Resume

Name : **DR. Y. ARTHOBA NAYAKA**
Father Name : YANJERAPPA
Date of Birth : 11-09-1971
Sex : Male
Nationality : Indian
Marital Status : Married
Languages known : Kannada, English & Hindi,
Designation : **SENIOR PROFESSOR**

Address : Department of Studies and Research in Chemistry, Kuvempu University, SHANKARAGHATTA, Shimoga District, Karnataka, India, 577 451.
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Educational Qualifications

Qualification	Name of the board/ University	Year of Passing	Subjects Studied	Class Obtained	% of Marks
SSLC	KSEE Board, Bangalore, Karnataka.	1988	Science, Maths, Social studies, Languages-Kannada, English and Hindi.	I Class	67.33
B.Sc.	Kuvempu University, Shimoga, Karnataka.	1995	Physics Chemistry and Mathematics.	I Class	70.00
M.Sc.	Kuvempu University, Shimoga, Karnataka.	1997	Chemistry	I Class/ I Rank	72.72
NET	CSIR-UGC	1997	Chemical Sciences	CSIR-JRF	-
SLET	KSETC Board, Bangalore	1997	Chemistry	-	-
Ph.D	Kuvempu University, Shimoga, Karnataka.	2002	Electrochemistry (Industrial Zinc Electroplating)	-	-

Teaching and Research Experience:

Designation	Subjects taken	Duration	Place of work
Guest Lecturer	Chemistry (Theory and Practicals)	One year 1997-1998	Department of PG Studies and Research in Chemistry, Kuvempu University, Shimoga Dist. Karnataka.
Lecturer	Chemistry (Theory and Practicals)	11-05-1998 to 31-12-2002	Department of PG Studies and Research in Chemistry, Kuvempu University, Shimoga Dist. Karnataka.
Senior Scale Lecturer	Chemistry (Theory and Practicals)	01-01-2003 to 10-05-2007	Department of PG Studies and Research in Chemistry, Kuvempu University, Shimoga Dist. Karnataka.
Reader	Chemistry (Theory and Practicals)	11-05-2007 to 10-05-2010	Department of PG Studies and Research in Chemistry, Kuvempu University, Shimoga Dist. Karnataka.
Associate Professor	Chemistry (Theory and Practicals)	11-05-2010 to 10-05-2013	Department of PG Studies and Research in Chemistry, Kuvempu University, Shimoga Dist. Karnataka.
Professor	Chemistry (Theory and Practicals)	11-05-2013 10-05-2023	Department of PG Studies and Research in Chemistry, Kuvempu University, Shimoga Dist. Karnataka.
Senior Professor	Chemistry (Theory and Practicals)	11-05-2023 to present	Department of PG Studies and Research in Chemistry, Kuvempu University, Shimoga Dist. Karnataka.

Research Experience: Since 1998.

Title of the Research Work:

Development and Optimization of Brighteners for Industrial Zinc Electroplating from Acid and Non-Cyanide Alkaline Baths.

Awards & Patents

Awards:

Gold Medal: Puranik Mathada Veeraiah Memorial Gold Medal for securing **I Rank** in M.Sc.

Best Paper Award: Studies on nanocrystalline zinc coating [31(4), 585-591, 2008]. This paper has been awarded the **MRSI Prize** for the **Best Paper** published in the Bulletin of Materials Science in the year 2008. 10-02-2009.

Amulya-2012 award: Appreciation Certificate given by the **Karnataka State Innovation Council & Department of Industries and Commerce, Govt. of Karnataka** for having filed an application entitled "Absolute Graphite Electrode System For Voltammetric Studies And Thereof (Patent Filling Number: 3512/CHE/2012) before the Indian Patent Office.

Nomination to Shanti Swarup Bhatnagar Prize: Nominated three times (2013, 2014 and 2015) by Kuvempu University for the prestigious **Shanti Swarup Bhatnagar Prize** for Science &Technology, Human Resource and Development, Govt. of India.

Patents:

Absolute Graphite Electrode System For Voltammetric Studies And Thereof (Patent Filling Number: 3512/CHE/2012) – Filed before the Indian Patent Office.
Granted: Patent No. 346059, 04.09.2020.

Companies/ Research Centers by Alumni:

Dr. Chathana, B.K.
Rohini Scientific – A Biotechnology Company,
Maratha Beedi, Narasimhaswamy Temple Road, Old Town
Bhadravathi – 577301
Email: rohiniscientific@gmail.com
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Dr. Kalachar, H.C.B.
DR. ARTHOS SOLUTIONS PRIVATE LIMITED,
Door No. 4-838, First Floor, Shivanagar, Dharmavaram, Anantapur, Andrapradesh, India-515671.

Research Collaboration:

DEPT. OF CHEMISTRY, KUVEMPU UNIVERSITY &
DR. ARTHOS SOLUTIONS PRIVATE LIMITED,
Door No. 4-838, First Floor, Shivanagar, Dharmavaram, Anantapur, Andrapradesh, India-515671.

Research Projects:

Sl. No.	Title of the Project	Funding Agency/ Head	Amount (Rs.)	Major/ Minor	P.I/ C.I	Remarks
01	The Effect of Aldehydes, Amines, & Ketones on Electrodeposition of Zinc from acid baths.	Kuvempu University, Shankaraghatta, Shimoga / UGC Unassigned Grants	15,000=00	Minor	P.I.	Completed
02	Solar energy based electrochemical recovery of heavy metals from industrial effluents-An eco-friendly process	University Grants Commission (UGC), New Delhi	6,48,00=00	Major	P.I.	1-4-2007 to 31-3-2010 Completed
03	Development of new pollution-free addition agents for industrial zinc plating.	University Grants Commission (UGC), New Delhi	3,47,600=00	Major	C.I.	1-4-2007 to 31-3-2010 Completed
04	Chemical and Electro-chemical Generation of ZnO, CuO, SnO_2, TiO_2, Fe_2O_3 and MgO nano-particles for the degradation of Textile Dyes from Industrial Effluents (Low-cost, Eco-friendly And Renewable Method)	DST, New Delhi	33,75,680=00	Major	P.I.	March 2009 to Feb. 2012 Completed
05	Tailoring of substituted metal phthalocyanines for solar energy harvesting	UGC, New Delhi	8,09,800=00	Major	C.I.	March 2010 to Feb. 2013 Completed
06	Generation of metal oxide Nanoparticles for ground Water purification – A low-Cost and eco-friendly Method.	VTU, Belgaum	19,11,000=00	Major	C.I.	Ongoing Dec 2010 to Nov. 2013 Completed
07	Generation of dye sensitized Transition metal doped semiconductors for efficient solar energy harvesting-A-Cost Method	SERB (DST), New Delhi	12,00,000=00	Major	P.I.	Completed 2013 – 2015
08	Two Days National Conferer On Exploring Innovative Research and Developments Chemical Sciences	SERB (DST), New Delhi	75,000=00	Minor	P.I.	Completed 2019

