

C.V



Name: Araa Mebdir Holi

Date of Birth: 1974/03/28

Religion: Muslim

Martial statues: Married

Specialization: Applied Physics/ Nanotechnology

Position: Assistant Professor

Scientific Degree: Ph. D.

Work Address: Ministry of Higher Education and Scientific

Research/ University of Al-Qadisiyah/College of

Education/Department of Physics

E-mail: araa.holi@qu.edu.iq

Scientific Certification:

Degree	University	College	Date
B.Sc.	University of Kufa	College of Education for Girls	1996
M.Sc.	University of Baghdad	College of Science for Women	2000
Ph.D.	Universiti Putra Malaysia (UPM)	Institute of Advanced Technology	2017

Scientific Title

No.	Scientific Title	Date
1.	Assistant Lecturer	2000
2.	Lecturer	2003
3.	Assistant Professor	2010

Courses Which You Teach:

No.	Department	Subject	Year
1-	Physics / University of Al-Qadisiyah	Electronics / Third Grade/ Undergraduate Semiconductors / Postgraduate	2019-2018
2-	Physics / University of Al-Qadisiyah	Atomic and Molecular Physics/Third Grade/ Undergraduate. Semiconductors/ Postgraduate.	2018-2017
3-	Physics / University of Al-Qadisiyah	Quantum Mechanics/ Fourth Grade/ Undergraduate. Electricity and Magnetism/First Grade/ Undergraduate.	2013-2012
4-	Physics / University of Al-Qadisiyah	Quantum Mechanics/ Fourth Grade/ Undergraduate. Electricity and Magnetism/First Grade/ Undergraduate.	2012-2011
5-	Physics / University of Al-Qadisiyah	Quantum Mechanics/ Fourth Grade/ Undergraduate. Electricity and Magnetism/First Grade/ Undergraduate.	2011-2010
6-	Physics / University of Al-Qadisiyah	Quantum Mechanics/ Fourth Grade/ Undergraduate. Electricity and Magnetism/First Grade/ Undergraduate.	2010-2009
7-	Physics / University of Al-Qadisiyah	Advanced Electricity and Magnetism/Second Grade/ Undergraduate.	2006-2007
8-	Physics / University of Al-Qadisiyah	Advanced Electricity and Magnetism/Second Grade/ Undergraduate.	2005-2006
9-	Physics/ University of Kufa	Astrophysics/ Fourth Grade/ Undergraduate. Computers(software)/ Second Grade/ Undergraduate.	2004-2005
10-	Physics/ University of Kufa	Astrophysics/ Fourth Grade/ Undergraduate. Plasma/ Third Grade/ Undergraduate.	2003-2004
11-	Physics/ University of Kufa Physics/ University of Al-Qadisiyah. Physics/ University of Al-Qadisiyah	Wave Motion and Sound/Second Grade/ Undergraduate. Heat and Properties of Materials/ First Grade/ Undergraduate. Atomic and Molecular Physics/Third Grade/ Undergraduate.	2002-2003

12-	Physics/ University of Kufa	Optics/ Second Grade/ Undergraduate.	2001-2002
13-	Physics/ University of Kufa	Astrophysics/ Fourth Grade/ Undergraduate. Computers(software)/ Second Grade/ Undergraduate.	2000-2001
14-	Technical Institute of Najaf/	Multimeter Instruments/ Second Grade/Diploma	2005-2000
15-	Technical Institute of Najaf/	Laser and its Applications /Second Grade/ Diploma	2005-2002

Thesis which was supervised by:

No.	Thesis Title	Department	Year
1	Synthesis and Characterization of Copper Oxide/Zinc Oxide nanocomposite for Photoelectrochemical cell.	Physics	2019-2020
2	Electrochemical Synthesis and Characterization of Titania Nanotubes for Gas sensor.	Physics	2019-2020

Conferences which you participated:

No.	Conferences Title	Year	Place	Type of Participation
1	11 th international fundamental science congress 2019 (IFSC 2019), 30-31 October 2019, palm garden hotel, IOI resort city, Putrajaya, Malaysia.	2019	Malaysia	Poster
2	3 rd International Symposium on Advanced Materials and Nanotechnology (iSAMN 2019), 19 - 20 Aug 2019, Marriott Hotel, Putrajaya, Malaysia.	2019	Malaysia	Article
3	Nano Energy 2019 - 6 th International Conference on Nanotechnology, Nanomaterials & Thin Films for Energy Applications, 27-29 July 2019, The National Energy University, Kuala Lumpur,	2019	Malaysia	Article
4	2 nd International scientific Conference (ISC 2019), College of Science, University of Al-Qadisiyah	2019	Iraq	Article
5	1 st International scientific Conference on Pure Science (ISCPS 2019), College of Education, University of Al-Qadisiyah.	2019	Iraq	Article

