

Name and Qualification

Name. : Dr. (Mrs.) A. Udaya
Designation : Assistant Professor
Department : Chemistry
Subject Interest : Material Science, Photocatalysis, Sensors.
Specialization : Green Synthesis

For more Information :

DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE (SPECIFYING PERIOD)

Assistant Professor

Institute : Poompuhar College (Autonomous)
Period : 2016 onwards
Teaching Area : Analytical Chemistry

Assistant Professor (TRA/TF)

Institute : Anna University, Chennai-25
Period : 2008 - 2015
Teaching Areas : Engineering Chemistry

Associate Professor and Head

Institute : --
Period : --
Teaching Areas : --
Research Areas : --

ACADEMIC PROFILE

Ph.D.,

University : Anna University, Chennai, (Guindy Campus).
Date and Place : 2009 - 2013. / Anna University, Main Campus.
Research Supervisor : Dr. M. J. Umopathy.
Title of Thesis : Studies on phytochemical synthesis and characterization of biocomposites doped nanocrystalline metal oxides as humidity Sensor.

M.Phil.,

University : Annamalai University, Chidambharam.
Main Subject : General Chemistry.
Year : 2007
Marks : 60%
Supervisor : Dr. G. Sekaran , Central Leather Research Institute, Adyar, Chennai.
Title of Dissertation : Studies on photocatalytic treatment of sulphonated condensed phenolic compound (a bio-refractory chemical) using TiO₂ supported mesoporous activated carbon catalyst.

PG

University : Anna University, Chennai, (Guindy Campus).
College : Anna University, Main Campus.
Main Subject : Applied Chemistry.
Year : 2004-2006.
Marks : 80%

UG

University : University of Madras, Chennai.
College : Stella Maris College, Chennai.
Main Subject : Chemistry
Year : 2001-2004.
Marks : 75%

H.Sc.,

Board : Matriculation Higher Secondary School.
Main Subject : Chemistry, Physics, Botany, Zoology.
Year : 2000-2001
Marks : 74%

S.S.L.C

Board : Matriculation Higher Secondary School.
Main Subject : Chemistry, Physics, Botany, Zoology.
Year : 1999-2000.
Marks : 72%

RESEARCH PROJECTS

Completed

Funding Agency : NIL
File Number : --
Year : --
Amount Received : --
Title : --

Ongoing

Funding Agency : NIL
File Number : --
Amount Received : --
Title : --

Accepted

Funding Agency : NIL
File Number : --
Year : --
Amount Received : --
Title : --

WORKSHOPS ORGANIZED

1. Funding Agency : NIL
Date : --
Amount Received : --
Place : --

RESEARCH GUIDANCE

M.Phil.,

Number of M.Phil., Scholars : --

Ph.D.,	Degree Awarded	:	--
	Number of PhD Scholars	:	--
	Degree Awarded	:	--
	Thesis Submitted	:	--
	Synopsis Submitted	:	--

AWARDS AND DISTINCTION

1. Nominated to participate in "5th Science Conclave/ Inspire Internship program" A Congregation of Nobel Laureates and eminent Scientists, and MHRD-DST initiative at Indian Institute of Information Technology (IIIT-A), Allahabad, UttarPradesh, during December 08-14, 2012.
2. Distinction holder in M.Sc Chemistry, Anna University, Chennai, (2006).
3. Two patents filed and published twelve papers in the international journals.
4. Research paper presented in abroad, University of Limerick, Ireland, (2011).

PUBLICATIONS - ARTICLES PUBLISHED IN JOURNALS

1. Photocatalytic degradation of phenolic syntan using TiO₂ impregnated activated carbon. *Udaya, A.; Kennedy, L. J.; Judith Vijaya, J.; Sekaran, G. J.* Colloid Interface Sci. 2011, 355, 204. (Impact Factor: 3.782)
2. Hygrophila Spinosa T. Anders seeds based biomineral doped cobalt oxide: synthesis, characterization and its application to humidity sensing. *Udaya, A.; Judith Vijaya, J.; Umapathy, M. J.; Kennedy, L. J. J.* Alloys Compd. 2013, 547, 11. (Impact Factor: 3.014)
3. Simple phytosynthesis and humidity sensing application of biocomposite doped nanocrystalline magnesium oxide. *Udaya, A.; Judith Vijaya, J.; Umapathy, M. J.; Kennedy, L. J. J.* nanosci. and nanotech. 2013, 13, 3027. (Impact Factor: 1.338).

