



K.VIGNESH

Assistant Professor,
Department of Chemistry,
Yeungnam University,
Gyeongsan, Gyeongbuk 712-749,
South Korea
E-mail: vignesh134@gmail.com
Mobile: +8210-7305-2241

Professional info:

I am working as an International Research Professor of Chemistry (Assistant Professor). I am doing research and taking theory classes for MSc and Doctoral students. My research fields are semiconductor photocatalysis, solar cells and photochemical water splitting.

Work experience

Research Professor

March 2014 - present

Assistant Professor

Jan. 2013 - Feb. 2014

Assistant Professor of Chemistry, C.P. A. College, Bodinayakanur, Tamilnadu, India. I guided Research projects for MSc and MPhil students. 10 MSc students and 4 MPhil students completed their research project under my guidance. I handled practical and theory classes of MSc chemistry and Industrial Chemistry students.

Research Fellow

June 2009- Dec.2012

Worked as a Research project fellow in Thiagarajar College. I also completed at the same period from Madurai Kamaraj University, Madurai, Tamilnadu, India.

Lecturer

July 2008- May 2009

Worked as a Lecturer in the Department of Pharmaceutical Chemistry, Sri Kaliswari College, Sivakasi, Tamilnadu, India. Three MSc students completed their research projects under my guidance.

Educational Qualifications:

Degree	Major and Specialization	University	Class	Year
Ph.D	Chemistry (“Photocatalytic Activity of Surface Modified Semiconductor Nanoparticles for Environmental Remediation”)	Madurai Kamaraj University, Madurai-625021, Tamilnadu, India	Highly Commended	2013
Master of science	Pharmaceutical Chemistry	Madurai Kamaraj University, Madurai-625021, Tamilnadu, India	72.20 % (First Rank)	2006-2008
Bachelor of Science	Chemistry	Manonmaniam Sundaranar University, Thirunelveli-627012, Tamilnadu, India	I Class with 81.50 %	2003-2006

Research Experience

Nanochemistry, Photocatalysis, Solar Cells, Sonophotocatalysis, Materials Chemistry, Inorganic Chemistry, Synthetic Organic Chemistry and Pharmaceutical Chemistry

Research Publications:

2014

K. Vignesh, A. Suganthi, Bong-Ki Min, Misook Kang, Photocatalytic activity of magnetically recoverable MnFe₂O₄/g-C₃N₄/TiO₂ nanocomposite under simulated solar light irradiation, Journal of Molecular Catalysis A: Chemical 395 (2014) 373–383

R. Satheesh, **K. Vignesh**, A. Suganthi, M. Rajarajan, Visible light responsive photocatalytic applications of transition metal (M = Cu, Ni and Co) doped Fe₂O₃ nanoparticles, Journal of Environmental Chemical Engineering 2 (2014) 1956–1968

K. Vignesh, R. Priyanka, R. Hariharan, M. Rajarajan, A. Suganthi, Fabrication of CdS and CuWO₄ modified TiO₂ nanoparticles and its photocatalytic activity under visible light irradiation, Journal of industrial and engineering chemistry 20 (2014) 435-443

K. Vignesh, M. Rajarajan, A. Suganthi, Visible light assisted photocatalytic performance of Ni and Th co-doped ZnO nanoparticles for the degradation of methylene blue dye, Journal of industrial and engineering chemistry 20 (2014) 3826-3833

K. Vignesh, M. Rajarajan, A. Suganthi, Photocatalytic degradation of erythromycin under visible light by zinc phthalocyanine-modified titania nanoparticles, Materials Science in Semiconductor Processing 23 (2014) 98–103

P. Malathy, **K. Vignesh**, M. Rajarajan, A. Suganthi, Enhanced photocatalytic performance of transition metal doped Bi₂O₃ nanoparticles under visible light irradiation, Ceramics International 40 (2014) 101-107

2013

K. Vignesh, R. Hariharan, M. Rajarajan, A. Suganthi, Photocatalytic performance of Ag doped SnO₂ nanoparticles modified with curcumin, Solid State Sciences 21 (2013) 91-99.

K. Vignesh, R. Hariharan, M. Rajarajan, A. Suganthi, Visible light assisted photocatalytic activity of TiO₂-Metal vanadate (M= Sr, Ag and Cd) nanocomposites, Materials science in Semiconductor Processing 16 (2013) 1521-1530.

K. Vignesh, R. Prinyanka, M. Rajarajan, A. Suganthi, Photoreduction of Cr (VI) in water using Bi₂O₃-ZrO₂ nanocomposite under visible light irradiation, Materials Science and Engineering B 178 (2013) 149–157

2012

K. Vignesh, A. Suganthi, M. Rajarajan, R. Sakthivadivel, Visible light assisted Photodecolorization of eosin-Y in aqueous solution using hesperidin modified TiO₂ nanoparticles, Applied Surface Science 258 (2012) 4592–4600.

K. Vignesh, A. Suganthi, M. Rajarajan, S.A. Sara, Photocatalytic activity of AgI sensitized ZnO nanoparticles, Powder Technology 224 (2012) 331–337

Research Papers presented in National/International/Seminars and Conferences

S.No	Date	Particulars	Place
1	February 2010	RSC, CRSI sponsored “4 th CRSI-RSC National Symposium in Chemistry”	Indian Institute of Chemical Technology, Hyderabad, India
2	September 2010	UGC, CSIR, DRDO sponsored National seminar on “Emerging Trends in Chemistry”	C.P.A. College, Bodinayakanur, Tamilnadu,
3	March 2011	CSIR, UGC and DST sponsored National Seminar on “Nanostructured Materials and Applications”	Madurai Kamaraj University, Madurai, Tamilnadu, India
4	August 2011	Third International Conference on Frontiers in Nanoscience and Technology, Cochin Nano-2011”	Cochin University of Science and Technology, Cochin, Kerala, India
5	December 2011	International Conference on Nanomaterials and Nanotechnology-ICNANO-2011	University of Delhi, New Delhi, India

6	February 2012	14 th CRSI National Symposium in Chemistry	NIIST, Thiruvananthapuram, Kerala, India
7	October 2012	National Seminar on Emerging Trends in Chemistry (ETC-4)	C.P.A. College, Bodinayakanur, Tamilnadu, India
8	October 2012	Second International conference on Advanced Oxidation processes	Mahatma Gandhi University, Kottayam, India
9	December 2012	International conference on Frontiers in Nanotechnology (5 th Bangalore Nano)	The Lalit Ashok, Bangalore (organized by Jawaharlal Nehru centre for Advanced Research (JNCASR), Bangalore), India
10	July 2012	International conference on Nanoscience + Nanotechnology	Sorbone University, Paris, France
11	May 2014	2 nd USA International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT-USA)	Rice University, Houston, Texas, USA