



Curriculum Vitae

General Information:

Full Name	:	Alaa Muhsain Atiaa Al-Abadi
Title	:	Professor
University	:	Basrah
College	:	Science
Department	10	Geology
Official E-mail	:	alaa.atiaa@uobasrah.edu.iq



Qualification and Certification

General Specialization	Geology		
Specific Specialization	Hydrogeology		
Certificate	Date	University	Country
B. Sc.	1998	Basrah	Iraq
M. Sc.	2000	Basrah	Iraq
Ph. D	2012	Baghdad	Iraq
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Master Thesis: Hydrogeology of Safwan-Zubair area, south of Iraq

Ph.D. Thesis: Hydrological and hydrogeological analysis of northern Missan Governorate, south of Iraq using geographic information system

Teaching Experiences:

Title of Course	B.S	M.S	Ph.D	Name of Institution
Statistical Geology	*			University of Basra
Geophysics	*			University of Basra
Well logging	*			University of Basra

Petroleum reservoir	*			University of Basra
Hydrology	*			University of Basra
Groundwater hydrology	*			University of Basra
Computer Sciences	*			University of Basra
Environmental Geology	*			University of Basra
Advanced hydrogeology		*	*	University of Basra
Advanced statistics		*		University of Basra
Advanced hydrochemistry	h	*		University of Basra
Application of GIS in water resources		*	*	University of Basra

Administrative Positions:

Job Title	Dlaga of Work		Date	NI
Place of Work		From	To	Name of Institution
Lecturer	Sciences College	2000	Continuing	University of Basra

Academic Rank:

Degree Hold	Rank				Name of Institution	Date	
(M.S./Ph.D.	Instruct	Assista	Associat	Professo		From	То
Ph.D.				*	University of Basra	2015	Now
100		210	178 _	۵۱۳۸	1		

Articles/Patents

Publishing	Journal Name	Title	No.
house			
Elsevier	J. of Petroleum Sciences and Engineering	GIS-based machine learning models for mapping tar mat zones in upper part (DJ unit) of Zubair Formation in North Rumaila supergiant oil field, southern Iraq	.1
Elsevier	Atmospheric research	Long-term trends in daily temperature extremes in Iraq	-2
Springer	Arabian Journal of Science and Engineering	Spatial Mapping of Groundwater Potential Using Entropy Weighted Linear Aggregate Novel Approach and GIS	.3
Elsevier	Measurements	Selection of Gridded Precipitation Data for Iraq using Compromise Programming	.4
Springer	Modeling Earth System and Environment	Spatial mapping of artesian zone at Iraqi southern desert using a GIS-based random forest machine learning model	.5
Springer	Sustainable water Resources Management	A GIS-based combining of frequency ratio and index of entropy approaches for mapping groundwater availability zones at Badra–Al Al-Gharbi–Teeb areas, Iraq	.6

