



FACULTY FULL NAME: Asla Abdullah Al-Zahrani

POSITION: Lecturer

Personal Data

Nationality | Saudi

Date of Birth | 15/05/1980

Department | Chemistry

Official IAU Email | aalzahrani@iau.edu.sa

Language Proficiency

Language	Read	Write	Speak
Arabic	✓	✓	✓
English	✓	✓	✓
Others (Bahsa Malaya)	✓	✓	✓

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2012-2013	Master's in physical chemistry	Dammam	Imam Abdulrahman bin Faisal University, Science College ,Chemistry Department
2003-2004	Bachelor of Science and Education	AL-Baha	AL Baha University , College of Education for Girls , Chemistry Department

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

PhD	Synthesis and characterization of ZnO nanorods sensitized by narrow bandgap energy metal chalcogenides for photoelectrochemical application
Master	Synthesis and Physical Properties Study of Some Luminescent Solar Collectors using Polymeric Media Doped with Different Dyes.

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Lecturer	Imam Abdulrahman bin Faisal University, Science College ,Chemistry Department	2013 till now.



Job Rank	Place and Address of Work	Date
Teaching assistant	Imam Abdulrahman bin Faisal University, Science College, Chemistry Department	2008-2013
Teaching assistant	AL Baha University , College of Education for Girls , Chemistry Department	2006-2008

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
The representative of the faculty of science for community service and sustainable environment in the chemistry department.	Chemistry Department	2017
The supervisor of Chemistry club	Chemistry Department	from 2015 to 2017.
Member of the Commission for Academic Accreditation and Quality	Chemistry Department	from 2011 until 2017.
Member of the Exams Management Committee	Chemistry Department	From 2009 to 2011
Member of the Committee in Academic guidance	Chemistry Department	From 2008 to 2017
Member of the Exams Committee	Department of Computer Science	2009
Member of the Exams Committee.	Department of Mathematics	2008

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
1	Al-Zahrani, A.A., Zainal, Z., Talib, Z.A., Lim, H.N., Fudzi, L.M., Holi, A.M., Ali, M. and Sarif, M., 2020..	Effect of Annealing Temperature on the Performance of ZnO Seed Layer for Photoanode in Photoelectrochemical Cells	In <i>Defect and Diffusion Forum</i> (Vol. 398, pp. 156-166). Trans Tech Publications Ltd. (2020)
2	Al-Zahrani, A. A., Zulkarnain Zainal, Zainal Abidin Talib, Janet Lim Hong Ngee, Laimy Mohd Fudzi, Araa Mebdir Holi and Mahanim Sarif @Mohd Ali”,	“Effect of hydrothermal growth temperature and time on physical properties and photoanode performance of ZnO Nanorods	<i>International Journal of Nanoelectronics and Materials</i> (2020) 13(2): 341-360.(Q3/IF 2018=0.88). Publisher:Universiti Malaysia Peerlis (UniMAP)
3	AL-Zahrani, A. A., Zainal, Z., Talib, Z. A., Lim, H. N., Mohd Fudzi, L., & Holi, A. M.	Synthesis of Binary Bi ₂ S ₃ /ZnO Nanorod Array Heterostructure and Their Photoelectrochemical Performance.	Journal of Nanomaterials, (2019)2019: 1-10. (Q2/IF 2019= 2.233). Puplicher: Hindawi Publishing Corporation.
4	AL-Zahrani, A. A., Zulkarnain Zainal, Zainal Abidin Talib, Janet Lim Hong Ngee, , Araa Mebdir Holi and Noor Nazihah Bahrudin,	Effect of the annealing temperature on the photoconversion efficiency of heterostructured photoanode Bi ₂ S ₃ /ZnO nanorods in photoelectrochemical cells	(2019) “, special issue of the International Journal of Nanotechnology (Scopus Indexed) by Inderscience Publishers (In Press).



#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
5	AL-Zahrani, A. A., Zainal, Z., Talib, Z. A., Lim, H. N., & Holi, A. M.	Bismuth sulphide decorated ZnO nanorods heterostructure assembly via controlled SILAR cationic concentration for enhanced photoelectrochemical cells	(2020). Materials Research Express, 7(2): 025510. (Q2/IF 2019= 1.449). Puplicher: IOP Publishing Ltd.
6	AL-Zahrani, A. A., Zulkarnain Zainal, Zainal Abidin Talib, Janet Lim Hong Ngee, Laimy Mohd Fudzi, Araa Mebdir Holi and Mahanim Sarif @Mohd Ali	Effect of the heat treatment on the photoelectrochemical performance of binary heterostructured photoanode Ag ₂ S/ZnO nanorods in photoelectrochemical cells,	(2020) "Materials Science Forum under the Special Issue «Current Advances in Materials Applications» (In Press) (Q3/IF 2018= 0.35). Publisher: Trans Tech Publications Ltd.
7	Al-Weally, D.H., Holi, A.M. and AL-Zahrani, A.A.,	Structural, Optical, Morphological Properties of ZnO Nanoparticle/ZnO Nanorods.	2019, September. Journal of Physics: Conference Series (Vol. 1294, No. 2, p. 022030). IOP Publishing.
8	Holi, A. M., & AL-Zahrani, A. A..	Spin Coating Technique for the Synthesis of Hexagonal Cd _x Zn _{1-x} S Decorated Pure ZnO Nanorods Arrays	(2020). solar cells, 16, 17
9	Holi, A.M. and AL-Zahrani, A.A.,	Preparation and improved photoelectrochemical performance of ternary nano-heterostructure of Bi ₂ S ₃ /CdS/ZnO nanorods.	2019. Materials Research Express, 6(11), p.115073.
10	Holi, A. M., AL-Zahrani, A. A., Najm, A. S., Chelvanathan, P., & Amin, N.	PbS/CdS/ZnO nanowire arrays: Synthesis, structural, optical, electrical, and photoelectrochemical properties.	(2020). Chemical Physics Letters, 137486.
11	DALLEL, M., AL-ARFAJ, A. A., AL-OMAIR, N. A., ALKHALDI, M. A., ALZAMEL, N. O., AL-ZAHRANI, A. A., & OUERFELLI, N.	A Novel Approach of Partial Derivatives to Estimate the Normal Boiling Temperature via Viscosity Arrhenius Behaviour in N, N-Dimethylformamide+ Ethanol Fluid Systems.	(2017). Asian Journal of Chemistry, 29(9).
12	S. M. Reda, Asla A. Al-Zahrani	Ponceau 2R Doped Poly (ST/MMA) as Fluorescent Solar Collectors and Evaluation Effect of Matrix on Their Field Performance."	(2012), Open Journal of Energy Efficiency.

