

Profile

Name: DR. J. JUDITH VIJAYA

Gender: Male Female

DOB: 08 - 06 - 1978



Qualification:

S. No.	Degree / Diploma	Subject	Name of the College / University	Year of Passing
1.	UG - B. Sc.	CHEMISTRY	STELLA MARIS COLLEGE	1998
2.	PG - M. Sc.	CHEMISTRY	LOYOLA COLLEGE	2000
3.	Ph.D.	CHEMISTRY	LOYOLA COLLEGE	2000

Aided Self-Supporting Management (Day)

Department: CHEMISTRY

ID No: CHE - 16

Total Teaching Experience at Loyola:

S. No.	Department	Category Aided / SS / Mgt (Day) / Eve	From - To (Period)
1.	CHEMISTRY	MANAGEMENT (DAY)	AUGUST 2001 - OCTOBER 2007
2.	CHEMISTRY	AIDED	OCTOBER 2007 -
Teaching Experience (in Loyola) :			7 YEARS
Teaching Experience (Outside Loyola) :			-
Total Teaching Experience :			7 YEARS

Books Published:

S. No.	Title	Year	Publisher	Place
1.	SPINAL SENSORS - AN INTRODUCTION	2007	ANNAI PUBLICATIONS	CHENNAI

Projects undertaken:

S. No	Area of the Research	Sponsored By	Sanctioned Amount (Rs / \$)	Duration	Outcome of the Project
1.	NANO CRYSTALS	DST	16 LAKHS	2008 - 2011	

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Details of professional training and research experience, specifying period:

- Ø January 2002 – January 2008 : Ph.D from Loyola College, Chennai – 34.
- Ø Passed CSIR – UGC National Eligibility test for Lectureship held on December 31st, 1999.
- Ø A short course on how to develop and trouble shoot GC and HPLC methods. February, 2004. Sponsored by American Chemical Society. Indian Institute of Technology, Chennai. India.
- Ø Training programme for Resource Persons on Detection and Prevention of Food Adulteration Conducted at Stella Maris College, 17-19th January 2002.
- Ø UGC sponsored Refresher course on Analytical Instrumentation conducted at Indian Institute of Technology (IIT), 17-28th February 2003.
- Ø UGC - Refresher Course in Chemistry – Batch XVII conducted by the UGC-Academic Staff College, University of Madras, 17th Aug- 6th September 2005.
- Ø Workshop on “Isotope tracer techniques for water resources development and management”. 17 December 2007. Centre for Environmental Sciences, University of Madras, Chennai. India.

List of significant publications during the last five years (with details)

1. Two stage process on the preparation and characterization of porous composite carbon from rice husk by phosphoric acid activation.
L. John Kennedy, J. Judith Vijaya and G. Sekaran
Industrial and Engineering Chemistry Research., 2004. Vol. 43, pp.1832 – 1838.
2. Electrical conductivity studies of porous carbons derived from rice husk.
L. John Kennedy, J. Judith Vijaya and G.Sekaran
Material Chemistry and Physics, 2005. Vol. 91, pp. 471 – 476.
3. Bulk preparation and characterization of mesoporous carbon nanotubes by catalytic decomposition of cyclohexane on sol-gel prepared Ni-Mo-Mg oxide catalyst.
L. John Kennedy, J. Judith Vijaya, G. Sekaran, J. Joseph, J. Daisy Rani and John Pragasam.
Materials Letters, 2006. Vol. 60, pp. 3735-3740.

4. Effect of Sr addition on the humidity sensing properties of CoAl_2O_4 composites.
J. Judith Vijaya, L. John Kennedy, G. Sekaran, B. Jeyaraj and K.S. Nagaraja
Sensors and Actuators B, 2006. Vol. 123, pp. 211-217.
5. Synthesis, characterization and humidity sensing properties of BaAl_2O_4 composites.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja
Sensors and Actuators B, 2007. Vol.124, pp. 542-548.
6. Sr(II) added MgAl_2O_4 composites for ammonia detection.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Chemistry, 2006. Vol. 2(6), pp. 215-222.
7. Methanol sensing behavior of strontium(II) added MgAl_2O_4 composites through solid-state electrical conductivity measurements.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Sensors and Transducers, 2006. Vol. 74, pp. 864-873.
8. Synthesis, characterization and humidity sensing properties of Cu–Sr–Al mixed metal oxide composites
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Materials Research Bulletin, 2007. Vol.43, pp. 473-482.
9. NiAl_2O_4 composites as benzene and toluene sensors.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Materials Letters, 2007. Vol. 61 (30), pp. 5213-5216.
10. Utilization of strontium added NiAl_2O_4 composites for the detection of methanol vapors.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Journal of Hazardous Materials, 2007. (article in press).
11. Utilization of Sr(II)-added calcium aluminate for the detection of volatile organic compounds.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Industrial and Engineering Chemistry Research, 2007. Vol. 46, pp. 6251-6258.
12. Synthesis, characterization and acetone sensing properties of novel strontium(II)-added zinc aluminate composites.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Sensors and Transducers, 2007. Vol. 76, pp. 1008-1017.
13. Humidity sensing characteristics of sol-gel derived Sr(II)-added ZnAl_2O_4 composites.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Sensors and Actuators B, 2007. Vol. 127, pp. 619-624.
14. Equilibrium, kinetic and thermodynamic studies on the adsorption of m-cresol onto micro and mesoporous carbon.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.Kayalvizhi.
Journal of Hazardous Materials, 2007. Vol. 149, pp. 134-143.
15. Adsorption of phenol from aqueous solutions using mesoporous carbon prepared by two stage process.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.Kayalvizhi.
Chemical Engineering journal, 2007. Vol. 132, pp. 279-287.
16. Alcohol sensing properties of sol-gel prepared Sr(II)-added cobalt aluminate spinel composites.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja.
Sensors and Actuators B, 2008. Vol. 129 (2), pp. 741-749.
17. Sr(II)-added ZnAl_2O_4 Spinel Composites as an Ammonia Sensor.
J. Judith Vijaya, L. John Kennedy, G. Sekaran and K.S. Nagaraja
Sensors and Transducers, 2008. Vol. 91, pp. 109- 115.

