



PROFILE

Name	Dr. A. JOHN JEEVAGAN	
Designation	<i>Assistant Professor (SF) PG Department of Chemistry Arul Anandar College Karumathur, Madurai, Tamil Nadu, India</i>	
Mobile Number	9944647846, 9047637018	
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Teaching Experience	UG: 6 years	PG: 5 Years



Objective

To be a part of an organization, grow in the process, have a sense of achievement in a challenging position in your esteemed organization.

Academic Chronicle - M.Sc., Ph. D.,

S. No	QUALIFICATION	INSTITUTION	UNIVERSITY	MONTH & YEAR OF PASSING	%
1	Ph. D,	Gandhigram Rural University	Gandhigram Rural University	October 2012	-
2	M.Sc. Chemistry	St. Joseph's College	Bharathidasan University	April 2006	74.69
3	B.Sc. Chemistry	Gandhigram Rural University	Gandhigram Rural University	April 2004	67.55

Course : **Doctor of Philosophy (Ph. D) in Chemistry (2008-2012)**

Supervisor : **Dr. S. Abraham John**, Director, Centre for Nanoscience and Nanotechnology, Department of Chemistry, GRI

Title of Thesis : "Synthesis and Characterization of Functionalized Metallophthalocyanines, Gold and Silver Nanoparticles and Their Modification on Electrodes for Sensing Applications " (**Awarded on 05-10-2012**)

❖ Post Doctoral Researcher, Department of Material and Life Chemistry, Kanagawa University, Japan

- ❖ Assistant Professor (FDP Faculty), PG Department of Chemistry, St. Joseph's College, Trichy

Present Position : Assistant Professor (SF), PG Department of Chemistry, Arul Anandar College, Karumathur, Madurai, Tamil Nadu, India (June-2017 onwards)

Professional Background

- ❖ Jul. 2015 – Jun. 2017 : Assistant Professor (FDP Faculty), Department of Chemistry, St. Joseph's College, Trichy
- ❖ Apr. 2013 – Mar. 2015 : Post Doctoral Researcher, Department of Material and Life Chemistry, Kanagawa University, Japan
- ❖ Aug. 2012 – Mar. 2013 : Assistant Professor, Department of Chemistry, RVS School of Engineering and Technology, Dindigul
- ❖ Apr. 2011 – June. 2012 : UGC-SRF Meritorious Fellow, Department of Chemistry, Gandhigram Rural Institute, Dindigul
- ❖ Dec. 2008 – Mar. 2011 : UGC-JRF Meritorious Fellow, Department of Chemistry, Gandhigram Rural Institute, Dindigul
- ❖ Apr. 2008 – June. 2012 : Research Scholar, Department of Chemistry, Gandhigram Rural Institute, Dindigul
- ❖ Feb. 2007 – Mar. 2008 : Junior Chemist, SGS India Pvt. Ltd, Tirupur
- ❖ Aug. 2006 – Jan. 2007 : Chemist Trainee, LSS Ayurvedic Pharmacy Limited, Dindigul

Awards and Honors

- ❖ Post-Doctoral Research Fellow by Kanagawa University, Yokohama, Japan.
- ❖ Senior Research Fellow (SRF-RFSMS (2010-2012)) by the University Grants Commission (UGC-SAP), New Delhi, India
- ❖ Junior Research Fellow (JRF-RFSMS (2008-2010)) by the University Grants Commission (UGC-SAP), New Delhi, India.

Research Experiences

- ✓ Synthesis and Characterization of Different Functionalized Metallophthalocyanine
- ✓ Synthesis and Characterization of Metallophthalocyanine Capped Gold and Silver Nanoparticles
- ✓ Fabrication of Thin Films by Self-Assembly and Electropolymerization
- ✓ Developed Sensors for Important Biomolecules, pH sensors
- ✓ Intermetallic Nanoparticles, Graphene Supported Nanoparticles, Quantum dots
- ✓ Semiconductor-Intermetallic Nanoparticles for Photocatalytic Applications, Fuel Cells