Ph.D. / M.Phil. Guidance

Ph.D. Guidance (Awarded):

Order number: KU:AC-4:64:3301:2003-2004 dated 26thAugust 2003

Sl. No	Name of the candidate	Research Topic / Reg. date and Reg. No./ Date of Award
1	Sachin, H.P.	Electro organic synthesis of some technologically important compounds **08-06-2004, 640 / 15-05-2007**
2	Ganesha Achary	Synthesis of electro active organic compounds for the surface modification of some industrially important metals **08-06-2004, 641 / 13-07-2007**
3	Shivakumara, S.	Electrodeposition of zinc and its alloys for industrial Applications. **09-11-2005, 715 / 19-02-2008**
4	Muralidhara, H.B.	A study on the effect of electroactive compounds on electroplating of zinc and its alloys **28-02-2006, 833 / 04-12-2008**
5	John, A. Kallikat	Development of new synthetic methodologies towards the synthesis of some cinnamic esters and nitrogen heterocycles and their biological activity studies **21-10-2006, 951 / 09-02-2009**
6	Basavanna, S.	Electrodeposition of zinc alloys and composites for industrial applications **21-10-2006, 956 / 07-12-2009**
7	Sheela, T. (Under UGC Project)	Preparation of Nanoparticulate Metal oxides and Hydroxides and their Application in the Removal of Toxic Heavy Metal Ions from Wastewater **KU/EB/Ph.D-143/049/2012, 21-03-2012.**
8	Kalachar, H.C.B.	Electrochemical investigation of aminoacids, peptides and proteins for their neurotransmitt-ing activity **KU/EB/Ph.D.-57/6486/2012, 14-08-2012**
9	Vishwanatha, R. (Under DST Project)	Preparation of metal oxide nanoparticles as materials for solar energy harvesting devices **KU/EB/Ph.D.-256/14972/2012-2013, 06-03-2013**
10	Chethan, B.K.	Voltammetric studies on biologically important organic compounds available in commercial samples and in plant extracts. **KU/EB/Ph.D.-256/14972/2012-2013, 06-03-2013**
11	Vidyasagar, C.C.	Synthesis and Characterization of semiconducting nanoparticles for voltaic cells. **KU/EB/Ph.D.-145/14971/2012-2013, 06-03-2013**
12	Venkatesha, T.G. (Under DST Project)	Generation of nanomaterials and their application for the removal of organic water pollutants. **KU/EB/Ph.D.-145/14971/2012-2013, 06-03-2013**

13	Naveen Kumar, T.	Kinetic and mechanistic studies of some biologically important molecules by analytical techniques. **Reg.: 2009.** **Award.: KU/EB/Ph.D.,CHE:07(15)/1284/2019-2020, 04-05-2019.**
14	Deepa, K.	Synthesis of Nano/Micro structured metal oxides and development of corrosion resistant coatings. **Reg. 2015.** **Award: KU/EB/Ph.D.-1/Che:203:10476: 2019-2020, 20.02.2020.**
15	Yathisha, R.O.	GENERATION OF DYE-SENSITIZED TRANSITION METAL DOPED SEMICONDUCTORS FOR EFFICIENT SOLAR ENERGY HARVESTING-A LOW-COST METHOD. **Reg.: 2015.** **KU/EB/Ph.D-1/:Che:225:11116:2019-2020, 04-03-2020.**
16	Manjunatha, P.	DEVELOPMENT OF MODIFIED ELECTRODES FOR THE ELECTEROCHEMICAL INVESTIGATION OF BIOLOGICALLY IMPORTANT MOLECULES. **Reg.: 2012.** **KU/EB/Ph.D-1/:Che:1(09):11286:2019-2020, 10-03-2020.**
17	Purushothama, H.T.	Electrochemical Studies on Cardiovascular Drugs and Antidepresents using Modified Electrodes. **Regn.: 206/ 18-02-2015** **Award: KU/EB/Ph.D-1/:Che:206:632:2019-2020, 18-06-2020.**
18	Basavarajappa, K.V.	SYNTHESIS OF NOVEL COUMARIN DYES FOR EFFICIENT DYE-SENSITISED SOLAR CELLS (DSSCs) APPLICATION. **Reg.: KU/AC/Ph.D:AC-02/3124: 2015-16, Date: 28.08.2015.** **Award: 2020**
19	Thippeswamy, D.	Development of Low-Cost and Non-Toxic Aqueous Electroplating Baths for Composite Coatings. **Reg.: KU/CHE/Ph.D./PRG-04/ 31-01-2012.** **Award: 06.02.2021**
20	Vinay, M.M	Development of Electrochemical Sensors for the Investigation of Anti-Pyretics and Anti-Bacrerial Drugs in Pharmaveuticals and Real Samples. **Award: 2021**

Ph.D. Co-Guidance (Awarded):