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Asla.A.AL-Zahrani, Zulkarnain Zainal, Zainal Abidin Talib, Janet Lim Hong Ngee, Araa Mebdir Holi (2019)	"Bismuth sulphide decorated ZnO nanorods heterostructure assembly via controlled SILAR cationic concentration for enhanced photoelectrochemical cells,"	6th International Conference on Nanotechnology, Nanomaterials & Thin films for Energy Applications(27-29 July 2019). The National Energy University, Kuala Lumpur, Malaysia. (Best Presenter Award)



#	Name of Investigator(s)	Research Title	Conference and Publication Date
2	Asla.A.AL-Zahrani, Zulkarnain Zainal, Zainal Abidin Talib, Janet Lim Hong Ngee, Araa Mebdir Holi	Effect of the annealing temperature on the photoconversion efficiency of heterostructured photoanode Bi ₂ S ₃ /ZnO nanorods in photoelectrochemical cells,”	“International Symposium on Advanced Materials & Nanotechnology (i-SAMN 2019) (19-20th August 2019 at Putrajaya Marriott Hotel, Malaysia.
3	Asla.A.AL-Zahrani, Zulkarnain Zainal, Zainal Abidin Talib, Janet Lim Hong Ngee, Laimy Mohd Fudzi, Araa Mebdir Holi and Mahanim Sarif @Mohd Ali (2019) “	Effect of the heat treatment on the photoelectrochemical performance of binary heterostructured photoanode Ag ₂ S/ZnO nanorods in photoelectrochemical cells,”	11th International Fundamental Science Congress 2019 (IFSC 2019), 30-31 October 2019, Palm Garden Hotel, IOI Resort City, Putrajaya, Malaysia. (Best Poster Reward)

Current Researches

#	Research Title	Name of Investigator(s)
1	Improvement of photocurrent generation of ZnO NRAs sensitized photoelectrochemical cell through co-sensitization with Ag ₂ S and Bi ₂ S ₃	Asla.A.AL-Zahrani, Zulkarnain Zainal, Zainal Abidin Talib, Hong Ngee Lim, Araa Mebdir Holi, Noor Nazihah Bahrudin

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	6th International Conference on Nanotechnology, Nanomaterials & Thin films for Energy Applications.	(27-29 July 2019). The National Energy University, Kuala Lumpur, Malaysia	Oral presentation. (Best Presenter Award)
2	“International Symposium on Advanced Materials & Nanotechnology (i-SAMN 2019)	(19-20th August 2019 at Putrajaya Marriott Hotel, Malaysia.	Oral presentation
3	11th International Fundamental Science Congress 2019 (IFSC 2019),	30-31 October 2019, Palm Garden Hotel, IOI Resort City, Putrajaya, Malaysia.	Poster - (Best Poster Reward) { the RSC Congress Poster}

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
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1	General Chemistry (1)		labs
2	General Chemistry (2)		labs
3	Physical Chemistry (Thermodynamics)		labs
4	Physical Chemistry (electricity -1)		labs
5	Physical Chemistry (electricity -2)		labs
6	Physical Chemistry (phase rule).		labs
7	Physical Chemistry (surface chemistry and catalysis colloids).		labs
8	Organic Chemistry (2).		labs
9	Organic Chemistry in the Department of Biology		labs
10	Analytical Chemistry.		labs
11	Chemistry of transition elements.		labs
12	Physical Chemistry (kinetics of chemical reactions)		labs
13	Computer Applications in Chemistry		labs
14	Biochemistry		labs

Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	To
1	Physical Chemistry (kinetics of chemical reactions)	✓		✓		2016	2017
2	Biochemistry	✓		✓		2015	2016

Committee Membership

#	From	To	Position	Organization
1	2019	now	Member	INSTITUT KIMIA MALAYSIA Malaysian Institute of Chemistry

Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2019	now	Member of club	Saudi Club in Kuala Lumpur
2	2020		Supervisor	creative Olympics for Science-Mawhiba
3	2019	now	Member	Rawasn for Saudi Academic Writing

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Leading international computer skills certification-ICDL (80 hours)
2	Training of Trainers (TOT) (120 hours)



3	Chemical training Bag (important skills for the data analysis and graphing software Origin Pro; laboratory safety; GATD (basic care: CPR &AED); Xpert high score software Principle)
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Last Update

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