

## Staff Profile



**Name:** Dr.S.Thenmozhi

**Position:** Guest Lecturer

**Department:** Chemistry

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**Office Location:** NKR Govt Arts College for Women, Namakkal.

### Education:

Doctoral degree in chemistry	DRDO-BU CLS, <b>Bharathiar University</b> , Coimbatore, India	Highly Commended	2014-2019
Master degree in chemistry	Holy cross college, <b>Bharathidasan University</b> , Trichy, India.	Distinction	2009-2011
Graduate degree in chemistry	Seethalakshmi Remaswamy College, <b>Bharathidasan University</b> , Trichy, India	Distinction	2006-2009
HSC	<b>State board</b> , Tamilnadu, India	83%	2006
SSLC	<b>State board</b> , Tamilnadu, India	93%	2004

### Professional Experience

Research Executive, <b>2 years</b> (June 2011 – July 2013) (Pre-Ph.D)	Orchid Chemicals and Pharmaceuticals Pvt Ltd., Chennai, Tamilnadu, India.	Wet chemical analysis of pharmaceutical samples
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		using various analytical instruments.
Ph.D., Junior Research Fellow, <b>4 years</b> (June 2014 – June 2018)	DRDO-BU CLS, Bharathiar University Campus, Coimbatore, Tamilnadu, India.	Synthesis and characterization of electrospun nanofibers for catalytic applications.
Junior Scientist, <b>7 months</b> (Feb 2019 – Aug 2019) (Post Ph.D)	HLL Lifecare Ltd, Trivandrum, Kerala, India.	Monitoring and doing laboratory activities and writing manuscript.

### Research Interests

- Explore the electrospun nanofibers into various fields such as adsorbent/filters, fuel cell, catalyst and drug carrier.
- Compare the efficiency of electrospun and biologically synthesized nanofibers for biomedical applications.
- Introduction of nanofibers as transdermal patch for depression.

### Publications

1. **S. Thenmozhi**, N. Dharmaraj, K. Kadirvelu, Hak Yong Kim, “Electrospun nanofibers: New generation materials for advanced applications” Mater. Sci. Eng. B. 217 (2017) 36–48.
2. **S. Thenmozhi**, N. Dharmaraj, “Green synthesis of 1,1'-carbonyldiimidazole using copper oxide nanofibers as a heterogeneous catalyst” J. Nanosci. Nanotech. 18 (2018) 234-241.
3. **S. Thenmozhi**, K. Kadirvelu, “Transfer Hydrogenation and Hydration of Aromatic Aldehydes and Nitriles Using Heterogeneous NiO Nanofibers as a Catalyst”. New J. Chem. 42 (2018) 15572-15577.
4. S. Jiji, **S. Thenmozhi**, K. Kadirvelu, “Comparison on Properties and Efficiency of Bacterial and Electrospun Cellulose Nanofibers”. Fibers Polym. 19 (2018) 2498-2506.

5. **S. Thenmozhi**, T. Krinaveni, K. Kadirvelu, “Reduction of Nitrocompounds in Aqueous Medium Using Electrospun MgO Nanofibers”, Materials Research Express, 6 (2019) 065020.

6. **S. Thenmozhi**, V. Jeslin, S. Kiran, B. Suja, J. Parvathy, S. Vemparthan, A. Kumaran and R. Lakshminarayanan, “Cytotoxicity of Formulated Graphene and Its Natural Rubber Nanocomposite Thin Film in Human Vaginal Epithelial Cells: An Influence of Noncovalent Interaction”, ACS Biomater. Sci. Eng. 6 (2020) 2007–2019.

### Awards and Honors

Received **BEST REVIEWER** award for the year 2020 from IOP publication.  
Reviewer in IOP Publications and Editor in Two of the Journals.

### Courses Taught

List of courses taught, including course codes and titles.

**Professional Memberships : NIL**

### Projects and Grants

Junior Research Fellow, <b>4 years</b> (June 2014 – June 2018).	Funding agency: Defence Research and Development Organisation, (DRDO-BU CLS), Coimbatore.	<b>Title of the Project:</b> Synthesis and characterization of electrospun nanofibers for catalytic applications
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### Contact Information

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