


Arulmigu Palaniandavar Arts College For Women, Palani

PG Department of Chemistry

Name	Dr.S.USHARANI	
Designation	Assistant Professor	
Qualification	M.Sc.,Ph.D.,	
E.mail	sushamoorthy15@gmail.com	
Date of Joining	11.12.2019	
Teaching Experience (UG)	3 Years and 10 months	
Teaching Experience (PG)	1 Year and 6 months	
No.of Journal Publication	7	
No.of Conference Attended	18	
Reviewer of Journal	Applied Physics A	

EDUCATIONAL CHRONICLE

Degree	Name of the University	Name of the Institution	Month & Year of Passing
Ph.D (Nanocomposites)	University of Madras	Presidency College	Aug, 2019
M.Sc (Chemistry)	Madurai Kamaraj University	Arulmigu Palaniandavar College of Arts and Culture	November, 2010
B.Sc (Chemistry)	Madurai Kamaraj University	M.V.Muthiah Government Arts College for Women	April, 2008

Thesis: Structural, Morphological and Optical Studies and Photocatalytic activities of $\text{CeO}_2/\text{SnO}_2$, $\text{CeO}_2/\text{ZrO}_2$ and $\text{V}_2\text{O}_5/\text{Al}_2\text{O}_3$ Nanocomposites Synthesized by wet chemical method

List of Publications

1. S. Usharani, V. Rajendran, Optical, magnetic properties and visible light photocatalytic activity of CeO₂/SnO₂ nanocomposites, Eng. Sci. Technol., an Int. J. 19 (2016) 2088-2093.
2. S. Usharani, V. Rajendran, Morphologically controlled synthesis, structural and optical properties of CeO₂/SnO₂ nanocomposites, Journal of Science: Advanced Materials and Devices, 2 (2017) 333-339.
3. S. Usharani, V. Rajendran, Synthesis, structural, topographical, optical and luminescence of CeO₂/SnO₂ 2D hexagonal nanostructures, Journal of Crystal Growth, 575 (2021) 126356.
4. S. Usharani, V. Rajendran, RTFM, RTPL and photocatalytic activity of CeO₂/ZrO₂ nanocomposites, Chinese Journal of Physics, Vol. 55(6) (2017) 2588-2596.
5. S. Usharani, V. Rajendran, Synthesis and characterization of surfactant assisted CeO₂/ZrO₂ nanocomposite, International Journal of Pure and Applied Physics, Vol. 12, (2016) 53-60.
6. S. Usharani, V. Rajendran, Size Controlled Synthesis and characterization of V₂O₅/Al₂O₃ Nanocomposites, Colloid and Interface Science Communications, 24 (2018) 7-12.
7. S. Usharani, V. Rajendran, Synthesis of ZnO-CdO Spherical Nanocomposites Via Co-Precipitation Process, International Journal of Nano Science and Nanotechnology, Vol.5, (2014) 109-115.

Reviewer of Journal

Applied Physics A

List of Conferences, Seminars, Workshops etc. Attended/Presented Paper:

1. S. Usharani, V. Rajendran, Synthesis and optical properties of surfactant assisted Ceria/zirconia nanocomposite, National Seminar on Recent Advances in Nanoscience and Technology, Nanomeet 2016, Centre for Nanoscience and Technology, Anna University, Chennai, October 6-7, 2016.
2. S. Usharani, V. Rajendran, Size Controlled Synthesis of V₂O₅/Al₂O₃ Nanocomposite and its Morphological and Optical Properties, 4th International Conference on Nanoscience and Nanotechnology (ICONN 2017), SRM University, Kattankulathur, August 9-11, 2017.

