



# Hala H. ALHashim

## Personal Data

Nationality | Saudi

Date of Birth | 13/5/1977

Department | Physics

Official IAU Email | halhashim@uod.edu.sa

Office Phone No. | 0548180411

## Language Proficiency

Language	Read	Write	Speak
Arabic	★	★	★
English	★	★	★

## Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2000	B.S	Dammam, Saudi Arabia	Science college
2007	M.S	Dammam, Saudi Arabia	Faisal University
2016	PhD	Thuwal, Saudi Arabia	KAUST

## PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

<b>PhD</b>	Bandgap Engineering of 1300 nm Quantum Dots/Quantum Well Nanostructures based Devices
<b>Master</b>	Gamma radiation effects on $GdBa_2Cu_3O_7$ high temperature superconductor

## Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work		Date
PhD Student	Thuwal	Saudi Arabia	2011-2016
Instructor	Dammam	Saudi Arabia	2000-2010
Teacher	Alkhobar	Saudi Arabia	1999-2000



## Scientific Achievements

### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
	Hala H. AlHashim, M. Zahed Mustafa Khan, M. Abdul Majid, Tien Khee Ng, and Boon S. Ooi	Sub-1100 nm lasing from post-growth intermixed InAs/GaAs quantum-dot lasers	Electronics Letters (2015).
	Mohammed Zahed Mustafa Khan, Hala H. Alhashim, Tien Khee Ng, and Boon S. Ooi	High-power and High-efficiency 1.3 $\mu\text{m}$ Superluminescent Diode with Flat-top and Ultra-wide Emission Bandwidth	IEEE Photonics Journal, 7(1), article number 1600308 (2015).
	Hala H. Alhashim, Mohammed Zahed Mustafa Khan, <sup>†</sup> Mohammed A. Majid, <sup>‡</sup> Tien K. Ng, and Boon S. Ooi	InAs/GaAs quantum-dot intermixing: comparison of various dielectric encapsulants	Optical Engineering Journal, Volume 54, Issue 10. (2015).
	K. A. Ziq and H. Hashem	Gamma radiation effects on GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> high temperature superconductor	Physica Status Solidi C - Current Topics in Solid State Physics, Vol 3, No 9, vol. 3, pp. 2975-2977, 2006.

### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
	Hala Hashim, Mohammed Abdul Majid, Tien Khee Ng, and Boon S. Ooi	Quantum dot intermixing: Alternate route to high speed direct modulation	Poster #: M153, International Conference on Quantum Dots (QD2014), Italy, May 11-16, 2014
	Mohammed Abdul Majid, Hala Al Hashim, M. Hugues, D. T. D. Childs, D.H .Anjum, D.K. Cha, BoonS. Ooi and R. A. Hogg,	Engineering opto-electronic properties of molecular beam epitaxy grown quantum dot structures	SPIE Photonic West 2014, California, USA, February 2014. (Presented).
	Mohammed A. Majid, Hala H. Alhashim, Mohammed Zahed Mustafa Khan, Tien Khee Ng, Boon S. Ooi	Simultaneous five-state lasing from intermixed InAs/GaAs quantum dot laser	Paper 9267-3, 9 October 2014, SPIE/COS Photonics Asia, Beijing, China, 9-11 October 2014
	Hala H. Alhashim, Mohammed Abdul Majid, Mohammed Zahed Mustafa Khan, Tien Khee Ng, and Boon S. Ooi	InAs/GaAs quantum-dots bandgap engineering for photonic integrated circuits	The 3rd Saudi International Nanotechnology Conference 2014, and KACST-KAUST-UCSB Workshops on Solid State Lighting, KACST Headquarters, Riyadh, Saudi Arabia, 1 - 3 December 2014



#	Name of Investigator(s)	Research Title	Conference and Publication Date
	Hala H. Alhashim, Mohammed Abdul Majid, Mohammed Zahed Mustafa Khan, Tien Khee Ng, and Boon S. Ooi	Tuning the lasing wavelength of InAs/GaAs quantum-dots for photonics integrated circuits	King Fahad University for Petroleum and Engineering, KFUPM-KAUST 4th Workshop on Solid-state Lighting, Dahrn, Saudi Arabia, 2015
	M. Z. M. Khan, H. H. Alhashim, T. K. Ng, and B. S. Ooi	Efficient O – band superluminescent diode with wide optical bandwidth and high power	Optical wave and waveguide theory and numerical Conference 2015, London, United Kingdom
	K. A. Ziq and H. Hashem	Gamma radiation effects on Pinning forces and critical current density in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> HTSC Superconductor	1- (SECOND SAUDI SCIENCE CONFERENCE-2004).
	K. A. Ziq and H. Hashem	Gamma radiation effects on critical current for GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> high temperature Superconductor	Umalqura University- 2005
	K. A. Ziq and H. Hashem	Thermodynamic critical field Scaling of the critical current density and pinning forces in GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> superconductor	THIRD SAUDI SCIENCE CONFERENCE.-2007

#### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
	Mentioned above		

#### Teaching Activities

##### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
	Phy201	7440	5
	Phy021	7414	5



Administrative Responsibilities, Committee and Community Service  
(Beginning with the most recent)

Volunteer Work

#	From	To	Type of Volunteer	Organization
				<ul style="list-style-type: none"><li>• Participating in talented programs as judgments and organizer nation-wide.</li><li>• Participating in Saudi Research science Institute as a mentor.</li><li>• Participating in career fair as a student ambassador.</li><li>• Participating in the 2016 science fair.</li></ul>

Last Update

...12./...12.../2016