

CURRICULUM VITAE

Dr. K.ARUNSUNAI KUMAR

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Mobile No: +91-9655093285

Educational qualifications:

2010 – 2014

Ph.D. *Doctor of Philosophy in Chemistry*
Alagappa University, Karaikudi, Tamil Nadu, INDIA.

Thesis title: *“Studies on the electrodeposition of nano Ni-W alloy and its composite coating prepared by direct, pulse and pulse reverse current methods.”*

Supervisor: Prof. G.Paruthimal Kalaigan

2008 – 2009

M.Phil., *Master of Philosophy in Chemistry*
VHNSN College, Virudhunagar,
(Madurai Kamaraj University),
Tamil Nadu,

FIRST CLASS (“72.86%”)

Thesis title: *“Photo oxidation of 1-naphthol by solar radiation catalyzed by some semiconductors”*

2006– 2008

M.Sc. *Master of Science in Chemistry*
VHNSN College, Virudhunagar,
(Madurai Kamaraj University),
Tamil Nadu,

FIRST CLASS (“69.89%”)

2003– 2006

B.Sc. *Bachelor of Science in Chemistry*
VHNSN College, Virudhunagar,
(Madurai Kamaraj University),
Tamil Nadu,

FIRST CLASS ("64.23%")

Awards and fellowships:

- CSIR- Senior Research Fellow – 2010-2013

Research experience:

- **Senior Research Fellow:** CSIR Project September 2010 to February 2013.

Project title:

"Development of Nickel nanocomposite coatings by pulse plating"

Teaching experience

- ✓ As a **Assistant Professor in VHNSN College (Autonomous)**, Virudhunagar, from 29.02.2016 to till date.
- ✓ As a **Assistant Professor, VHNSN College (Autonomous)**, Virudhunagar, from 09.07.2014 to 28.02.2016 (SELF Finance).
- ✓ As a **Assistant Professor**, Unnamalai Institute of technology, Kovilpatti, Tuticorin (DT), from **August 2013 to 8-July 2014**. Engineering Chemistry I & II and Environmental Science classes were handled.
- ✓ During research in Alagappa University Karaikudi, **Physical Chemistry and Electrochemistry** papers classes were handled for M.Sc., Students.

M.Phil. Projects guided

S.No	Name of the students	Title of the projects	Year
1.	P.Pounraj	Studies on the electrodeposition of Cu-Al ₂ O ₃ composite coatings prepared by Direct current method	April 2015
2.	M.Jeyasakthi	Preparation, characterization and corrosion properties of copper based composite coatings	May 2017

Ph.D Ongoing : 3

Seminars attended:

- 1) One week course on Bio-medical diagnosis course held from February 19 – 23, 2007, Organized by department of Bio-Chemistry, VHNSN College Virudhunagar.
- 2) Attended a UGC sponsored national level conference on Recent Advances in the Study of Transition Metal Complexes, 13 & 14 August 2008, organized by VHNSN College, Virudhunagar, Tamilnadu, India.
- 3) Attended a two days lecture on frontiers in chemistry, held during 13-14 March 2009, Organized by National College, Tiruchirappali, Tamilnadu, India.
- 4) Attended a Department of Science and Technology, Govt. of India, Sponsored Faculty Development Programme in Entrepreneurship Development, 05.04.2011 to 19.04.2011 an Organisation of Ministry of Micro, Small and Medium Enterprises, Govt.of India, Yousufguda, Hyderabad, India.
- 5) Attended a national workshop on “Chemistry – our environment , Our life and our future” December 22 & 23 , 2011, organized by department of Industrial chemistry, Alagappa University, Karaikudi.
- 6) Participated a oral presentation competition “International year of chemistry on the theme chemistry – Our life , Our Future,” conducted by department of industrial chemistry , Alagappa University, Karaikudi.
- 7) Attended a Two days UGC-SAP sponsored National Workshop On Characterization Techniques, held during March 24 & 26, 2012, organized by School of Physics, Alagappa University, Karaikudi, India.
- 8) Participated a UGC sponsored national conference on modern trends in chemical sciences, July 18&19, 2014, organized by Department of chemistry, VHNSN College (Autonomous), Virudhunagar, Tamil Nadu.
- 9) Attended a three days academy lecture workshop on emerging trends in chemical sciences, held during October 09 to 11, 2015, sponsored by Indian Science Academies (IAS, INSA & NASI) organized by Department of chemistry, VHNSN College (Autonomous), Virudhunagar, Tamil Nadu.

