

PROFILE

G.SUDHA

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ACADEMIC CHRONICLE

Ph.D: 2012 – 2017 (organic Chemistry)

Institution & University: Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli.

M.Phil: 2009 – 2010 (General Chemistry)

Institution & University: School of Chemistry, University of Madras, Chennai.
Aggregate: **78.00%**, First class with distinction

M.Sc: 2006 -2008 (General Chemistry)

Institution & University: School of chemistry, Madurai Kamaraj University, Madurai.
Aggregate: **65%** First class

B.Sc: 2003 -2006 (General Chemistry)

Institution & University: Sri Parasakthi College for women, Monomaniam Sundaranar University, Tirunelveli.
Aggregate: **73%**, First class

HSC: 2004 -2005 (Tamil, English, Maths, Chemistry, Physics, Biology)

Institution & University: Govt. Girls Higher Secondary School, Kadayanallur.
Aggregate: **81%**, First class with distinction

SSLC: 2002 -2003 (Tamil, English, Maths, Science, Social Science)

Institution & University: Govt. Girls Higher Secondary School, Kadayanallur.

Aggregate: **81%**, First class with distinction

RESEARCH AND PROJECT DETAILS

Ph.D: In the Field of organic Chemistry

Topic of the Research: “PHOTOCATALYST IMMOBILIZED FLY ASH DERIVATIVES FOR DEGRADATION OF TOXIC ORGANIC COMPOUNDS” under the supervision of **Dr. E. Subramanian**, Professor & Head, Department of Chemistry, Manonmaniam Sundaranar University, Tirunelveli.

M.Phil Project: “POLYAMIDOAMINE DENDRIMER MEDIATED SOLUBILITY STUDY OF NIMESULIDE-EFFECT OF pH AND COMPARISON WITH SURFACTANTS.” under the guidance of **Dr. E. Murugan**, Professor, School of Chemistry, University of Madras, Chennai.

M.Sc Project: “SYNTHESIS OF FLAVANOID AND ISO-FLAVANOID COMPOUNDS.” under the guidance of **Dr. S. Gandhidasan**, Professor, School of Chemistry, Madurai Kamaraj University, Madurai.

LIST OF PUBLICATION

Research papers published in journals

1. **G. Sudha**, E. Subramanian, C. Murugan, Development of iron oxide/Zeo-NaX nano photocatalyst from coal fly ash and its activity assessment by methylene blue dye degradation, Int. Res. J. Nat. Appl. Sci. 2(2) (2015) 114-128.
2. **G. Sudha**, E. Subramanian, Synthesis, characterization and photocatalytic study of cerium oxide/Zeo-NaX catalyst with brilliant green dye degradation. J. Adv. Chem. Sci. 1(3) (2015) 117-120.
3. **G. Sudha**, E. Subramanian, Influence of pollutant ionic charge on their photodegradation by fly ash derived CeO₂/Zeolite-NaX catalyst. J. Adv. Chem. Sci. 2(1) (2016) 212-214.

Research papers under communication/preparation

4. **G. Sudha**, E. Subramanian, C. Murugan, Constructive role of nano Cobalt-Cerium mixed metal oxide loading in stabilizing and converting coal fly ash derived zeolite into a better photocatalyst. (Communicated to Journal of Materials Research and Technology).
5. **G. Sudha**, E. Subramanian, Synthesis, characterization and photocatalytic study of cobalt oxide/Zeo-NaX catalyst with methylene blue dye degradation (to be communicated).

Research papers published in conferences

1. **G. Sudha**, E. Subramanian, Synthesis, characterization and photocatalytic study of cobalt oxide/Zeo-NaX catalyst with methylene blue dye degradation. *Conference Proceedings on CEEH-2015, Chemistry for Sustainable Energy, Clean Environment and Health* (2015) 75–78. (ISBN: 978-93-81402-17-1).
2. **G. Sudha**, E. Subramanian, Synthesis, characterization and photocatalytic study of cobalt-cerium oxide/Zeo-NaX catalyst with methylene blue dye degradation. *Conference Proceedings on ICRAMCS-2015, International Conference on Recent Advances in Materials and Chemical Sciences* (2015) 101–102. (ISBN-978-93-85477-46-1).
3. **G. Sudha**, E. Subramanian, Synthesis, characterization and photocatalytic study of cerium oxide/zeolite-NaX with brilliant green dye degradation, *Conference Proceedings on FACTs-2016, International Conference on Frontier Areas in Chemical Technologies* (2016) 135–136. (ISBN 978-81-928690-7-0).

LIST OF SEMINARS/CONFERENCES/WORKSHOP

Research papers presented at National & International Seminars/Conferences

1. Synthesis, characterization and photocatalytic study of cerium oxide/zeolite-NaX with brilliant green dye degradation, **G. Sudha**, E. Subramanian, *International Conference on Frontier Areas in Chemical Technologies (FACTs-2016)*, Alagappa University, Karaikudi, Tamil Nadu, India, March 21-23, 2016. (Poster)
2. Synthesis, characterization and photocatalytic study of Co-Ce oxide/zeolite-NaX with methylene blue dye degradation, **G. Sudha**, E. Subramanian, *International Conference on Recent Advances in Materials and Chemical Sciences (ICRAMCS – 2015)*, Gandhigram Rural Institute Deemed University, Gandhigram, India, December 14-15, 2015. (Oral)
3. Synthesis, characterization and photocatalytic study of cobalt oxide/zeolite-NaX with methylene blue dye degradation, **G. Sudha**, E. Subramanian, *National Conference on Chemistry for Sustainable Energy, Clean Environment and Health (CEEH-2015)*, Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu, India, January 21-22, 2015. (Oral)
4. Synthesis, characterization and photocatalytic study of iron oxide/zeolite-NaX with methylene blue dye degradation, **G. Sudha**, E. Subramanian, *International Conference on Emerging Environmental & Advanced Oxidation Technologies for Energy, Environment and Sustainability (EEAOTEES-2014)*, Anna University, Chennai, India, September 29-30, 2014. (Oral)

Participation in Conference/Workshop

1. *International Conference on recent advances in materials research and its applications* (ICRAMRIA-2015), St. Xavier's College, Tirunelveli, India, December 16, 2015.
2. Academy Lecture Workshop on Recent Advances in Chemistry (RAC)- 2016, PG & Research Department of Chemistry, Sri Paramakalyani College, Alwarkuchi, February 26, 2016.
3. *Seventh Science Conclave*, Indian Institute of Information Technology, Allahabad, India, December 8-12, 2014.
4. *Polymer Conference of Young Researchers (PCYR14)*, CSIR-National Institute for Inter-disciplinary Science and Technology, Thiruvananthapuram, India, October 18, 2014.
5. *Workshop on Advance Oxidation Techniques–Skill Training and Demonstration* (AOT-2014), Anna University, Chennai, India, October 1, 2014.
6. *Workshop on Tune and Prune Your Research – Materiel Characterization Techniques*, Sree Chitra Tirunal Institute for Medical Sciences & Technology, Thiruvananthapuram, India, August 21-22, 2014.

ACADEMIC AWARDS/ ACHIEVEMENTS AND PARTICIPATIONS

- Selected merit research scholar in *Seventh Science Conclave*, Indian Institute of Information Technology, Allahabad, India, December 8-12, 2014.
- Serviced as *NSS volunteer* in school and college levels (one Special Camp)

Instruments Handled

Extensively handled and used the following techniques

UV/Visible Spectrophotometer
FT-IR Spectrophotometer
Powder X-ray diffraction
Diffuse reflectance spectroscopy
Liquid Chromatography-Mass Spectrometry