Sl.No	Name of the candidate	Research Topic / Reg. date and Reg. No./ Date of Award
1	Shankaresha, N.	Design of organic molecules as surface modifiers for some industrially important metals **12-04-2004, 583 /** (Awarded)
2	Praveena, B.M.	A study on the effect of addition agents on electrodeposition and corrosion of zinc **23-03-2006, 819 /** (Awarded)
3	Prakash Kariyajjanavar	Chemical and Electrochemical degradation of industrial effluents **14-06-2007, 1028 /** KU/EB/Ph.D-1028/12266/ 2011-12, Date: 30.01.2012./ (Awarded)
4	Deepa, M.B.	Cyclic voltammetric studies of some bioactive molecules at modified electrodes/ (Awarded)
5	Veena, M.S.	Kinetics Study of Important Biological Compounds Using Voltammetry and Spectroscopic Techniques **November 2010, 1KS10PGN01Date: 09-01-2018 Awarded: 2018**
6	Rangaswamy, P.	Low-Temperature Synthesis of Fluorophosphates Electrode Materials for Rechargeable Lithium and Sodium Ion Batteries. **(Awarded)**

Ph.D. Guidance (Working):

Sl. No	Name of the candidate	Research Topic / Reg. date and Reg. No./ Date of Award
1	Pradeepa, E.	Electrochemical studies on biologically important electroactive compounds 634/28.01.2020.
2	Gireeshkumar, B.C.	Flow Batteries 860/03.09.2021.
3	Sharath Kumar B.	Electrochemical energy systems 861/03.09.2021.

M.Phil. Guidance (Awarded):

Sl. No	Name of the candidate	Research Topic / Reg. date Reg. No./ Date of Award
1	D. Thippeswamy	Electrodeposition of Zn-Mn alloy for industrial applications. **01-08-2007 / 09-02-2009**
2	S. Manjunatha	Electrodeposition of Zn for industrial applications from acid bath. **01-08-2007 / 12937, 09-02-2009**

3	Nagabhushana	Electrodeposition of Zn-Ni alloy from acid sulphate bath. **01-08-2007 / 12940, 09-02-2009**
4	S. Bindiya	Electrochemical Deposition of Composite Coating and Their Characterization **KU/EB/M.Phil /0825/ 26-11-2010.**

Publications (as on 20-06-2024) : 160

Citations (as on 20-06-2024) : 4387

H-Index (as on 20-06-2024) : 33

i10-Index (as on 20-06-2024) : 77

Scopus Indexed (as on 20-06-2024) : 117

Book Citations : 06

Research gate total Reads (as on 20-06-2024) : 23,835

List of Papers Published:

Sl. No.	Title of the paper, Authors, ***Journal,*** **IF, Vol./ Ed.,** ***Page No.,*** **Year.**
160	Development of an inexpensive poly(MO)/CNT@PGE for voltammetric investigation of Methocarbamol in presence of Levofloxacin, E. Pradeepa, **Y. Arthoba Nayaka**, H.R. Sahana, ***Inorganic Chemistry Communications*****, 161 (2024) 112041. I.F.(3.8), https://doi.org/10.1016/j.inoche.2024.112041.**
159	Development of simple and effective poly methyl orange modified pencil graphite electrode for the voltammentric investigation of aminotriazole in presence of 2,4-dichlorophenoxyacetic acid, H.R. Sahana, **Y. Arthoba Nayaka**, E. Pradeepa, ***Microchemical Journal*****, 199 (2024) 109959. I.F.(4.8), https://doi.org/10.1016/j.microc.2024.109959.**
158	Electrochemical investigation of an anticancer drug 5-Fluorouracil in the presence of Theophylline using low-cost and disposable poly(GLY) modified pencil graphite electrode, E. Pradeepa, **Y. Arthoba Nayaka**, H.R. Sahana, ***Analytical Biochemistry*****, 2024 (687) 115451. I.F.(2.8), https://doi.org/10.1016/j.ab.2023.115451**
157	Synthesis of Cauliflower-like Reduced Graphene Oxide Nickel Sulfide Nanocomposites for the Vanadium Redox Battery and Supercapacitor Application, Sharath Kumar Basavaraju, Gireeshkumar Basavaraj Chavati, **Arthoba Nayaka Yanjerappa**, Krishna Venkatesh, Manne Venkateswarlu, and Handanahally Basavarajaiah Muralidhara, ***ACS Applied Electronic Materials*****, xx (xx) xxxx. I.F (4.494), https://doi.org/10.1021/acsaelm.3c00426**
156	Improving energy storage efficiency through carbon doping of niobium oxide nanomaterials derived from areca husk in redox flow batteries and supercapacitors, B.C. Gireeshkumar, B. Sharath Kumar, **Y. Arthoba Nayaka**, H.B. Muralidhara, Krishna Venkatesh, A. Ramadas, ***Journal of Energy Storage***, **71 (2023) 108139. I.F(8.90), https://doi.org/10.1016/j.est.2023.108139**
155	Solvent free Synthesis of 2-[(5-methyl1,3-benzoxazol-2-yl)sulfanyl] Acetohydrazide Derivatives as Novel Antimicrobial and Antitumor Agents, J. Paveendra, H.M. Vagdevi, D. Thippeswamy, **Y. Arthobha Nayaka**, ***Journal of Pharmaceutical Research International***, **35 (2023) 36-45. DOI: 10.9734/JPRI/2023/v35i137368**
154	Sensitive and selective determination of vanillin in the presence of dopamine and uric acid using low-cost and trouble-free pencil graphite electrode modified with methyl orange, E. Pradeepa, **Y. Arthoba Nayaka**, N.R. Manjushree, ***Materials Chemistry and Physics*****, 296 (2023) 127180. I.F(4.77), https://doi.org/10.1016/j.matchemphys.2022.127180**
153	Combustion synthesis of Pr_6O_{11} nanoparticles as an effective and sensitive sensor for detection of vanillin in the presence of uric acid, E. Pradeepa, **Y. Arthoba Nayaka**, ***Chemical Data Collections*****, 41 (2022) 100917. Scopus (Elsevier), https://doi.org/10.1016/j.cdc.2022.100917**
152	Cerium oxide nanoparticles via gel-combustion for electrochemical investigation of pantoprazole in the presence of epinephrine, E. Pradeepa, **Y. Arthoba Nayaka**, ***Journal of Material Science: Materials in Electronics***, **33 (2022) 18374-18388. I.F(2.77), https://doi.org/10.1007/s10854-022-08692-x**
151	Optoelectronic, DFT and current-voltage performance of new Schiff base 6-nitro-benzimidazole derivatives, K. Upendranath, Talavara Venkatesh, **Y. Arthoba Nayaka**, M. Shashank, G. Nagaraju, **Inorganic Chemistry Communications, IF(2.495), Vol. 139(2022) 109354, https://doi.org/10.1016/j.inoche.2022.109354**
150	Fabrication of reduced graphene oxide/ruthenium oxide modified graphite electrode for voltammetric