18. Preparation and VOC gas sensing properties of Sr(II)-added copper aluminate spinel Composites.

J. Judith Vijaya, L. John Kennedy, G. Sekaran, M. Bayhan and M. Albert William.
Sensors and Actuators B, 2008. (Article in press).

LIST OF PATENTS

- Synthesis of Nickel impregnated activated carbon polymer composite.
G Sekaran, L John Kennedy, A. Gnanamani, J. Judith Vijaya, S Rajamani.
(No. 320 Del 2004)
- Synthesis of carbon nanotubes using trimetallic oxide catalyst at relatively low temperature.
G Sekaran, L John Kennedy, J. Judith Vijaya (No. 316 Del 2004)
- Pathogen removal and reuse of water using copper impregnated activated carbon.
G Sekaran, L John Kennedy, A. Gnanamani, J. Judith Vijaya (No. 2497 Del 2005)
- A process for the preparation of functional aliphatic hydrocarbons from volatile liquid hydrocarbons for industrial applications (709 Del 2008)
G Sekaran, L John Kennedy, J. Judith Vijaya, B Ravindran, & A. Udaya

6. Professional recognition, Awards, Fellowships received

- Fr. Yeddanapalli Award & Scholarship – Proficiency in Chemistry for 1998-1999.
- Dr. R.S. Sampath Prize (Gold medal) – Proficiency in Chemistry for 1998-2000.
- Mary Appoline Memorial Medal & Prize (1999)
- L.A.A. Northern I Chapt – III Scholarship (2000).
- Passed CSIR – UGC National Eligibility test for Lectureship held on December 31st, 1999.
- Young scientist award in the year 2008 by Department of Science and Technology (DST), India.
- BEST PAPER PRESENTATION - Johnsi, Sylvia, Prem Kumar and J. Judith Vijaya, “6th National Conference on emerging trends in crystal growth and nano materials” (NECAN-2008), Loyola College, Chennai, February 28-29, 2008.

7. Reviewer/referee for international journals

- Sensors and Actuators B: Chemical
- Journal of Alloys and Compounds
- Materials Letters
- Industrial and Engineering Chemistry Research
- International Journal of Automation and Control

8. Papers presented at International Conferences

- International symposium of research students on Materials science and Engineering, conducted by Indian Institute of Technology (IIT), 20-22nd Dec.2004.
- International symposium on chemical education and research conducted by Loyola College, 04-07th Jan. 2004.
- International interdisciplinary conference on sustainable technologies for environmental protection (ICSTEP), 7 – 9 January 2006, conducted by Coimbatore Institute of Technology, Coimbatore.

- International conference on Recent advances in Chemistry, January 2006, conducted by Department of Chemistry, Auxillium College, Vellore.
- Asian academic network for environmental safety and waste management, December 2006, conducted by Anna University, Chennai.

9. Papers presented at National Conferences

- National Symposium on Metallo Organic Chelates & Recent Advances in Chemistry conducted by Presidency College. (NSCRAC),9-10th Feb. 2001.
- Chemists Meet conducted by Indian Institute of Technology (IIT), Chennai, 7-8th Dec.2002.
- National Symposium on Chemistry, conducted by Central Leather Research Institute, (CLRI), Chennai, 7-9th Feb2003.
- National seminar on Healthy environment for the next generation conducted by Loyola College, Chennai, 2-4th Dec. 2004.
- National seminar on recent trends in chemistry and industry, conducted by Guru Nanak College, Chennai, February 2005.
- National symposium on Microbial and plant biotechnology, conducted by Loyola College, Chennai, February 2005.
- National conference on recent advancements in nanoscience and technology, conducted by Periyar University, Salem, September 2005.
- National symposium on Crystal growth and characterization, conducted by Loyola College, Chennai, September 2005.
- Annual IIT Madras Chemistry Symposium & The First Mid-Year Meeting of the Chemical Research Society of India, Chennai, July 2006.
- National Seminar on Environmental Biosensors, Loyola Institute of Frontier Energy, Loyola College, Chennai, January 11-12, 2007.
- 6th National Conference on emerging trends in crystal growth and nano materials” (NECAN-2008), Loyola College, Chennai , February 28-29, 2008.

10. List of invited lectures delivered in conferences

- Nanosensors for the detection of volatile organic compounds
J. Judith vijaya, New trends in nano chemistry, 25 -26, August 2006. Department of Chemistry, Sacred Hearts College, Tirupattur, Tamil Nadu, India.

11. Research area of interests

Material science, characterizations of materials and catalytic activities of materials with special focus on metal oxides, carbon materials, nano materials, volatile organic compound oxidation/ destruction, humidity and gas sensors.

12. Major Projects sanctioned (2008-2011): “Liquid phase catalytic oxidation of primary and secondary alcohols using strontium(II)-added transition metal aluminate nano composites” by Department of Science and Technology (DST), India for 16 lakhs in 2008.

