

Asst. Prof. Dr. Alaa Badr Hasan

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Education

- 1- Ph.D. in Physics /Optics/ College of Education/ Al-Mustansyria University
- 2- M.Sc. in Physics, College of Education for pure science Ibn Al-Haitham, University of Baghdad, Iraq.
- 3- B.Sc. in Physics, College of Education for Pure Science Ibn Al-Haitham, University of Baghdad, Iraq.

Research Interest:

Optoelectronics, solar concentrators, renewable energy .

Work Experience

2002-2005 Assistant Lecturer in Department of physics, College of Education for Pure Science Ibn Al-Haitham, University of Baghdad

2005-2009 Lecturer in Department of physics, College of Education for Pure Science Ibn Al-Haitham, University of Baghdad).

2009 till now assistant professor in Department of physics, College of Education for Pure Science Ibn Al-Haitham, University of Baghdad.

2019 till now editing member in Ibn Al-Haitham Journal for Pure and Applied Sciences (**IHJPAS**).

Languages:

- Arabic.
- English.

Publications:

1. Design of Light Trapping Solar Cell System by Using Zemax Program, Journal of Physics: Conference Series 1003 (1), 012074
2. Design of Truncated Hyperboloid Solar Concentrator by Using Zemax Program Ibn Al-Haitham Journal For Pure and Applied Sciences 35 (1)
3. Irradiance Distribution of Image Surface in Microlens Array Solar Concentrator, A. H. Al-Hamdani, H. G. Rashid, A. B. Hasan
4. Optical characteristics of simulated design of parabolic trough solar concentrator, YY Khudair, AB Hasan , AIP Conference Proceedings 2437 (1), 020038
5. Simulation and evaluation of elliptical hyperboloid solar concentrator by using Zemax program, HN Hamzah, AB Hasan, AIP Conference Proceedings 2437 (1), 020037
6. Design and Evaluation of Polygonal Trough Solar Concentrator, YY Khudair, AB Hasan
Ibn AL-Haitham Journal For Pure and Applied Sciences 34 (4), 10-16
7. Improve Performance of Solar Cell by using Grooves which Have Semicircular Shape on The Surface by using Program (ZEMAX), AB Hasan, MA Ali, Ibn AL-Haitham Journal For Pure and Applied Science 29 (1)
8. Acceptance Angle Effectiveness of Microlens Arrays Solar Concentrator Efficiency, AH Al-Hamdani, HG Rashid, AB Hasan, A Kadhum
9. Design of Light Trapping Solar Cell System by Using Zemax Program, Sabah. A. H, AB Hasan
IOP Conf. Series: Journal of Physics: Conf. Series, 567890 (2018)
10. Studying optical properties of Quantum dot cylindrical Fresnel lens, Alaa. B. Hasan, NeuroQuantology | January 2022 | Volume 20 | Issue 1 | Page 97-104
11. Efficiency Evaluation of Optical System Includes Different Stop Apertures When Using Relative Moving Factor, Alaa. B. Hasan, NeuroQuantology | March 2022 | Volume 20 | Issue 3 | Page 211-215