

CV

J. Dhanalakshmi

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Objectives

To execute my expertise in a challenging environment for the development of science as well as find new innovations in research through my hard work and dedication.

Personal

Date of Birth : June 06, 1989
Gender : Female
Marital Status : Single
Nationality : Indian

Educational Details

PhD	Department of Physics, Manonmaniam Sundaranar University, Tirunelveli, 2014-17 (Thesis Submitted)
Thesis title	Synthesis, characterization and photocatalytic properties of lanthanides included TiO ₂ nanoparticles
M.Phil	Department of Physics (68%), Lady Doak College, Madurai, 2012
M.Sc	Department of Physics (73%), Pope's College, Tuticorin, 2011
B.Sc	Department of Physics (74%), Pope's College, Tuticorin, 2009
HSC	St. Mary's Girls Higher Secondary School, Sawyerpuram, Tuticorin, 2006, (77%)
SSLC	St. Mary's Girls Higher Secondary School, Sawyerpuram, Tuticorin, 2004, (84.4%)

Fields of Research Interest

- Materials Science
- Nanomaterials
- Photocatalysis

Professional Experience

- *Assistant Professor*, Department of Physics, Francis Xavier Engineering College, Tirunelveli, (February 2013 – December 2013).

Computer Knowledge

- Diploma in Office Automation (DOA).

Awards

- Awarded the UGC-BSR Fellowship (2014-2018) to carry out Ph.D at Manonmaniam Sundaranar University, Tirunelveli in the Department of Physics.

Extracurricular

- National Social Service
- Red Cross Society
- Volleyball

Volunteer Experience

- Participated in ten days N.S.S camp “**Prospering India and the Youth**” in Mullanvilai village conducted by Pope’s College, Sawyerpuram, Tamilnadu, India during 2 - 11th March 2007.
- Participated in the “**University Level One day Leadership Training Programme**” on 29th March 2008 organised by NSS cell, Manonmaniam Sundaranar University and Pope’s college, Sawyerpuram, Tamilnadu, India.
- Participated in various concurrent programmes under N.S.S during 2006 - 2008 in Pope’s College, Sawyerpuram, Tamilnadu, India.
- Participated in “**First Aid & Emergency Care (Basic Life Support)**” held on 29th February 2008 conducted by Indian Red Cross Society (IRCS) at Pope’s College, Sawyerpuram, Tamilnadu, India.

Sports Activities

- Represented the state of Tamilnadu in the **South Zone Senior National Volleyball Tournament** 2-6th May 2012 held at Madurai, Tamilnadu, India.
- Represented the Madurai Kamaraj University in the **Inter-University volleyball Tournament** in the year 2011-12 held at Mahatma Gandhi University, Kerala, India.
- Got Runner-up position in the **Women Inter-Collegiate Tournaments** 2011-12, Madurai Kamaraj University, Madurai.
- Represented the Manonmaniam Sundaranar University in the **Inter-University Tournament** in the year 2010-11 held at Lakshmibai National University of Physical Education, Gwalior, Madhya Pradesh, India.
- Secured winner position in **Inter- Collegiate Tournaments for Girls** in the year 2010-11, Madurai District Volleyball Association, Madurai.
- Participated and won in various Intramural, Inter-collegiate and state level volleyball tournaments.

List of Publications

Number of papers published in SCI journals : 8

(Cumulative Impact factor: 14.746)

Number of papers published in Edited volumes : 2

Number of papers presented in conferences : 8

Google scholar citation: https://scholar.google.co.in/citations?user=Vr6f_IcAAAAJ&hl

SCI journal Papers

1. "Electrochemical analysis of graphene/Mo₉Se₁₁ nanocomposites towards energy storage application", V. Balasubramanian, J. Celina Selvakumari, **J. Dhanalakshmi**, M. Ahila and D. Pathinettam Padiyan, Journal of Materials Science: Materials in Electronics, Accepted manuscript. Impact Factor: 2.019.
2. "Bio-active synthesis of tin oxide nanoparticles using eggshell membrane for energy storage application", J. Celina Selvakumari, S.T. Nishanthi, **J. Dhanalakshmi**, M. Ahila and D. Pathinettam Padiyan, Applied Surface Science, In Press, DOI: [10.1016/j.apsusc.2018.02.043](https://doi.org/10.1016/j.apsusc.2018.02.043). Impact Factor: 3.387.
3. "Photocatalytic degradation of methyl orange and bromophenol blue dyes in water using sol-gel synthesized TiO₂ nanoparticles", **J. Dhanalakshmi** and D. Pathinettam Padiyan, Material Research Express, 4(9) 2017, 095020. Impact Factor: 1.068.

