

Curriculum Vitae

Personal Information

Name: Dina Salah Eldin Mohamed Abdelrhman

Date of Birth: 07-04-1980

Address: 65 Ahmed ELSawy, Makaram Abied, Nasr city,
Cairo, Egypt 11317.

Email address:

dinasalah@sci.asu.edu.eg

dandy741@hotmail.com

dandy741@gmail.com

Phone: +201005041066, +20222726440

Scopus Author ID: 57078848900

ORCID ID: 0000-0002-7457-1733



Work Experience

2020- Now: Lecturer of Biophysics, Faculty of Science, Ain Shams University,
Cairo, Egypt.

2019-2019: Postdoc at Laboratory of Radiobiology & Experimental Radiation
Oncology at the University Medical Center Hamburg-Eppendorf
(UKE)

2016-2019: Lecturer of Biophysics, Faculty of Science, Ain Shams University,
Cairo, Egypt.

2012-2014: Visiting PhD student, University of Liverpool, United Kingdom.

2007-2012: Assistant lecturer of biophysics, Faculty of Science, Ain Shams University, Cairo, Egypt.

2001-2007: Demonstrator of Biophysics, Faculty of Science, Ain Shams University, Cairo, Egypt.

Education

2016: PhD degree of Biophysics, Faculty of Science, Ain Shams University, Cairo, Egypt.

Thesis Title “**Laser-Irradiation of Gold Nanorods inside Living Cells: Photochemical versus Photothermal Effects**”

2012-2014: PhD visiting student, University of Liverpool, Liverpool, United Kingdom.

2003-2007: MSc degree of Biophysics, Faculty of Science, Ain Shams University, Cairo, Egypt.

Thesis Title “**Study of Vitreous Humor in Rhegmatogenous Retinal Detachment Cases**”

2002-2003: Pre-Master Studies, Faculty of Science, Ain Shams University, Cairo, Egypt.

1997-2001: BSc of Biophysics, Faculty of Science, Ain Shams University, Cairo, Egypt.

Publications

- 1- Chadwick SJ, **Salah D**, Livesey PM, Brust M, Volk M. Singlet oxygen generation by laser irradiation of gold nanoparticles. *The Journal of Physical Chemistry C*. 2016 May 19;120(19):10647-57.
- 2- Battoo KM, **Salah D**, Kumar G, Kumar A, Singh M, Abd El-Sadek M, Mir FA, Imran A, Jameel DA. Hyperfine interaction and tuning of magnetic anisotropy of Cu doped CoFe₂O₄ ferrite nanoparticles. *Journal of Magnetism and Magnetic Materials*. 2016 Aug 1;411:91-7.
- 3- Akl HN, Alazaly AM, **Salah D**, Abdel-Samad HS, Abdel-Shafi AA. Effects on the photophysical properties of naphthylamine derivatives upon their inclusion in cyclodextrin nanocavities. *Journal of Molecular Liquids*. 2020 Aug 1;311:113319.
- 4- Ahmed AA, Abdulwahab AM, Talib ZA, **Salah D**, Flaifel MH. Magnetic and optical properties of synthesized ZnO–ZnFe₂O₄ nanocomposites via calcined Zn–Fe layered double hydroxide. *Optical Materials*. 2020 Oct 1;108:110179.
- 5- Sabek HA, Alazaly AM, **Salah D**, Abdel-Samad HS, Ismail MA, Abdel-Shafi AA. Photophysical properties and fluorosolvatochromism of D– π –A thiophene based derivatives. *RSC Advances*. 2020;10(71):43459-71.
- 6- Medhat A, **Salah D**, Boichuk N, Hassan I, Vitusevich S, Kasry A. Graphene Nanoplatelet–Au Nanoparticle Hybrid as a Capacitive-Metal–Oxide–Semiconductor pH Sensor. *ACS Applied Electronic Materials*. 2020 Dec 28;3(1):430-6.
- 7- Schmutzler O, Graf S, Behm N, Mansour WY, Blumendorf F, Stauffer T, Körnig C, **Salah D**, Kang Y, Peters JN, Liu Y. X-ray Fluorescence Uptake Measurement of Functionalized Gold Nanoparticles in Tumor Cell Microsamples. *International Journal of Molecular Sciences*. 2021 Jan;22(7):3691.
- 8- **Salah D**, Moghanm FS, Arshad M, Alanazi AA, Latif S, El-Gammal MI, Shima EM, Elsayed S. Polymer-Peptide Modified Gold Nanorods to Improve Cell Conjugation and Cell Labelling for Stem Cells Photoacoustic Imaging. *Diagnostics*. 2021 Jul;11(7):1196.

- 9- Samir M, **Salah D**, Donia S, Kasry A. Effect of Surface Chemical Modification on the Self Assembly of Metal Nanoparticles. Egyptian Journal of Chemistry. 2021 Jul 26.
- 10- Belić D, Fragueiro O, **Salah D**, Beckett A, Volk M, Brust M. Imaging of Nanoscale Gold in “Intact” Biological Cells by Environmental Electron Microscopy. The Journal of Physical Chemistry C. 2021 Dec 9;125(50):27865-75.
- 11- Abdel-Shafi A, Abdel-Samad HS, **Salah D**, Alazaly A, Hagra Y. Solvent Effect on the Excited Charge Transfer State of Naphthylamine Sulfonate Derivatives: Steady State and Time resolved studies. Egyptian Journal of Chemistry. 2022 Jan 29.
- 12- Samir M, **Salah D**, Donia S, Kasry A. Specific Chemical Modification of Nanohole Edges in Membrane Graphene for Protein Binding. ACS Applied Nano Materials. 2022 Feb 23.
- 13- Desouky, M., Medhat, A., Samir, M., **Salah, D.**, & Kasry, A. (2022). Structure and Properties Manipulations of Graphene: Towards Developing High Sensitivity Optical and Electrical Sensors. In *Advances in Nanocomposite Materials for Environmental and Energy Harvesting Applications* (pp. 941-957). Springer, Cham.

Conferences

- International symposium on “Nanoparticles-Based Technology for Cell Tracking” 2013, Liverpool. United Kingdom.
- Gold 2015 International Conference, Cardiff, United Kingdom.
- The Third International Conference on “Nanotechnology and its Applications” February 2016, Hurghada, Egypt.
- Third Arab Conference on Biophysics, September 2016, Cairo, Egypt.

Projects

- Development of the Atomic spectroscopy unit in the Central Laboratory for microanalysis and qualifying it for accreditation in accordance with the specifications of (ISO 17025/2005). (Completed)
- “A cost-effective, stable and efficient luminescent solar concentrator in Egypt: Decoration and Generation” (STDF-DDP). (Running)
- Development of “Laboratory of Ultrafast Dynamic Spectroscopy to Qualify for (ISO/IEC 17025/2017) Accreditation”. (Completed)

Skills

- Very good communication skills
- Teaching experience with different background undergraduate students (Biological Science, Physical Science, Pharmacy and Dentistry Students).
- Gold nanoparticles synthesis and its applications.
- Trained to use TEM and ESEM.
- Trained for different Spectroscopic techniques.
- Trained cell cultures researcher.
- Trained laser irradiation researcher.
- Tracking of reactive species.