List of Publications

1. **K.Arumsunai Kumar**, G.Paruthumal Kalignan and V.S.Muralidharan, "Pulse electrodeposition and characterization of nano Ni-W alloy deposits" **Applied Surface Science** 259 (2012) 231-237.
2. **K.Arumsunai Kumar**, P.Mohan, G.Paruthumal Kalignan and V.S.Muralidharan, "Electrodeposition and Characterization of Ni-ZrO₂ nanocomposite by direct and pulse current methods" *Journal of Nanoscience and Nanotechnology*, 12 (2012) 8364 – 8371.
3. **K.Arumsunai Kumar**, G.Paruthumal Kalignan and V.S.Muralidharan, "Pulse and Pulse Reverse Current Electrodeposition and Characterization of Ni-W-TiN Composites" **Science of Advanced Materials**, 4 (2012) 1039–1046.
4. P.Mohan, **K.Arumsunai Kumar**, G.Paruthumal Kalignan and V.S.Muralidharan, "N'-(4-Methoxy benzylidene) benzohydrazide as Effective Corrosion Inhibitor for Mild Steel in 1 M HCl" **Asian Journal of Chemistry**, 24 (12) (2012) 5821-5823.
5. **K.Arumsunai Kumar**, G.Paruthumal Kalignan, C.Marikannu and V.S.Muralidharan, "Role of Addition Agents in Copper Plating Bath- A Cyclic Voltammetric Study" **Advanced Materials and its Applications**, Page No. 623.
6. P.Mohan, **K.Arumsunai Kumar**, G.Paruthumal Kalignan and V.S.Muralidharan, "Improved electrochemical properties of chromium substituted in LiCr_{1-x}Ni_xO₂ cathode materials for rechargeable lithium-ion batteries" **Journal Solid State Electrochemistry** 16 (2012) 3695-3702.
7. **K.Arumsunai Kumar**, G.Paruthumal Kalignan and V.S.Muralidharan, "Direct and Pulse current electrodeposition of Ni-W-TiO₂ nanocomposite coatings" **Ceramic International** 39 (2013) 2827-2834.

8. **K.Arumsunai Kumar**, G.Paruthumal Kalignan and V.S.Muralidharan, “Enhanced corrosion resistance of Ni-W alloy with inclusion of TiN nanoparticle by electrodeposition method” **Transaction Institute of Metal Finishing** 91 (4) (2013) 202-206.
9. S.Karuthapandian **and K.Arumsunai Kumar**, “Solar radiation catalyzed by aerobic photooxidation of 1-naphthol on semiconductors” *Asian Journal of science and applied technology*, 3(2), 2014, 25-32.
10. **K.Arumsunai Kumar**, G.Paruthumal Kalignan and S.Senthilkumar, “Heat treatment of Ni-W-TiN nanocomposite coatings and its characterization” *A Treatise on emerging trends in bio-inorganic chemistry*, 2015, 159 -164.
11. **K.Arumsunai Kumar**, A.Sakthivel, A.Vijayakumar, A.Sarathi And S.Senthikumar, Preparation and characterization of Cu-ZrO₂ nanocomposite by DC Method. *Journal of advanced applied scientific research* 1, March -9, 2017, 54-61.