4. Biominerals doped nanocrystalline nickel oxide as efficient humidity sensor: A green approach. *Kennedy, L.J.; Magesan, P.; Judith Vijaya, J.; Umapathy, M.J.; Udaya, A.* *Mat. Sci. and Engineering B.* 2014,190, 13. (Impact Factor: 2.331).
5. Structural, optical and magnetic of properties of $Zn_{1-x}Mn_xAl_2O_4$ ($0 \leq x \leq 0.5$) spinel nanostructures by one-pot microwave combustion technique. *Theophil Anand, G.; Kennedy, L.J.; Udaya, A.; Judith Vijaya, J.* *Journal of Molecular Structure.* 2015, 1084, 244. (Impact Factor: 1.780).
6. Microwave combustion synthesis of $Co_{1-x}Zn_xFe_2O_4$ ($0 \leq x \leq 0.5$): Structural, magnetic, optical and vibrational spectroscopic studies. *Sundararajan, M.; Kennedy, L. J.; Judith Vijaya, J.; Udaya, A.* *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.* 2015, 140, 421. (Impact Factor: 2.653).
7. Synthesis of simple and novel biocomposites doped nanocrystalline tin oxide and its humidity sensing properties. *Udaya, A.; Kennedy, L.J.; Umapathy M.J.* *Journal of Measurement.* 2015, 67, 1. (Impact Factor: 1.742)
8. Electrical conductivity studies of nanoporous carbon derived from leather waste: Effect of pressure, temperature and porosity. *Niketha, K.; Kennedy, L.J.; Udaya, A.; Judith Vijaya.* *J. Journal of Nanoscience and Nanotechnology.* 2015, 15, 1. (Impact Factor: 1.338).
9. Microwave combustion synthesis of zinc substituted nanocrystalline spinel cobalt ferrite: structural and magnetic studies. *Sundarajan, M.; Kennedy, L.J.; Udaya, A.; Khadeer Pasha, S.K.; Judith Vijaya, J.; Steve Dunn.* *Materials Science in Semiconductor Processing.* 2015, 40, 1. (Impact Factor: 2.264).
10. Synthesis of Co-doped ZnO nanoparticles via co-precipitation: Structural, optical and magnetic properties. *Fabbiyola, S.; Kennedy, L.J.; Udaya, A.; Bououdina, M.; Dakhel, A.A.; Judith Vijaya, J.* *Powder Technology.* 2015, 286, 757. (Impact Factor: 2.759)
11. Effect of Fe-doping on the structural, optical and magnetic properties of ZnO Nanostructures synthesized by co-precipitation method. *Fabbiyola, S.; Kennedy, L.J.; Ratnaji, T.; Judith Vijaya, J.; Udaya, A.; Bououdina, M.* *Ceramic International.* 2016, 42, 1588. (Impact Factor: 2.758).

12. Optimization of biodiesel production from waste cooking oil by magnesium oxide nanocatalyst synthesized using coprecipitation method. *Ashok, A.; Kennedy, L.J.; Judith Vijaya, J.; Udaya, A.* Clean Technologies and Environmental Policy. 2018, 20, 1219. (Impact Factor: 2.337).

RESEARCH PAPERS ACCEPTED FOR PUBLICATION AND UNDER REVIEW

1. --

POSTERS AND PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL LEVEL

- Synthesis and characterization of plant ceramics doped tin oxide for humidity sensing application.
Udaya Aruldoss., Judith Vijaya, J., Umapathy., M. J. and Kennedy, L. J.
International conference on IEEE SENSORS 2011, 28 - 31 October 2011, University of Limerick, Ireland.
- Structural, optical, photoconductivity and humidity sensing properties of biocomposite doped Cobalt oxide.
Udaya Aruldoss., Judith Vijaya, J., Umapathy., M. J. and Kennedy, L. J.
International Conference and Expo on Materials Science & Engineering, October 22-24, 2012 Double Tree by Hilton Chicago-North Shore, USA
- Sol-gel synthesis and structural characterization of nano copper aluminate for the catalytic oxidation of benzyl alcohol.
Thinesh, K., Udaya Aruldoss., Kennedy, L. J. and Judith Vijaya, J.
International Conference on Recent Research Trends in Chemical Sciences on 2 June 2009, Vellore Institute of Technology (VIT University), Vellore.
- Humidity sensing properties of sol-gel derived pure and copper doped Lanthanum aluminate
Udaya Aruldoss, Manikandan. A., Kennedy, L. J., and Judith Vijaya, J.
National conferences on "Advances in nanomaterials in catalysis" organized by Department of Chemistry, Loyola College, Chennai, held on 18-19, December, 2010.
- Adsorptive removal of phenol using a nano-porous carbon
Udaya Aruldoss Seminar competition organized by Central Leather Research Institute, for Young Scientist on September 2007.

