

Name : K. Karthika devi  
Designation : Assistant Professor  
Department : Chemistry  
Email id : karthikaeswaran12@gmail.com  
Mobile No : 9655353965



**Educational Qualifications:**

- Ph.D- currently pursuing in Manonmaniam Sundaranar University, Tirunelveli.
- M. Sc (2018) in Chemistry from Manonmaniam Sundaranar University, Tirunelveli.
- B. Sc (2016) in Chemistry from St.John's College, Tirunelveli.

**Academic Affiliation:**

- Assistant Professor, Sri Sarada College for Women, Tirunelveli, July 2024 to till date.

**Research Interest**

- Catalysis
- Environmental Chemistry
- Material Science
- Organic Chemistry

Total Number of Publications: 4 Total Number of Citations: 3

h-Index: 1

GoogleScholar: <https://scholar.google.com/citations?user=UcXDyboAAAAJ&hl=en> ORCID:  
<https://orcid.org/0000-0003-2731-9962>

Vidwan Profile : <https://vidwan.inflibnet.ac.in/profile/519953>

**Other merits / contributions**

- Member in Board of Studies (2019)

**LIST OF PUBLICATION - International/National Journals**

1. Karthika Devi K, Chellapandiankannan (2022) Metal ion effect on pore enlargement in solid acid catalyst and CO<sub>2</sub> decomposition, Journal of Porous Materials, Springer Nature, vol. 30, no. 15734854, 2022, I.F: 2.6. DOI:10.1007/s10934-022-01399-8.
2. Karthika Devi K, Chellapandiankannan (2024 ) A Novel Framework Interweaving in Mesoporous AlPO<sub>4</sub> and Its Function in CO<sub>2</sub> Decomposition, Journal of Energy Technology, Wiley, vol. 2300912, pages.1-11, I.F: 4.1, DOI: 10.1002/ente.202300912.

3. Karthika Devi K, Chellapandiankannan (2024), A sandwich framework effect on the conversion of cylindrical pore into slit pore and its catalytic application, Journal of Porous Materials, Springer Nature, I.F: 2.6. <https://doi.org/10.1007/s10934-024-01563-2>.
4. D Revathi, K Karthikadevi, C Kannan, (2019) Removal and Recovery of Brilliant Green and Brilliant Yellow using Mesoporous Aluminophosphate Molecular Sieves from Aqueous Solution, J. Environ. Nanotechnology, 8 (1), 68-74.

### **ACADEMIC AWARD AND PARTICIPATIONS**

1. Karthika devi. K and Chellapandian Kannan “ International conference on Advanced Materials, Energy and Environmental sustainability (ICAMEES-2018)”, Dec 14-15, 2018, ISBN 978-81-928068-3-9, University of Petroleum and Energy Studies (UPES), Dehradun, India.
2. Karthika devi. K and Chellapandian Kannan, “AlPO<sub>4</sub> based Nanoporous Solid acid catalyst synthesis, characterization and its catalytic application on CO<sub>2</sub> Decomposition” and got a BEST PAPER AWARD in Two days International Conference on Advanced Materials Chemistry at the Interfaces of Energy and Medicine (AMCI-2020) (ISBN 978- 93-81402-64-1), Jan-30&31, Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli.
3. Karthika devi. K and Chellapandian Kannan, “ A facile synthesis and characterization of AlPO<sub>4</sub> based catalyst and its applications for CO<sub>2</sub> decomposition” in the two days International Conference on Promoting Environmental Technologies for Waste Management and Sustainable Development (WMSD-2021) 12-13 December 2021, organized by Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha.
4. Karthika devi. K and Chellapandian Kannan, “ Fourth National Conference on Advanced Materials Chemistry at the Interfaces of Energy, Environmental and Medicine (AMCI- 2022), March 30-31, 2022, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India.
5. Karthika devi. K and Chellapandian Kannan, “Assembling of cubic CuO and tetragonal AlPO<sub>4</sub> framework produces superoxide ion on CuO-AlPO<sub>4</sub>-34 catalyst for CO<sub>2</sub> decomposition at lower temperature” Three days international Conference on “Nanoscience and Nanotechnology (ICONN-2023)” held on March 27-29, 2023, organized by Department of Physics and Nanotechnology, SRM Institute of science and technology, chennai.
6. Karthika devi. K and Chellapandian Kannan, “An innovative approach for the conversion of cylindrical pore to slit pore by sandwich framework of a novel ZnO<sub>4</sub> and its effect on catalytic application” World Environment Summit 2023 organized by Environment and Social development Association (ESDA India) & Galgotias University, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh on 4th & 5th November 2023.
7. Karthika devi. K and Chellapandian Kannan, “A Novel concept of pillared catalysis for CO<sub>2</sub> decomposition over Intercrossing Framework of MgO and AlPO<sub>4</sub> catalyst” Two days International Conference on “Innovation in Science and Technology for Sustainable

Development, ISTSD-2023”,organized by Department of Science, Maharishi School of Science and Humanities, Maharishi University of Information Technology, Lucknow on 21-23, November 2023.

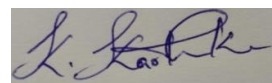
### **WORKSHOP ATTENDED**

1. Karthika devi. K participated in the Academy Lecture Workshop on “Recent Advances in Chemistry” organized by Department of Pharmaceutical chemistry, Manonmaniam Sundaranar University, Tirunelveli on 27-28 January – 2023.
2. Karthika devi. K participated in the International webinar on “Writing your thesis using Mendeley” organized by Department of Applied Chemistry, Amity University Madhya Pradesh on 6th February 2023.

### **DECLARATION**

I hereby declare that, the information provided is true to the best of my knowledge.

Signature of the Faculty

A handwritten signature in blue ink, appearing to read 'L. Karthika', is shown within a rectangular box.

(Karthika devi .K)