

IV. AWARDS

Award	Entry Title	Awarding Agency/Conference/Contest	Date
1. Surya Raghu Entrepreneurial Award	Sequential polymerization of aniline on paper as filter for retrieval of fish oil from waste water	SPVM/National Physics Conference and International Conference on Advanced Functional Materials and Nanotechnology	October 19, 2019
2. Likha Award-Creative Research (2 nd Runner-Up)	Inexpensive nanostructured filter for separating fish oil from sardine canning waste water	DOST/Regional Invention Contest	September 11, 2019
3. Likha Award (3 rd Price)	Nanoscaled polyaniline films for smart packaging application	DOST/2018 National Invention Contest and Exhibits	Aug 16, 2018
4. Likha Award (First Price)	Nanoscaled polyaniline films for smart packaging application	DOST/2018 Regional Invention Contest and Exhibits	November 24, 2017
5. Best Paper (Research Category)	Synthesis of polyaniline/sawdust composite for lead sorption application	WESMARDEC/2017 Regional Symposium on Research Development Highlights	Dec 6, 2017

V. PUBLICATIONS

International

“Effect of supercritical carbon dioxide treatment on the polarons of HCl-doped polyaniline films”

Physica Status Solidi, 2015

“Physico-chemical effects of supercritical carbon dioxide post polymerization treatment on HCl-doped polyaniline prepared via oxidative chemical polymerization”

IOP Conference Series: Materials Science and Engineering, 2015

“Effects on the Physico-Chemical and Electrical Properties of In Situ HCl-Doped Polyaniline Films to Water as Post-Polymerization Treatment”

Journal of Applied Science and Agriculture, 2014

“X-Ray Diffraction Analysis of Strained InGaAs/GaAs Superlattices Grown on GaAs (001) Substrates via Molecular Beam Epitaxy”

Philippine E-journal (WMSU Research Journal), 2011

Transitions of epitaxially lifted-off bulk GaAs and GaAs/AlGaAs quantum well under thermal induced compressive and tensile strain

Journal of Applied Physics, 2008

“Growth of Gold-assisted Gallium Arsenide Nanowires on Silicon Substrates via Molecular Beam Epitaxy”

Science Diliman, 2008

National

"In-situ chemically polymerized polyaniline films initiated by potassium dichromate"
2015 SPVM Proceedings (ISSN 1655-4620)

"An alternative method to measure acceleration due to gravity"
2015 SPVM Proceedings (ISSN 1655-4620)

"Lead adsorption capacity of HCl-doped polyaniline and deprotonated polyaniline powder"
2015 SPVM Proceedings (ISSN 1655-4620)

"Synthesis of polyaniline/coconut sawdust for heavy metal sorption application"
2015 SPVM Proceedings (ISSN 1655-4620)

"Disorder, polaronic and morphological properties of water-treated in situ HCl-doped polyaniline films"
2014 SPVM Proceedings (ISSN 1655-4620)

"Morphological and spectroscopic changes of chemically oxidized in-situ doped polyaniline films"
2014 SPVM Proceedings (ISSN 1655-4620)

"Effects of ethanol on the oxidation, molecular structure and HOMO-LUMO transition of chemically-synthesized polyaniline films"
2013 SPVM Proceedings (ISSN 1655-4620)

"Hydrophobic properties of taro leaf surface"
2013 SPVM Proceedings (ISSN 1655-4620)

"Changes on physico-chemical properties of polyaniline under water exposure"
2013 SPVM Proceedings (ISSN 1655-4620)

"A method for computing the powder x-ray diffraction spectrum of a material: The ZnS case"
2012 SPVM Proceedings (ISSN 1655-4620)

"X-ray diffraction of epitaxially grown CuInS₂ on GaP (111)"
2012 SPVM Proceedings (ISSN 1655-4620)

"FTIR analysis on aluminium compounds evolved from the reaction of cane sugar vinegar and distilled water with aluminium casserole"
2011 SPVM Proceedings (ISSN 1655-4620)

"Improvised vertical axis wind turbine"
2010 SPVM Proceedings (ISSN 1655-4620)

"The Gough-Joule effect in rubber band"

2010 SPVM Proceedings (ISSN 1655-4620)

"Fabrication of a van de Graff generator"

2010 SPVM Proceedings (ISSN 1655-4620)

"Piezoelectric effect in sugarcane"

2010 SPVM Proceedings (ISSN 1655-4620)

"Fabricating a handy device for mixing collared lights"

2010 SPVM Proceedings (ISSN 1655-4620)

"Determination of indium mole fractions of MBE-grown InGaAs/GaAs superlattices on GaAs (100) substrate"

2009 SPVM Proceedings (ISSN 1655-4620)

"Growth of InGaAs/GaAs superlattices on GaAs (100) substrate via molecular beam epitaxy"

2009 SPVM Proceedings (ISSN 1655-4620)

"X-ray diffraction analysis of Au-assisted GaAs nanowires grown on Si substrates via molecular beam epitaxy"

2008 SPP Proceedings (ISSN 1656-2666)

"Growth and electron microscopy characterization of Au-assisted MBE-grown GaAs nanowires on Si substrates"

2008 SPP Proceedings (ISSN 1656-2666)

VI. PAPER PRESENTATIONS

19th International Conference on Ternary and Multinary Compounds

September 1-5, 2014 at Toki Messe, Niigata City, Japan

"Effect of supercritical carbon dioxide treatment on the polarons of HCl-doped polyaniline films"

2014 International Conference in Applied Physics and Materials Science

October 23-25, 2014 at Cagayan de Oro City, Philippines

"Disorder, polaronic and morphological properties of water-treated in-situ HCl-doped polyaniline films"

2013 International Conference in Applied Physics and Materials Science

October 24-26, 2013 at Davao City, Philippines

"Physico-chemical effects of supercritical carbon dioxide post polymerization treatment on HCl-doped polyaniline prepared via oxidative chemical polymerization"

National/Regional

12th Samahang Pisika ng Visayas at Mindanao National Physics Conference

October 21-23, 2010 at Iloilo City, Philippines

"Fabrication of sugar lens for optical experiments"

11th Samahang Pisika ng Visayas at Mindanao National Physics Conference
October 22-24, 2010 at Butuan City, Philippines
"Growth of InGaAs/GaAs superlattices on GaAs (100) substrate via molecular beam epitaxy"

11th Samahang Pisika ng Visayas at Mindanao National Physics Conference
October 22-24, 2010 at Butuan City, Philippines
"Determination of indium mole fractions of MBE-grown InGaAs/GaAs superlattices on GaAs (100) substrate"

VII. MEMBERSHIP IN ORGANIZATIONS

Samahang Pisika ng Pilipinas
2009

Samahang Pisika ng Visayas at Mindanao
2009-present

National Organization of Professional Teachers
2011-present

Accrediting Agency of Chartered Colleges and Universities in the Philippines
2017-present