ADIKARI MUDIYANSELAGE CHATHURANGANIE SENEVIRATHNE

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Professional Summary

Committed postdoctoral fellow with two and a half years of experience using cutting-edge technology to generate and share important information with the industrial community. Networked with elite research teams from University of Vermont, Kyushu University, Queensland University, and the International Institute for Carbon Neutral Energy Research institutions to develop and improve research protocols for the OLEDs, organic semiconductor laser, and perovskite solar cell fields. Conducted complicated research with integrity and great attention to detail.

Personal Information

Date of Birth: 12/01/1987

Nationality: Sri Lankan

Gender: Female

Marital status: Single

Skills

Thin film fabrication
Thin film characterization
Use of ellipsometer
SEM
XRD
OLED fabrication
Organic laser diode fabrication
Vacuum evaporation
Use of profilometer
E-beam lithography
XPS
ToF-SIMS analysis
Perovskite solar cell fabrication

Work History

POSTDOCTORAL RESEARCH ASSOCIATE, 01/01/2025- Current
University of Vermont, Vermont, USA.
Metal-dielectric organic laser diode fabrication and characterization

POSTDOCTORAL RESEARCH ASSOCIATE, 11/01/2022 – 11/30/2024
I2CNER (WPI), Kyushu University, Fukuoka, Japan.
Fabrication of perovskite solar cells, solar cells characterization, and stability measurement

OLED DEVICE ENGINEER AND VISITING ASSISTANT PROFESSOR, 10/2021 - 10/2022
KOALA Tech Inc., Fukuoka, Japan.

Fabricated organic semiconductor thin films and characterized via profilometer and ellipsometer.

Fabricated OLEDs via vacuum evaporation and characterized the device.

Fabricated organic laser diodes and characterized the devices.

Conducted ASE measurement for organic laser materials.

Designed different distributed feedback resonator structures via E-beam lithography.

Conducted transient absorption measurement.

Analyzed and documented test results to comply with industry standards.

Education

Ph. D.: Applied Chemistry
Graduate School of Engineering, Kyushu University - Fukuoka, Japan, 2018-2021
Thesis Title: Development of materials and device architectures aimed for high-performance continuous-wave organic semiconductor lasers.
Supervisor: Prof. Chihaya Adachi
Co-supervisors: Prof. Toshinori Matsushima, Prof. Atula S.D. Sandanayaka

M. Phil.: Chemical Sciences
Postgraduate Institute of Science, University of Peradeniya - Kandy, Sri Lanka, 2012-2016
Thesis Title: A study of the performance of cobalt phenanthroline-based liquid and gel electrolytes in dye-sensitized solar cells.
Supervisors: Prof. O.A.Illeperuma, Dr. V.A.Senevirathne, Prof. R.M.G. Rajapakse, Prof. H.M.N. Bandara

B.Sc.: Physical Sciences
Faculty of Science, University of Peradeniya - Kandy, Sri Lanka, 2008-2011
Subjects: Chemistry, Physics, Mathematics
3.1/4.0 GPA

Publications

Book Chapter: Solution-Processed Organic Light-emitting Devices
Book Chapter-Solution-processable organic lasers and their prospects
Chathuranganie A. M. Senevirathne, Atula S. D. Sandanayaka, and Chihaya Adachi
Woodhead Publishing, DOI:10.1016/B978-0-323-95146-3.00015-X

Peer-reviewed journal articles: Please see the Google Scholar link below
https://scholar.google.com/citations?hl=en&user=Hu73O88AAAAJ&view_op=list_works&sortby=pubdate

Awards

- Presidential award for the top cited Sri Lankan scientific publications published in year 2018.
- Best presenter of student seminar of International Graduate Course on Chemistry for Molecular Systems, Kyushu University, 2019 and 2020.

Membership

- Japanese Society of Applied Physics (JSAP) - 2018 to present

Disclaimer

I hereby declare that the above particulars furnished by me are true and correct to the best of my knowledge.
A. M. Chathuranganie Senevirathne