Faculty Profile

Dr. H. DOLLI, M.Sc., B.Ed., Ph. D
Associate Professor, Department of Chemistry

HIGHLIGHTS:

- Number of Journal Publications:15
- H-Index: 3
- Project Funding Received: Nil
- Patents Published:25 Patents including one US patent
- Patents Granted: Nil

PROFESSIONAL LINKS:

- Scopus ID: 6506970374
- Scopus Link: https://www.scopus.com/authid/detail.uri?authorId=6506970374
- Google Scholar ID: ISU-2582-2023
- Anna University Faculty ID: 2122615
- AICTE Faculty ID: 14642757011
- Anna University Supervisor ID:
- LinkedIn: dolli1981

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 20 years
- Industrial Experience: Nil

INTERNATIONAL EXPOSURE:

2016 Adjudicator for Yonsi University, South Korea for evaluation of PG theses.

AREA OF SPECIALIZATION:

- Electrochemistry
- Engineering chemistry
- Organic chemistry

- Environmental Science and engineering

Ph.Ds AWARDED WITH DETAILS:

S.No	Name of Scholar	Title of Thesis	Year of Completion	Full Time/Part Time

Ph.Ds GUIDING:

- **Full Time Scholars :**
- **Part Time Scholars :**

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

Successfully Completed a Summer Sponsored Project (SSP) for "Electrochemical techniques; A key tool for the cost-effective synthesis of Bio-diesel." The Project is sponsored by IISC, Bangalore during the academic years 2015-2016 (Rs. 10,000,00/-PA).

PATENTS PUBLISHED/GRANTED:

LIST OF PATENTS

PATENTS FILED (Complete specification)

During the period under review, the following eight new products were developed and patent specifications were **(Including one international patent)** submitted & filed with the patent committee.

National patents

a. "Improvements in or Relating to the Development of Maintenance-free Reference electrode for multifarious Applications" DolliH, Venkatachari G and Rengaswamy NS (Indian patent No: 317/DL/2002),"

b. "A navel composite material based on magnesium and metal oxides for enhanced corrosion resistance" DolliH, Venkatachari G and Rengaswamy NS (Indian patent No:505/DL/2004)

c. "Improvements in or Relating to the development of an ion conductive polymer backfill for use in sacrificial and impressed current system" DolliH, Venkatachari G and Rengaswamy NS (Indian patent No:266/DL/2002)

d. "Development of a composite material based on Zinc as metal matrix for enhanced corrosion resistance". (Indian patent NO:360/DL/2002)

e. "Improvements in or relating to workstation improvements in or relating to the development of an Embeddable corrosion sensor for monitoring the health condition of workstation" Dolli H,

Muralisharan VS and Manoharan SP (Indian patent NO:55/DL/2002)

f. "Improvements in or Relating to a Development of a Digitalized Maintenance-free reference electrode for corrosion applications" DolliH, Muralisharan VS and Manoharan SP (Indian patent NO: 303/DL/2002)

g. "Development of chloride ion sensor for quantitative prediction of chloride ion ingress in concrete structures" Dolli H, Ramakrishnan M and Manoharan SP (Indian patent No: 024NF/DL/2007)

h. "Development of integrated corrosion sensors for corrosion diagnosis of steel in concrete structures" Dolli H, Revathi.R, Murugavel M, and (Indian patent No: 124 NF/DL/2017).

i. Development of ceramic composite anodes for enhanced corrosion resistance" .Dolli.H, and Rajendran Monika(Indian patent No: 194NF/DL/2019).

j. "Development and evaluation of Graphine Oxide-Iridium oxide based nano sensors for corrosion diagnostics applications" Dolli H and Ganapathi Raman.(Indian patent No: 110NF/DL/2019).

International patent (U.S Patent)

a. "Development of a New Proton Conductive Polymer Backfill for use in Sacrificial and Impressed Current Cathodic Protection Applications" DolliH, Pitchumani S and Rengaswamy NS **(U.S patent No: PCT/RE18/0205715 dated 23.12.02)**

COURSES CERTIFIED: Nil

ACHIEVEMENTS AND AWARDS:

Research Advisory Board Member at CSIR-CECRI, Karaikudi, for Kudankulam Nuclear Power Corporation Projects (KKNPP), Sponsored by NPCIL, Kudankulam, Kanyakumari (Dt), TN, India. Research Advisory Board Member at CSIR-CECRI, Karaikudi, for Tarapur Atomic Power Project (TAPP), Sponsored by NPCIL, Kudankulam, Kanyakumari (Dt).

SPECIAL SESSIONS DELIVERED:

Chaired or co-chaired the following seminars

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

National/International Level	Agencies	Theme	Duration
National two days	CSIR	Emerging trends in electrochemistry.	28th& 29th Nov, 2011
National level 2 weeks	AICTE	Recent developments in CNT and Storage devices.	25th June, 2019

1.Faculty development program on Development of Non conventional energy resources, 6. days FDP conducted by SRM Easwari College of Engineering, 23rd June to 28th June 2025

PROFESSIONAL MEMBERSHIPS:

- Member in AICTE
- Life Member of **IISC, Bangalore**

- Member in All India Council for Technical Education (**MISTE**)
- Member in American Chemical Society

OTHER DETAILS (If any):