

Name : Dr. N. Bhuvaneswari

Staff ID : RCAS02624

Designation : Assistant Professor

Department : Physics

Experience : 13.5 years

Qualification : Ph.D

Specialization : Crystal growth in Metal Organic crystal

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ACADEMICS

Degree	Branch	Institution / University	Year of Completion
B.Sc	Physics	Govt Arts College -- Coimbatore	April 2009
M.Sc	Physics	Govt Arts College- Coimbatore	April 2011
Ph.D	Crystal Growth	Bharathiar University- Coimbatore	July 2019

Diploma / Certification	Specialization	Institution / University / Agency Name	Year of Completion
HDCA	Honours Diploma in Computer Applications	Indian Computer Center, Kinathukadavu	2007

RESEARCH AND PUBLICATIONS

SEED MONEY

Title	Institution	Amount	Year	Status
Design and synthesis of hybrid Organo-Metallic materials for Optical limiting applications.	Rathinam College of Arts and Science	1,33,000	15-11-2021 to 15-11-2022	Completed

Journal Publications

N. Bhuvaneswari , T. Naveen, K. Riswanth, Structural Analysis of tetramethyl ammonium chloride and Cadmium Nitrate. **Journal of Scientific Research. Journal of Scientific Research**,16 (2), 114-119 (2024).

N. Bhuvaneswari , Muthusamy, Ravikiran Kamath Billady, S. Balakrishnan, B. Marxism Rahula Bharathi & L. Vadivukarasi Hardness and Compressive Properties on Metal Matrix Composites with In uence of Nano Ceramic Particles Through Powder Metallurgy Process”, **Recent Advances in Mechanical Engineering, Volume 2 (SPRINGER), (2023) 207-220.**

N.Bhuvaneswari, S.Sivakumar, K.Venkatachalam, Dr.V.Siva, Growth and characterization on organo metallic crystal of tetramethyl ammonium cadmium nitrate”, Journal of Material Science: Mater Electron (**SPRINGER**), **33** (2022) **9049–9055** .

N.Priyadharsini, **N.Bhuvaneswari** , Jomin Joshy, “ Plant Mediated Synthesis of ZnO and Mn Doped ZnO Nano Particles using Carica Papaya Leaf Extract for Antibacterial Applications” **Asian Journal of Applied Science and Technology**, **5** (2021) **69-81**.

N.Bhuvaneswari, N.Priyadharsini, S.Sivakumar, K.Venkatachalam, “Growth, vibrational, optical, thermal, magnetic and dielectric behavior of organo-metallic tetramethylammonium cadmium chloride crystal”, **Journal of Thermal Analysis and Calorimetry. (SPRINGER)**, **113** (2018) .

N.Bhuvaneswari, K.Venkatachalam, “Growth and characterization –organic metal crystal of tetramethyl ammonium cadmium iodide”, **Asian journal of science and technology**, **9** (2018) **7347-7351**.

N.Bhuvaneswari, K.Venkatachalam, “Structural, vibrational and physical properties on Tetramethylammonium cadmium bromide ferroelectric single crystal”, **Asian journal of chemistry**, **30** (2017) **386-390**.

N.Bhuvaneswari, K.Venkatachalam, “Investigation on the solubility of Nonlinear Optical Material (NLO) of TMACC Single crystal”, **International Journal of Engineering Science and Innovative Technology (IJESIT)**, **5** (2016) **34-38**.

Book Chapters

N. Bhuvaneswari , Muthusamy, Ravikiran Kamath Billady, S. Balakrishnan, B. Marxiem Rahula Bharathi & L. Vadivukarasi Hardness and Compressive Properties on Metal Matrix Composites with Influence of Nano Ceramic Particles Through Powder Metallurgy Process”, **Recent Advances in Mechanical Engineering, Volume 2 (SPRINGER)**, (2023) **207-220**.

N. Bhuvaneswari, K. Kousalya & C. Dhanush, Nanocrystals: synthesis and properties of metallic glass (ETMR-2023)

C. Dhanush, N. Bhuvaneswari & K. Kousalya, Carbon dots nanomaterial and their multimodal applications, Recent Trends in Multidisciplinary Research (ETMR-2023).

K. Kousalya, **N. Bhuvaneswari**, W⁺ ion irradiation on BaSnO₃ ceramics, Recent Developments in Basic and Applied Sciences (ETMR-2023).

K. Kousalya, C. Dhanush & **N. Bhuvaneswari**, Properties and Applications of Ceramics, Emerging Trends in Multidisciplinary Research (ETMR-2023).

Books

K P V Sabareesh, D Umamaheswari, C Dhanush, **N Bhuvaneswari**. "[*Essential technique unveiled: A novice researcher's guide to fundamental characterisation*](#)". CIIT Publishers, ISBN: 9788196694814 (2023).