6	Workshop on AFM, Universiti Putra	2017	Malaysia	Attendance
7	29 th Malaysian Analytical Chemistry Symposium (SKAM29), Universiti Sains Malaysia and the Malaysian Analytical Sciences Society (ANALIS).	2016	Malaysia	Poster
8	Workshop on Advanced Materials and Nanotechnology 2016 (WAMN 2016), ITMA, Universiti Putra Malaysia.	2016	Malaysia	Poster
9	Workshop on Article and Journal Writing 2016. Universiti Putra Malaysia.	2016	Malaysia	Attendance
10	Photoluminescence Spectroscopy Workshop. Universiti Putra Malaysia.	2015	Malaysia	Attendance
11	Fundamental Science Conference 2015 (FSC 2015). Universiti Putra Malaysia.	2015	Malaysia	Presentation
12	X-Ray Diffraction Workshop, Universiti Putra Malaysia.	2014	Malaysia	Attendance
13	Fundamental Science Conference 2014 (FSC 2014), Universiti Putra Malaysia	2014	Malaysia	Attendance

Awards and Certificates of Appreciation:

No.	Name of Awards and	Donor	Year
1	Acknowledgment/Appreciation of Efforts	Presidency of the University of Qadisiyah	2019
2	Acknowledgment/ The second class for the Department of Physics in the national	Deanship of the College of Education / University of Al-Qadisiyah	2019
3	Acknowledgment/ Member of the 1 st International Scientific Conference of	Deanship of the College of Education / University of Al-Qadisiyah	2019
4	Acknowledgment	UPM Malaysia/for completing the Graduation Requirements on time	2017
5	Acknowledgment/Appreciation of Efforts	Embassy of the Republic of Iraq/ Kuala Lumpur-Malaysia	2017
6	Acknowledgment/Appreciation of Efforts	Presidency of the University of Qadisiyah	2017
7	Acknowledgment/Appreciation of Efforts(1)	Presidency of the University of Qadisiyah	2018
8	Acknowledgment/Appreciation of Efforts(2)	Presidency of the University of Qadisiyah	2018
9	Acknowledgment/Appreciation of Efforts(3)	Presidency of the University of Qadisiyah	2018
10	Acknowledgment/ Membership of a viva committee	Deanship of the College of Education / University of Al-Qadisiyah	2017

11	Acknowledgment/ Membership of a viva committee	Deanship of the College of Education / University of Al-Qadisiyah	2018
12	Acknowledgment/Examination committee	Presidency of the University of Qadisiyah	2014

Publication

<u>No.</u>	<u>Publication</u>	<u>Year</u>
<u>1</u>	Asla A. AL-Zahrani, Zainal, Z., Lim, H. N., Z.A. Talib Mohd Fudzi, L., Holi, A. M. , & Sarif@Mohd Ali, Synthesis of Binary Bi ₂ S ₃ /ZnO Nanorod Array Heterostructure and their Photoelectrochemical Performance. <i>Journal of Nanomaterials</i> , 2019 (2019) 1-10. Publisher: Hindawi. https://doi.org/10.1155/2019/5212938	<u>2019</u>
<u>2</u>	A.M. Holi , A.K. Ayal, A. A. Baqer, Construction of ZnO-Nanoflowers Photoanode for Photoelectrochemical Cell. IOP Conf. Series: <i>Journal of Physics: Conf. Series</i> 1234 (2019) 012056. Publisher: IOP. https://iopscience.iop.org/article/10.1088/1742-6596/1234/1/012056/meta	<u>2019</u>
<u>3</u>	A.M. Holi , A.K. Ayal, Z. Zainal, Z.A. Talib, H.-N. Lim, C.-C. Yap, S.-K. Chang, A.K. Ayal, Ag ₂ S/ZnO Nanorods Composite Photoelectrode Prepared by Hydrothermal Method: Influence of Growth Temperature. <i>Optik - International Journal for Light and Electron Optics</i> 184 (2019) 473–479. Publisher: Elsevier. https://doi.org/10.1016/j.ijleo.2019.03.010	<u>2019</u>
<u>4</u>	A.M. Holi , A.K. Ayal, Z. Zainal, Z.A. Talib, H.-N. Lim, C.-C. Yap, S.-K. Chang, Effect of heat treatment on photoelectrochemical performance of hydrothermally synthesised Ag ₂ S/ZnO nanorods arrays. <i>Chemical Physics Letters</i> 710 (2018) 100-107. Publisher: Elsevier. https://doi.org/10.1016/j.cplett.2018.08.069	<u>2018</u>
<u>5</u>	Ayal, A. K., Zainal, Z., Lim, H. N., Talib, Z. A., Lim, Y. C., Chang, S. K., & Holi, A. M. (2018). Fabrication of CdSe Nanoparticles Sensitized TiO ₂ Nanotube Arrays via Pulse Electrodeposition for Photoelectrochemical Application. <i>Materials Research Bulletin</i> . 106, 257-262. Publisher: Elsevier. https://doi.org/10.1016/j.materresbull.2018.05.040	<u>2018</u>
<u>6</u>	Mohd Fudzi, L., Zainal, Z., Lim, H. N., Chang, S.-K., Holi, A. M. , & Sarif@Mohd Ali, M. (2018). Effect of Temperature and Growth Time on Vertically Aligned ZnO Nanorods by Simplified Hydrothermal Technique for Photoelectrochemical Cells. <i>Materials</i> , 11(5), 704. Publisher: MDPI. http://doi.org/10.3390/ma11050704	<u>2018</u>