BOOKS PUBLISHED

1. --

CITATION INDICES DETAILS (REFER GOOGLE SCHOLAR FROM 2007-2015)

Publications	:	
In Journals	:	13 (International)
In Conferences	:	02 (Abroad)
Citations	:	106
h-index	:	6
i10-index	:	
Cumulative Impact factor	:	28.096

Author details

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Aruldoss, Udaya

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Poompuhar College (Autonomous), Department of Chemistry, Tamilnadu, India
 Author ID: 36699193900

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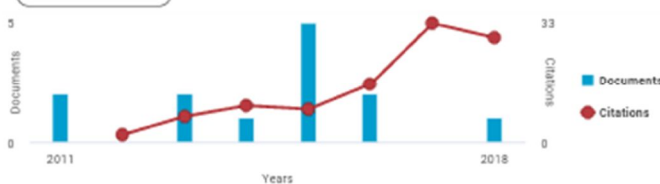
Other name formats:

Subject area:

Materials Science Engineering Chemistry Physics and Astronomy Chemical Engineering

Environmental Science

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Document title	Authors	Year	Source	Cited by
Optimization of biodiesel production from waste cooking oil by magnesium oxide nanocatalyst synthesized using coprecipitation method	Ashok, A., Kennedy, L.J., Vijaya, J.J., Aruldoss, U.	2018	Clean Technologies and Environmental Policy	0
Electrical conductivity studies of nanoporous carbon derived from leather waste: Effect of pressure, temperature and porosity	Konikkara, N., Kennedy, L.J., Aruldoss, U., Vijaya, J.J.	2016	Journal of Nanoscience and Nanotechnology	3
Effect of Fe-doping on the structural, optical and magnetic properties of ZnO nanostructures synthesised by co-precipitation method	Fabbiyola, S., Kennedy, L.J., Ratnaji, T., Aruldoss, U., Bououdina, M.	2016	Ceramics International	14
Microwave combustion synthesis of zinc substituted nanocrystalline spinel cobalt ferrite: Structural and magnetic studies	Sundararajan, M., Kennedy, L.J., Aruldoss, U., Vijaya, J.J., Dunn, S.	2015	Materials Science in Semiconductor Processing	16
Microwave combustion synthesis of $Co_{1-x}Zn_xFe_2O_4$ ($0 \leq x \leq 0.5$): Structural, magnetic, optical and vibrational spectroscopic studies	Sundararajan, M., Kennedy, L.J., Vijaya, J.J., Aruldoss, U.	2015	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	13
Structural, optical and magnetic properties of $Zn_{1-x}Mn_xAl_2O_4$ ($0 \leq x \leq 0.5$) spinel nanostructures by one-pot microwave combustion technique	Theophil Anand, G., John Kennedy, L., Aruldoss, U., Judith Vijaya, J.	2015	Journal of Molecular Structure	11

MEMBERSHIP IN BODIES ON EDUCATION AND NATIONAL DEVELOPMENT

1. Indian Carbon Society (Life Membership No. L M- 358)
2. Catalysis Society of India.
3. Senior member (101158) in Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES).
4. International Association of Advanced Materials (8310242911754)

POSITION HELD / LEADERSHIP ROLE PLAYED

1. Residential Councillor, College of Engineering Hostel, Guindy, Anna University, Chennai, from 2009-2012.
2. Project Assistant (Level I and II), Central Leather Research Institute (CLRI), Chennai-20, from 2006-2008.

INVITED GUEST LECTURES

1. NIL

TRAINING PROGRAMME

Orientation Course (UGC Sponsored)

Place : University of Madras, Chennai-5

Duration : 28 days from 10.05.17 to 06.06.17

Refresher Course in Environmental science (UGC Sponsored)

Place : --

Duration : --

Refresher Course in Chemistry (UGC Sponsored)

Place : University of Madras, Chennai-5

Duration : 21 days from 23.08.18 to 12.09.18

TEACHING EXPERIENCE FROM 1993 TO TILL DATE

Total Teaching Experience : 09 years 02 Months
Under Graduate : 09 years
Post Graduate : 05 years

PERSONAL DETAILS

Name : Dr. (Mrs.) Udaya A
Gender : Female.
Date of Birth : 24.10.1983
Age : 35 yrs
Place of Birth : Poompuhar, Melaiyur-609107.
Marriatal Status : Married.

Residential Address : 3/698 Vandalur Main Road
Kelambakkam-603103.
Official Address : Department of Chemistry
Poompuhar College (Autonomous)
Melaiyur-609107.

Email : udayaevs@yahoo.co.in

Web : --

Any other Information : --