



## Faculty Profile

### **Basic Information:**

NAME : Dr. P. SRI CHANDANA

DESIGNATION : PROFESSOR

DEPARTMENT : CIVIL ENGINEERING

DATE OF BIRTH : 05/08/1976

DATE OF JOINING : 15/06/2012

EMAIL ID : srichandaloka@gmail.com

EMPLOYEE ID : 1-1499685873

### PHOTO



### Academic Profile:

| Qualification | Name of the Board/University                         | YEAR |
|---------------|------------------------------------------------------|------|
| Ph.D.         | NATIONAL TAIWAN UNIVERSITY                           | 2010 |
| M.TECH        | SRI VENKATESWARA UNIVERSITY, TIRUPATHI               | 2004 |
| B.TECH        | JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD | 1998 |

### PROFESSIONAL EXPERIENCE:

| College Name                       | Designation         | Period   |           |
|------------------------------------|---------------------|----------|-----------|
|                                    |                     | From     | To        |
| AITS, KADAPA                       | PROFESSOR           | 01-01-25 | TILL DATE |
| NATIONAL TAIWAN UNIVERSITY, TAIWAN | VISITING PROFESSOR  | 01-07-24 | 31-12-24  |
| AITS, KADAPA                       | PROFESSOR           | 01-06-18 | 30-06-24  |
| AITS RAJAMPETA                     | PROFESSOR           | 01-10-17 | 31-05-18  |
| NATIONAL TAIWAN UNIVERSITY, TAIWAN | VISITING PROFESSOR  | 01-07-17 | 30-09-17  |
| AITS, RAJAMPETA                    | PROFESSOR           | 01-06-16 | 30-06-17  |
| AITS, KADAPA                       | PROFESSOR           | 01-03-15 | 31-05-16  |
| AITS, KADAPA                       | ASSOCIATE PROFESSOR | 15-06-12 | 28-02-15  |

|                                                                  |                        |          |          |
|------------------------------------------------------------------|------------------------|----------|----------|
| NATIONAL TAIWAN<br>UNIVERSITY, TAIWAN                            | DOCTORAL<br>RESEARCHER | 01-08-06 | 04-01-10 |
| NATIONAL TAIWAN<br>UNIVERSITY OF SCIENCE &<br>TECHNOLOGY, TAIWAN | RESEARCHER             | 18-02-02 | 30-06-06 |

**TOTAL EXPERIENCE:**

Total Teaching experience:16  
Total Research experience: 07

**Research Details:**

|                                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Areas of Specialization             | :                      | ENVIRONMENTAL ENGINEERING & CIVIL ENGINEERING                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2. No. of Publications                 | :                      | 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 3. Awards Received                     | :                      | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4. Research Guidance                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                        | No. of PhD Guided:     | 02                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                        | No. of MTech. Guided:  | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                        | No. of B.Tech. Guided: | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 5. Details of Professional Membership: |                        | IEI<br>IGEN<br>IAENG<br>ISR<br>VDGOOD                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 6. Subjects Taught                     | :                      | ENVIRONMENTAL ENGINEERING<br>DESIGN AND DRAWING OF IRRIGATION STRUCTURES<br>DISASTER MANAGEMENT AND MITIGATION<br>LOW COST HOUSING TECHNIQUES<br>CONCRETE TECHNOLOGY<br>CHEMISTRY OF NANOMATERIALS<br>BUILDING MATERIALS AND CONSTRUCTION<br>ENVIRONMENTAL IMPACT ASSESSMENT<br>WATER RESOURCES ENGINEERING<br>PHYSICAL AND CHEMICAL WATER TREATMENT PROCESSES<br>AIR POLLUTION AND CONTROL<br>BUILDING PLANNING AND DRAWING<br>RENEWABLE ENERGY SYSTEMS<br>WATER AND WASTEWATER TREATMENT |

