

Dr SASANKA KUMAR S

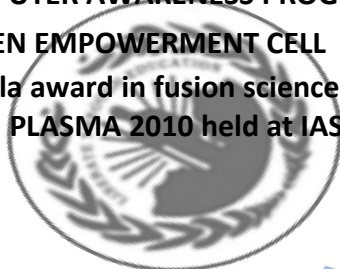
Assistant Professor of PHYSICS

Publication – 05

Conferences (International – 04) (National – 04)

ADMINISTRATIVE DISTINCTION and AWARDS

- Question paper setter FATIMA MATA NATIONAL COLLEGE (AUTONOMOUS) April 2018
- Convenor COMPUTER AWARENESS PROGRAMME (CAP 2016)
- Member WOMEN EMPOWERMENT CELL
- Z.H Sholapurwala award in fusion science for best presentation on PLASMA 2010 held at IASST Guwahati , Assam



JOURNAL PUBLICATIONS

1. **S. Sasanka Kumar**, R.Reshmi, A. C. Saritha, N. Y. Joshy and M.K. Jayaraj "Optical Emission Spectroscopic Analysis of Plasma Plume during Pulsed Laser Deposition of PZT" *Journal of Atomic and molecular physics*, **2014**, 12583, 2014 .
2. **S.Sasanka Kumar**, M.K.Jayaraj, Ajai Kumar and Ravi. A.V. Kumar "Development of *in-situ* Laser blow off cleaning set up for Aditya tokamak window" *journal of Fusion science and Technology* VOL. 64, 54-62, 2013.
3. K. Hasna, **S. Sasanka Kumar**, Manoj Komath, Manoj Rama Varma, M. K. Jayaraj and K. Rajeev Kumar, "Synthesis of chemically pure, luminescent HAp nanoparticles: a fluorescent probe for *in-vivo* imaging applications" *Phys. Chem. Chem. Phys.*, 15(21):8106-11, 2013 DOI:10.1039/C3CP42648C.
4. A. C. Saritha, **S. Sasanka Kumar**, M. Majeesh, K. Hasna, M. R. Shijeesh, K. Vishnu and M. K. Jayaraj. "Structural and optical analysis of P-type transparent SnO thinfilms deposited by PLD technique". *Journal of Electron Devices* Vol. 19, 2014, pp. 1642-1647



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QUALIFICATION

M.Sc, M.Phil, PhD

DATE OF JOINING

28.09.2020

EXPERIENCE IN YEARS

2 years 6 months

RESEARCH

LASER PLASMA
MATERIAL SCIENCE

CONFERENCE PROCEEDINGS

5. **S. Sasanka Kumar** and M. K. Jayaraj " Automated laser cleaning of optical windows of vacuum systems via backside etching " selected for best paper award on 23-rd Kerala science congress, January 2014
6. **S.Sasanka Kumar**, A. C. Saritha and M. K. Jayaraj, ICMAT 13- A-2335 "Study of ambipolar diffusion in laser produced Sn plasma using Langmuir probe" **ICMAT – 2013, June 31 to July 6**
7. K. Vishnu, **S. Sasanka Kumar**, A. C. Saritha and M. K. Jayaraj "Amplified spontaneous emission from dye doped DNA-CTMA silica sol-gel glass rods, Poster presentation, ICMAT 2013, Suntec, Singapore
8. **S.Sasanka Kumar**, M. K. Jayaraj, Ajai Kumar and Ravi. A.V. Kumar Characterization of Fusion Debris on Tokamak window and the Development of an automated set up for cleaning the window 25th National Symposium on Plasma Science & Technology (PLASMA-2010).
9. **S.Sasanka Kumar**, M. K. Jayaraj, Ajai Kumar and Ravi. A.V. Kumar Improvement of Optical Transmission Characteristics of Tokamak Windows. 24th National Symposium on Plasma Science & Technology (PLASMA-2009)
10. M.K. Jayaraj. N.V.Joshy and **S. Sasanka Kumar** Pulsed laser Deposition of ZnO thin films: plasma diagnosis and material synthesis (Surface Modification Technologies XXIII "Advances in Laser surface Engineering" in 2009).
11. **S. Sasanka Kumar** and M. K. Jayaraj Paper presented on R.Shankar birth centenary seminar series 2008 held at Sree Narayana College for Women, Kollam.
12. **S.Sasanka Kumar**, N.V.Joshy, R. Reshmi, M. K. Jayaraj Optical Emission Spectroscopic Characterization of laser Ablated PZT Plasma Plume [COLA 2007, Spain].

ORIENTATION/REFRESHER/SHORT TERM COURSES ATTENDED

- Successfully completed ONLINE TWO - WEEK INTERDISCIPLINARY REFRESHER COURSE in "ADVANCED RESEARCH METHODOLOGY" from 22 November – 06 December, 2022
- Successfully completed a 4-week induction programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from May 18-17 June, 2021
- Participated and successfully completed the One Week (7 Days) online Short-Term Faculty Training Programme (Interdisciplinary) on "DIGITAL CONTENT MANAGEMENT ON E-LEARNING", from June 13th to June 19th of 2021
- Participated of the Webinar on 'Conserving Biodiversity: Towards a Scientific Approach' (Speaker Dr. Madhav Gadgil)
- ICMAT-2013 – International Conference on Materials for Advanced Technology, June 31 July6, 2013, Suntech , Singapore
- OMTAT-2013- International Conference on Optoelectronic Materials and Thin Films for Advanced Technology, January 2-5, 2013, Kochi, India.
- SERC school-2012 *Attended fourth SERC school on "Laser produced plasmas: physics and applications" held at Raja Ramanna centre for Advanced Technology, Indore, India, July 2012*
- HEDP School – 2011 *Attended High Energy Density Physics [HEDP] Summer School on "Inertial confinement fusion plasma" held in University of California, San Diego (UCSD), USA , July 2011 (Organized by University of Rochester, Fusion Science Center)*