

Curriculum vitae

Dr. Anitha V S

Assistant professor, Department of Physics,

Christ Nagar College, Maranalloor, Thiruvananthapuram.

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Teaching Experience:

Assistant Professor – Christ Nagar College, Maranalloor, Thiruvananthapuram (October 2021 onwards).

Govt. Guest Lecturer – Mar Ivanios College, Nalanchira, Thiruvananthapuram (June 2017- January 2020).

Higher Secondary Teacher: Holy Angels' Convent HSS, Thiruvananthapuram (September 2016 – November 2016)

Govt. Guest Lecturer – VTM N.S.S. College, Dhanuvachapuram, Thiruvananthapuram (July 2009 – March 2011).

Higher Secondary Teacher: Evans Higher Secondary School, Parassala (September 2006 – March 2009)

Higher Secondary Teacher: Amrita Vidyalayam, Harippad (June 2004 – August 2006)

Educational Qualification:

• Ph. D in Physics –University of Kerala, Mar Ivanios College, Nalanchira, Thiruvananthapuram (May 2017).

Title : **Preparation of nanocomposite thin films materials by Sol-gel techniques and their characterization.**

• Bachelor of Education (Physical Science) – University of Kerala (2003 – 2004), Mount Tabore Training College, Pathanapuram

• Master of Science (Physics) – University of Kerala (2001-2003), MG College, Thiruvananthapuram

• Bachelor of Science (Physics) – University of Kerala (1998 – 2001), VTM N.S.S. College, Dhanuvachapuram, Thiruvananthapuram

• Pre- Degree - University of Kerala (1996 -1998), VTM N.S.S. College, Dhanuvachapuram, Thiruvananthapuram

• Secondary School Leaving Certificate — Kerala Board Public Examinations (1996), St. Theresas Convent GHS, Neyyattinkara.

Research Interest:

Thin Films, Nanocomposites, Nanomaterials, Magnetic materials.

Publications: International Journals:

• Effect of annealing temperature on optical and electrical properties of ZrO₂ - SnO₂ nanocomposite thin films

V. S Anitha, S Sujatha Lekshmy, K Joy

Journal of Materials Science: Materials in Electronics (2013) 24: 4340 - 4345

• Effect of Mn doping on the structural, magnetic, optical and electrical properties of ZrO₂ - SnO₂ thin films prepared by sol - gel method

V. S Anitha, S Sujatha Lekshmy, K Joy

Journal of Alloys and Compounds (2016) 675: 331 – 340

• Effect of annealing on the structural, optical, electrical and photocatalytic activity of ZrO₂ – TiO₂ nanocomposite thin films prepared by sol–gel dip coating technique

V. S. Anitha, S. Sujatha Lekshmy, K. Joy

Journal of Materials Science: Materials in Electronics

• Bandgap tuning of ZrO₂ - SnO₂ nanocomposite thin films by sol - gel dip coating technique

V. S Anitha, S Sujatha Lekshmy, K Joy

Materials Today: Proceedings (2015) 2: 1026 – 1030

• Effect of annealing temperature on optical and electrical properties of ZrO₂ - SnO₂ based nanocomposite thin films

V. S Anitha, S Sujatha Lekshmy, I John Berlin, K Joy

AIP Conference Proceedings (2014) 1576: 180 - 182

- Effect of Indium Doping on Electrical and Optical Properties of ZrO₂ - SnO₂ Nanocomposite Thin Films Prepared by Sol - Gel Technique

V. S Anitha, K Joy

International Journal of Engineering Research & Technology NSNMN-2015 Conference Proceedings (2015) 47 – 50

- Influence of annealing temperature and oxygen atmosphere on the optical and photoluminescence properties of BaTiO₃ amorphous thin films prepared by sol - gel method

L. V Maneeshya, V. S Anitha, S Sujatha Lekshmy, I John Berlin, Prabitha B. Nair, Georgi P. Daniel, P. V Thomas, K Joy

Journal of Material Science: Materials in Electronics (2013) 24: 848 – 854

- Influence of oxygen atmosphere on the photoluminescence properties of sol - gel derived ZrO₂ thin films

I John Berlin, V. S Anitha, P. V Thomas, K Joy

Journal of Sol-Gel Science and Technology (2012) 64: 289 – 296

- Magnetic Properties of Mn-doped SnO₂ Thin Films Prepared by the Sol – Gel Dip Coating Method for Dilute Magnetic Semiconductors

S Sujatha Lekshmy, V.S Anitha, P.V Thomas, K Joy

Journal of American Ceramic Society (2014) 97: 1 – 8

- Thickness dependence of structural, optical and luminescence properties of BaTiO₃ thin films prepared by RF magnetron sputtering

L. V Maneeshya, V. S Anitha, P. V Thomas, K Joy

Journal of Material Science: Material Electronics (2015) 26: 2947 – 2954

- Structural and optical characterization of tin dioxide thin films by sol - gel dip coating technique

S SujathaLekshmy, I John Berlin, L. V Maneeshya, V. S Anitha, K Joy

IOP Conference Series: Materials Science and Engineering (2015) 73: 1 - 4

- Magnetic and optical properties of Mn - doped SnO₂ films

S Sujatha Lekshmy, V.S Anitha, K Joy

Materials Research Society Proceedings (2014) 1675: 113 – 119

- Annealing effects on structural, electrical and optical properties of antimony - tin oxide thin films deposited by sol gel dip coating technique

