

Curriculum vitae

Dr. S. Sasi Florence,
Assistant Professor in Jazan University,
Jizan, KSA.

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Academic background

- Aug, 2007-Jan, 2014: **Ph.D in Physics**
Mother Teresa Women's University, Kodaikanal,
Tamilnadu,India
- May, 2005-June, 2006: **M.Phil in Physics,**
M.S.University, Tamilnadu, India.
- Jul, 2003-May, 2005: **M. Sc., in Physics,** University Rank,
S.V.N.College, Madurai.
Affiliated to M.K.University, Tamilnadu, India.
- Jul, 2000- May, 2003: **B. Sc., in Physics,**
Sarah Tucker College, Palayamkottai.
Affiliated to M.S.University, Tamilnadu, India.

Projects

- Women Scientist Project (WOS-A), Department of Science and Technology (DST), Government of India (2011-2013).
- DSR (Deanship of Scientific Research), Jazan University, Jizan (2016-2018).

Experience

- Sep. 2014- Till date** : **Assistant Professor in Physics,**
Faculty of Science and Arts in Al-Ardha,
Jazan University,
Jizan, Saudi Arabia.
Teaching & Research
- Feb. 2014- June, 2014** : **Assistant Professor in Physics,**
Jayaraj Annapackiam College,
Periyakulam, Theni Dt. India.
Teaching: M.Sc Physics
Practical: Electronics, Non-Electronics and Microprocessors
- June, 2011- Jan. 2014:** **Principal Investigator,**
DST-WOS-A Project,
Mother Teresa Women's University, Kodaikanal, Tamilnadu, India

S. Sasi Florence

Curriculum vitae

List of Publications

1. Studies on structural and optical properties of pure and transition metals (Ni, Fe and co-doped Ni–Fe) doped tin oxide (SnO₂) nanoparticles for anti-microbial activity, T. Amutha, M. Rameshbabu, **S. Sasi Florence**, N. Senthilkumar, I. Vetha Potheher, K. Prabha, Research on Chemical Intermediates <https://doi.org/10.1007/s11164-018-03713-z>.
2. Oxalic acid assisted synthesis of ZnS nanoparticles and their optical properties, **S. Sasi Florence**, Nurdogan Can, Results in Physics, 10 (2018) 173-175.
3. Chadlia Manna, **S.Sasi Florence**, Hajer Adam, Aisha, journal of pure applied and industrial physics, (2018), Vol.8 (10) 115-122.
4. Study of Structural, Magnetic and Optical Properties of BiFeO₃–PbTiO₃ Multiferroic Composites, Mohammad Shariq, Davinder Kaur, Vishal Singh Chandel, Praveen K. Jain, **Sasi Florence**, Mukul Sharma, Shahir Hussain, Arabian Journal for Science Engineering, (2018) <https://doi.org/10.1007/s13369-018-3543-1>.
5. Green approach to synthesis and strain studies of ZnO nanoparticles, **S.Sasi Florence**, Hajer Adam, Chadlia Manna, and Nurdogan Can, AIP Conference Proceedings, 1976, (2018) 020020.
6. Tailoring of Morphology and Optical Properties of Bishydrazone-Capped ZnSe Nanorods, **S. Sasi Florence**, M. Umadevi, D. Lawrence Arockiasamy and Rita John, Australian Journal of Chemistry, 67(2016) 1427-1433.
7. Large scale ZnTe nanostructures on polymer micro patterns via capillary force photolithography, **S. Sasi Florence**, N. Can, P. Sachan, R. K. Gupta, L. Arockiasamy, H. Adam, and M. Umadevi, AIP Conference Proceedings 1742, (2016) 020001.
8. A facile synthesis of malic acid capped ZnSe transparent nanopellets and its optical properties, **S. Sasi Florence**, M. Umadevi, Rita John and D. Lawrence Arockiasamy, Materials Letters, 144 (2015) 110-113.
9. Micropatterned Arrays of ZnSe Nanospheres as Antireflection Coatings, **S. Sasi Florence**, Priyanka Sachan, Raju Kumar Gupta, Rita John, M. Umadevi, Australian Journal of Chemistry, 67(10) 1427-1433 .
10. Synthesis of Gallic Acid Capped ZnSe Transparent Nanorods, **S. Sasi Florence**, M. Umadevi, Rita John, D. Lawrence Arockiasamy, Materials Letters, 115 (2014) 34-37.

