

**Ahmed Sheet, PhD****Phone:** +201091811417**Email:** asheet@niles.cu.edu.eg**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57345707800>**Google Scholar:**<https://scholar.google.com/citations?user=JDeOBWIAAAAJ&hl=en>**EXPERTISE**

Biophotonics, Laser spectroscopy, Biomedical Optics, Nanophotonics, Optical Imaging, Biomedical Antennas.

UNIVERSITY EDUCATION

- 2023** **Doctoral degree in Engineering Applications of laser**, The National Institute of Laser Enhanced Sciences, Cairo University. Dissertation on “Improvement of tissue imaging and spectroscopy utilizing the concept of photothermal and physical optical clearing”
- 2020** **M.Sc. degree in Engineering Applications of laser**, The National Institute of Laser Enhanced Sciences, Cairo University. Dissertation on “The use of spatial light modulation in recording and reconstruction of medical holograms”
- 2014** **Diploma degree in Engineering Applications of laser**, The National Institute of Laser Enhanced Sciences, Cairo University.
- 2010** **B.Sc., Systems & Biomedical Engineering Dept., Faculty of Engineering, Cairo university.**
Final Grade: Very Good with honor.
Project Grade: Excellent.

PROFESSIONAL EXPERIENCE

- Oct. 2023** **Lecturer**, Engineering Applications of Laser Department, The National Institute of Laser Enhanced Sciences, Cairo University.

INSTITUTIONAL ACTIVITIES

- Summer 2023 & 2024** Member of the summer training in the EAL department for under-graduate students of the Biomedical Engineering program, Egypt-Japan University for Science and Technology.
- 2022 to date** Member of social media marketing team for news, workshops and the institute events, The National Institute of Laser Enhanced Sciences, Cairo University
- 2019** **Organizing member in ICLA10 conference**, The National Institute of Laser Enhanced Sciences, Cairo University.
- 2017-2020** **Member of LASER technology center**, The National Institute of Laser Enhanced Sciences, Cairo University

2015

Organizing member in ICLA9 conference, The National Institute of Laser Enhanced Sciences, Cairo University.

PUBLICATIONS**Peer reviewed (ISI) Journals**

2023

1. Ahmed H Sheet, Omnia Hamdy, Mohamed Abdel-Harith, "Scattering and absorption properties modification of optically cleared skeletal muscles: an ex vivo study", JOSA A 40 (6), 1042-1050.
2. Ahmed H Sheet, Rania M Abdelazeem, Omnia Hamdy, Mohamed Abdel-Harith, "Influence of laser beam aberrations compensation and spot size on the transmittance in native and optically cleared skeletal muscles", Optik 274, 170596.

2022

3. Ahmed H Sheet, Omnia Hamdy, Zienab Abdel-Salam, Mohamed Abdel-Harith, "Combining laser-irradiation and glycerol immersion of skeletal muscles to improve their optical transparency", Optics & Laser Technology 148, 107760.
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Conference proceedings (SCOPUS-Indexed)**2022**

Ahmed H. Sheet, Omnia Hamdy, and Mohamed Abdel Harith "Increasing the optical transparency of skeletal muscles via irradiation with IR lasers", Proc. SPIE 12147, Tissue Optics and Photonics II, 121470P DOI: [10.1117/12.2621954](https://doi.org/10.1117/12.2621954)

2021

Omnia Hamdy and Ahmed Sheet, "Simulating Red and Near-Infrared Light Diffusion in Myometrium and Leiomyoma Uterus Tumors", Biophotonics Congress: Optics in the Life Sciences 2021 (BODA,BRAIN,NTM,OMA,OMP), OSA. DOI: [10.1364/BODA.2021.JTu4A.4](https://doi.org/10.1364/BODA.2021.JTu4A.4)