RESUME

S.CHANDRALEKA
Mobile: +91 9940693941
E-mail: lekasugumaran92@gmail.com.

Objective

To be a part of an educational organization that gives me challenges and opportuniti es to learn and update my knowledge in the development of the organization. Utilize my theoretical knowledge into practical experience and take up challenging assignments at entry level.

Teaching Experience

- 2017- 2018 - Worked as Guest Lecturer in Central Polytechnic College, Taramani,
- 2017-2023 -NEET Faculty(Cheimisty)(Part-Time) – NESTO Institute, Tnagar.
- 2011-12 - Primary Teacher, BKM School ,Tiruporur

Academic Credentials

2019- Present	Ph.D (Synopsis Submitted) , Department of Chemistry, Rajeswari Vedachalam College of Arts and Science, Chengalpet, Chennai, Tamil
2018-2019	M.Phil(80%), Department of Analytical Chemistry, University of Madras, Chennai, Tamil Nadu, India
2015-2017	M.Sc Chemistry (70%), Guru Nanak College Of Arts &Science, Chennai, Tamil Nadu, India.
2012 -2015	B.Sc Chemistry (65%), Guru Nanak College Of Arts &Science, Chennai, Tamil Nadu, India.
2011	D.TEd, Saradha Ramakrishna Institution, Birudhur,Vandavasi.
2009	HSC (Higher Secondary School) (73%), Government. girls. Hr. Sec School.
2007	SSLC (Secondary School Education) (75.2%) Government High School.

Research Experience

- Synthesis of Semi conducting metal oxide, Doped transition metal with different Concentrations.
- Synthesis and Characterization of Graphene Oxide (GO)
- Synthesis of Composite- Graphene based Composites by using hydrothermal Method.
- I have more than TWO YEARS of experience on working in the area of Graphene based Composites. With account to it, I also have Three Publications in the reputed journals.
- I have synthesized composites and evaluated them for electrochemical studies.
- Evaluation of semiconducting material - electrochemical impedance spectroscopy.
- Sensor Applications which ideally makes the material a suitable one for sensing the toxic gas detection
- Characterization of semiconducting metal oxide materials- EIS, XRD, AFM, SEM, TEM.
- Given Below the list of Papers Presented in International and National Conferences held within India

Project Work- PG

Synthesis and Characterization of Novel Dendrimers using Carbozole as Surface group by Click Chemistry, Department of Organic Chemistry, University of Madras, Guindy campus, Chennai.

Project work - M.Phil

Novel Gold Doped Zinc Oxide and Reduced Graphene Oxide Nano Composite for Selective Detection of H_2S at Room Temperature using Electrochemical Impedance Spectroscopy

Project work – Ph.D

Done consultancy project for Tata and Sons on the following topics

1. Determination of the concentration of CuSO4, SnSO4 and Fe in combined bath solution by electrochemical impedance spectroscopy

2. Analysis of the Blank (DM water) and various water samples with and without 33% in UREA solution by electrochemical impedance spectroscopy (50%Blank water samples of all system mixed with 50%DM water and 33% of urea in blank and 50%Blank water samples of all system mixed with %DM water and 33% of urea in blank)

3. Working on thesis titled **" Gadolinium Decorated Semiconducting Metal oxide and Graphene Oxide Composites for Ammonia Gas Sensing Application Using Electrochemical Impedance Spectroscopy**"

List of Publications

- Vanitha, C.; Abirami, R.; **Chandraleka, S**.; Kuppusamy, M. R.; Sridhar, T. M. Green Synthesis of Photocatalyst Hydroxyapatite Doped TiO2/GO Ternary Nanocomposites for Removal of Methylene Blue Dye. *Materials Today: Proceedings* **2023**. https://doi.org/10.1016/j.matpr.2023.02.354.

- Balasubramani, V., **Chandraleka, S**., Rao, T. S., Sasikumar, R., Kuppusamy, M. R., & Sridhar, T. M. (2020). Recent Advances in Electrochemical Impedance Spectroscopy Based Toxic Gas Sensors Using Semiconducting Metal Oxides. *Journal of The Electrochemical Society*, *167*(3), 037572. https://doi.org/10.1149/1945-7111/ab77a0

- Balasubramani, V., Ahamed, N., **Chandraleka, S**., Kuppusamy, M. R., & Sridhar, T. M. (2020). Highly Sensitive and Selective H2S Gas Sensor fabricated with β-Ga2O3/rGO. *ECS Journal of Solid State Science and Technology*. https://doi.org/10.1149/2162-8777/ab9a18