Research papers published in ISBN numbered books

S.No	Title of the book	Title of the paper	Page no & Year	Author's
1	Frontier areas in chemical sciences	Electrochemical and mechanical studies of electrodeposited Cu-SiO ₂ Composite coatings.	June 22 & 23, 163-169, 2017	K.Arumsunai Kumar , A.Sakthivel, A.Vijayakumar, A.Sarathi and S.Senthilkumar,
2	Frontier areas in chemical sciences	Preparation and characterization of graphene oxide/ poly (N-Methylaniline) nanocomposite,	June 22 & 23, 170-179, 2017	S.Senthilkumar, J.Arunadevi and K.Arumsunai Kumar ,
3	Frontier areas	Synthesis and structural investigation of Valine	June 22 & 23,	A.Vijayakumar,

	in chemical sciences	modified Zinc oxide nanoparticles	180-188, 2017	A.Sakthivel, N.Raman, A.Sarathi and K.Arumsunai Kumar
4	Frontier areas in chemical sciences	Synthesis, structural elucidation and DNA binding study of 4-aminoantipyrine incorporating mixed ligand copper complexes having amino acid as co-ligand,	June 22 & 23, 204-213, 2017.	A.Sakthivel, A.Vijayakumar N.Raman, A.Sarathi and K.Arumsunai Kumar
5	Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry.	Electrochemical studies of electrodeposited Cu-CeO ₂ composite coatings.	July-14-15, 10-15, 2017	K.Arumsunai Kumar , A.Sakthivel, A.Vijayakumar, A.Sarathi and S.Senthilkumar,
6	Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry.	Synthesis, structural elucidation and DNA binding study of 4-aminoantipyrine incorporating mixed ligand Zinc complexes having amino acid as coligand.	July-14-15, 26-33, 2017	A.Sakthivel, A.Vijayakumar N.Raman, A.Sarathi and K.Arumsunai Kumar ,
7	Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal	Preparation and characterization of graphene oxide/ polyaniline nanocomposite	July-14-15, 79-87, 2017	S.Senthilkumar, M.Manimegali and K.Arumsunai Kumar ,

	Chemistry.			
8	Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry.	Synthesis and structural investigations of Zinc oxide nanoparticles and amino acid modified Zinc oxide nanoparticles,	July-14-15, 152-158, 2017	A.Vijayakumar, A.Sakthivel, N.Raman, A.Sarathi and K.Arunsunai Kumar

One of the Editors in ISBN numbered book

1. Title of the book: Frontier areas in chemical sciences

Author's : N.Raman, A.Sarathi, A.Sakthivel, A.Vijayakumar and **K.Arunsunai Kumar**

ISBN number: 978-93-81723-69-2

Publisher: VHNSN College (Autonomous), Virudhunagar

2. Title of the book: Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry.

Author's : N.Raman, A.Sarathi, A.Sakthivel, A.Vijayakumar and **K.Arunsunai Kumar**

ISBN number: 978-93-81723-70-8

Publisher: VHNSN College (Autonomous), Virudhunagar

3. Title of the book: A treatise on Recent Advances in Bioinorganic and medicinal chemistry

Author's : N.Raman, A.Sarathi, A.Sakthivel, A.Vijayakumar and **K.Arunsunai Kumar**