	determination of tryptophan, Mahesh Bhaskar Hegde, Kikkeri Narasimha Shetty Mohana, Ambale Murthy Madhusudhana, M.M. Vinay, Y. Arthoba Nayaka & Ningappa Kumara Swamy, ***Graphene and 2D Materials Technologies***, 6(2021) 25-34 (Springer), https://doi.org/10.1007/s41127-021-00042-8
149	Co-deposition of micro and nano-sized SnO_2 particles in the Zn-matrix composite coatings produced from a Zn-sulphate bath by electroplating, Deepa, K., Arthoba Nayaka, Y., Purushothama, H.T., Yathisha, R.O., ***Chemical Data Collections***, 32(2021) 100657, https://doi.org/10.1016/j.cdc.2021.100657
148	Development of electrochemical and optoelectronic performance of new 7-{[1H-indol-3-ylmethylidene] amino}-4-methyl-2H-chromen-2-one dye, Talavara Venkatesh, K. Upendranath and **Y. Arthoba Nayaka, *Journal of Solid State Electrochemistry*, Jan (2021), doi.org/10.1007/s10008-020-04892-9.**
147	Investigation the influence of Zn^{2+} doping on the photovoltaic properties (DSSCs) of MgO nanoparticles, R.O. Yathisha, **Y. Arthoba Nayaka**, H.T. Purushothama, P. Manjunatha, K.V. Basavarajappa, M.M. Vinay, ***Journal of Molecular Structure,* Vol. 1217 (2020) 128407.**
146	Development of Azure-B modified pencil graphite electrode as an electrochemical sensor for the investigation of Levofloxacin in pharmaceutical and biological samples, Vinay M.M., **Y. Arthoba Nayaka**, R.O. Yathisha, K.V. Basavarajappa, P. Manjunatha, H.T. Purushothama, ***Chemical Data Collections,* 28, 2020, 100441.**
145	Effect of solvents on structural, optical and electrical properties of ZnO nanoparticles synthesized by microwave heating route, R.O. Yathisha, **Y. Arthoba Nayaka, *Inorg. Chem. Commun.* 115 (2020) 107877.**
144	Development of Single Walled Carbon Nanotube-Molybdenum Disulfide Nanocomposite/Poly-ethylene Glycol Modified Carbon Paste Electrode as an Electrochemical Sensor for the Investigation of Sulfadiazine in Biological Samples, Matad Mallikarjunaiah Vinay, **Yanjerappa Arthoba Nayaka**, Kempugonapla Virupakshappa Basavarajappa, Puttaiah Manjunatha, Hanumasagara Thimmappa Purushothama, and Rangapura Onkarappa Yathisha, ***Anal. Bioanal. Electrochem*., Vol. 12, No. 2, 2020, 155-167.**
143	Optical and electrical properties of organic dye sensitized Cr–ZnO and Ni–CdO nanoparticles, R.O. Yathisha, **Y. Arthoba Nayaka**, ***SN Applied Sciences* (2020) 2:451.**
142	Optical, electrochemical and current− voltage characteristics of novel coumarin based 2, 4-dinitrophenylhydrazone derivatives, KV Basavarajappa, **Y Arthoba Nayaka**, HT Purushothama, RO Yathisha, MM Vinay, BJ Rudresha, KB Manjunatha, ***Journal of Molecular Structure*, 1199, 2020, 126946.**
141	Electrochemical Determination of Propranolol using Reduced Graphene Oxide Modified Carbon Paste Electrode**,** Hanumasagara Thimmappa Purushothama and **Yanjerappa Arthoba Nayaka, *Anaytical and Bioanalytical Electrochemistry,* 11 (3) 2019, 396-406.**
140	An electrochemical study of Atenolol using Patton and Reeder's modified pencil graphite electrode as an electrochemical sensor, H.T. Purushothama, **Y. Arthoba Nayaka**, K.V. Basavarajappa, R.O. Yathisha, P. Manjunatha, M.M. Vinay, ***International Journal of Environmental Analytical Chemistry*, 2019, 1-12.**
139	Pencil graphite electrode based electrochemical system for the investigation of antihypertensive drug hydrochlorothiazide: An electrochemical study, H.T.Purushothama, **Y. Arthoba Nayaka, *Chemical Physics Letters*, Vol. 734, 2019, 136718.**
138	Electrochemical determination of Chlorpromazine using L-Cysteine modified carbon paste electrode, H.T.Purushothama, **Y. Arthoba Nayaka**, P.Manjunatha, R.O.Yathisha, M.M. Vinay, K.V. Basavarajappa, ***Chemical Data Collections*, 23, 2019, 100268.**
137	Synthesis, characterization, optical, electrochemical and current-voltage characteristics of coumarin dyes, KV Basavarajappa, **Y Arthoba Nayaka,** R.O.Yathisha**,** P.Manjunatha, ***Journal of Fluorescence*, 5 (29) 2019, 1201-1211.**
136	Optoelectronic and current-voltage studies for novel coumarin dyes, KV Basavarajappa, Y Arthoba Nayaka, HT Purushothama, MM Vinaya, Albin Antony, P Poornesh, **International**