Area of Interest

- ✓ Synthesis of Macrocyclic Metal Complexes
- ✓ Thin film Fabrication – Chemically Modified Electrode – Electrocatalysis and Sensors
- ✓ Heterogeneous Catalysis – Photocatalysis – Photoelectrochemistry – Solar Energy Conversion
- ✓ Energy and Environmental Remediation Applications - Solar Cells

Instrumental skills

- UV-visible Spectrophotometer (JASCO-v630 and Perkin Elmer Lambda 35)
- FT-IR and ATR-FT-IR Spectrometer (JASCO FT-IR 460+)
- Handle all Electrochemical Techniques in Electrochemical Workstation (CHI model 643B, Austin, TX, USA)
- Medium Pressure Liquid Chromatography
- Handle Electrochemical Techniques in Electrochemical Workstation (Bio Logic SAS, model VMP3)
- X-ray Photoelectron Spectroscopy, XRD, Schlenk Line, Glow box
- Photocatalytic Reactor
- High Pressure Liquid Chromatography
- All Basic analytical instruments (pH, Conductivity and ion meter)

Analysis Skills

- UV-visible and FT-IR Spectra
- Electrochemical Analyzer
- ¹H NMR Spectra
- Atomic Force Microscope, X-ray Photoelectron Spectroscopy
- Transmission Electron Microscope, XRD
- Scanning Electron Microscope (SEM)

Computer Skills

- ✓ Post Graduate Diploma in Computer Application, Chem Draw

Publications in International Journals

1. Green synthesis of silver nanoparticles using *Biophytum sensitivum* extract and its electrocatalytic activity towards dioxygen reduction
M. Kavitha, S. Jeyaraj, P. Muthukumar, **A. John Jeevagan**, *Materials today: Proceedings*, <https://doi.org/10.1016/j.matpr.2021.02.605>, (Impact factor: 0.657)
2. Enhancement of the electrocatalytic oxygen reduction reaction on Pd₃Pb ordered intermetallic catalyst in alkaline aqueous solutions
A. John Jeevagan, Takao Gunji, Fūma Ando, Toyokazu Tanabe, Shingo Kaneko, Futoshi Matsumoto, *Journal of Applied Electrochemistry* 46 (7), (2016), 745-753 (Impact factor: 3.803)
2. Photocatalytic decomposition of various organic compounds over WO₃-supported ordered intermetallic PtPb co-catalysts
T. Gunji, **A. John Jeevagan**, M. Hashimoto, T. Nozawa, T. Tanabe, S. Kaneko, M. Miyauchi, F. Matsumoto, *Applied Catalysis: B (Environmental)* 181, (2016), 475-480, (Impact factor: 7.435)
3. Enhancement of Alkaline Ethanol Oxidation on Ordered Intermetallic Pt₃Pb-PtPb Core-Shell Nanoparticles Prepared by Converting Nanocrystalline Metals to Ordered Intermetallic Compounds
T. Gunji, T. Tanabe, **A. John Jeevagan**, S. Usui, T. Tsuda, S. Kaneko, G. Saravanan, H. Abe, F. Matsumoto, *Journal of Power Sources*, 273, (2015), 990-998. (Impact factor: 5.211)

4. Visible Light-Induced Decomposition of Organic Compounds on WO₃-Loaded PtPb Cocatalysts
T. Gunji, T. Tsuda, [A. John Jeevagan](#), M. Hashimoto, T. Tanabe, S. Kaneko, M. Miyauchi, G. Saravanan, H. Abe, F. Matsumoto, *Catalysis Communications*, 56, (2014) 96-100. (Impact factor: 3.320)
5. Self-assembled monolayer of 2,9,16,23-tetrahydroxythiophenylphthalocyanato-cobalt(II) on gold electrode and its electrocatalytic activity towards dioxygen reduction
[A. John Jeevagan](#) and S.A. John, *Journal of Electroanalytical Chemistry*, 713 (2014) 77-81. (Impact factor: 2.871)
6. Electrochemical determination of guanosine 5'-monophosphate using the electropolymerized film of nickel(II) phthalocyanine modified glassy carbon electrode
[A. John Jeevagan](#) and S.A. John, *Electrochimica Acta*, 95 (2013) 246-250. (Impact factor: 4.502)
7. Synthesis, characterization and electrocatalytic application of non-peripheral amine substituted nickel(II) phthalocyanine capped gold nanoparticles
[A. John Jeevagan](#) and S.A. John, *RSC Advances*, 3 (2013) 2256-2264. (Impact factor: 3.708)
8. Growth of gold nanorods in solution and on ITO and Au substrates using non-peripheral amine functionalized nickel(II) phthalocyanine capped gold nanoparticles as a seed solution
[A. John Jeevagan](#), M. Amal Raj and S.A. John, *RSC Advances*, 3 (2013) 870-878. (Impact factor: 3.708)
9. Electrochemical determination of caffeine in the presence of paracetamol using a self-assembled monolayer of non-peripheral amine substituted copper(II) phthalocyanine
[A. John Jeevagan](#) and S.A. John, *Electrochimica Acta*, 77 (2012) 137-142. (Impact factor: 4.502)