ISBN number: 978-93-81723-63-0

Publisher: VHNSN College (Autonomous), Virudhunagar

List of Papers presented in the National / International Conferences

1. **K.Arunsunai Kumar**, V.S.Muralidharan and A.Subramania Development of electrodeposited Ni-SiO₂ Nanocomposite Coatings, “15th National Convention of Electrochemists (NCE-15)” February 18&19 2010, VIT University, Vellore, Tamilnadu, India.
2. S.Ramalingam, **K.Arunsunai Kumar** V.S.Muralidharan and A.Subramania Electrodeposition and Characterization of Corrosion Resistent Cu-MWCNT Nanocomposite Coatings, “National Seminar on New Frontiers in Chemistry (NSNFC-2010)” 15-16 March 2010, Annamalai University, AnnamalaiNagar, Tamilnadu, India.
3. **K.Arunsunai Kumar**, G.Paruthimal kалаignan, C.Marikannu and V.S.Muralidharan Role of Addition Agents in copper plating Bath - A Cyclic Voltammetric Study, “International conference on Advanced Materials and its Applications (ICAMA 2011)” March 4-5, 2011, Kalasalingam University, India.
4. **K.Arunsunai Kumar**, G.Paruthimal kалаignan, S.Kasturibai and V.S.Muralidharan Preparation and characterization of nano structured Nickel- Zirconia composite coatings, “National Conference on Recent trends in Green Synthesis (RTGS-2011) Synthesis (RTGS-2011) ” August 5-7, 2011, Alagappa University, Karaikudi, India.
5. P.Mohan, **K.Arunsunai Kumar**, G. Paruthimal Kалаignan and V.S.Muralidharan N’-(4-methoxybenzylidene) benzohydrazide as effective corrosion inhibitor for mild steel in 1M HCl, “International Conference on Global Trends in Pure & Applied Chemical Sciences (ICGTCS-2012)” March 3&4, 2012, Udaipur Rajasthan, India.

6. **K.Arumsunai Kumar**, G. Paruthimal Kalaignan and V.S.Muralidharan Pulse electrodeposition of Ni-W alloy deposits obtained from tri-ammonium citrate bath, "Recent Advances in Textile and Electrochemical Sciences (RATES 2012)" March 22&23, Alagappa University, Karaikudi.
7. **K.Arumsunai Kumar**, P.Mohan, G.Paruthimal Kalaignan and V.S. Muralidharan Preparation and characterization of oxide composite coatings by pulse current, "International conference on Society for Advancement of Electrochemical Technology (SAEST-10)" January 28-30, 2013, Hotel Green Park, Chennai.
8. P.Mohan, **K.Arumsunai Kumar**, G.Paruthimal Kalaignan and V.S. Muralidharan The inhibition effect of mildsteel corrosion in 1 M HCl using 1,4-bis (2-nitrobenzylidene) thiosemicarbazide inhibitor, "International conference on Society for Advancement of Electrochemical Technology (SAEST-10)" January 28-30, 2013, Hotel Green Park, Chennai.
9. **K.Arumsunai Kumar**, S.Sangeetha, G.Paruthimal Kalaignan and V.S. Muralidharan Corrosion resistance of Ni-W alloy with the inclusion of TiN by electrodeposition method, "International conference on Recent Advances in Textile and Electrochemical Sciences (RATES-2013)" March 21-23, 2013, Alagappa University, Karaikudi.
10. P.Mohan, **K.Arumsunai Kumar** and G.Paruthimal Kalaignan Structure and electrochemical performances of Co-Substituted $\text{LiCo}_y\text{Li}_{x-y}\text{Mn}_{2-x}\text{O}_4$ cathode materials for the rechargeable lithium ion Batteries, "International conference on Recent Advances in Textile and Electrochemical Sciences (RATES-2013)" March 21-23, 2013, Alagappa University, Karaikudi.