Curriculum vitae

11. Structural, morphological and optical properties of chelating ligand passivated ZnSe nanorods, **S. Sasi Florence**, M. Umadevi, Rita John, B. Sindhu Kumari, D. Lawrence Arockiasamy, *Materials Letters*, 108 (2013) 5-8.
12. Effects of annealing temperature on structure/morphology and photoluminescence properties of Mn-Doped ZnS Nanoparticles, Rita John and **S. Sasi Florence**, *Materials Letters*, 107 (2013) 93–95.
13. Optical, Structural and Morphological Studies of CTAB capped ZnSe nanoflakes, **S. Sasi Florence**, Rita John, D. Lawrence Arockiasamy, M. Umadevi, *Materials Letters*, 86 (2012) 129–131.
14. Pulse Electrodeposited ZnSeTe Films, K. Murali, **S. Sasi Florence**, and R. John, *ECS Transactions Electrodeposition of Nanoengineered Materials and Devices*, Meet. Abstr. 2011, Volume MA 2011-02, Issue 35, Pages 2251.
15. Properties of ZnSe films deposited by the pulse plating technique, **S. Sasi Florence**, Rita John, K.R.Murali, *Transactions of 219th ECS Meeting in Montreal, Canada* (May 1 – 6, 2011).
16. Pulse Plated ZnTe Films and their Properties, K. R. Murali, **S. Sasi Florence**, R. John, *Transactions of 219th ECS Meeting in Montreal, Canada* (May 1 – 6, 2011).
17. Synthesis and Characterization of nano ZnO and CdO, Rita John, **S. Sasi Florence** Shunmugaraj, Rajakumari Rajaram and Tamio Endo, *Journal of the Ceramic Society of Japan*, 118 [5], Sep. 2010, 329-332.
18. Optical, Structural and Morphological Studies of bean-like ZnS Nanostructures by Aqueous Chemical Method, Rita John, **S. Sasi Florence**, *Chalcogenide Letters*, Vol.7, No. 4, April 2010, p.283-287.
19. Structural and Optical Properties of ZnS Nanoparticles Synthesized by Solid State Reaction Method, Rita John, **S. Sasi Florence**, *Chalcogenide Letters*, Vol. 6, No. 10, October 2009, P.535-539.

Participation in Conferences, Workshops, Seminars and Meetings

1. Dimethylglyoxime incorporated ZnO nanoflakes as efficient anti reflection layer in solar cell, **S.Sasi Florence**, (2019), Hail University, Saudi Arabia.
2. Inorganic solar cells, Chadlia Manna, **S.Sasi Florence**, (2019), Hail University, Saudi Arabia.

Curriculum vitae

3. Capillary Force Photolithography, **S.Sasi Florence**, Nurdogan Can et al., SIMFP proceedings, (2018), Jazan University, Jizan.
4. Large-scale ZnTe nanostructures on polymer micropatterns via Capillary Flow Lithography, ISMST (2017), **S.Sasi Florence**, Mother Teresa Women's University, Kodaikanal, India. (Invited Talk).
5. Tailoring of Morphology and Optical Properties of Bishydrazone Capped ZnSe Nanorods for Solar Cell Applications, **S. Sasi Florence**, Gordon Research Conference, (2015) Ventura, California, USA.
6. Large Scale ZnTe nanostructures on Polymer Micro Patterns via Capillary Force Photolithography, **S.Sasi Florence**, Nurdogan Can et al., SIMFP proceedings, (2016), Jazan University, Jizan. (Invited Talk).
7. Fabrication of Micropatterned ZnTe nanoparticles as an Antireflection Layer in Solar Cells, **S.Sasi Florence**, Nurdogan Can et al., SIMFP proceedings, (2015), Jazan University, Jizan.
8. Synthesis of organic chelating ligand passivated ZnSe nanorods via wet chemical reaction method, **S. Sasi Florence**, *M. Umadevi, Rita John, B. Sindhu Kumari, D. Lawrence Arockiasamy*, ICNN-2013 held at Mother Teresa, Women's University, Kodaikanal, India. (12-13 July 2013).
9. Effects of annealing temperature on structure and photoluminescence properties of Mn-Doped ZnS Nanoparticles, *Rita John and S. Sasi Florence*, ICCMP-2012 held at University of Madras, Chennai, India. (1-3 Oct. 2012).
10. Optical and Structural properties of Cu doped ZnS nanoparticles in aqueous medium, *Rita John and S. Sasi Florence*, ICCMP-2012 held at University of Madras, Chennai, India. (1-3 Oct. 2012).
11. Pulse Electrodeposited ZnSeTe Films, K. R. Murali, **S. Sasi Florence**, R. John Transactions of 220th ECS Meeting & Electrochemical Energy Summit in *Boston, Massachusetts, USA* (October 9-14, 2011).
12. Role of Women in Science and Technology, **S.Sasi Florence and Rita John** International Conference on Eco-Feminism held at Mother Teresa Women's University, Kodaikanal, India. (19th March 2010).
13. Role of Defects in Tailoring the Properties of Manganese Doped ZnS Nanoparticles Annealed At Different Temperatures For Field Emission Device Applications, **S.Sasi Florence**, *Rita John and R.M.Eugin Nirmala*, Nano Today 2009, **Singapore**. (2nd -5th August 2009).
14. Quantum Confinement and Morphology of Nano ZnO at Various Preparatory Conditions, *Rita John, S. Sasi Florence, V. Blessy Suganthi and R. Rajakumari* ICMAT, **Singapore**. (June 27th - 3rd July 2009).