S Sujatha Lekshmy, V. S Anitha, I John Berlin, K Joy

AIP Conference Proceedings (2014) 1576: 55 - 57

Papers Presented in Conference/Seminars

- Influence of annealing temperature on the photocatalytic activity of TiO₂ – SnO₂ nanocomposite thin films by sol - gel dip coating technique

V. S Anitha, K Joy

National seminar on Interdisciplinary Approaches in Materials and Biological Research (IAMBR-2018), Department of Physics, Mahatma Gandhi College, Trivandrum 16th and 17th February 2018

- Band gap tuning of ZrO₂ - SnO₂ nanocomposite thin films prepared by sol - gel dip coating technique

V. S Anitha, S Sujatha Lekshmy, K Joy

National Seminar On Advanced Materials Characterization Techniques (AMCT – 2015) University of Kerala, Thiruvananthapuram, 27 - 28 March 2015.

- Effect of Indium Doping on Electrical and Optical Properties of ZrO₂ - SnO₂ Nanocomposite Thin Films Prepared by Sol - Gel Technique

V. S Anitha, K Joy

National Seminar On New Materials and Nanotechnology (NSNMN – 2015) Heera College of Engineering & Technology, Thiruvananthapuram, 15 - 17 January 2015.

- Effect of sol concentration on electrical and optical properties of ZrO₂ - SnO₂ nanocomposite thin films prepared by sol - gel technique

V. S Anitha, S Sujatha Lekshmy, K Joy

2nd International Conference on Advanced Functional Materials (ICAFM - 2014), CSIR -

National Institute for Interdisciplinary Science & Technology, Thiruvananthapuram, 19 - 21

February 2014.

- Band gap tuning of ZrO₂ - SnO₂ nanocomposite thin films prepared by sol - gel dip coating Technique

V. S Anitha, S Sujatha Lekshmy, K Joy

5th International Conference on Perspectives in Vibrational Spectroscopy (ICOPVS – 2014), Department of Physics, Mar Ivanios

College & The Kerala State Higher Education Council, Thiruvananthapuram 08 - 12 July 2014.

- Effect of annealing temperature on optical and electrical properties of ZrO₂ - SnO₂ based nanocomposite thin films

V. S Anitha, S Sujatha Lekshmy, I John Berlin, K Joy

2nd International Conference on Optoelectronic Materials and Thin films for Advanced Technology (OMTAT – 2013),

Department of Physics, Cochin University of Science and Technology, Kochi 3 - 5 January 2013.

Orientation/Workshop/Symposium/Training Programmes attended

- Online Workshop and Panel Discussion on ‘Revised SSR Manual and Benchmarks for Affiliated Colleges, organised by IQAC, Mar Ivanios college (Autonomous), Thiruvananthapuram on 28th March 2023
- Five days National Level Webinar on Revised NAAC Criteria by St Teresa’s Degree College for Women, Bengaluru from 22/02/2023 to 28/02/2023
- Webinar on “What Next - Opportunities of Statisticians” organized by PG & Research Department of Statistics & Internal Quality Assurance Cell (IQAC) Thanthal Periyar Government Arts and Science college(Autonomous), Thiruchirappalli on 29th June 2022
- Seven Days Professional Development Programme on “Effective and Quality Research Writing - Phase III” organised by Department of Commerce, (Shift II), Patrician College of Arts and Science, Chennai from 13th - 19th June 2022.
- National One week Faculty Deelopment Programme on ICT tools for Effective Teaching and Learning from 23rd May 2022 to 28th May 2022, organized by Amar Sewa Mandal’s Kamala Nehru Mahavidyalaya, Nagpur
- Zest 2022 , a talk on ‘ AI for Good ’ organised by the Postgraduate Department of Computer Science and Applications and IQAC of Christ Nagar College in association with Computer Society of India as part of National Technology Day on 13 May 2022.
- IP Awareness/Training program under National Intellectual Property Awareness Mission on February 21,2022
- NAAC Sponsored National Online Workshop on Teaching, Learning & Research in the Perspective of NAAC RAF organised by Bishop Moore College Mavelikara during 14-15 February 2022.
- 12-day State Level Online Workshop on “*Introduction to Rresearch & Preparation of Dissertation*” conducted by Research and Development Cell, Providence Women’s College, Calicut from 07.02.2022 to 26.02.2022.
- Participated in the One day workshop on “Research Productivity Measures and Institutional Ranking” at Mar Ivanios College, Trivandrum on 22nd November - 2018.
- Participated in the one day national colloquium on the “Life and Contributions of ECG Sudarshan” organized by the department of Physics, Mar Ivanios College, Trivandrum on 28th September - 2018.
- Participated in the one day orientation seminar for faculty members on “Towards Sustaining Institutional Excellence” organized by the Internal Quality Assurance Cell, Mar Ivanios College, Trivandrum on 11th September - 2017.
- Participated in national level workshop on Characterization of Advanced Materials, organized by the PG and Research Department of Chemistry, Mar Ivanios College, Trivandrum from 6-8th November - 2013.
- Attended a “Training programme on human rights issues” organized by Department of Science and Humanities, Heera College of Engineering and Technology on 15th December 2012.

- Participated in the DAE –BRNS National Laser Symposium-2002 held at Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram from November 14 – 16, 2002.