10. Electrochemical sensor for guanine using a self-assembled monolayer of 1,8,15,22-tetraaminophthalocyanatonickel(II) on glassy carbon electrode
[A. John Jeevagan](#) and S.A. John, *Analytical Biochemistry*, 424 (2012) 21-26.
(Impact factor: 2.305)
11. Electrochemical determination of L-methionine using the electropolymerized film of non-peripheral amine substituted Cu(II) phthalocyanine on glassy carbon electrode
[A. John Jeevagan](#) and S.A. John, *Bioelectrochemistry*, 85 (2012) 50-55.
(Impact factor: 3.870)
12. Two-step Microwave Synthesis of Highly Dispersed Ordered Intermetallic PtPb Nanoparticles on Carbon Black
[A. John Jeevagan et al.](#), *ECS Transactions*, 58 (21) (2014) 23-31
13. Electrocatalytic Oxygen Reduction and Water-Oxidation on Transition Metal Ions-Doped MnO₂, RuO₂ and IrO₂ in Alkaline Aqueous Solutions
[A. John Jeevagan et al.](#), *ECS Transactions*, 58 (20) (2014) 9-18
14. Stable charge/discharge cycle performance of a LiFePO₄ cathode prepared with a carboxymethyl cellulose binder
[A. John Jeevagan and](#) Co-workers, *ECS Transactions*, 58 (25) (2014) 19-25
15. Photocatalytic Activity of Pt₃Ti/WO₃ Photocatalyst under Visible-Light Irradiation
[A. John Jeevagan and](#) Co-workers, *ECS Transactions*, 61(26) (2014) 17-224
16. Site-Selective Deposition of Ordered Intermetallic PtPb Nanoparticle Co-Catalysts on WO₃ Surfaces to Enhance Photocatalytic Activity
[A. John Jeevagan and](#) Co-workers, *ECS Transactions*, 61(22) (2014) 55-59
17. Photocatalytic Activity of Pd-Au Alloy Nanoparticle Co-catalyst/TiO₂ for Acetic Acid Decomposition
[A. John Jeevagan et al.](#), *ECS Transactions*, 64 (2014).

Seminars/Workshops/Conferences (National/International)

1. Poster Presented in 11th CRSI National Symposium in Chemistry, National Chemical Laboratory, Pune, Maharashtra, India, February 6th to 8th, 2009.
2. Poster presented in *National Conference on Recent Advances in Electroanalytical Techniques, Department of Chemistry, Gandhigram Rural Institute, Gandhigram*, February 25-26, 2010.
3. Oral presentation on a research paper entitled "Synthesis of Aminophthalocyanine Functionalized Gold Nanoparticles and Their Electrocatalytic Activity" at *National Seminar on Chemistry of Nanomaterials and Molecular Dynamics, Annamalai University*, December 30-31, 2010.
4. Participated in the "*National Workshop on Electroanalytical Techniques*", held on October 11-13, 2010 at *Department of Chemistry, Alagappa University, Karaikudi*.
5. Oral presentation on a research paper entitled "Electrochemical Determination of L-methionine using Electropolymerized Film of 3,3',3'',3'''-tetraaminophthalocyanatocopper(II) on Glassy Carbon Electrode" at *National Symposium on Electrochemical Science and Technology NSEST-2011, The Electrochemical Society of India, Indian Institute of Science, Bengaluru-12*. August 19-20, 2011.
6. Presented a poster on a research paper entitled "Electrochemical Sensor for Hydrazine using a Non-peripheral Amine Functionalized Phthalocyanine Capped Gold Nanoparticles Modified Electrode" at *Diamond Jubilee Symposium on Recent Trends in Chemistry (DJSRTC), Indian Institute of Technology, Kharagpur*, October 21-23, 2011.