3. S. Usharani, V. Rajendran, Synthesis of coupled metal oxide nanocomposite and its optical properties, New Materials&Drugs (NCNMD-2015) S.D.N.B. Vaishnav College for Women, Research Department of Physics, Chromepet, Chennai-44, February 24-25, 2015.
4. S. Usharani, V. Rajendran, An precipitation route to prepare spherical ZnO/CdO nanocomposites and study on their optical properties, UGC-SAP & DST Sponsored National Seminar on “Recent Advances on Luminescent Materials” (RALM-2015), Department of Chemistry, Annamalai University, Annamalainagar, 23-24, January 2015.
5. Photocatalytic activity of PEG-capped Lead oxide nanoparticles via facile hydrothermal process, V. Rajendran, S. Gnanam, K. Anandan, J. Gajendiran, D. Sridevi, R. Vijayalakshmi, J. Uma, V. Revathi, S. Usharani, ICRAM-2012, 20-22, February 2012.
6. Preparation of VTO nanoparticles via sol-gel process and application in photocatalysts, V. Rajendran, S. Gnanam, J. Gajendiran, K. Anandan, D. Sridevi, R. Vijayalakshmi, S.Usharani, DAE-BRNS 6th National Symposium, PLD-2011, November 9-11, 2011.
7. S. Usharani, V. Rajendran, DAE-BRNS National Laser Symposium (NLS-20), Crystal Growth Centre, Anna University, Chennai-25, Tamilnadu, India, January 9-12, 2012.
8. S. Usharani, V. Rajendran, INTERNATIONAL WORKSHOP on “Methodologies on writing Thesis, Proposals and Journals”, Sree Sastha Institute of Engineering and Technology, Chembarambakkam, Chennai, Tamilnadu, India, January 11, 2017.
9. Dr.S.Usharani, Synthesis of CeO₂/ZrO₂ nanocomposite and its optical properties, International Conference on Recent Innovations In Nanoscience and Technology (ICRINT-2020), Department Of Physics, Arulmigu Palaniandavar Arts College For Women, Palani, January 25, 2020.
10. Dr.S.Usharani, Synthesis of MMO Nanocomposite and its optical properties, INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS AND ITS APPLICATIONS (ICAMA-2022), PG Department Of Physics, SRINIVASAN COLLEGE OF ARTS AND SCIENCE, Perambalur-621212 from 23-25 March 2022.
11. Dr.S.Usharani, Workshop on “Virtual Physics Lab”, Department of Physics, Thiruthangal Nadar College, Chennai, 26th August 2021.
12. Dr.S.Usharani, Workshop on “Physics Of Materials and Nanotechnology” (IWPMN-2022), Department of Physics, Arulmigu Palaniandavar Arts College For Women, Palani, 02.08.2022.
13. Dr.S.Usharani, Conducted an “ONLINE POSTER PRESENTATION COMPETITION”, on “Anti-tobacco Day-2021” Arulmigu Palaniandavar Arts College For Women, Palani, Palani, 31.05.2021.

14. Dr.S.Usharani, Orientation and Retraining of Teachers, Arulmigu Palaniandavar Arts College For Women, Palani, March 09, 2020.
15. Dr.S.Usharani, Workshop on Capacity Building for Teachers, Arulmigu Palaniandavar Arts College For Women, Palani, 20.03. 2020.
16. Dr.S.Usharani, A Seven-Day National Level Online faculty Development Programme on 'ETHICAL STANDARDS IN A PROFESSIONAL CONTEXT', Arulmigu Palaniandavar Arts College For Women, Palani, 01.08.2020-07.08.2020.
17. Dr.S.Usharani, A Seven-Day National Level Online faculty Development Programme on 'COGNIZANCE AND FORMULATION OF CORE VALUES IN HIGHER EDUCATION', Arulmigu Palaniandavar Arts College For Women, Palani, 10.03.2021-16.03.2021.
18. Dr.S.Usharani, National Webinar on 'Publish and Progress', Auxilium College (Autonomous), Vellore, 26.08.2023.

Students Related Activities

1. Act as a Discipline Committee member.
2. Act as a Naan Muthalvan Staff Incharge.