

Assist. Lecturer Zinah Salahuddin Shakir

Department of optical Techniques

Assist. Lecturer of laser physics

Email: zena.salahaldeen@alfarabiuc.edu.iq

Education:

MSc, University of Technology, Year 2019

BSc, University of Technology, Year 2005

Teaching

Medical Physics

It deals with physics and its influence on medical study

Research Focus: Laser in dentistry

Publications

1- Walid K Hamoudi, Raid A ismail, Zinah Salahuddin Shakir , Amara K Alkaisi. Acid resistance enhancement of human tooth enamel surface by Nd:YAG laser and incorporating silver nanoparticles: in vitro study. *Laser Dent Sci* 4, 7–16 (2020). <https://doi.org/10.1007/s41547-019-00082-7>.

2- Zinah Salahuddin Shakir, Amara K Alkaisi. ND:YAG LASER ENHANCE DENTAL ENAMEL RESISTANCE TO DEMINERALIZATION PREVENTING DENTAL CARIES. GLOBAL JOURNAL FOR RESEARCH ANALYSIS. VOLUME-8, ISSUE-7, JULY-2019 . P 157-159.

3- Walid K Hamoudi, Raid A ismail, Zinah Salahuddin Shakir, Noor Raad Abdulhameed. THE EFFECT OF LASER HARDENING AND EMBEDDING NANOPARTICLES ON TOOTH RESISTANCE AGAINST CARIES. International Journal of dental research and development. Vol.9. Issue 1, Jun2019. P5-14.

4- Ismail, Raid A., Hamoudi, Walid K., Shakir, Zinah S. Modifications of Hydroxyapatite properties by nanosecond Nd: YAG laser pulses. *Lasers in Manufacturing and Materials Processing*, Volume 7, Issue 3, July 2020. p.305-316

5- Patent. No.5997. A61C1/00

