaction: Optical and Acoustic sensing, Nonlinear Optics.
14. Subject Specialization: Laser Physics
15. Research Collaboration (National / International): Prof. Anil Kumar Chaudhary, University of Hyderabad.
16. Talks Delivered at International / National Conferences/Seminars/Symposium: 5

17. Awards/Fellowships

(a) GATE-2014 in Physical Sciences

(b) DRDO JRF/SRF (5 years)

(c) SPIE Student paper award

18. List of Scientific Publications:

Sl. No.	Author(s)	Title	Name of Journal	Vol.	Page	Year
1.	J. Yellaiah	Characteristics of nanosecond laser-induced underwater acoustic signals across the water–air interface	Acoustical Physics	69	7–19	2023
2.	J. Yellaiah	Characterization of nanosecond laser-induced underwater filamentation using acoustic measurements	Applied Optics	61	9685–9692	2022
3.	J. Yellaiah and P. Prem Kiran	Input pulse duration effect on laser-induced underwater acoustic signals	Applied Optics	60	4582–4590	2021
4.	J. Yellaiah and P. Prem Kiran	Feasibility of classification of the materials through Laser-Induced Underwater Acoustic Signatures	Proceedings of Meetings on Acoustics (POMA) Journal	44	070003	2021

List of Conference Proceedings:

Sl.No	Author(s)	Title	Name of Conference	Year
1.	J. Yellaiah	Spectral Analysis of Optical and Acoustical Emissions from Nanosecond Laser-Induced Underwater Filamentation	Optica Sensing	2025
2.	J. Yellaiah	Laser-induced sonar: A promising approach for improved underwater acoustic sensing	Acoustics 23 Sydney	2023
3.	J. Yellaiah	Robustness of laser-induced underwater acoustic source localization using multiple hydrophones	Laser Science	2023
4.	J. Yellaiah , K.V. Arjun, and A.K. Chaudhary	Role of PEDOT:PSS on Laser-Induced Fluorescence Enhancement for Detection and Classification of Explosives in Water Medium	Laser Applications Conference	2023
5.	J. Yellaiah	Time-Frequency analysis of laser-produced underwater acoustic signals interaction across the water-air interface	Advanced Solid-State Lasers	2022
6.	J. Yellaiah	Comparison of focal geometry, lens tilt, and angle-resolved studies of laser-	Advanced Solid-State Lasers	2022

		induced underwater acoustic signals		
7.	J. Yellaiah	Visualization of Underwater Acoustic Impulse Propagation and Interaction Across the Water-Rigid Boundary Using Finite Element Analysis	Frontiers in Optics	2022
8.	J. Yellaiah	Feasibility Study of Laser-Induced Sonar	Frontiers in Optics	2022
9.	J. Yellaiah and P. Prem Kiran	Characteristics of transient underwater acoustic signal from laser-induced plasma formation	Workshop on Recent Advances in Photonics (WRAP)	2020
10.	J. Yellaiah and P. Prem Kiran	Acoustic measurements of nanosecond laser-induced underwater filament	Laser Applications Conference	2020
11.	J. Yellaiah and P. Prem Kiran	Acoustic characteristics of laser-induced underwater shock waves across the water-air interface	Frontiers in Optics	2020
12.	J. Yellaiah and P. Prem Kiran	Non-contact detection of underwater objects through the laser-induced acoustic source	Frontiers in Optics	2020

Book chapter(s):

1.	Yellaiah Janapati, Manikanta Elle, Nagaraju Guthikonda & Prem Kiran Paturi	Effect of Laser Energy on Underwater Acoustic Shockwave Emissions from Optical Breakdown	ICOL-2019	2021
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Last updated on (31 / 12/ 2025)