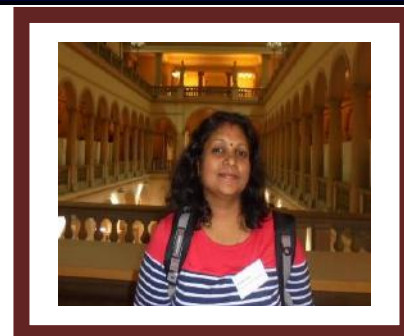


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Date of Joining : 20.02.2014

Experience : Teaching: 15 years; Research: 18 years.

Field of specialization : Theoretical and Computational Nonlinear Dynamics / Nano biomaterials.

Courses Taught : Nonlinear Dynamics, Classical Mechanics, Electromagnetic Theory, Lasers and Modern optics, Introductory Course on Biophysics, Advanced Nano biomaterials.

Number of research papers /

Published	Journals	Seminars/ Workshops/ etc.,	Impact / H-index	Patents
International	122	09	Cumulative Impact factor: 237.047/ H-index: 22	01
National	-	13	--	02

Articles published :

Number of Books published : 04(Chapters)

Conferences/seminars/workshops papers presented : National: 104 International: 81

Research consultancy / projects : Completed: 03

Guidance: M.Sc. Projects: 38*** M.Phil. Projects: 35*** Ph.D.: Awarded - 11, Submitted - 02, Guiding - 07

Organizing the conferences/seminars/workshops : National: 08

Significant achievements:

- Awarded Post-Doctoral fellowship by the Max-Planck Institute for the Physics of Complex systems, Dresden, Germany (2005-2006) and awarded the Raman Post-Doctoral fellowship in USA (2015-2016) by UGC, India.
- Recipient of (i) UGC Research award (2013) **by UGC India, (ii) Several Young Scientist research awards **by BRNS-DAE (2010); **by the Academy of Sciences, Chennai(2014); ** by the government of Tamil Nadu(2014) (iii) Mileva Mavic Einstein award by, Mother Teresa Women's University, India(2013) and (iv) Landhal award by the International Society for Mathematical Biology, USA(2011) .

Significant Publications:

- L. Kavitha et al., Propagation of envelope bright breather coupled wave modes in Ablowitz-Ladik chains. (Accepted for publications in Applied mathematical modelling),(2016).
- L. Kavitha et al., Perturbed soliton excitations of Rao dust Alfvén waves in magnetized dusty plasmas. Physics of Plasmas. 23, xx-xx, 2016.
- L. Kavitha et al., Modulational instability and nano scale energy localization in ferromagnetic spin chain with higher order dispersive interaction, Journal of magnetism and magnetic materials, 404, 91-118, 2015.
- L. Kavitha et al., Energy Transport in the form of proton soliton in one dimensional hydrogen bonded polypeptide chain, Journal of Biological Physics. 42, 9-31, 2015.
- L. Kavitha et al., Breather like electromagnetic wave propagation in an antiferromagnetic medium with Dzyaloshinsky -Moriya interaction, Physical Review E, 84,066608, 2011.
- **Link:** <https://scholar.google.co.in/citations?user=S457V5YAAAAJ>