	Journal of Environmental Analytical Chemistry, 2019, 1-14.
135	Iron oxide (Fe_2O_3) nanoparticles modified carbon paste electrode as an advanced material for electrochemical investigation of paracetamol and dopamine, Vinay M M, **Y. Arthoba Nayaka,** , ***Journal of Science: Advanced Materials and Devices,* 4 (3) 2019, 442-450.**
134	OH functionalized Multi-Walled Carbon Nanotube modified electrode as electrochemical sensor for the detection of Aceclofenac, Vinay M.M., **Y. Arthoba Nayaka**, Purushothama H T, Yathisha R O, Basavarajappa K V & Manjunatha P, ***International Journal of Environmental Analytical Chemistry*, 2019, 1-12.**
133	Cetyltrimethylammonium bromide-gold nanoparticles composite modified pencil graphite electrode for the electrochemical investigation of cefixime present in pharmaceutical formulations and biology, P. Manjunatha, **Y. Arthoba Nayaka, *Chemical Data Collections*, 21, 2019, 100217.**
132	Single-walled carbon nanotubes-based electrochemical sensor for the electrochemical investigation of pantoprazole in pharmaceuticals and biological samples, P. Manjunatha, **Y. Arthoba Nayaka**, H.T. Purushothama, R.O. Yathisha, MM Vinay, ***Ionics*, 5 (25) 2019, 2297-2309.**
131	Effect of Vanadium Pentoxide (V_2O_5) on the Corrosion Protection Performance of Zn-Mn-V_2O_5 Composite Coating on Mild Steel, Dyamanna Thippeswamy, **Yanjerappa Arthoba Nayaka*** and Matad Mallikarjunaiah Vinay, ***Anaytical and Bioanalytical Electrochemistry,* 11 (3) 2019, 396-406.**
130	Role of the newly synthesized brightener in modification of surface properties of Zn-Ni alloy electrodeposited on steel substrate, Jyoti S. Kavirajwar, Basavanna Shivarudraiah, **Yanjerappa Arthoba Nayaka, *J. Electrochem. Sci. Eng,*. 9(3) (2019) 175-185.**
129	Study on the effect of Zn^{2+} doping on optical and electrical properties of CuO nanoparticles, R.O. Yathisha, **Y. Arthoba Nayaka**, P. Manjunatha, H.T. Purushothama, M.M. Vinay, K.V. Basavarajappa, ***Physica E: Low-dimensional Systems and Nanostructures*, 108 (2019) 257–268.**
128	Doping, structural, optical and electrical properties of Ni^{2+} doped CdO nanoparticles prepared by microwave combustion route, R.O. Yathisha**, Y. Arthoba Nayaka,** P. Manjunatha, M.M. Vinay, H.T. Purushothama, ***Microchemical Journal,* IF (2.745), 145, 630–641, 2019.**
127	Triclinic $LiVPO_4F/C$ cathode for aqueous rechargeable lithium-ion batteries, Rangaswamy Puttaswamy, Suresh Gurukar Shivappa, Mahadevan Kittappa Malavalli, **Yanjerappa Arthoba Nayaka, *Advanced Materials Letters,* 10(3), 193-200, 2018.**
126	Corrosion Inhibition Of Zinc In Hydrochloric Acid By A New Condensation Product, Ganesh Achary, **Y. Arthoba Nayaka**, ***Global Journal For Research Analysis*, IF (0), 7 (12) 2018, 115-117.**
125	One-pot Microwave Synthesis and Effect of Cu^{2+} ions on Structural Properties of Cu-ZnO Nano Crystals, C. C. Vidyasagara *, Gururaj Hosamanib , Prakash Kariyajjanavarc , R.O. Yathishad, **Y. Arthoba Nayaka**, ***Materials Today: Proceedings* 5, 22171–22180, 2018.**
124	Carbon-Nanotube-Encapsulated LiTiOPO4 Composite Electrode for Aqueous Rechargeable Battery Applications, Rangaswamy Puttaswamy, Gurukar Shivappa Suresh, Kittappa Malavalli Mahadevan, and **Yanjerappa Arthoba Nayaka, *ChemistrySelect*, IF(1.5), 3, 3056 – 3069, 2018.**
123	Pencil graphite electrode as an electrochemical sensor for the voltammetric determination of chlorpromazine, H.T. Purushothama, **Y. Arthoba Nayaka,** M.M. Vinay, P. Manjunatha, R.O. Yathisha, K.V. Basavarajappa, ***Journal of Science: Advanced Materials and Devices,* 3, 161-166, 2018.**
122	Synthesis of Copper Oxide Nano-Rods by Microwave-Assisted Combustion Route and their Characterization Studies, Yathisha R.O., and **Y. Arthoba Nayaka, *International Journal of Nanoelectronics and Material,* 11 (2), 233-240, 2018.**