4. "Improved photo-induced charge carriers separation through the addition of erbium on TiO_2 nanoparticles and its effect on photocatalytic degradation of rhodamine B", **J. Dhanalakshmi**, J. Celina Selvakumari and D. Pathinettam Padiyan *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 190 (2018) 524. Impact Factor: 2.536.
5. "Impact of structural, morphological and electrical properties of $\text{Gd}_x\text{Ti}_{1-x}\text{O}_2$ nanocomposites on the photocatalytic degradation of Rhodamine B dye", **J. Dhanalakshmi**, M. Ahila, J. Celina Selvakumari and D. Pathinettam Padiyan, *Journal of Materials Science: Materials in Electronics*, 28 (2017) 16384. Impact Factor: 2.019.
6. "Investigation of oxygen vacancies in Ce coupled TiO_2 nanocomposites by Raman and PL spectra", **J. Dhanalakshmi**, S. Iyyapushpam, S.T. Nishanthi, M. Malligavathy and D. Pathinettam Padiyan, *Advances in Natural Sciences: Nanoscience and Nanotechnology* 8 (2017) 015150. Impact Factor: 1.581.
7. "Heat treatment effect on crystal structure and design of highly sensitive room temperature CO_2 gas sensors using anodic Bi_2O_3 nanoporous formed in a citric acid electrolyte", M. Ahila, **J. Dhanalakshmi**, J. Celina Selvakumari and D. Pathinettam Padiyan, *Materials Research Express*, 3 (2016) 105025. Impact Factor: 1.068.
8. "Effect of hydrogen peroxide and camellia sinensis extract on reduction of oxygen level in graphene oxide", J. Celina Selvakumari, **J. Dhanalakshmi** and D. Pathinettam Padiyan, *Materials Research Express*, 3 (2016) 105011. Impact Factor: 1.068.

Papers in Edited Volumes

1. "Corroboration of structural properties of $\text{Dy}_2\text{O}_3\text{-TiO}_2$ nanocomposites through X-Ray diffraction and Raman spectroscopy", **J. Dhanalakshmi** and D. Pathinettam Padiyan, *Nano hybrids and composites*, 17 (2017)127.(ISBN-13:978-3-0357-1038-0)
2. "Effect of gadolinium inclusion on the raman spectra and photoluminescence of TiO_2 nanoparticles", **J. Dhanalakshmi** and D. Pathinettam Padiyan, *Advanced Materials Proceedings*, 1(2) (2016) 195 (ISBN- 2002-4428)

List of Conference Papers

1. "Optical properties of $\text{Dy}_x\text{Ti}_{1-x}\text{O}_2$ nanocomposites" National Symposium on Advances in Functional and Exotic Materials, MRSI Trichy chapter & Centre for High Pressure Research, Barathidasan University, Tiruchirappalli during 14th-16th, February 2018.

2. "Structural and optical properties of $\text{Dy}_2\text{O}_3\text{-TiO}_2$ nanocomposites" Fourth International Conference on Nanostructured Materials and Nanocomposites, Mahatma Gandhi University, Kottayam during 10 - 12 February 2017.
3. "Adsorption of congo red dye using Ce coupled TiO_2 nanocomposites" International Workshop on Advanced Functional Materials and Devices, Manonmaniam Sundaranar University, Tirunelveli during 8 - 12 January 2017.
4. "Synthesis of graphene tin oxalate nanoparticles and its characterization", 6th National Seminar on Advances in Materials Science, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu during 2nd & 3rd January 2017.
5. "Corroboration of structural properties of $\text{Dy}_2\text{O}_3\text{-TiO}_2$ nanocomposites through X-Ray Diffraction and Raman spectroscopy" International Conference on Nanoscience and Nanotechnology for Energy Applications (EAPP-2016) during 27 - 29th June, 2016, at Sathyabama University, Chennai, Tamil Nadu, India.
6. "Effect of gadolinium inclusion on the Raman spectra and photoluminescence of TiO_2 nanoparticles" International Conference on Materials Science & Technology during 01 - 04th March, 2016, at the Conference Centre, University of Delhi, Delhi, India.
7. "Photocatalytic degradation of RhB dye in water by visible light-irradiated TiO_2 nanoparticles" International Conference on Nanoscience, Nanotechnology & Advanced Materials at GITAM University, Visakhapatnam, Andhra Pradesh, India during 14-17th, December 2015.
8. "Preparation, characterization and Photocatalytic application of TiO_2 nanoparticles", National Seminar on Advances in Materials Science, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu during 29 - 30th September 2014.

Conference/ Seminar/ Workshop Attended

1. **International Seminar on Advanced Materials – INSAM 2018** on 27th February 2018, Department of Physics, Pope's College, Sawyerpuram, Tamilnadu, India.
2. **International Workshop on Improving Skills on Publishing in Reviewed and Indexed Journals (IWISPRIJ)**- during 28th March 2014, Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India.
3. **International Workshop on Advanced Materials (IWAM-2014)** during 20 & 21st March 2014, School of Physics, Alagappa University, Karaikudi, India.

4. Lecture workshop on “Applications of Nonlinearity in Physics” during 25 & 26th August 2011, Department of Physics, Fatima College, Madurai, Tamilnadu, India.
5. The Science Exhibition and Awareness workshop- during 26 - 28th February 2011, Equatorial Geophysical Research laboratory, Indian Institute of Geomagnetism, Krishnapuram, Tirunelveli, Tamilnadu, India.
6. One day state level seminar on Recent Trends in Advances in Physics on 7th October 2010, M.D.T Hindu College, Tirunelveli, Tamilnadu, India.

Station: Sawyerpuram

yours faithfully

Date : 21.03.2018



(J. Dhanalakshmi)

Reference

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