Proceedings

Presented paper in Indo Singapore International Conference on "Science, Agriculture, Engineering and Management in Rathinam College of Arts and Science on 13 & 14 August 2022.

Presented paper in 2nd International Symposium On "Modeling of Crystal Growth Processes And Devices in SSN Research Center, SSN Institution on 05 to 08 July.

Presented paper in a two days International Virtual Conference on Advanced Materials for Emerging Technologies (ICAMET-21) in Sri Ramakrishna Mission Vidyalaya college of arts and science, Coimbatore on 26 & 27 April 2021.

Presented paper in the International Conference on Recent Developments in Bioscience (ICRDBS-2021) in Rathinam college of arts and science on 23 Feb 2021.

Presented paper in **National Conference** on Advanced materials science in Coimbatore Institute of Technology, on 30th and 31st Jan 2014.

Participated in **National Conference** on "Multifunctional Nano Materials and Nano Composites" (NCMNN) in Bharathiar University on 4th and 5th 2010.

PRESENTATIONS

	State Level	National	International
Conference	-	2	7

PARTICIPATION

	State Level	National	International
Conference	4	9	8
Seminar	2	2	1
Workshop	2	4	3
Orientation	-	2	-
FDP/PDP	3	3	2

CONSULTANCY

Nature of Consultancy	Client	Amount	Status
SLAS 2025 - Field Investigators Training	UG students	90000	Received

Events Organized (Seminar/Conference/Workshop)

- Organized the Seminar on “Awareness Program on National Consumer Day” 24th Dec 2024.
- Organized the workshop on “Youth to Youth Campaign” was jointly organized by BIS Club & Department of Physics, Rathinam College of Arts and Science, on 15th to 18th December 2023.
- Organized the workshop on “Door to Door Campaign” was jointly organized by BIS Club & Department of Physics, Rathinam College of Arts and Science, on 6th to 16th January 2023.
- Organized State Level Inter- Collegiate Technical Symposium on commemorating International Astronomy Day, “Vaani oru Varnajalam VoV 2k22” was organized by Department of Physics Rathinam College of Arts and Science, on 11th October 2022
- Organized International Conference on Theoretical and Experimental Sciences in Rathinam College of Arts and Science, Coimbatore on 08th Jan 2022.
- Organized National level Science EXPO-2021 in Rathinam College of Arts and Science, Coimbatore on 06th October 2021.
- Organized Five days virtual Faculty development Programme (**FDP**) in Rathinam College of Arts and Science, Coimbatore on 06 to 10 September 2021.
- Organized Five days International Virtual Workshop in Rathinam College of Arts and Science, Coimbatore on 23rd to 27th August 2021.
- Organized International Conference on Novel Nanomaterials for Innovative research in in Rathinam College of Arts and Science, Coimbatore 29th to 30th April 2021.
- Organized “Online Student Development Program on Characterization Techniques for Experimental Research” in Rathinam College of Arts and Science, Coimbatore on 18 Feb 2021.

Invited Speaker / Session Chair- Conference / Seminar / Workshop

- Resource Person at Government Higher Secondary School, Othakalmandapam, Coimbatore on 08 Jan 2025.
- Chief guest at Science Regional Center, Coimbatore on 07 Nov 2024.
- Resource Person at Rathinam Public School, Coimbatore on 24 Nov 2024.
- Chief guest at John’s Institute of technology, Coimbatore on 24 May 2024.
- Resource Person at KPM School, Coimbatore on 05 Dec 2023.

- Chief guest at JCT Engineering College, Coimbatore on 23 Sep 2023.
- Chief guest at P. A. Polytechnic College, Pollachi 11 Nov 2023.

Members in BoS/ Editorials/ Professional Bodies

- Reviewer in Journal of Mines, Metals and Fuels
- Reviewer in International Journal of Engineering Research in Africa(JERA)
- Reviewer in Advanced Materials Research (AMR)
- Reviewer in Journal of Metastable and Nanocrystalline Materials (JNMN)
- Reviewer in Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
- BIS (Bureau of Indian Standards) club Mentor and Resource Person.

AWARDS, HONORS AND RECOGNITION

Awards / Honors /Recognition	Agency / Institution	Year of Award
Best Coordinator Award	Shyam's art & craft academy	2024
Best Faculty Award	Readers India Tamil and Rathinam College of Arts and Science.	2024
BEST RESOURCE PERSON AWARD	Bureau and Indian Standards	2024
BEST MENTOR AWARD	Bureau and Indian Standards	2023
BEST EXTERNAL COORDINATOR AWARD	Rotary Club Coimbatore	2023