



GHASSAN AL-SAAD I

PERSONAL

Name

Ghassan AL-Saadi

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Nationality

Canadian

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TRAINING ACTIVITIES

- Fundamentals of semiconductor devices
- Quantum Dot`s Materials
- TEM Imaging

Ph.D. in Physics (Semiconductor Materials).

Assistant Professor. Researcher.

WORK EXPERIENCE

Research Associate

2014 - 2016

York University, Department of Physics and Astronomy, Toronto, Canada

- "Study of the Structural and Optical characteristics of CdSe Quantum dots prepared by Wet Chemical Method for photovoltaic and medical sensor applications".

Achievement:

Fabrication of ligands capped Quantum dots developed a chemical process for ligand removal to safely collect Quantum dots for TEM analyses and performed TEM characterization on the Quantum dots.

- "Measuring Quantum dots particle size distributions on an uneven background from TEM images",

Achievement:

A computer algorithm for measuring particle size distributions from TEM images in the presence of an uneven background. The algorithm allows particles to be detected and characterized by greater accuracy than using more conventional methods.

Assistant Professor / Faculty member

2002 - 2012

Benghazi University, College of science, Al- Merj., Libya

Program Coordinator.

Taught (Solid State Physics, Quantum physics, Analog, and Digital Electronics, Theory of Semiconductors, Principles of Solar Cells (elective), Linear Algebra, Calculus).

Prepared Electronics and Nuclear lab. manuals.

Assistant Professor / Faculty member

1998 - 2001

Baghdad University, Department of Physics, College of Science for Women, Iraq

- Program Coordinator.

Taught (Electricity and Magnetism, Analog and Digital Electronics, Solid State Physics, Theory of Semiconductors for M.Sc. students). Prepared Electricity and Magnetism and Electronics labs. manuals.

• M.Sc. student's supervisor:

- Thesis Title: " Laser interaction with optical glass." / 1998 - 2000.

- Thesis Title: "Effect of fast neutrons on the optical properties of CdS thin films prepared by chemical spray pyrolysis." / 1998 - 2000.

- Fabrication of Spray Pyrolysis System (Thin Films Depositions / Graduate studies).

Visiting Assistant Professor

1998 - 2001

University of Al- Mustansireya, Department of Electrical Engineering., Iraq

Taught (Theory of Semiconductors).

EDUCATION AND QUALIFICATIONS

B.Sc. in Physics

1978 - 1981

University of f Al- Mustansireya, Iraq

M.Sc. in Physics (Semiconductor Materials)

1984 - 1986

Belarusian State University., Minsk, Belarus.

Dissertation Title:" Electrical properties of (Ga₂Te₃) (Hg₃ Te₃) alloys through Semimetal - Semiconductor transition.

REFERENCES

Ijaz Rauf

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Al al-Bayt University,
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Hamed H. Murbat

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Baghdad University,
College of Science for
Women

PUBLICATIONS

- Fabrication and Characterization of Gas Sensor from ZrO₂: MgO Nanostructured Thin Films by R.F. Magnetron Sputtering Technique. Baghdad journal science, 2019.
- Structural and Optical Properties of Iron Oxide α -Fe₂O₃ nanowires Prepared by Hydrothermal Method / International Conference on Materials Engineering & Science, Istanbul. 2018.
- Measuring particle size distributions from TEM images. Research, York University, Toronto, Canada. December 2015- March 2016.
- Method for photovoltaic and medical sensor applications. Research, York University, Toronto, Canada. April 2015 - October 2015.
- Analytical study of the Electrical Properties of (Ga₂Te₃) (Te₃Hg₃) alloy. SRO3, Al-Riyadh, Saudi Arabia, May 2005.
- Optical properties of (CDs: Cu) optical detector. 3rd. Scientific Conference, College of Engineering, Baghdad, Iraq, April 2000.
- Energy Gap Practical Calculation of (CdHg)Te alloy, Journal of College of Science for Women, University of Baghdad, Iraq. Jan. 2000.