11. S.Kasturibai, **K.Arunsunai Kumar** and G.Paruthimal Kalaigan Structure and electrochemical Ni-SiO₂ composite coatings, "International conference on Recent Advances in Textile and Electrochemical Sciences (RATES-2013)" March 21-23,2013, Alagappa University, Karaikudi.
12. **K.Arunsunai Kumar**, G.Paruthimal Kalaigan, S.Senthilkumar and V.S. Muralidharan "Pulse and pulse reverse current electrodeposition of Ni-W-TiN nanocomposite coatings" Second national conference on advanced functional materials and applications (NCAFMA-2013)" March 22-23, 2013, Kalasalingam University, Krishnankoil, India.
13. A.Sakthivel, N.Raman, A.Vijayakumar and **K.Arunsunai Kumar**,"Benzotriazole metal complexes: synthesis, characterization and their biological activity" National conference on advances in coordination chemistry, December 19&20, 2014, Department of chemistry, Renganayagi Varatharaj College of Engineering , Salvarpatti, Sivakasi.
14. **K.Arunsunai Kumar**, G.Paruthimal Kalaigan and S.Senthilkumar, "Heat treatment of Ni-W-TiN nanocomposite coating and its characterization", SERB sponsored national seminar on emerging trends in Bio-inorganic chemistry (ETBIC-2015), January 23 & 24 , 2015, organized by department of chemistry, VHNSN College (Autonomous), Virudhunagar.
15. **K.Arunsunai Kumar**, P.Pounraj, A.Sakthivel and G.Paruthimal Kalaigan "preparation and characterization of Cu-TiO₂ nanocomposite by electrodeposition method", National seminar on frontier areas in chemical technologies (FACTs-2017), March 6&7, 2015, Department of chemistry, Alagappa University, Karaikudi.

16. M.Karuppasamy, S.Senthilkumar and **K.Arumsunaikumar**, "Covalent functionalization of graphene by simple nucleophilic substitution reaction" CSIR sponsored fourth national conference on advanced functional materials and its applications (NCAFMA-2015), April 02&03, 2015, Department of chemistry & IRC , Kalasalingam University, Krishnankoil, India.
17. B.Navaneeth Krishnan, S.Senthilkumar and **K.Arumsunaikumar**, "Covalent functionalization of graphene by simple nucleophilic substitution reaction" CSIR sponsored fourth national conference on advanced functional materials and its applications (NCAFMA-2015), April 02&03, 2015, Department of Chemistry & IRC , Kalasalingam University, Krishnankoil, India.
18. A.Vijayakumar, A.Sakthivel, A.Sarathi, N.Raman and **K.Arumsunai Kumar**, "Comparative study of biological activity of alanine and valine incorporated Schiff base transition metal complexes" International conference on Frontier Areas in Chemical Technologies (FACTs-2016), March 21-23, 2016, Alagappa University, Karaikudi.
19. A.Sakthivel, N.Raman A.Vijayakumar, **K.Arumsunai Kumar** and A.Sarathi, "Comparative study on the removal Congo Red using conducting polymers" International conference on Frontier Areas in Chemical Technologies (FACTs-2016), March 21-23, 2016, Alagappa University, Karaikudi.
20. **K.Arumsunai Kumar**, G.Paruthimal Kalaigan and S.Senthilkumar, "Corrosion resistance of heat treated Ni-W alloy and Ni-W- TiO₂ nanocomposite coatings" International conference on Frontier Areas in Chemical Technologies (FACTs-2016), March 21-23, 2016, Alagappa University, Karaikudi.

21. **K.Arunsunai Kumar**, A.Sakthivel, A.Vijayakumar A.Sarathi and S.Senthilkumar, "Synthesis, structural elucidation and DNA binding study of 4-aminoantipyrine incorporating mixed ligand copper complexes having amino acid as co-ligand" SERB Sponsored two days national seminar on Frontier areas in chemical sciences (FACS - 2017), June 22–23, 2017, Department of Chemistry, VHNSN College (Autonomous), Virudhunagar.
22. A.Sakthivel, A.Vijayakumar N.Raman, A.Sarathi and **K.Arunsunai Kumar**, "Synthesis and structural investigation of Valine modified Zinc oxide nanoparticles" SERB Sponsored two days national seminar on Frontier areas in chemical sciences (FACS -2017), June 22–23, 2017, Department of chemistry, VHNSN College (Autonomous), Virudhunagar.
23. **K.Arunsunai Kumar**, B.Tharmalingam A.Sakthivel, A.Vijayakumar, A.Sarathi and S.Senthilkumar, "Electrochemical and mechanical studies of electrodeposited Cu-SiO₂ Composite coatings" SERB Sponsored two days national seminar on Frontier areas in chemical sciences (FACS -2017), June 22–23, 2017, Department of chemistry, VHNSN College (Autonomous), Virudhunagar.
24. A.Sakthivel, A.Vijayakumar N.Raman, A.Sarathi and **K.Arunsunai Kumar**, "Preparation and characterization of graphene oxide/poly (N-Methylaniline) nanocomposite" SERB Sponsored two days national seminar on Frontier areas in chemical sciences (FACS -2017), June 22–23, 2017, Department of chemistry, VHNSN College (Autonomous), Virudhunagar.
25. S.Senthilkumar, S.Jeyamurugan and **K.Arunsunai Kumar**, "Electrochemical studies of electrodeposited Cu-CeO₂ composite coatings Two day national conference on

Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry, June 22–23, 2017, Department of chemistry, VHNSN College (Autonomous), Virudhunagar” .

26. A.Vijayakumar, A.Sakthivel, N.Raman, A.Sarathi and **K.Arumsunai Kumar**, “Synthesis and structural investigations of Zinc oxide nanoparticles and amino acid modified Zinc oxide nanoparticles”, Two day national conference on Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry, June 22–23, 2017, Department of chemistry, VHNSN College (Autonomous), Virudhunagar.
27. A.Sakthivel, A.Vijayakumar N.Raman, A.Sarathi and **K.Arumsunai Kumar**, “Synthesis, structural elucidation and DNA binding study of 4-aminoantipyrine incorporating mixed ligand Zinc complexes having amino acid as coligand”, Two day national conference on Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry, June 22–23, 2017, Department of chemistry, VHNSN College (Autonomous), Virudhunagar.
28. S.Senthilkumar, M.Manimegali and **K.Arumsunai Kumar**, “Preparation and characterization of graphene oxide/ polyaniline nanocomposite” Two day national conference on Recent developments in the applications of Transition Metal complexes in Bioinorganic and Medicinal Chemistry, June 22–23, 2017, Department of chemistry, VHNSN College (Autonomous), Virudhunagar.
29. A.Sakthivel, A.Vijayakumar N.Raman, A.Sarathi and **K.Arumsunai Kumar**, “Synthesis, structural elucidation of DNA binding study of 4-aminoantipyrine incorporating mixed ligand Zn(II) complexes” SERB and DST sponsored national

seminar on Nanomaterials in Environmental and Energy Applications, September 15&16, 2017. Department of Chemistry, SBK College, Aruppukottai.

30. A.Sakthivel, A.Vijayakumar N.Raman, A.Sarathi and **K.Arumsunai Kumar**, “Synthesis, structural elucidation and biological activity of 4-aminoantipyrine incorporating mixed ligand nickel complexes having amino acid as coligand” SERB and DST sponsored national seminar on Nanomaterials in Environmental and Energy Applications, September 15&16, 2017. Department of Chemistry, SBK College, Aruppukottai.
31. A. Sakthivel, A.Vijayakumar, and **K.Arumsunai kumar**, “ Synthesis characterization and study of biological activity of Schiff base 4-aminoantipyrine derivative and amino acid mixed ligand transition metal complexes”. International Conference on Innovative Trends in Chemical Sciences (ITCS-2019), organized by Devanga Arts College (Autonomous), Aruppukottai on February 2019.
32. A. Sakthivel, A. Vijayakumar, N.Raman, A.Sarathi and **K.Arumsunai Kumar** “Synthesis, spectroscopic characterization and antimicrobial study of pyrazolone and diimine incorporated Co(II), Ni(II), Cu(II) and Zn(II) complexes”. National seminar on Emerging Trends in Bioinorganic and Pharmaceutical chemistry (ETBPC-2019), organized by VHNSN college (Autonomous) Virudhunagar on February 2019.
33. A. Vijayakumar, A. Sakthivel, N.Raman A.Sarathi, and **K.Arumsunai Kumar**. “Synthesis characterization and DNA binding study of p-anisidine and acetophenone Schiff base transition metal complexes”, National seminar on Emerging Trends in

Bioinorganic and Pharmaceutical chemistry (ETBPC-2019), organized by VHNSN college (Autonomous) Virudhunagar on February 2019.