## Publication Details:

| Title                                                                                                                                                                                   | Publisher        | Published Year |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| Sustainable Concrete Production using Alccofine and Lime sludge as Supplementary Cementitious Materials                                                                                 | Elsevier         | 2026           |
| Optimizing the Performance of Barite Concrete with Nano-Additives: A Sustainability Approach                                                                                            | SSRG             | 2025           |
| Type of nano-TiO <sub>2</sub> . Incorporation in to self-cleaning cement mortars has influence on crystal microstructure properties                                                     | Elsevier         | 2025           |
| Critical analysis of the compact microstructural properties of ordinary Portland and Portland Pozzolana cement mortars incorporated with nano-TiO                                       | Springer Nature  | 2025           |
| Exploring simulated sunlight sulphite process for enhanced removal of mixed pharmaceutical and personal care products from aqueous solution.                                            | Elsevier         | 2025           |
| Statistical significance of the influence of Nano TiO <sub>2</sub> on WPC, PPC and OPC cement mortars                                                                                   | Springer Nature  | 2024           |
| Insights in to microstructural behaviour of self-cleaning flyash-blended Portland pozzolana cement mortars containing nano TiO <sub>2</sub>                                             | EDP Sciences     | 2024           |
| Impact of nano-TiO <sub>2</sub> on White Portland Cement Mortars: A combined XRD Coupled Rietveld, Crystallographic and Microstructural analysis.                                       | Springer Nature  | 2024           |
| A comparative study on Structural, crystallographic and microstructural properties of Nano-TiO <sub>2</sub> intermixed and surface-coated Portland cement mortars                       | Springer Nature  | 2024           |
| Highly efficient visible light active Iron oxide-based photocatalysts for both hydrogen production and dye degradation                                                                  | Springer Nature  | 2024           |
| Microstructural analysis and densification of ordinary Portland cement mortars with minimal nano-TiO <sub>2</sub> : Intermixing and surface coating on both fresh and hardened surfaces | Springer Nature  | 2024           |
| Adsorptive removal of Ciprofloxacin from aqueous media with graphene based composites                                                                                                   | IOP              | 2021           |
| Evaluation of self-cleaning performance of TiO <sub>2</sub> -intermixed and TiO <sub>2</sub> -coated cement mortars under natural sunlight                                              | Taylor & Francis | 2024           |
| Controlled synthesis of reduced graphene oxide-supported bimetallic Pt-Au nanoparticles for enhanced electrooxidation of methanol                                                       | Elsevier         | 2024           |

|                                                                                                                                                                     |                 |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------|
| Hetero-epitaxial grown Pt@Au core-shell bimetallic nanoparticles on reduced graphene oxide (RGO) as electrocatalyst for oxygen reduction reaction in alkaline media | Elsevier        | 2023 |
| A Study on the Mechanical and durability Properties of Bioconcrete with GGBS as Partial Replacement for cement.                                                     | Elsevier        | 2023 |
| Development of self-cleaning cement mortar exposed to indoor and outdoor environment.                                                                               | Elsevier        | 2023 |
| Fabrication of Sustainable Green Bricks by the Effective Utilization of Tannery Sludge as Main Additive.                                                            | Elsevier        | 2023 |
| Graphene supported Pd-Cu bimetallic nanoparticles as efficient catalyst for electrooxidation of methanol in alkaline media.                                         | Elsevier        | 2023 |
| Reduced graphene oxide (RGO)-supported AuCore-PdShell nanocomposite electrocatalyst for facile formic acid oxidation.                                               | Elsevier        | 2022 |
| Reduced graphene oxide (RGO)-supported Pd-CeO <sub>2</sub> nanocomposite as a highly active electrocatalyst for facile formic acid oxidation.                       | Elsevier        | 2022 |
| Augmentation of ethanol production in green alga chlorococcum minutum through graphene oxide-supported platinum-Ruthenium (Pt-Ru/RGO) nanoparticles.                | Springer Nature | 2022 |
| The degradation of paraben preservatives: Recent progress and sustainable approaches toward photocatalysis.                                                         | Elsevier        | 2021 |
| Bimetallic Pt-Cu-decorated Reduced graphene oxide (RGO)-TiO <sub>2</sub> nanocomposite for efficient oxygen reduction reaction.                                     | Elsevier        | 2020 |
| Photoelectrochemical degradation of perfluorooctanoic acid (PFOA) with GOP25/FTO anodes: Intermediates and reaction pathways.                                       | Elsevier        | 2020 |
| The design of sunlight focusing and solar tracking system: Potential application for the degradation of pharmaceuticals in water.                                   | Elsevier        | 2019 |
| Facile fabrication of TiO <sub>2</sub> -graphene nanocomposites (TGNCs) for the efficient Photocatalytic oxidation of perfluorooctanoic acid (PFOA).                | Elsevier        | 2018 |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|
| Abatement of clofibric acid by Fenton-like process using iron oxide supported Sulfonated-ZrO <sub>2</sub> : Efficient heterogeneous catalysts.                    | <b>Elsevier</b>             | 2018 |
| Degradation of Methadone by the sunlight/FC process: Kinetics, radical species participation and influence of the water matrix.                                   | <b>Elsevier</b>             | 2018 |
| Implications and implementation of Biomedical waste management Rules 2016 in Hospitals and a common biomedical waste treatment facility in Andhra Pradesh, India. | <b>Inderscience</b>         | 2018 |
| Reduced graphene oxide supported Pd@Au core-shell nanoelectrocatalyst for enhanced oxygen reduction in alkaline media.                                            | <b>Elsevier</b>             | 2018 |
| Facile fabrication of Pt-Ru nanoparticles immobilized on reduced graphene oxide support for the electrooxidation of methanol and ethanol.                         | <b>Wiley VCH</b>            | 2017 |
| Ultrafine Pt-Ru bimetallic nanoparticles anchored on reduced graphene oxide support as highly active electrocatalyst for methanol oxidation                       | <b>RSC</b>                  | 2017 |
| Halide-aided controlled fabrication of Pt-Pd/graphene bimetallic nanocomposites for methanol electrooxidation                                                     | <b>RSC</b>                  | 2015 |
| Decolorization of aqueous coffee and tea infusions by chemical coagulation                                                                                        | <b>Taylor &amp; Francis</b> | 2015 |
| Occurrence of perfluorinated compounds in the aquatic environment as found in Science Park effluent, river water, rain water, sediments and biotissues            | <b>Elsevier</b>             | 2014 |
| Sorption of Perfluorooctanoic acid (PFOA) onto sediment in the presence of dissolved natural organics                                                             | <b>Elsevier</b>             | 2013 |
| Effect of Ultrasound on membrane filtration and cleaning operations.                                                                                              | <b>Elsevier</b>             | 2012 |
| Removal of Perfluorooctanoic acid and Perfluorooctanesulfonate via ozonation under alkaline condition                                                             | <b>Elsevier</b>             | 2012 |
| Sorptive removal of color from aqueous coffee and tea infusions                                                                                                   | <b>Taylor &amp; Francis</b> | 2012 |
| Biodegradation and Bio-sorption of antibiotics and non-steroidal anti-inflammatory drugs using immobilized cell process                                           | <b>Elsevier</b>             | 2011 |

