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# **Academic Record**

B.Sc in physics science, college of science, university of Mosul 1980 M.Sc Applied physics / School of Applied science / University of Technology, 1986.

Ph.D.Laser technology, AL-Rasheed College of engineering & Science, 2001

## **Science Degrees**

Professor: 19/11/2019

### Researches

### 1. Researches: - 35

1. Laser induced damage in c-silicon and a-silicon V: 5 No: 1

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2. One stage Nd-glass oscillator - amplifier Design a speeds .V:7 No:1 P:106 2003

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**3-** Amorphous/crystalline (n-n)Si Heterojunction photo detector made by Q-switched 0.532 nm laser pulse with novel technique. Chines physics letter Vol:23 No:2,2006

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**5-** Low resistance non alloyed in ohmic contact to n-si irritated by Nd-Yag laser pulse.

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- **9-** Front-wall illumination of spray-deposited pbs-si HJ detector . Eng.&Tech. Journal Vol:30 No:12, 2012
- **10-** One dimensional finite Element solution of moving boundaries in far IR tissue ablation Iraqi J.Laser ,part A Vol:11,2012
- **11-** Analytical model of transient thermal effect on convention cooled end-pumped laser rod .PRAMANA Journal of physics Vol:81 No:4,2013

**12-** Study the effect of Gamma radiation an some mechanical and structure properties of glass and glass-ceramic immobilized nuclear waste.

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- **15.** Polymeric Solar Cells: A Mini-Review of Fabrication Techniques. Journal of Iraqi Industrial Research. Vol. 2, No. 2 (2015) 26-30.
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- **17.** Synthesis of Aluminum and Titanium Oxides Nanoparticles via Sol-Gel Method: Optimization for the Minimum Size.Journal of Nanoscience and Technology 2(1) (2016) 37–39.
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- **20.** Preparation and Characterization Study of ZnS Thin Films with Different Substrate Temperatures. Eng.&Tech.Journal,Vol.34, Part (A), No.1 2016.
- **21.** Characterization of TiO2 nanoparticles on porous silicon for optoelectronics application. Materials Technology **Advanced Performance Materials.** Published online: 29 Jan 2016.
- **22.** Microwave- assisted solvent-free synthesis of new polyamine. Cogent Chemistry (2015), 1:1075853 page 1-7.
- **23.** Polymer solar cells with enhanced power conversion efficiency using nonmaterial and laser techniques. Materials Technology/ Advanced performance materials 2016, <a href="http://dx.doi.org/10.1080/10667857.2016.1215080">http://dx.doi.org/10.1080/10667857.2016.1215080</a>,
- **24.** Chaotic spiking and mixed mode oscillations by optoelectronic feedback.

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- **28.** Effect of Laser Energy on the Structure of Ni46–Ti50–Cu4 Shapememory Alloy. International Journal of Nanoelectronics and Materials *Volume 11, No. 4, Oct 2018* [481-498].
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- **31.** Deep Engraving Process Of PMMA Using CO2 Laser Complemented By Taguchi Method.IOP Conf. Series: Materials Science and Engineering **454** (2018) 012068 doi:10.1088/1757-899X/454/1/012068.
- **32.** Effect of CW green laser parameters on welding width and strength of PMMA. The 2nd International Conference on Materials Engineering and Science [25/09/2019 -University of Technology Baghdad-Iraq].
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