34. **K.Arunsunai Kumar**, A.Sarathi, A. Sakthivel, A. Vijayakumar and S.Senthilkumar, “Mechanical studies of silicon nitride incorporated copper composite coatings”, National seminar on Emerging Trends in Bioinorganic and Pharmaceutical chemistry (ETBPC-2019), organized by VHNSN college (Autonomous) Virudhunagar on February 2019.
35. A.Sarathi , N.Raman, A. Sakthivel, A. Vijayakumar, **K.Arunsunai Kumar** and D.Devipriya, “Simple preparation of enantiomeric Michael adducts of thiophenol to chalcones and their antimicrobial activities”, National seminar on Emerging Trends in Bioinorganic and Pharmaceutical chemistry (ETBPC-2019), organized by VHNSN college (Autonomous) Virudhunagar February 2019.
36. **K.Arunsunai Kumar**, G.Paruthimal Kalaigan and S.Senthilkumar, “Electrochemical studies of heat treated Ni-W alloy and Ni-W-SnO₂ nanocomposite coatings” National seminar on Emerging Trends in Bioinorganic and Pharmaceutical chemistry (ETBPC-2019), organized by VHNSN college (Autonomous) Virudhunagar on February 2019.
37. S.Senthilkumar, M.Kottaiselvi and **K.Arunsunai Kumar** “Development of graphene oxide /zinc oxide composite for technological applications, TEQIP-III, National conference on advanced functional material for energy conversion and storage devices, NCAFMEs – 2019, 3rd & 4th January – 2019. Department of Chemistry, Coimbatore Institute of Technology, Coimbatore.

38. S.Senthilkumar, R.Renugadevi, and **K.Arunsunai Kumar**, "Development of graphene oxide /copper oxide composite for antibacterial study", TEQIP-III, National conference on advanced functional material for energy conversion and storage devices, NCAFMES – 2019, 3rd & 4th January – 2019, Department of Chemistry, Coimbatore Institute of Technology, Coimbatore.
39. L.Ramgeetha, N.Raman and **K.Arunsunai Kumar** Synthesis and Characterization and Antimicrobial Screening Studies of Mixed Ligand Schiff base Complexes, International conference on recent advances in applied chemical sciences – 2019 (ICRAACS-2019) organized by the Department of Chemistry, Sree Sevugan Annamalai College, Devakottai, 06 September – 2019.
40. G..Kaniraja, M.Karthikeyan, M.Dhinesh Kumar, P.Ananthappan, **K.Arunsunai Kumar**, V.S.Vasanth and C.Karunakaran, Cytochrome c electrochemical detection using a molecularly imprinted poly(3,4-ethylenedioxythiophene) prepared on a disposable dual screen printed electrode. Indo- Malaysian Two-Day International E-Conference On Recent Trends in Natural Products Research and their Applications(RTNPRA-21) held on 16-17th September, 2021 School of Chemistry, Madurai Kamaraj University, Madurai.
41. G..Kaniraja, M.Dhinesh Kumar, M.Karthikeyan, **K.Arunsunai Kumar**, and C.Karunakaran, Electrochemical determination of non-enzymatic glucose using molecularly imprinted poly 3,4-ethylenedioxythipene.Indo-NorwegianInternational online Conference On Functional material for energy, environment biomedical applications (FARAON-2022) held on 02-04 February, 2022 Madurai Kamaraj University, Madurai.

