

Name : **K. Pandiselvi**

Designation : Assistant Professor
Dept of Chemistry

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Area of Specialization : Inorganic Chemistry

Area of Research : Inorganic Chemistry

Teaching Experience : 4 years



S.No	Name of the Institution	Period of Service
1	Sethu Institute of Technology, Pulloor, Kariapatti, Madurai	08-02-2014 to 30-12-2014
2	Chenduran College of Engineering and Technology, Lenavilakku, Pudukkottai	10-06-2018 to 20-06-2019
3	Vidhyaa Giri College of Arts and Science, Puduvayal	24-06-2019 to till date

Publications

1. **Kannusamy Pandiselvi**, Huaifang Fang, Xiubo Huang, Jingyu Wang, Xiaochan Xu, Tao Li, Constructing a novel carbon nitride/polyaniline/ZnO ternary heterostructure with enhanced photocatalytic performance using exfoliated carbon nitride nanosheets as supports, **Journal of Hazardous Materials**, **314**, (2016), 67-77.
2. **K. Pandiselvi** and S. Thambidurai, Synthesis, characterization, and antimicrobial activity of chitosan-Zinc oxide/polyaniline composites, **Materials Science in Semicouductor Processing**, **31** (2015) 573-581.
3. **K. Pandiselvi** and S. Thambidurai, Synthesis of adsorption cum photocatalytic nature of polyaniline-ZnO/chitosan composite for removal of textile dyes, **Desalination and Water treatment**, 2015, DOI: 10.1080/19443994.2015.1019365.
4. **K. Pandiselvi** and S. Thambidurai, Chitosan-ZnO/polyaniline nanocomposite modified glassy carbon electrode for selective detection of dopamine, **International Journal of Biological Macromolecules**, **67** (2014) 270-278. (Elsevier, IF: 5.162)
5. **K. Pandiselvi** and S. Thambidurai, Chitosan-ZnO/polyaniline hybrid composites: Polymerization of aniline with chitosan-ZnO for better thermal and electrical property, **Polymer Degradation and Stability**, **98**, (2013), 988-996. (Elsevier, IF:4.032)
6. **K. Pandiselvi** and S. Thambidurai Synthesis of porous chitosan-polyaniline/ZnO hybrid composite and application for removal of reactive orange 16 dye, **Colloids and Surfaces B: Biointerfaces**, **108**, (2013), 229-238. (Elsevier, IF: 4.389)
7. **K. Pandiselvi** and S. Thambidurai, Chitosan-ZnO/polyaniline ternary nanocomposite for high performance supercapacitor, **Ionics**, 2013, DOI 10.1007/s11581-013-1020-0.
8. **K. Pandiselvi** and S. Thambidurai, Synthesis of novel polyaniline/MgO composite for enhanced adsorption of reactive dye, **Journal of Applied Polymer Science**, 2013, DOI: 10.1002/app.40210. (Wiley, IF: 2.52)
9. **Sivalingam Thambidurai**, **Kannusamy Pandiselvi**, Polyaniline/natural polymer composites and nanocomposites (Book Chapter), Polyaniline Blends, Composites and Nanocomposites, **Elsevier**, 235-256 (2018)
10. Jian chen, Xiaochan Xu, Tao Li, **Kannusamy Pandiselvi**, Jingyu Wang, Toward high performance 2D/2D hybrid photocatalyst by electrostatic assembly of rationally modified carbon nitride on reduced grapheme oxide, **Scientific Reports**,**6**, (2016) 37318.

11. Hao Cheng, Xiaoli Feng, Deli Wang, Min Xu, **Kannusamy Pandiselvi**, Jingyu Wang, Zhijuan Zou, Tao Li, Synthesis of highly stable and methanol-tolerant electrocatalyst for oxygen reduction: Co supporting on N-doped-C hybridized TiO₂, **Electrochimica Acta**, **180** (2015) 564-573.
12. K. Karthik, **K. Pandiselvi**, K. Mariyappan, K. Park, IS Kwak, J. Sivakamavalli, Synthesis of Biogenic Chitosan Biopolymer-Functionalized Zinc-doped Bi₂O₃ Nanoneedles and its Bio-applications: In Vitro Antibacterial and Anticancer activity, **Arabian Journal for Science and Engineering**, DOI: [10.1007/s13369-020-05099-w](https://doi.org/10.1007/s13369-020-05099-w). Pub Date: 2021-01-03

Awards and Achievements

1. Worked as **PDF (Post Doctoral Research Fellow) (2 years)** with Prof Jingyu Wang in Department of Physical Chemistry and Industrial Catalysis, School of Chemistry and Chemical Engineering, Huazhong University of Science and Technology, 1037 Luoyu Road, Wuhan, China
– 430 074, during 4/2015 – 4/2017
2. **Project awarded during PDF in China, Title:** Chitosan derived, Nitrogen doped and Carbon supported g-C₃N₄ photocatalysts from China Postdoctoral Science Foundation and funding amount about 8.0 million.
3. **Fellowship awarded during M.Phil-PhD**, Rajiv Gandhi National Research Meritorious Fellowship from UGC (University Grant Commission), Bahadu Shah Zafar Marg, New Delhi- 110 002.
JRF (Junior Research Fellow) during
4/2008 – 10/2011 SRF (Senior Research
Fellow) during 11/2011 – 11/2014