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**Academic Curriculum Vitae**



**Personal Information:**

Full Name: Lary Hana Slewa

Academic Title: Dr.

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**Education:**

* **[2000– 2004]** Salahaddin University-Collage of Science-Erbil. **BSc**. In Physics.
* **[2012 – 2014]** Salahaddin University-Collage of Science-Erbil. **MSc**. In Soild State Physics- Thinfilm (solar cell).
* **[2017- 2021]** Spilt site program between Salahaddin University Erbil (SUE) and University Sains Malaysia (USM). **PhD**. In (Nanotechnology for biochemical applaication)

**Employment:**

**[2005 – 2012] [Teaching Assistant] [**Salahaddin University-Collage of Science-Erbil- Physics department**]**

**[2012-ON] [Researcher] [Solid State lab. for postgraduate studies /**Salahaddin University-Collage of Science-Erbil]

**[2014 – 2017] [Assistant Lectuer] [**Salahaddin University-Collage of Science-Erbil- Physics department**]**

**[2017 – 2019] [Researcher] Nano-Optoelectronics Research & Technology Laboratory (NOR Lab. /**USM- School of Physics, Penang -Malaysia]

**[2020-ON]** **[ Lectuer]** **[**Salahaddin University-Collage of Science-Erbil- Physics department**]**

**Qualifications**

* Microsoft Office , Window, Internet, Information Technology (IT), Electronic Work Brunch (EWB), Matlab, Scaning Probe Image processing(SPIP), Python, Originpro Lab, X'Pert HighScore Plus, Fullprof.
* **Giving lectuers in the filed of :**

**Theoretically -** (Nanotechology, Advance Electronic, Electricity & Magnetism, Circuit Analysia ,General physics, Semiconductor Physics)

**Experimentally -** (Electronic, Electricity, electrical mesurement, General Phycis)

**Teaching experience:**

* **Theoretically -** (Electronic (applied and digital) Nanotechology, Advance Electronic, Electricity & Magnetism, Circuit Analysia ,General physics, Semiconductor Physics)
* **Experimentally -** (Electronic, Electricity, electrical mesurement, General Phycis)

**Research and publications**

Effect of Sn doping and annealing on the morphology, structural, optical, and electrical properties of 3D (micro/nano) V2O5 sphere for high sensitivity pH-EGFET sensor, **Sensors and Actuators B: Chemical**, 2020, DOI: <https://doi.org/10.1016/j.snb.2019.127515>

Synthesis of Architectural-Cubic Porous Silicon by Electroless Stain Etching in V2O5 and HF Solution, **Silicon**, 2019, DOI: <https://doi.org/10.1007/s12633-019-00265-8>

[Synthesis of quantum dot porous silicon as extended gate field effect transistor (EGFET) for a pH sensor application](https://www.sciencedirect.com/science/article/pii/S1369800119302823), **Materials Science in Semiconductor Processing**, 2019, DOI: <https://doi.org/10.1016/j.mssp.2019.04.045>

# Hydrothermal and solvothermal synthesis of nanorods and 3D (micro/nano) V2O5 on macro PSi substrate for pH-EGFET sensors, [Journal of Materials Science: Materials in Electronics](https://link.springer.com/journal/10854), 2019, DOI: <https://doi.org/10.1007/s10854-019-01465-z>

Comparative study between sensing properties of single layer (NiO) and heterojunction (NiO/p-Si) gas sensors based on nanostructured NiO films by spray pyrolysis, **Journal of Materials Science Materials in Electronics** ,2017,

DOI: 10.1007/s10854-017-7509-y

Synthesis of cobalt oxide (Co3O4) thin films by electrostatic spray pyrolysis technique (ESP), **Journal of Materials Science Materials in Electronics,**  2016

DOI: 10.1007/s10854-016-5748-y

Effects of low dose of gamma radiation on the morphology, optical and electrical properties of ITO thin film as electrode for solar cell applications, **Journal of the Korean Physical Society**, 2018, DOI: 10.3938/jkps.72.561.

##### [High-sensitive UV photodetector based on ZrO 2 nanoparticles for humidity applications](https://link.springer.com/article/10.1007/s10854-020-04109-9), **Journal of Materials Science: Materials in Electronics, 2020,** <https://doi.org/10.1007/s10854-020-04109-9>.

##### [Transmission line method (TLM) measurement of (metal/ZnS) contact resistance,](https://www.researchgate.net/publication/281346603_Transmission_line_method_TLM_measurement_of_metalZnS_contact_resistance) **Int. J. Nanoelectronics and Materials**, 2015, [http://dspace.unimap.edu.my:80/xmlui/handle/123456789/41333](http://dspace.unimap.edu.my/xmlui/handle/123456789/41333)

##### **MSc. Thesis**: Preparation and characterization of SnS and ZnS thin films for fabrication of solar cells, Salahaddin University-collage of science-Erbil, 2014.

**PhD. Thesis** Synthesis and Characterization of PSi-QD/ Pure and Sn-Doped V2O5 for pH-EGFET Sensing Application Salahaddin University-collage of science-Erbil, 2020.

**Conferences and courses attended**

**[2012]** [English language- Intermedium and Advance level] [Language Center - Salahaddin University]

**[2019]** [English language- Intermedium, upper intermediate and advance level] [Language Center - Salahaddin University]

**[2011]** [Computer] [Computer Center - Salahaddin University]

**Professional Social Network Accounts:**

**Google scholar:**

<https://scholar.google.com/citations?user=qgOc3G8AAAAJ&hl=en>

**Research get:**

https://www.researchgate.net/profile/L-Slewa