

# Department of Physics Faculty of Science / University of Peradeniya



## Dr. B.S. Dassanayake

B.Sc. (Perad.), Ph.D. (Western Michigan, USA)

#### **Senior Lecturer**

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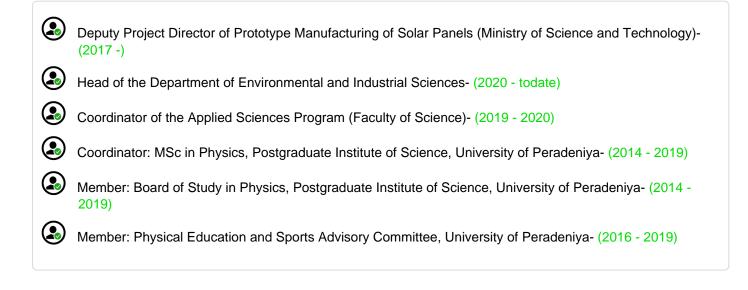
#### **Higher Education Qualifications**



# Awards, Scholarships, Memberships & Fellowships

	NSF Research Award for the Best Research Work in Basic Sciences - 2018
	President's Award for Scientific Publications, Sri Lanka (2013)
<b>,</b>	George E. Bradley Award for exceptional performance in all aspects of graduate work in Physics, Western Michigan University, Kalamazoo, Michigan, USA (2011)
<b>,</b>	All University Graduate Research and Creative Scholars Award, Western Michigan University, Kalamazoo, Michigan, USA (2011)
1	Leo R. Parpart scholarship for outstanding research, Western Michigan University, Kalamazoo, Michigan, USA (2011)
1	Gwen Frostic Scholarship for outstanding research, Western Michigan University, Kalamazoo, Michigan, USA (2010)
<b>,</b>	Jacob DeWitt Award for Outstanding Teaching, Western Michigan University, Kalamazoo, Michigan, USA (2010)

#### **Positions Held**



#### My Teachings

- RH240: Introduction to Solid State Physics
- PH323: Electromagnetic Waves and Communication
- PH374: Experimental Techniques and Material Characterization
- PH375: Introductory Nanoscience
- PH383: Advanced Physics Laboratory I
- PH384: Advanced Physics Laboratory II
- PH457: Advanced Nanoscience

#### **Research Interests (Research Fields/ Projects)**

Thin Films, CdS/CdTe Solar Cells, Nano Synthesis

#### **Ongoing Research and Projects**

Science technology and research educational training program with facilities for prototype manufacturing solar panels (Funded by Ministry of Science and Technology, Sri Lanka 2017)

- Synthesis of colloidal quantum dots for Infra-red photo detection and solar cells (Funded by National Science Foundation, Sri Lanka 2017)
- Phyto-fabrication of Silver Nanoparticles using Bryophytes (Funded by University of Peradeniya, Sri Lanka 2016)

### **Key Publications**

#### Semicon. Sci. Technol. - (2017)

A study on the enhancement of optoelectronic properties of CdS thin films: seed-assisted fabrication,

Carbohydrate Polymers - (2020)

Synthesis of cellulose microcrystals (CMC)/nylon 6,10 composite by incorporating CMC isolated from Pandanus ceylanicus

#### Conferences



Nothing to show under this subheading !!!

#### **My Publications**

Please goto the website.

https://sci.pdn.ac.lk/physics/staff/Buddhika-Dassanayake