|                                                                                                                                             |                             |             |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------|
| Reduced membrane fouling in a novel bio-entrapped membrane reactor for treatment of food and beverage processing wastewater                 | <b>Elsevier</b>             | <b>2011</b> |
| Effects of water washing on removing organic residues in bottom ashes of municipal solid waste incinerators                                 | <b>Elsevier</b>             | <b>2011</b> |
| Recovery of metallic copper by integrated chemical reduction and high gradient magnetic separation                                          | <b>Taylor &amp; Francis</b> | <b>2011</b> |
| High levels of perfluorochemicals in Taiwan's wastewater treatment plants and downstream rivers pose great risk to local aquatic ecosystems | <b>Elsevier</b>             | <b>2010</b> |
| Implications of human pharmaceutical occurrence in Sindian river of Taiwan: A strategic study of risk assessment                            | <b>RSC</b>                  | <b>2010</b> |
| The effect of soluble microbial products on membrane fouling in a fixed carrier biological system                                           | <b>Elsevier</b>             | <b>2010</b> |
| Decomposition of perfluorocarboxylic acids (PFCAs) by heterogeneous photocatalysis in acidic aqueous medium                                 | <b>Elsevier</b>             | <b>2009</b> |
| Sonication-assisted photocatalytic decomposition of perfluorooctanoic acid                                                                  | <b>Elsevier</b>             | <b>2009</b> |
| Impact of semiconductor, electronics and optoelectronic industries on downstream perfluorinated chemical contamination in Taiwanese rivers  | <b>Elsevier</b>             | <b>2009</b> |
| Effects of mass retention of dissolved organic matter and membrane pore size on membrane fouling and flux decline                           | <b>Elsevier</b>             | <b>2009</b> |

**BOOKS: 6 book chapters in Elsevier publications**

**PRESENTED PAPERS IN INTERNATIONAL CONFERENCES: 45**

**WORKSHOPS ORGANIZED:1**

**WORKSHOPS ATTENDED:8**

**TECHNICAL /CULTURAL EVENTS CONDUCTED:25**

**WEBINARS ATTENDED:20**

**AWARDS:16**

**GUEST LECTURES:18**

**JURY MEMBER:10**

**EDITOR/ REVIEWER:** Editor/Associate Editor – 2, Reviewer for Elsevier, Springer Nature, MDPI, Taylor & Francis, IWA, Bentham publishers

**SIGNATURE OF THE FACULTY,**