

FACULTY PROFILE

Name : **Dr. Aishwarya.S**

Qualification : M.Sc., Ph.D.

Designation : Assistant Professor
PG Dept. of Physics

Years of

Experience : **UG** : 02 yrs 02 months **PG** : 02 months

Email Id : aish1291@gmail.com

Areas of

Specialization : Thin films, Hydrophobic materials

Publications

1. **S Aishwarya and J Shanthi**; Spin-coated polymer composite hydrophobic surfaces with self-cleaning performance; *Materials Research Express*; (2019), 6 ;Pp. 076412- (1-10)
2. **S Aishwarya, J Shanthi, and R Swathi**; Surface energy calculation using Hamaker's constant for polymer/silane hydrophobic thin films; *Materials Letters*; (2019), 253, Pp. 409 – 411
3. **J Shanthi, Aishwarya S, and Swathi R**; Fabrication of Roughness enhanced Hydrophobic coatings; *Journal of Nano and Electronic Physics*; (2020), 12(2), Pp.02042- (1-4)
4. **J Shanthi, S Aishwarya and R Swathi**; Enhanced Optical & structural properties by potassium iodide doping on spin coated TiO₂ thin films; *Chemical Data Collections*; (2020), Vol.29 (100494)
5. **R Swathi, J Shanthi, S Aishwarya and K Anoop**; Photon management by Scratch- resistant antireflection for the efficiency enhancement of Silicon solar cell; *International Journal of Energy Research* ; (2022), (1-14)

Presentations

1. Presented a talk on **BASIC SCIENCE FOR ENGINEERS** at Sree Sastha Institute of Engineering and Technology, (2021)
2. Attended and presented paper (Oral) in 10th International Conference on Advancements in Polymeric Materials (APM 2019), CIPET , Chennai between 22nd to 24th January 2019 with the title **“Fabrication of Hydrophobic Polymer films with TEOS/MTMS: Self-cleaning applications”**.
3. Oral paper presentation was done in 2nd International Conference on Nano Science and Engineering Applications (TEQIP-III), Centre for Nano Science and Technology, Institute of Science and Technology, JNTUH, Hyderabad between 4th to 6th October 2018 with the title **“Hydrophobic surfaces with polymer-silica composites by spin-coating technique”**.
4. Paper presented at **ICMR sponsored National Conference on Chemistry of Advanced Materials and its Biomedical Applications (CAMBA-2018)** at Kumaraguru college of Technology (KCT), Coimbatore, India.
5. Paper Presented in **International Conference on Energy, Environment and Engineering (ICEEE-2016)** at Coimbatore Institute of Technology (CIT), Coimbatore, India
6. Received award from **Directorate of Matriculation Schools** giving 100 % results in 10th Public Examination for the academic year 2014 – 2015.
7. Paper Presented on **“CURRICULUM RESTRUCTURING”** at Avinashilingam Institute for Home science & Higher education for Women, Coimbatore, India.

Workshops and Conferences Attended

1. International Tamil Information Technology Research Conference (ITITRC- 2022), TIDEL PARK, Taramani, Chennai.
2. 10th International Conference on Advancements in Polymeric Materials (APM 2019), CIPET, Guindy, Chennai
3. 2nd International Conference on Nano Science and Engineering Applications (TEQIP-III), Centre for Nano Science and Technology, Institute of Science and Technology, JNTUH, Hyderabad, 2018
4. National Conference on Chemistry of Advanced Materials and its Biomedical Applications (CAMBA-2018)
5. International Workshop on Renewable Energy materials (REM-2017), 2017
6. One-day Workshop on Effective use of SciFinder in Research, 2017
7. International Conference on Energy, Environment and Engineering (ICEEE-2016), Coimbatore Institute of Technology, Coimbatore, 2016
8. National Conference on Advances in Materials Science and Non-linear systems (AMSNS-16), 2016
9. Workshop on Advances in Nanomaterials and Thin films (WANT-2013), 2013
10. Seminar on Electrodynamics ,2012
11. Workshop on Ancient and Modern Astronomy, 2009

Webinars

1. Webinar on “**Hybrid Energy storage Device for Electric Vehicles**”, Sree Sastha Institute of Engineering and Technology, Chennai on 17th May 2021.
2. International Webinar on “**Applications of Optical Instrumentation, Ultrafast spectroscopy and Spintronics**”, Department of Science, Christ Academy Institute of Advanced Studies, Bengaluru, India on 30th January 2021.
3. National Webinar on “**Applications on Thin Film Technology**”, Department of Physics, Dr. A.V.Baliga college of Arts and Science, Kumta, Karnataka, 24th August 2020.
4. Webinar on “**N-containing conjugated Microporous polymers for Energy Applications**”, Department of Chemistry, School of Engineering, Presidency University, Bengaluru, Karnataka, 12th August 2020.
5. FDP on “**Engineering Physics and Materials Science**”, Department of Physics, Chaitanya Bharathi Institute of Technology, Gandhipet, Hyderabad, Telengana, 3rd Aug to 7th Aug 2020.
6. Webinar on “**Advances in Hydrophobic Coatings**”, Department of Physics, KPR Institute of Engineering and Technology, Arasur, Coimbatore, 13th July 2020.
7. International Webinar on “**Emerging trends in Materials Science -2020**”, Department of Physics, Maharaja Bhoj Govt. P.G.College, Dhar, Madhya Pradesh, 5th July to 7th July 2020.

Research

1. Orcid Number – 0000-0003-4455-5561
2. Scopus id – 57208824531
3. Reviewer in ICE Journal Publications, England, UK