<u>7</u>	Ayal, A.K., Zainal, Z., Lim, H.-N., Talib, Z.A., Lim, Y.-C., Chang, S.-K., & Holi, A.M. (2017). Photocurrent enhancement of heat treated CdSe sensitized titania nanotube photoelectrode. <i>Optical and Quantum Electronics</i> 49(4): 164. Publisher: Springer. http://dx. doi: 10.1007/s11082-017-0985-	<u>2017</u>
<u>8</u>	A.M. Holi , Z. Zainal, Z.A. Talib, H.-N. Lim, C.-C. Yap, S.-K. Chang, A.K. Ayal, Enhanced photoelectrochemical performance of ZnO nanorod arrays decorated with CdS shell and Ag ₂ S quantum dots, <i>Superlattices and Microstructures</i> , 103 (2017) 295-303. Publisher : Elsevier. http://dx.doi.org/10.1016/j.spmi.2017.01.035	<u>2017</u>
<u>9</u>	A.M. Holi , Z. Zainal, Z.A. Talib, H.-N. Lim, C.-C. Yap, S.-K. Chang, A.K. Ayal, Effect of Hydrothermal Growth Time on ZnO Nanorod Arrays Photoelectrode Performance, <i>Optik - International Journal for Light and Electron Optics</i> 127 (2016) 11111–11118. Publisher : Elsevier. http://dx.doi.org/10.1016/j.ijleo.2016.09.015	<u>2016</u>
<u>10</u>	A.M. Holi , Z. Zainal, Z.A. Talib, H.-N. Lim, C.-C. Yap, S.-K. Chang, A.K. Ayal, Hydrothermal deposition of CdS on vertically aligned ZnO nanorods for photoelectrochemical solar cell application, <i>J. Mater. Sci. Mater. Electron.</i> 27 (2016) 7353–7360. Publisher: Springer. http://dx.doi:10.1007/s10854-016-4707-y	<u>2016</u>
<u>11</u>	Ayal, A.K., Zainal, Z., Lim, H.-N., Talib, Z.A., Lim, Y.-C., Chang, S.-K., Samsudin, N.A., Holi, A.M. , Amin, & W.N.M (2016), Electrochemical deposition of CdSe-sensitized TiO ₂ nanotube arrays with enhanced photoelectrochemical performance for solar cell application. <i>J. Mater. Sci. Mater. Electron.</i> 27(5): 5204–5210. Publisher: Springer. http://dx.doi.org/10.1007/s10854-016-4414-8 .	<u>2016</u>
<u>12</u>	Analytical Study of Supernova 1993J, <i>Journal of Al-Qadisiyah for Pure Science</i> , vol.15, no.3, 2010.	<u>2010</u>
<u>13</u>	Point Spread Function for Multi-Rectangular Aperture, <i>Journal of Al-Qadisiyah for Pure Science</i> , vol.12, no.3, 2008.	<u>2008</u>
<u>14</u>	Study Theoretical of Supernova Remnants (2003z) by Using Oort Model, (<i>Journal of Babylon University/Pure and Application Sciences</i> , vol.15, no.3, 2008.	<u>2008</u>
<u>15</u>	Analytical for Light Curve of Absolute Visual Magnitude for (SN II), <i>Journal of Aum-Salama of Sciences</i> , vol.3, no.3, 2006.	<u>2006</u>
<u>16</u>	Study the Analytical Solution for Light Curve of Supernova (2000cx) of Type Ia, <i>Journal of Al-Qadisiyah for Pure Science</i> , vol.9, no.4, 2006.	<u>2006</u>
<u>17</u>	Study of Optical Properties for Compound Surface InP (110)2x1, <i>Journal of Babylon University/Pure and Application Sciences</i> , vol.9, no.3, 2004.	<u>2004</u>
<u>18</u>	Study of the Expansion of Supernova Remnants (1987a) in the Interstellar Matter Using Poveda Model, <i>Journal of Al-Qadisiyah for Pure Science</i> , vol.7, no.4, 2002.	<u>2002</u>

languages:

- ✓ Arabic
- ✓ English