



Dr. (Sr.) S. SEBASTIAMMAL, M.Sc., M.Phil., Ph.D.,

Assistant Professor of Physics (Aided)

Holy Cross College (Autonomous), Nagercoil-629004

Date of Appointment: 06.09.2021

Area of Specialization: Nanotechnology-Biomaterials

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NATIONALITY

Indian

LANGUAGES

English and Tamil

EXTRA COURSES

Diploma in Theology

Theory & Practice in traditional Yoga

Training in Counselling and Psychotherapy

PAPER PRESENTATION: 14

Total No. of papers in Journals

International: 7

Science Citation Indexed Expanded: 2

Scopus Indexed Journal: 3

UGC care list: 2

National: 4

Total No. of papers in Conference/ Seminar Proceedings

International: 19

National: 10

Total No. of Seminars Attended: 120 & FDP Attended: 20

EDUCATIONAL PROFILE

Ph.D. Physics

**Holy Cross College (Autonomous), Nagercoil
(Affiliated to Manonmaniam Sundaranar University)**

M.Phil. Physics

**Holy Cross College (Autonomous), Nagercoil
(Affiliated to Manonmaniam Sundaranar University)**

Master of Science in Physics

**Fatima College (Autonomous), Madurai
(Affiliated to Madurai Kamaraj University)**

Bachelor of Science in Physics

**Holy Cross College (Autonomous), Nagercoil
(Affiliated to Manonmaniam Sundaranar University)**

AWARDS/ RECOGNITION RECEIVED

- ❖ Best Poster Presentational award for the paper entitled “**PEG assisted synthesis, characterization, in vitro bioactivity of divalent (Ni²⁺) metal ion doped hydroxyapatite**” in the International conference on “Novel materials for evolving technological applications” organized by Department of Physics, Holy Cross College (Autonomous), Nagercoil. Date: 02.03.2020.
- ❖ Best Oral Presentational award for the paper entitled “**Synthesis of Hydroxyapatite Nanoparticles for biomedical Applications**” in the two days International conference on “Advances in Physics” organized by Department of Physics, Holy Cross College (Autonomous), Nagercoil. Date: 27.07.2021 & 28.07.2021.

RESPONSIBILITIES

- Co-ordinator of Campus Animation Team
- IIC Innovation Committee Member
- Hostel Warden

PUBLICATION IN JOURNALS

1. **S. Sebastiammal**, V. Shally, M. Priyadharshini and Sr. Gerardin Jayam, 'Structural and optical properties of Cerium oxide nanoparticles', International Journal of Engineering Trends and Technology (IJETT), Vol.49, No.2, July (2017), ISSN: 2231- 5381, Page 69. **(UGC care list)**
2. **S. Sebastiammal**, A. Lesly Fathima, V. Shally and Sr. Gerardin Jayam, 'Characterization studies of pure cerium oxide nanoparticles by co-precipitation method', Crossian Resonance (A multidisciplinary Research Journal), ISSN: 0976-5417, Vol.8, No.2, December (2017).
3. **S. Sebastiammal**, A. Lesly Fathima, V. Shally and Sr. Gerardin Jayam, 'Effect of Calcination Temperature on Pure Cerium Oxide Nanoparticles by Precipitation Method', International Journal of Emerging Technologies in Engineering Research (IJETER), Vol.6, Issue 2, February (2018), ISSN: 2454-6410. **(UGC care list)**
4. **S. Sebastiammal**, J. Henry, A. Mariappan, K. Neyvasagam, Sr. Gerardin Jayam and A. Lesly Fathima, 'Structural, optical and antimicrobial activity of CeO₂ NPs using *Punica granatum* peel extract', Crossian Resonance (A multidisciplinary Research Journal), ISSN: 0976-5417, Vol.9, No.2, December (2018).
5. **S. Sebastiammal**, A. Mariappan, K. Neyvasagam, A. Lesly Fathima, '*Annona Muricata* Inspired Synthesis of CeO₂ Nanoparticles and their Antimicrobial Activity', Materials Today: Proceedings 9 (2019) 627–632; ISSN: 2214-7853. **(Scopus Indexed)**
6. S. Virgin Jeba, **S. Sebastiammal**, S. Sonia and A. Lesly Fathima, 'The effect of nanoparticles percentage on Thermal, Magnetic, Mechanical and Electrical behavior of Epoxy-CuFe₂O₄ nanocomposites', Crossian Resonance (A multidisciplinary Research Journal), ISSN: 0976-5417, Vol.10, No.1, June (2019), Pg. 124-133.
7. **S. Sebastiammal**, A. Lesly Fathima, S. Devanesan, M.S. AlSalhi, J. Henry, M. Govindarajan, B. Vaseeharan, 'Curcumin-encased hydroxyapatite nanoparticles as novel biomaterials for antimicrobial, antioxidant and anticancer applications: A perspective of nano-based drug delivery', Journal of Drug Delivery Science and Technology, ISSN: 1773-2247, Vol.57, (2020) 101752. **(SCI Expanded)**
8. S. Virgin Jeba, **S. Sebastiammal**, S. Sonia and A. Lesly Fathima, 'Synthesis, growth mechanism and photocatalytic properties of nickel oxide (NiO) nanoflower: a hydrothermal process', Inorganic and Nano-Metal Chemistry, ISSN: 2470-1556, October (2020). **(SCI Expanded)**
9. **S. Sebastiammal**, S. Sonia, C.S. Biju and A. Lesly Fathima, 'Physicochemical properties and antimicrobial potential of green synthesized cerium oxide (CeO₂) nanoparticles from Pomegranate peel extract', Jordan Journal of Physics, ISSN: 1994-7607, Vol.14, No.1, April (2021), Pg. 71-78. **(Scopus Indexed)**
10. **S. Sebastiammal**, S. Sonia, J. Henry and A. Lesly Fathima, 'Green synthesis of cerium oxide nanoparticles using *aloevera* leaf extract and its optical properties', Songklanakarin Journal of Science and Technology, ISSN: 0125-3395, Vol.43, No.2, April (2021), Pg. 582-587. **(Scopus Indexed)**
11. M. Shanmugapriya, F. Shanolija, Juhi Leela Ajith, K. Kavija, A. Lesly Fathima and **S. Sebastiammal***, 'A Brief Review on Hydroxyapatite', Crossian Resonance (A multidisciplinary Research Journal), ISSN: 0976-5417, Vol.11, No.1, June (2021).