



Dr.T.M.Selvakumari M.Sc.,M.Phil., Ph.D
Assistant Professor

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Name : Dr. T. M. SELVAKUMARI
Designation : Assistant Professor
Email id : selvakumari@apacwomen.ac.in
Teaching Experience : 20 Years
• **Present Institution** : 8 Years 8 Months(as on 17.09.2023)

S.No	Name of the Institution	Designation	Total Period of Service		
			Date from	Date to	Period
1	Arulmigu Palaniandavar Arts College for Women, (Autonomous College), Palani	Assistant Professor	19.01.2015	Till date (17.09.2023)	8 Years 8 Months
2	SSM Institute of Engineering & Technology, Dindigul	Associate Professor	August 2014	17.01.2015	5.5 Months
3	Angel College of Engineering & Technology, Tirupur	Assistant Professor	June 2011	July 2014	3 Year 2 Months
4	Angel College of Engineering & Technology, Tirupur	Lecturer	July 2007	May 2011	3Years 11 Months
5	Chidambaram Pillai College for Women, Mannachanallur, Trichy	Lecturer	June 2003	March 2006	2 Years 10 Months
	M.Kumarasamy College of Engineering, Karur	Lecturer	August 2002	May 2003	10 Months

Research Experience : 16 Years

Research Guidance :

- No. of Scholars Completed M.Phil : 01
- No. of Scholars Completed Ph.D : 01
- No. of Scholars doing Ph.D : 02

Publications in International Journal : 23

- Google Scholar Citations : 171
- h-index : 05
- i 10- index : 05

Publications in International/National Conferences/ Seminars : 35

Position held:

- NIRF-Nodal Officer- 2021-2022
- NSS Programme Officer
- Physics Association in-charge
- Coordinator for various programmes organized by the department

Member in:

- Board of studies held in our College
- ISTE(Indian Society for Technical Education)- Life Member
- VDGGOOD Professional Association- Annual Member (2020)

- Editorial Board Team for DKIRF Journals- Annual Member (2020)
- Internal Quality Assurance Cell
- Admission Data Processing Committee
- Discipline Committee

List of Publications in International Journals:

1. **Selvakumari, T.M.**, Emerson, R.N. and Ganesan, S. “Development of Nanostructured Stress Free Pt-Rich FePt Films for Micro Electro Mechanical System Applications”, American Journal of Applied Sciences, Vol. 6, No. 6, pp. 1175-1179, 2009.
2. **Selvakumari, T.M.**, Emerson, R.N. and Ganesan, S. “Magnetic Properties and Microstructural Characterisation of Nanostructured FePt Films Fabricated by Electrodeposition”, International Journal of Pure and Applied Physics, Vol. 5, No. 2, pp. 165-173, 2009.
3. **Selvakumari, T.M.**, Muthukumar, P., Ganesan, S. and Emerson, R.N. “Effect of bath temperature on the magnetic and mechanical properties of Nanostructured FePtP hard magnetic films”, Optoelectronics and Advanced Materials-Rapid Communications, Vol. 4, No. 7, pp. 976-981, 2010.
4. **Selvakumari, T.M.**, Muthukumar, P. and Ganesan, S. “Enhanced Performance of Nanostructured FePtP Alloy Films for Micro Electro Mechanical System Applications”, Optoelectronics and Advanced Materials -Rapid Communications, Vol. 6, No. 8, pp. 1124-1126, 2010.
5. **Selvakumari, T.M.**, Muthukumar, P. and Ganesan, S. “Synthesis and Characterization of Nanocrystalline FePtP Films”, Digest Journal of Nanomaterials and Biostructures, Vol. 5, No. 4, pp. 903-907, 2010.
6. **Selvakumari, T.M.**, Muthukumar, P., Ganesan, S. and Emerson, R.N. “Influence of Phosphorous and Urea on the Magnetic and Mechanical Properties of Nanostructured FEPTP Films”, Armenian Journal of Physics, 2010, Vol. 3, Issue 3, pp. 276-281, 2010.
7. **Selvakumari, T.M.**, Emerson, R.N. and Ganesan, S. “Effect of Organic Additives on the Magnetic Properties of Nano Crystalline Hard Magnetic Films”, Digest Journal of Nanomaterials and Biostructures, Vol. 6, No. 1, pp. 9-12, 2011.
8. **Selvakumari, T.M.**, Emerson, R.N. and Ganesan, S. “Magnetic Properties of Urea Doped Nanocrystalline FePtP Films”, Materials Physics and Mechanics, Vol. 11, No. 1, pp. 9-16, 2011.
9. **Selvakumari, T.M.**, “Blood Group Detection Using Fiber Optics”, Armenian Journal of Physics, 4 (3). pp. 165-168, 2011.
10. **Selvakumari, T.M.**, “Magnetic and Electroanalytical Properties of Electrodeposited FePtP Films” Asian Journal of Science and Applied Technology, Vol. 1, No.1, pp.1-4, 2012.
11. Muthukumar, P., **Selvakumari, T.M.** and Ganesan, S. “Structural and optical properties of nanostructured ZnO thin films”, Digest Journal of Nanomaterials and Biostructures, Vol. 5, No. 3, pp. 635-639, 2010.