7. Presented a poster on a research paper entitled "Two-step Microwave Synthesis of Highly Dispersed Ordered Intermetallic PtPb Nanoparticles on Carbon Black" at *224th ECS Meeting, San Francisco (October 27-November 01, 2013)*.
8. Oral presentation on a research paper entitled "Electrocatalytic Oxygen Reduction and Water-Oxidation on Transition Metal Ions-Doped MnO₂, RuO₂ and IrO₂ in Alkaline Aqueous Solutions" at *224th ECS Meeting, San Francisco (October 27-November 01, 2013)*.
9. Presented a poster on a research paper entitled "Photocatalytic Activity of PtAu/WO₃ Catalyst under Visible light Irradiation" at *Photocatalysis Symposium, Kanagawa University, Yokohama (November 27, 2013)*.
10. Presented a poster on a research paper entitled "Visible Light Driven Decomposition of Organic Compounds by Two Different CoCatalysts" at *225th ECS Meeting, Orlando (May 11-16, 2014)*.
11. Presented a poster on a research paper entitled "Synthesis of Pd-based Nanoparticles and its Photocatalytic Activity in Organic Compounds Decomposition" at *226th ECS Meeting, Orlando (May 11-16, 2014)*.
12. Oral presentation on a research paper entitled "Pd₃Pb Ordered Intermetallic Catalyst for Improved Electrocatalytic Oxygen Reduction Reaction in Alkaline Environment" at *ECSJ Fall Meeting, Hokkaido University, Sapporo, Japan (September 27-28, 2014)*.
13. Oral presentation on a research paper entitled "Synthesis of Reduced Graphene Oxides-Supported Binary Catalysts and its Electrocatalytic Activity" at *226th ECS Meeting, Cancun, Mexico (October 05-10, 2014)*.

14. Oral presentation on a research paper entitled "Enhancing Alkaline Ethanol Oxidation on Ordered Intermetallic Pt₃Pb-PtPb Core-Shell Nanoparticles Prepared by Converting Nanocrystalline Metals to Ordered Intermetallic Compounds" at *226th ECS Meeting, Cancun, Mexico (October 05-10, 2014)*.
15. Oral presentation on a research paper entitled "Facile Synthesis and Photocatalytic Activity of Visible Light Driven Dual-Cocatalysts Loaded Tin Oxide (Sn₃O₄) Semiconductor" at *ECSJ Spring Meeting, Yokohama National University, Yokohama, Japan (March 15-17, 2015)*.
16. Presented a poster on a research paper entitled "Facile Synthesis of Visible Light Driven Tin Oxide (Sn₃O₄) Supported Bimetallic Nanoparticles and its Photocatalytic Activity " at *ETCES, SN College, Madurai (February 07, 2020)*.
17. Presented a poster on a research paper entitled "Facile Synthesis of Visible Light Driven Tin Oxide (Sn₃O₄) Supported Pd-Au Alloy Nanoparticle and its Photocatalytic Activity " at *Energy Science and Technology, Periyar University, Salem (March 04, 2020)*.

Additional Responsibilities

- ❖ To co-ordinate and guided M.Sc., project students (11 students)
- ❖ Coordinator for IIT-JAM coaching class, SJC, Trichy

Reviewer for Journals

- ❖ Analytical Letters
- ❖ Materials Express
- ❖ Science of Advanced Materials

Personal Skills

- ❖ Self Confidence With Time Keeping
- ❖ Ability to Lead
- ❖ Tolerant and Flexible to Different Situations

Languages

- ❖ To Talk, Read and Write: English & Tamil