121	Development of multi-walled carbon nanotubes modified pencil graphite electrode for the electrochemical investigation of aceclofenac present in pharmaceutical and biological samples, P. Manjunatha, **Y. Arthoba Nayaka**, B.K. Chethana, C.C. Vidyasagar, R.O. Yathisha, ***Sensing and Bio-Sensing Research*****, 17, 7–17, 2018.**
120	Electrochemical study of hydrochlorothiazide on electrochemically pretreated pencil graphite electrode as a sensor, H.T. Purushothama, **Y. Arthoba Nayaka**, ***Sensing and Bio-Sensing Research,* 16, 12–18, 2017.**
119	Development of Gold Modified Disposable Pencil Graphite Electrode for the Electrochemical Investigation of Acetaminophen Present in Pharmaceutical formulations and Biological samples, Manjunatha Puttaiah and **Arthoba Nayaka Yanjerappa,** ***Analytical & Bioanalytical Electrochemistry*****, 9 (7), 841-861, 2017.**
118	Structural, optical and electrical properties of zinc incorporated copper oxide nanoparticles: doping effect of Zn, R. O. Yathisha, **Y. Arthoba Nayaka**, ***Journal of Materials Science*****, IF(2.99), 53 (1), 678–691, 2018.**
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24	Electrochemical preparation of orthophenylenedi-amine on different cathodes in sulphuric acid H.P. Sachin, Ganesha Achary, S. Shivakumar, **Y. Arthoba Naik,** T.V. Venkatesha, ***Russ. J. Electrochem*., IF(0.442), 43(2), 204-210, 2007.**
23	Polynitroaniline as brightener for zinc-nickel alloy plating from non-cyanide sulphate bath. H. P. Sachin, Ganesha Achary, **Y. Arthoba Naik,** T V Venkatesha, ***B. Mater. Sci.*, IF(0.944), 30(1), 57-63, 2007.**
22	Study of Schiff's bases as surface modifiers for corrosion protection of copper in sulphuric acid. Ganesha Achary, H. P. Sachin, **Y. Arthoba Naik,** T V Venkatesha, ***Indian J. Chem. Technol.*, IF(0.373), 14, 16-21, 2007.**
21	Corrosion studies of carbon nanotubes – Zn composite coating. B.M. Praveen, T.V. Venkatesha, **Y. Arthoba Naik,** K. Prashantha, ***Surf. Coat. Tech.*, IF(2.135), 201, 5836-5842.**
20	Influence of condensation product of Chitosan and Vanillin on electrodeposition of Zinc. Ganesha Achary, S. Shivakumara, H.P. Sachin, **Y. Arthoba Naik,** T.V. Venkatesha, ***B. Electrochem*., IF(0.294), 22, 417-422, 2006.**
19	Effect of nitro-anilines on the corrosion of Steel in Sulphamic Acid. N. Shankaresha, **Y. Arthoba Naik,** T.V. Venkatesha, ***J.T.R. Chem.*, 13(2), 13-17, 2006.**
18	Effect of a condensation product of Glycyl-Glycine and Furfural on electrodeposition of zinc from sulphate bath. H.B. Muralidhara, **Y. Arthoba Naik,** T.V.Venkatesha, ***B. Mater. Sci*., IF(0.944), 29(5), 497-503, 2006.**
17	Electrodeposition of Zinc from Sulphate solution. S Shivakumara, H. P. Sachin, Ganesha Achary, **Y. Arthoba Naik,** T.V. Venkatesha, ***B. Electrochem*., IF(0.294), 371-377, 2006.**
16	Electrochemical reduction of nitroacetophenone on different metal cathodes in acidic ethanol medium. H.P. Sachin, Ganesha Achary, **Y. Arthoba Naik,** T.V. Venkatesha, ***B. Electrochem.*, IF(0.294), 22(6), 249-252, 2006.**
15	Chemical Treatment of Zinc by a new Chelating agent for Corrosion protection. Ganesha Achary, H.P. Sachin, **Y. Arthoba Naik,** T.V. Venkatesha, ***B. Electrochem.*, IF(0.294), 21(6), 241-245, 2005.**
14	Elctropolymerization of O-nitroaniline in Hydrochloric acid medium using Graphite Electrodes. H.P. Sachin, Ganesha Achary, **Y. Arthoba Naik,** T.V. Venkatesha, ***J.T.R. Chem.,* 12(2), 1-7, 2005.**
13	Acid zinc plating bath with a new brightener. **Y. Arthoba Naik,** T.V. Venkatesha, ***J.T.R. Chem.*, 12(2), 15-23, 2005.**
12	A new condensation product for zinc plating from non-cyanide alkaline bath. **Y. Arthoba Naik,** T.V. Venkatesha, ***B. Mater. Sci.,* IF(0.944), 28(5), *495-501,* 2005.**
11	Bright Zinc-Nickel Alloy plating from sulphate Bath. K.G. Kariyanna, **Y. Arthoba Naik**, T.V. Venkatesha, ***Transactions of the SAEST.*, 39, 39-43, 2004.**
10	Electrodeposition of Zinc-Nickel Alloy from Chloride Bath. K.G. Kariyanna, **Y. Arthoba Naik**, T.V. Venkatesha, ***B. Electrochem.,* IF(0.294), 20(1), 39-44, 2004.**
9	Electrodeposition of Zinc-Nickel Alloy From Sulphate-Chloride Bath. K.G. Kariyanna, **Y. Arthoba Naik**, T.V. Venkatesha, ***J. Indian Council of Chemists*, 20(2),**

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8	Electrodeposition of Zinc-Nickel Alloy from Sulphate-Chloride Bath. K.G. Kariyanna, **Y. Arthoba Naik**, T.V. Venkatesha, ***J.T.R. Chem.,* 10(2), 31-37, 2003.**
7	A New Brightener for Zinc Plating from Non-Cyanide Alkaline Bath. **Y. Arthoba Naik,** T.V. Venkatesha, ***Indian J. Engg. Mater. Sci.*, IF(0.277), 10, 318-323, 2003.**
6	Corrosion Resistance and Electrochemical Properties of Bright Zinc Deposits from Sulphate Baths **Y. Arthoba Naik**, T.V. Venkatesha, P. Vasudeva Nayak, ***Transactions of the SAEST.*, 37-2, 39-42, 2002.**
5	Electrodeposition of Zinc from Chloride solution. **Y. Arthoba Naik**, T.V. Venkatesha, P. Vasudeva Nayak, ***Turk. J. Chem.*, IF(0.756), 26, 725-733, 2002.**
4	A study on corrosion of steel and zinc in an electroplating acid baths. S.K. Rajappa, **Y. Arthoba Naik**, T.V. Venkatesha, ***B. Electrochem.*, IF(0.294), 17(11), 489-494, 2001.**
3	Effect of condensation product on bright zinc electrodeposition from sulphate bath **Y. Arthoba Naik**, T.V. Venkatesha, P. Vasudeva Nayak, ***Indian J. Chem. Technol.*, IF(0.373), 8, 390-39, 2001.**
2	Effect of Yeast Extract on Electrodeposition of zinc – Hull cell studies. **Y. Arthoba Naik**, T.V. Venkatesha, P. Vasudeva Nayak, ***J. Electrochem Soc. India.*, 49-4, 170-173, 2000.**
1	Electroplating of zinc from sulphate-chloride bath. **Y. Arthoba Naik**, T.V. Venkatesha, P. Vasudeva Nayak, ***B. Electrochem.,* IF(0.294), 16(11), 481-486, 2000.**

Best Papers/Highlighted Papers:

Sl. No.	Title of the paper, Authors, ***Journal,* IF, Vol./ Ed., *Page No.*, Year.**
1	Solid-state synthesis and effect of temperature on optical properties of Cu-ZnO, Cu-CdO and CuO C.C. Vidyasagar, **Y. Arthoba Naik,** T.G. Venkatesh, R. Viswanatha, ***Powder Technology*, 1.887, 214, 337-343, 2011.**
	Highlighted in AMETEK, (Industry News Provided by NewsEdge) Financial Services Front Page News, nanoparticles.**January 11, 2012. Most downloaded paper. Listed 07 out of Top 25 Hottest articles (Oct. to Dec. 2011, SciVerse, ScinceDirect).** **AMETEK, Inc., is a leading global manufacturer of electronic instruments and electrochemical devices with annual sales of 3.0 billion.**
2	*gem*-Dibromomethyl Aromatics: Efficient Aldehyde Equivalents in the Knoevenagel – Doebner Reaction. John Kallikat Augustine, **Y. Arthoba Naik**, Subba Poojari, Nagaraja Chowdappa, Bailur Sheena Sherigara, Kummara Areppa, ***Synthesis,* IF(2.572), 14, 2349-2356, 2009.**
	Highlighted as one in 200 leading Journals by ChemInform. (Pubget: ChemInform is a weekly Abstracting Service, delivering concise information at a glance that was extracted from about 200 leading journals).
3	Di-*tert*-butyl Dicarbonate: A versatile carboxylating reagent. John Kallikat Augustine, **Y. Arthoba Naik**, Veeramani Vairaperumal, Sharmila Narasimhan, ***Tetrahedron,* IF(2.869), 65, 134-138, 2009.**

	Highlighted in ***SYNFACTS*** under the heading "**Heighlights in Current Synthetic Organic Chemistry**". Synfacts 2009, 2, 0201-0201, Published online: 22-01-2009.
4	Studies on nanocrystalline zinc coating. H.B. Muralidhara, **Y. Arthoba Naik, B. Mater. Sci., IF(0.870), 31(4), 1-7, 2008.**
	The paper has been awarded the **MRSI Prize** for the **Best Paper** published in the Bulletin of Materials Science in the year 2008. 10-02-2009.
5	An electroactive Co-polymer as corrosion inhibitor for steel in sulphuric acid medium Ganesha Achary, **Y. Arthoba Naik** S. Vijay Kumar, T.V. venkatesha & B.S. Sherigara ***Applied Surface Sciences,* IF(1.436), 254, 5569-5573, 2008**.
	The above paper has been highlighted under the title "Research highlight" in natureINDIA Journal dated 10th June 2008 (www.nature.com, doi:10.1038/nindia.2008.219, 10-06-2008).
6	An unusual Reactions of Bezalaminoacetals in Tri-fluro acetic acid: Facile Synthesis of 2-Benzylpyrazines John A. Kalikat, **Y. Arthoba Naik,** Ashis Baran mandal, Umesh Kundapur, ***J. Org. Chem.***, **IF(3.959), 73, 1176-1179, 2008.**
	Highlighted as one in 200 leading Journals by ChemInform. (Pubget: ChemInform is a weekly Abstracting Service, delivering concise information at a glance that was extracted from about 200 leading journals)
7	gem-Dibromomethyarenas: A convenient substitute for noncommercial Aldehydes in the Knoevenagel-Doebner reaction for the synthesis of α, β- unsaturated carboxylic acids John A. Kalikat , **Y. Arthoba Naik,** Ashis Baran mandal, Nagaraja Chowdappa, &Vinuthan B. Praveen, ***J. Org. Chem.,* IF(3.959), 72, 9854-9856, 2007.**
	Highlighted as one in 200 leading Journals by ChemInform. (Pubget: ChemInform is a weekly Abstracting Service, delivering concise information at a glance that was extracted from about 200 leading journals).
8	Corrosion Behavior of Zn-TiO_2 Composite coating. B.M. Praveen, T.V.Venkatesha, **Y. Arthoba Naik,** K. Prashantha, ***Synth. React. Inorg. Metal-Org.*, IF(0.576), 37, 461-465, 2007.**
	Highlighted as one in 200 leading Journals by ChemInform. (Pubget: ChemInform is a weekly Abstracting Service, delivering concise information at a glance that was extracted from about 200 leading journals).

No. of Papers Presented: 147

Technical Referee/Reviewer for the Research Journals: 32

Invited/Special lectures delivered: 30

Conferences/Seminars/Workshops attended: 43

Convener for organizing Conferences / Cultural Activities:

Sl. No.	Title of the Seminar/ Workshop/Conference	Resource Persons	Participants	Year
1	One day National Seminar on **Nanotechnology – Past, Present and Future**	i) Prof. M.R. Gajendragad Formenr Vice-Chancellor, Kuvempu University ii) Prof. K.J. Rao, SSCU, IISc, Bangalore iii) Prof. K.C. Patil, IPC, IISc, Bangalore iv) Prof. Sampath, IPC, IISc, Bangalore v) Prof. Kulkarni, Pharmacy College Belagaum	B.Sc., M.Sc. and research students, College and University Teachers	4, April 2008
2	One day workshop on **Innovative Methods of Teaching** (Co-Coordinator)	Prof. M.R. Gajendragad Formenr Vice-Chancellor, Kuvempu University	UG Teachers, who specially involved in teaching for DDE students of Kuvempu University	28, Sept. 2010
3	Two day National Conference on **Social Relevance of Chemical Sciences**	i) Prof. P. Venkataramaiah Formenr Vice-Chancellor, Kuvempu University ii) Prof. V. Yegnaraman Director, CECRI, Karaikudi, Tamilnadu iii) Dr. P.M. Radhakrishna Provimi Animal Nutrition India Pvt. Ltd. Bangalore iv) Dr. Chandra Bajagur, Shell Technology Centre, Bangalore v) Dr. B.M. Veeresha, Shell Technology Centre, Bangalore vi) Dr. Vijaya Sarathy, General Electric Company, Bangalore vii) Dr. S. Shivaramayya, Syngene Int. Pvt. Ltd., Bangalore	UG Teachers, PG Teachers, Scientists from Industries, Research Scholars and PG Students	26 & 27, March 2011
4	National Conference on **Recent Advances in Chemical Science Research (RACSR-2015)**	i) Prof. P. Venkataramaiah Formenr Vice-Chancellor, Kuvempu University ii) Prof. S. Akheel Ahmed Formenr Vice-Chancellor, Yenapoya University,	UG Teachers, PG Teachers, Scientists from Industries, Research Scholars and PG Students	14 & 15, March 2015