12. R. Kannan, S. Ganesan , **T. M. Selvakumari**, “Structural and magnetic properties of electrodeposited Ni-Fe-W-S thin films”, *Optoelectronics and Advanced Materials -Rapid Communications*, 6 (3-4), pp. 383-388, 2012.
13. R. Kannan, S. Ganesan , **T.M.Selvakumari**, “Synthesis and Characterization of Nanocrystalline Ni-Fe-W-S Thin Films in Diammonium Citrate Bath” *Digest Journal of Nanomaterials and Biostructures* , Vol. 7, No. 3, pp. 1039 – 1050, 2012.
14. R. Kannan, S. Ganesan , **T. M. Selvakumari**, “Effect of annealing temperature on magnetic properties of nano crystalline Ni-Fe-W-S thin films in Diammonium Citrate bath” *Journal of Optoelectronics and Advanced Materials*, Vol. 14, No. 7- 8, pp. 774-780, 2012.
15. M. Rajeswari, S. Ganesan , **T. M. Selvakumari**, “Effects of current density on structural and magnetic properties of electrodeposited Ni-Mn alloy thin films from chloride bath” *Optoelectronics and Advanced Materials -Rapid Communications*, Vol. 7, No. 1-2, January - February 2013, p. 80 – 85.
16. R. Kannan, S. Ganesan and **T. M. Selvakumari** , “An investigation on effects of annealing on magnetic properties of Ni-Fe-W-S electrodeposited coatings in tri sodium citrate bath” *IJST (2013) A2: 181-187*.
17. Muthukumar, P., **Selvakumari, T.M.**, C.Rangasamy and Ganesan, S. “Structural and optical properties of ZnO nano particles grown on copper substrate by electrodeposition method ”, *Digest Journal of Nanomaterials and Biostructures*, Vol. 8, No. 4, pp. 1455 - 1459, 2013.
18. M. Rajeswari, S. Ganesan , **T.M.Selvakumari**,” Effects of Thiourea Concentration on the properties of Electrodeposited NiMnS Thin films” *International Journal of Applied Engineering Research*, Vol. 10, No.67, pp.335-339, 2015.
19. P. Sangeetha, **T.M.Selvakumari**, S.Selasekarapandian, S.R.Srikumar, M.Mahalakshmi, “Preparation and characterization of biopolymer – carrageenan with MgCl₂ and its application to electrochemical devices”, *International Journal of Ionics*, volume 25, Issue 1, PP:233- 244, 2020.
20. P. Sangeetha, **T.M.Selvakumari**, S.Selasekarapandian, “Characterization of solid biopolymer electrolytes based on kappa-carrageenan with Magnesium nitrate hexahydrate and its application to electrochemical devices”, *Polymer-Plastics Technology and Materials*, Volume 60, Issue 12, PP:1317-1330, 2021.
21. S.Sridevi, **T.M.Selvakumari**, “Green Synthesis of Titanium Di Oxide Nanoparticles Using Quercus Infectoria (Masikkai) Powder Extract”, *Wesleyan Journal of Research*, Vol.14 No1(XXXIII), PP: 20-24,2021.
22. M.Vidhya, **T.M.Selvakumari** , R.Marnadu, I.M.Ashraf, Mohd.Shkir “Impact of temperature on the properties of MoS₂ nanoflakes synthesized by facile hydrothermal method for electrochemical supercapacitor applications”, *Inorganic Chemistry Communications*, Vol.145, PP: 109928(1-11).
23. P. Sangeetha, **T.M.Selvakumari**, S.Selasekarapandian, “Preparation of primary magnesium battery based on kappa carrageenan with magnesium perchlorate and its application to electrochemical devices”, *Polymer Bulletin*, DOI:10.1007/s00289-022-04669-2.