International & National Conference

- Modified ZnO/rGO nanocomposite for toxic gas sensing using EIS V. Balasubramani[1], **S. Chandraleka**, R. Sasikumar , S. Sureshkumar T. Subba Rao, and T.M.Sridhar*.. International Conference on Chemical Sciences and Nanomaterials (ICCSN-2019) to be held during 7th – 9th March 2019 at VIT, Vellore

- `Novel Zinc Oxide and Reduced Graphene Oxide Composites for Selective Detection of H2S at Room Temperature V. Balasubramani, **S.Chandraleka**, A. Nowshath Ahamed, D. Nandhakumar, M.Naveen Rooba Doss and T.M. Sridhar* . International Conference on Advances in Chemistry with Specific Reference to Catalysis, Sensors, Drug Delivery and Energy Materials, (ICACSEM- 2020) Department of Physical Chemistry, University of Madras, Guindy campus, Chennai. Jan 9-11 2020

Seminar And Training Programme Attended

- International Webinar on "21 Years of a European Synthetic Chemist in Japan" organized by the Post Graduate and Research Department of Chemistry with the support of DBT Star College Scheme, at Guru Nanak College Velachery Government of India on 16th July 2021.
- "International workshop on 3d printing" held from 09/04/2021 to 10/04/2021 organized by Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai, Society for Biomaterials and Artificial Organs India (SBAOI)-Chennai Chapter, Indian Society of Analytical scientists-Tamil Nadu Chapter & Abinnovus Consulting Private Limited-India
- Virtual Internship Program on Spectroscopy [VIPS-2021] Organized by Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai & Abinnovus Consulting Pvt. Ltd
- "Virtual Internship Program on Spectroscopy" from 23.08.2021 to 27.08.2021. She was exposed to the following spectroscopy techniques extensively in terms of both theory and analytical aspects during the internship program.
- Participated in the seven-day special camping programme "Healthy Youth for Healthy India" at "Nanmangalam" during 1 to 7 March 2013.
- One Day Workshop on "Instrumental Methods Of Analysis (OPIMA-2015)" Organized by The Department of Chemistry , Sathyabama University On (CCBD 2018) at Anna University, Guindy, Chennai on Saturday, 28th January 2015.
- Participated in the National Seminor on Recent Analytical and Characterisation Techniques (RACT-2017)
- One Day hands on Training on "Electrochemical Techniques" on November 30, 2018 Organized by Centre for Green Energy Technology, Madanjeet School of Green Energy Technologies Pondicherry University, Puducherry.
- Participated in the "National Seminor On Research Article Writing and Plagirism Checking " Organised by the Schol of compute science held on 7th february 2019 Tamil Nadu Open University , Chennai.

Awards and Prizes

- Awarded Best Paper Presentation in International Conference, CORCON 2022, organized by AMPP India Chapter and NACE International, held on 19th and 20th September 2022 at Udaipur, Rajasthan.
- Awarded as Student award for M.Tech from NIGIS international , Mumbai
- Awarded Proficiency prize for securing First place in Tamil during the academic year of 2012-2013 in university exam
- Awarded Proficiency Prize for Securing Second prize in Chemistry during the academic year 2012-2013.
- Awarded proficiency prize for being Class Representative in Department of Chemistry during the academic year of 2013-2014
- Awarded of appreciation for being Class Representative during the year of 2014-2015
- Captivated the audience in the inter Colligiate Meet "Vaigai Paasarai-2014" by Participating in the event Thanithamizh Ariga held on 23rd january 2014 organized by Department of Tamil at Asan Memorial College of Arts &Science , Chennai secured First prize
- Participated and Won prize in Chemkoli held in connection with ELEMENTS 2015 On 8th January 2015 at Guru Nanak College , Chennai and secured Second prize
- participated and Won Prize in Chemtunes held in connection with ELEMENTS 2015 On 8th January 2015 at Guru Nanak College , Chennai and secured Third prize
- Participated in "Elements 2017" held in connection with National Science day Celebration on 28th February 2017 at Guru Nanak College , Chennai Secured Second prize in Paper Presentation .
- Participated in "Elements 2017" held in connection with National Science day Celebration on 28th February 2017 at Guru Nanak College , Chennai Secured First prize in Chemtunes.
- Awarded for Outstanding Academic Proficiency in Chemistry Second prize during the academic year of 2015-2016
- Awarded proficiency prize for securing Best Outgoing Student Nominee PG-Women during the academic year of 2016-2017

PERSONAL PROFILE

Name	:	S.Chandraleka
Date of Birth	:	7th June 1992
Father's Name	:	P.Sugumaran
Languages known	:	English & Tamil

Declaration

I declare that above given details are true to my best of knowledge.

Place: Chennai

Yours Truly

(S.Chandraleka)