Salah Hassab El-Naby Curriculum Vitae

Salah Eldin Ibrahim Hassab Elnaby

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EXPERTISE

Laser remote sensing (DIAL and Raman LIDAR), Nonlinear optics, Fiber laser and amplifier

UNIVERSITY EDUCATION

- BSc. in Electrical Engineering, from Military Technical College 1970.
- MSc. in Laser Physics, Technical University, Prague, Czechoslovakia, 1975.
- PhD. in Laser remote sensing of air pollution using resonance Raman
- Spectroscopy. Ecole Polytechnique and University of Paris 11, Paris France.

POSITIONS:

- Director of Laser Technology Center, NILES, Cairo University
- Emeritus Prof. at NILES
- Vice minister of culture for foreign cultural relations (2007-2008)
- President and CEO of sound and light company (1997-2006)
- Associate Prof. at NILES (1994-1997)
- Assistant Prof. of physics in the Military Technical College (1980-1992)

AWARDS:

Award of Best Research in the Army

MEMBERSHIPS:

Secretary of the Egyptian Topical Society of Laser

RECENT PUBLICATIONS

Peer reviewed (ISI) Journals

2024

1. Ibrahim Abdelhalim, Aziza Ahmed Hassan, Salwa Abdelkawi, Salah Hassab Elnaby, Sahar Rahbar, Omnia Hamdy, 'Solid-state laser (266 nm) as an alternative to ArF excimer laser (193 nm) for corneal reshaping: Comparative numerical study of the thermal effect", International Journal for Numerical Methods in Biomedical Engineering, 40 (10), e3861.
2. Ibrahim Abdelhalim, Aziza Ahmed Hassan, Salwa Abdelkawi, Salah Hassab Elnaby, Omnia Hamdy, "A modified flying-spot laser eye-surgery platform for hyperopic correction", Optical and Quantum Electronics 56(7), 1268.

2023

3. Ibrahim Abdelhalim, Omnia Hamdy, Aziza Ahmed Hassan, Salwa Abdelkawi, Salah Hassab Elnaby "A modified model for laser-cornea interaction following the ablation effect in the laser eye-surgery", Beni-Suef University Journal of Basic and Applied Sciences 12 (1), 101.
4. Ibrahim Abdelhalim, Omnia Hamdy, Mohamed A Khattab, Salwa Abdelkawi, Salah Hassab Elnaby, Aziza Ahmed Hassan, "Evaluating the efficacy of Nd: YAG fourth harmonic (266 nm) in comparison with ArF excimer (193 nm) in laser corneal reshaping: ex vivo pilot study", International Ophthalmology 43 (9), 3087-3096.
5. Salah, A., Hassab-Elnaby, S. & Ramadan, M.A. Boosting the nonlinear optical absorption of graphene oxide, and gold nanorods by tailoring graphene oxide-gold nanorods hybrids. SN Appl. Sci. 5, 288. https://doi.org/10.1007/s42452-023-05507-4.
6. Helayl, S., Hassab-Elnaby, S., Badr, Y. et al. Nonlinear optical absorption and optical limiting of magnetic iron oxide nanomaterials. SN Appl. Sci. 5, 229 (2023). https://doi.org/10.1007/s42452-023-05449-x

2022

7. Doaa Youssef, Salah Hassab-Elnaby, Samar Reda Al-Sayed, New 3D model for accurate prediction of thermal and microstructure evolution of laser powder cladding of Ti6Al4V alloy, Alexandria Engineering Journal, Volume 61, Issue 5.
8. Abo-elenein, M.H.; Hassab Elnaby, S.E.I.; Hassan, A.F.; Abd-Rabou, A.M. Modeling for Generating Femtosecond Pulses in an Er-Doped Fiber Using Externally Controlled Spectral Broadening and Compression Mechanisms. *Photonics*, *9*, 205. https://doi.org/10.3390/photonics9040205.
9. El-Dakrory, Y., Sliem, M., Abdelkreem, M., Hassab Elnaby, S., & Rezk, R. Laser induced fluorescence detection of R6G dye adsorbed on Fe3O4 nanomaterials. Journal of Applied Water Engineering and Research, 10(4), 322–331. https://doi.org/10.1080/23249676.2021.2017805

2021

10. Ibrahim Abdelhalim, Omnia Hamdy, Aziza Ahmed Hassan, Salah Hassab Elnaby, "Nd: YAG fourth harmonic (266-nm) generation for corneal reshaping procedure: an ex-vivo experimental study", Plos one 16 (11), e0260494.
11. Ibrahim Abdelhalim, Omnia Hamdy, Aziza Ahmed Hassan, Salah Hassab Elnaby, "Assessing the local temperature of human cornea exposed to surface ablation by different laser refractive-surgery devices: a numerical comparative study", Lasers in Medical Science 36 (8), 1725-1731.
12. Ibrahim Abdelhalim, Omnia Hamdy, Aziza Ahmed Hassan, Salah Hassab Elnaby, "Dependence of the heating effect on tissue absorption coefficient during corneal reshaping using different UV lasers: A numerical study", Physical and Engineering Sciences in Medicine 44, 221-227.