Curriculum vitae

15. Synthesis and Characterization of ZnO and CdO, *Rita John, S. Sasi Florence, V. Blessy Suganthi and R. Rajakumari*, Nano Oxides Symposium of the IUMRS – ICA 2008 International conference, Nagoya, **Japan**. (9th – 13th December 2008).
16. Synthesis and structure Studies of ZnS Semiconducting Nanoparticles, *S. Sasi Florence and Rita John*, ICMSRN 2008, Mother Teresa Women's University, Kodaikanal, India. (27th -29th Feb. 2008).
17. Synthesis and characterization of ZnS nanoparticles , *Rita John and S. Sasi Florence* , International conference on Modeling and Simulation (CITICOMS 2007), Coimbatore Institute of Technology, Coimbatore, India. (27th – 29th August 2007).
18. Synthesis and Characterization of Ag₀ nanoparticles, *T.Mathavan, S.Sasi Florence and D.Deepak Chakravarthi*, NSAMS-2006, Manonmanium Sundaranar University, Thirunelveli, India (27th – 28th Mar 2006).

Participation

1. INDO-JAPAN Conference on Nano Materials, Anna University, Chennai, Tamilnadu, India (Dec 8-11, 2004).
2. International conference on Nanoscience and nanomaterials, University of Madras, Chennai, Tamilnadu, India. (Aug 26th –28th 2006).
3. Seventh All India Conference of SRF “held at Scott Research Forum, Scott Christian College, Nagercoil, India on Mar 13th, 2010.
4. Workshop on solid State Physics, Pondicherry University, Pondicherry, Tamilnadu, India (Aug 19th -21st 2009).
5. Seminar On Non Linear Optics, Lady Doak College, Madurai, India (Feb 09, 2007).
6. Workshop On Nanomaterials, Vellore Institute of Technology (VIT), Vellore, Tamilnadu, India (Feb 5th -6th ,2006).
7. National Conference On Recent Advance in Materials Science (RANSAT-2005) Periar University, Salem, India (Nov 2005).
8. Recent Trends On Optical Spectroscopy, S.V.N.College, Madurai, Tamilnadu, India (Mar 2005).

Curriculum vitae

Training Programs

- Lab Training course, Saudi-Germany collaboration, Jazan University, Jizan, Saudi Arabia. (15-21 November, 2017)
- Workshop and Training on Data Collection Statistical Analysis including statistical packages for Women Scientist Project-A Awardees, C.R.Rao Advanced Institute of Mathematics, Statistics and Computer Science (AIMSCS) University of Hyderabad Campus, Gachibowli, Hyderabad, India (12-17 March, 2012)
- Training Programme in Science & Technology for Rural Societies, LBSNAA, Mussoorie, India (6-17 December 2010)
- Summer Training Program in Physics (STPIP), Madras University, Chennai, Tamilnadu, India (May-June 2004).

Declaration

I hereby affirm that all the details furnished above are true to the best of my knowledge and belief.

Date : 2019

Place : Jizan, Saudi Arabia

(S. Sasi Florence)