Extension activities:

1. Participated in RYLA- Rotary youth leadership awards camp, October 13&14, 2007, conducted by VHNSN College, Virudhunagar, Tamilnadu.
2. Acted as a judge in science feast-14, October-19, 2014, KVS Matriculation Higher Secondary School, Virudhunagar, Tamil Nadu.

3. Acted as a judge in Usilampatty educational district school level science exhibition 2014-2015, October 29, 2014., held at government higher secondary school, kallikudi, virudhunagar, Tamil nadu.
4. Acted as a external examiner of VHNSN college (Autonomous) in conducting the +2 talent competitive exam – 2014 at the SHN Ethil Harvey GHSS, Sattur, exam centre on December 27, 2014, organized by department of chemistry, VHNSN College (Autonomous) Virudhunagar, Tamilnadu.
5. Acted as a judge in science feast-15, August-22, 2015, KVS Matriculation Higher Secondary School, Virudhunagar, Tamil Nadu.
6. Acted as a external examiner of VHNSN college (Autonomous) in conducting the +2 talent competitive exam – 2015 at the SHN Edward HSS, Sattur, exam centre on December 26, 2015, organized by department of chemistry, VHNSN College (Autonomous) Virudhunagar, Tamilnadu.
7. Served as a member of Board of studies of B.Voc. Environmental Assessment and Remediation VHNSN College (Autonomous),Virudhunagar, for the years 2015-2017.
8. Member of Board of Studies in the Department of Chemistry (for UG & PG courses), VHNSN College, (Autonomous), Virudhunagar (from 2014 onwards).
9. Served as the coordinator of our College Green Club. (for the years 2015 - 2019)
10. Served as organizing committee member for the “**Inspire Internship Programme- 2016**, Sponsored by DST, New Delhi, Organized by Department of Chemistry, VHNSN College, (Autonomous), Virudhunagar.
11. Served as Organizing Committee member of National Seminar on “**Recent Advances in Chemical Research (RACR)**” – January 2017 sponsored by UGC, NewDelhi, Organized by Department of Chemistry, VHNSN College (Autonomous), Virudhunagar.
12. Served as Organizing Committee member in the national seminar on “ **Recent Advances in Bio-inorganic and Medicinal Chemistry**” - February 2017 (RABAMCHEM 2017) sponsored by Association of Chemistry Teacher (ACT) and Royal Society of Chemistry (RSC), Organized by Department of Chemistry, VHNSN College (Autonomous), Virudhunagar.
13. Served as Organizing Committee member of national seminar on “**Frontier Areas**

in Chemical Sciences (FACS – June 2017) sponsored by SERB, NewDelhi , Organized by Department of Chemistry, VHNSN College (Autonomous), Virudhunagar.

14. Served as a organizing committee member in national seminar on **“Recent development in the applications of transition metal complexes in bioinorganic chemistry”** sponsored by ICMR-July 2017, Organized by Department of Chemistry, VHNSN College (Autonomous), Virudhunagar.
15. Served as a member for the **“Inspire Internship Programme”**- 2018.
16. Serving as the **National Service Scheme Programme Officer** (Unit No: 166). (from **2019 onwards**).
17. Serving as **Director for the College Scientific Instrumentation and Analytic Centre (CSIAC)** of our College. (from **2019 onwards**).
18. Served as Organizing Committee member for **Environmental and Water Safety Awareness Rally** jointly organized by our college NCC and NSS held on 13.12.2019 to 15.12.2019 (Virudhunagar-Aruppukottai-Tiruchuli-Narikkudi-Parthibanur-Thiruvadi-Karunkulam-Ramanathapuram-Virudhunagar).
19. Served as co-ordinator for **365 days tree sapling plantation** programme.
20. Served as one of the co-ordinator for **Parambariya Thiruvizha**.
21. Served as convener for organising guest lecture on **History of Silambam**.
22. Serving as member for **green initiatives**.

Personal

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I hereby declare that all the particulars furnished above are true, complete and correct to the best of my knowledge.

Yours Sincerely

(K Arunsunai Kumar)