

Ghada O.E. Daoud
Lecturer,
Laser institute of research and
applications, Beni -Suef University,
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Education Qualifications

Degree : Ph. D. (2021).
Major : Ph. D. of Experimental Physics.
Institution : Department of physics, Faculty of Science, Fayoum University.
Supervisor : Dr. Ahmed S. G. Khalil, Professor, Department of physics, **Faculty of Science**, Fayoum University.
Title of thesis:
"Synthesis of nanomaterials by laser ablation and chemical methods for water applications "

Degree : MS. C. (2011).
Major : Engineering Laser Application.
Institution : Department of Laser Engineering Application., National institute of enhanced laser, Cairo University.
Supervisor : D.Sc. Prof. Dr. M. Ali Ahmed, Department of physics, **Faculty of Science**, Cairo University.
Title of thesis:
"Laser induced effect on the physical properties of nanometric ferrite. "

Degree: Diploma in laser and its application in industry and communication and fiber optics
Major: Laser Engineering applications.
Institution: National institute of enhanced laser, Cairo University.
Grade: 85.30% Excellent

Degree: Bachelor of Science in Physics (1999 – 2003).
Major: Physics - Astronomy.
Institution: Faculty of Science, Cairo University, Egypt.
Grade: 73.30% High good

Employment history:

Physics specialist: National institute of fisheries and Oceanography

Research Assistant: Environmental Science and Technology Group), Fayoum University, Fayoum, Egypt. <http://estg-fayoum.com>Fayoum University, Fayoum,Egypt. <http://estg-fayoum.com> .

Research Assistant: School of physics and engineering, The American University in Cairo (AUC)

Lecturer: Laser institute of research and applications.

Synergistic Activities

➤ Trainer in The Practical Training Course on "Nanofabrication and Characterization" Funded by Arab-

German Young Academy of Sciences and Humanities at the American University in Cairo and Faculty of Science, Fayoum University, Egypt 9th-16th December 2018.

- Trainer in The Practical Training Course on Practical Course on "Basics of Water Treatment " at ESTG, Faculty of Science, Fayoum University, Egypt 20th – 26th, December, 2017.
- Organizer in The Practical Training Course on "Water-Energy Nexus " Funded by Arab-German Young Academy of Sciences and Humanities at ESTG, Faculty of Science, Fayoum University, Egypt 5th – 7th, November, 2019.

Extracurricular activities:

- Environmental Science Coordinator in Elsayy culture wheel (NGO)

Research Interest

- Preferable synthesis and characterization of 1D and 2D Nanostructure.
- Synthesis of Graphene oxide nanocomposites for electronics, optoelectronics, and water treatment applications.
- Processing of boron nitride nanosheet and its application in water treatment.
- Investigate the preparation of different type of smart nanomaterials.
- Preferable forensic technique and criminal Investigation Science.
- Preferable water Assessment and climate change.
- Understanding the efficient of different nanomaterials for sensor application.

Research Skills (Techniques used extensively)

- UV-Vis Spectrophotometer, Photoluminescence Spectrophotometer, Probe sonication, Contact DLS Dynamic Light Scattering, LIBS Laser Induced Breakdown Spectroscopy technique, and PLAL Pulsed Laser Ablation Techniques.

General Skills

- **Programming/Software knowledge:** Origin8.0, Microprocessor, Photoshop, and Mat lab.
- **Language Skills:** English (Very Good).

Research Publications

Journal Publications:

- Superior removal of hazardous dye using Ag/Au core-shell nanoparticles prepared by laser ablation
G Omar, RG Abd Ellah, MMY Elzayat, G Afifi, H Imam
Optics & Laser Technology 168, 109868

- Part II. Large scale applications of $\text{Ni}_x\text{Mn}_{0.8-x}\text{Mg}_x\text{Fe}_2\text{O}_4$; $0.1 \leq x \leq 0.35$ using laser irradiation
MA Ahmed, ST Bishay, SI El-Dek, G Omar
Journal of Alloys and Compounds 509 (30), 7891-7894
- Evaluation of cleaning soiled deposits and crusts from archaeological glass using laser treatment with ag/au nanoparticles
RAG Eloriby, GO ELSayed, HI Mahmoud
Journal of Nano Research 82, 139-156
- Experimental exploration of the second order nonlinear optical properties of
G Omar, M Ashour, DM Atwa, T Hassan
Applied optics 10 (8), 3209-3215

Personal Details

Full Name : Ghada Omar Elsayed
Last name : Daoud
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