

## PERIYATHAMBI DHAIVEEGAN (戴維根)

+886-908811722    dhaijee8585@gmail.com

ORCID ID: <https://orcid.org/0000-0003-1282-3103>

LinkedIn: <https://www.linkedin.com/in/dr-dhaiveegan-p-74535829/>

Date of Birth-25 June 1985

Nationality-Indian

ARC No.- H800128505

Languages Known - English: (Fluent) Tamil: (Native) Chinese: (Beginner)



### Career Objective

To pursue a challenging career and be a part of a forward-thinking organisation that allows me to expand my knowledge and talents. I'm searching for a demanding setting where I may put my communication, organizational, and training technique skills to use.

### Industrial Experiences

**July 2019-June 2021, Senior Specialist, Tripod Nanotechnology Corporation, Taoyuan, Taiwan (R.O.C).**

**October 2021 to present, Senior Engineer, BenQ Materials Corporation, Taoyuan, Taiwan (R.O.C)**

**Feb 2023-Present, Synergy ScienTech Corp. Ltd, Hsinchu, Taiwan (ROC).**



### Academic Qualifications

**Ph.D. Thesis: April 2011-Sept. 2016**

**Prof. N. Rajendran**, Department of Chemistry, College of Engineering Guindy, Anna University, Chennai, India.

**Research Intern. June 2014-May 2015**, Prof. Kwang Seon Shin, Magnesium Technology Innovation Centre, Seoul National University (SNU), Seoul, South Korea



### Post-Doctoral Fellow,

**June 2017-April 2019, -Mentor: Prof. Jeng Yu Lin**, Department of Chemical Engineering, Tatung University, Taipei, Taiwan (R.O.C).

**October 2016-June 2017, Mentor: Prof. S. Ramanathan**, Department of Chemical Engineering, Indian Institute of Technology Madras, Chennai, India

### Technical Skills

XRD, UV, EIS, HPLC, ATR, FT-IR, Battery ORT Test, FE-SEM, ICP-OES, TGA operating License.

### Research work

During my Industrial experience at **Tripod Nanotechnology Corporation & BenQ Materials Corporation, Taoyuan, Taiwan (July 2019-2023)**. I have been involved preparation of various metal and metal oxide nanoparticles (Au, Ag, TiO<sub>2</sub>, ZnO, Pt, Bi, ZrO<sub>2</sub>) in an aqueous medium with low cost and highly stable for various energy and biomedical applications (Lithium ion batteries, supercapacitors, All Solid-state- batteries, Anti-bacterial, Lateral flow immunoassay, cosmetics, etc.,).

### Research Interests

- Anode and cathode materials for Li-ion battery.
- Electrode materials for supercapacitor.
- Nanomaterials preparation, characterization and applications.
- Preparation of ternary metal oxides for battery applications.
- Preparation of binary transition metal oxides/or metal sulfide electrodes for supercapacitor applications.

### High Impact Publications (Selected)

- **J. Solid-State electrochem., 2018(22)1851–1861.**
- **Electrochimica Acta 274 (2018) 208-216.**
- **Materials Transactions, 2016 (57) 48-155.**
- **RSC Advances, 2016 (6) 47314-47324.**
- **Heliyon 7 2021 (3), e06577**
- **Surf. Coat. Tech, 350 (2018) 1003-1009.**

### Research and Marketing at Tripod Nano Tech Corp. & BenQ Materials Corp.

- Support to Technical department to solve technical issues.
- Development of new nanomaterials with low cost and highly stable materials at aqueous phase.
- Develop client relations, market, achieve performance goals.
- Visit domestic and international clients.
- Implementation of industrial technology and cooperation projects.