		Mangalore iii) Prof. A. Venkataraman, Gulbarga University iv) Prof. K.R. Nagasundara, Bangalore University v) Dr. S. Sampath IPC Section, I.I.Sc., Bangalore vi) Dr. Manjunatha Badigar, Aurgenine Pvt. Ltd. vii) Dr. Dinesh, C, Aurgenine Pvt. Ltd.		
5	National Conference on **Exploring Innovative Research and Developments In Chemical Sciences (EIRDCS-2019)**	i) Prof. P. Venkataramaiah Formenr Vice-Chancellor, Kuvempu University ii) Dr. M.N. Sudheendra Rao Former Professor of Chemistry, IIT Madras. iii) Dr. P.M. Radhakrishna, Chemlife Innovations Pvt. Ltd, Doddaballapura, Bengaluru rural – 561203. iv) Dr. Veena Prasad, Scientist, Centre for Nano and Soft Matter Sciences, Bangalore. vi) Dr. Vijaya Sarathy, IP Strategy Leader – Exponential Markets and Externals, John F Welch Technology Center,Bangalore vi) Dr. S. Sampath, IPC Section, I.I.Sc., Bangalore vii) Dr. K.R. Prabhu, DOC, IISc, Bangalore. viii) Dr. S. Natarajan, Framework Solids Laboratory, Solid State and Structural Chemistry Unit, IISc, Bangalore	UG Teachers, PG Teachers, Scientists from Industries, Research Scholars and PG Students	1 & 2, March 2019

Convener for organizing Cultural Activities:

Sl. No.	Title of the Seminar/Workshop/ Conference	Chief Guests	Participants	Year
1	Two day Inter-department cultural activities **(Sahyadri**	-	PG Students of all the Departments, Jnana Sahyadri Campus.	2 & 3, Nov. 2010

	Sinchana)			
2	Three day Inter-College cultural activities **(Sahyadri Utsav - 2010)**	1) Prof. Basavalingaiah Former Director, Rangayana, Mysore. 2) Sri Hamsalekha Music Director, Kannada Film Industry, Bangalore	Inter-College Students from affiliated colleges	20 – 22, Nov. 2010
3	Two day Inter-department cultural activities **(Sahyadri Sirigandha)**	-	PG Students of all the Departments, Jnana Sahyadri Campus.	10 & 11, Oct. 2011
4	Three day Inter-College cultural activities **(Sahyadri Utsav - 2011)**	Shivamogga Subbanna	Inter-College Students from affiliated colleges	20 – 22, Nov. 2011

Books/Study Materials (DDE) Written: 08

Academic and Admistrative/ Trainings Assignments:

Orientation Programme/Refresher Course/Training Courses:

1. 24 Days Orientation Programme conducted by UGC-ASC, 23-04-2001 to 19-05-2001, Sri Venkateswara University, Tirupati, (AP).
2. UGC Refresher Course, 24-11-2004 to 14-12- 2004, Kuvempu University, Shankaraghatta, Shimoga.
3. UGC Refresher Course, 28-09-2007 to 18-10-2007, Sri Krishnadevaraya University, Anantapur, (AP).
4. Computer Hardware and Networking, Instrument Maintenance Facility (IMF) Scheme Center, 10-12, Oct. 2006. Kuvempu University, Shankaraghatta.

Life Member for Professional Bodies:

1. The Electrochemical Society of India, LF-79, I.I.Sc, Bangalore-12, India.
2. Indian Council of Chemistry, LF-761, Agra, India.
3. International Society of Teachers and Researchers in Chemistry (ISTRC), India
4. Indian Association for Crystal Growth, LF-442, Chennai, India.
5. Kuvempu University Teachers Association (KUTA).

BOS Chairman:

Chemistry (Post-Graduate), Chemistry (Under-Graduate), Kuvempu University, Shankaraghatta.
Chemistry (Under-Graduate), Sahyadri Science College, Shankaraghatta.

Doctoral Committee Member:

School of Chemical Scieces, Kuvempu University, Shankaraghatta.
Department of Chemistry, Manglore University, Konaje, Mangalore.

BOS Member:

Chemistry (Post-Graduate and Under-Graduate), Kuvempu University.
Chemistry (Post-Graduate), University of Mysore, Mysuru.
Chemistry (Post-Graduate), VSK University, Ballari.

BOE Chairman:

Chemistry (Post-Graduate), Chemistry (Ph.D./M.Phil Course Work), Kuvempu University, Shankaraghatta.

BOE Member:

1. M.Sc. in Chemistry and Organic Chemistry, Kuvempu University, Shankaraghatta.
2. M.Sc. (Hons), Sahyadri Science College, Shimoga.
3. M.Sc. in Chemistry, Karnatak University, Dharwad.
4. M.Sc. in Analytical Chemistry, Karnatak University, Dharwad.
5. M.Sc. in Medicinal Chemistry, SDM College, Ujire.
6. M.Sc. in Chemistry, Mangalore University, Mangalore.
7. M.Sc. in Chemistry, Mysore University, Mysuru.
8. M.Sc. in Chemistry, VSK University, Ballari.

Course Coordinator:

M.Sc. Chemistry, Directorate of Distance education, Kuvempu University.

Adminisrative Assignments:

Chairman	**:** Dept. of Studies and Research in Chemistry, Kuvempu University, 07.11.2013 to 21.01.2016. Dept. of Studies and Research in Chemistry, Kuvempu University, 14.08.2018 to till date.
Faculty Advisor	**:** P.G. Boys Hostel (Block-I), Kuvempu University.
ECA Convener	**:** 2010-2012.
Director	**:** Development and Projects, Development Section, Kuvempu University, 07-06-2011 to 13-10-2014.
Director	**:** School of Chemical Sciences, Kuvempu University 18-11-2019 to date 17.11.2021.
Academic Council Member	**:** Kuvempu University, 28-10-2021 to date (Two Years)
Member & Chairman	**:** College Affiliation Committee.
Member	**:** Faculty of Science and Technology, Kuvempu University, Shankaraghatta.

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