

**Prof. Dr. L.Kavitha,**  
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**Date of Joining** : 20.02.2014  
**Experience** : Teaching : 19 years; Research: 22 years.  
**Field of specialization** : Theoretical and Computational Nonlinear Dynamics/Nanobiomaterials.  
**Courses Taught** : Nonlinear Dynamics, Classical Mechanics, Electromagnetic Theory, Optics, Laser and Modern optics, Introductory Course on Biophysics, Advanced Nonlinear Dynamics, Research Methodology.

**Number of research papers / Articles published** :

Published	Journals	Seminars/ Workshops/ etc.,	Impact / H-index	Patents
International	142	14	Cumulative Impact factor: 273.105/H-index: 33	01(filed)
National	-	15	--	02(01 granted)

**Number of Books published** : 06 (Chapters)  
**Conferences/seminars/workshops papers presented:** National: 110, International: 123  
**Research consultancy / projects** : Completed: 03, Ongoing: 03  
**Guidance** : M.Sc.Project: 54; M.Phil. Project:35, Guiding-01  
 Ph.D.: Awarded- 16, Guiding - 08  
**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.
- Awarded the Young Scientist research award (2014) by the Academy of Sciences, Chennai, India and awarded the UGC research award (2013) by the University Grants Commission (UGC), India., Young Scientist Research award (2010) by DAE-BRNS and Young Scientist award(2015) by the Govt. of TamilNadu and awarded the Mileva Mavic Einstein Award for the year (2013) for the commendable contributions in the field of Computational Physics, Instituted by the Mother Teresa Women's University, Kodaikanal, and Tamilnadu, India.
- Young Collaborator Fellowship (2002), Junior Associateship (2004-2011) and Regular Associateship (2014-2019) by ICTP, Italy (An UNESCO and IAEA Institute).
- She is elected as a fellow of the Academy of Sciences, Chennai (2018) by the government of Tamil Nadu, India.

**Recent publications:**

- E. Parasuraman and L. Kavitha, "Alternate way of soliton solutions in hydrogen- bonded chain", Waves in Random and Complex Media, (2019) ISSN: 1745-5030, Impact factor: 3.223.
- N.Ayyappan, Pavithra T, Christy Maria Joy, L. Kavitha, "Effect of Twist and Nonlinear Dynamics of Anharmonic Twist Opening Model of DNA", Engineering Sciences International Research Journal, Vol. 7 (2019) Spl Issue, ISSN 2320- 4338, Impact Factor: 2.54.
- T. Pavithra, R. Ravichandran, Geo Sunny, L. Kavitha, "Electromagnetic lump soliton solution of (2 + 1) dimensional ferromagnetic nanowire with Dzyaloshinskii-Moriya interaction", Vol. 25 (2020) 192-198, Materials Today: Proceedings. Impact Factor: 0.97.
- S. Sridevi, S. Sutha, L. Kavitha, D. Gopi, Physicochemical and biological behavior of biogenic derived hydroxyapatite and carboxymethyl cellulose/sodium alginate biocomposite coating on Ti6Al4V alloy for biomedical applications, Materials Chemistry and Physics, 254 (2020) 123455, Impact Factor: 3.408, Publisher: Elsevier.

**Link:** <https://scholar.google.co.in/citations?user=S457V5YAAAAJ&hl=en>