Springer	Environmental Earth Sciences	IS-based integration of catastrophe theory and analytical hierarchy process for mapping flood susceptibility: a case study of Teeb area, Southern Iraq	.7
Springer	Environmental Monitoring and Assessment	Prediction of groundwater flowing well zone at An-Najif Province, central Iraq using evidential belief functions model and GIS	.8
Springer	Environmental Monitoring and Assessment	A comparison between index of entropy and catastrophe theory methods for mapping groundwater potential in an arid region	.9
Springer	Environmental Earth Sciences	Groundwater potential mapping at northeastern Wasit and Missan governorates, Iraq using a data-driven weights of evidence technique in framework of GIS	.10
-	Iraqi Journal of Science	Mapping groundwater quality Index for irrigation in the Dibdibba aquifer at Karbala - Najaf plateau, central of Iraq	.11
1	Iraqi Journal of Science	Estimation of Groundwater recharge by groundwater level fluctuation method of Dibdibba aquifer at Karbala- Najaf plateau, central of Iraq	.12
Springer	Arabian Journal of Science and Engineering	A GIS-Based Integrated Fuzzy Logic and Analytic Hierarchy Process Model for Assessing Water- Harvesting Zones in Northeastern Maysan Govern orate, Iraq	.13
Springer	Arabian Journal of Geosciences	Mapping flood susceptibility in an arid region of southern Iraq using ensemble machine learning classifiers: a comparative study	.14
Elsevier	Atmospheric Research	Long-term trends in daily temperature extremes in Iraq	.15
Springer	Environmental Earth Sciences	A novel geographical information system-based Ant Miner algorithm model for delineating groundwater flowing artesian well boundary: a case study from Iraqi southern and western deserts	.16
Springer	Environmental Earth Sciences	Susceptibility mapping of gully erosion using GIS-based statistical bivariate models: a case study from Ali Al-Gharbi District, Maysan Governorate, southern Iraq	.17
Springer	Environmental Earth Sciences	Mapping groundwater zones contaminated by hydrocarbons in the Dammam aquifer in the Karbala–Najaf plateau, Iraq	.18
Maxwell Scientific Publication Corp	Research Journal of Applied Sciences, Engineering and	A Committee Machine with Intelligent Systems for Estimating Monthly Mean Reference Evapotranspiration in an Arid Region	.19
Springer	Technology International journal of Environmental Science and Technology	Flowing well potential zoning at Iraqi southern and western deserts using frequency ratio and geographic information system	-20
Springer	Applied Water Sciences	The application of Dempster-Shafer theory of evidence for mapping groundwater vulnerability at Galal Badra basin, Wasit governorate, east of Iraq. Applied Water Science	.21
Springer	Applied Water Sciences	Modeling of groundwater productivity in northeastern Wasit Governorate, Iraq using frequency ratio and Shannon's entropy models	-22
Springer	Applied Water Sciences	Modeling of stage–discharge relationship for Gharraf River, southern Iraq using backpropagation artificial neural networks, M5 decision trees, and Takagi–Sugeno inference system technique: a comparative study.	.23
Springer	Applied Water Sciences	A GIS-based DRASTIC model for assessing intrinsic groundwater vulnerability in northeastern Missan governorate, south Iraq.	.24
-	J. of Environmental and Earth Science	Groundwater potential mapping of the major aquifer in northeastern Missan governorate, south of Iraq using analytical hierarchy process and GIS	.25
-	Iraqi J. of Science	Estimation of groundwater recharge for the main aquifer in the northeastern Missan governorate, south of Iraq using chloride mass balance technique	.26

-	JZS	Estimation of surface runoff in northeastern Missan	.27
		governorate using (NRCS-CN) technique and GIS	
-	Marsh Bulletin	Impact of climate changes on the hydrological regime of Teeb	.28
		River, Missan governorate, south of Iraq	
-	Baghdad	Using fuzzy logic for estimating monthly pan evaporation	.29
	Science J.	from meteorological data in Emara/ south of Iraq	
-	Basra J of	Prediction of river discharge using artificial neural networks:	-30
	Science	an example of Gharraf River, south of Iraq	
-	J. of Al-Anbar	A fuzzy logic approach to infer reservoir permeability from	-31
	University for	depth and porosity measurements for Mishrif limestone	
	Pure Science	Formation at Nasyria Oil field, south of Iraq.	
-	Marsh Bulletin	Rainfall-runoff modeling by using M5 model trees technique:	-32
		an example of Tigris catchment area in Baghdad, middle of	
		Iraq	
-	Iraqi Journal of	The effect of a hypothetical artificial recharge program on	-33
	Earth Sciences	water table altitudes of shallow Dibdibba sandy aquifer in	
		Safwan-Zubair area, south of Iraq	
-	Basra Journal of	Simulation of flow regime of Dibdiabba sandy aquifer in	-34
	Science	Safwan-Zubair area, south of Iraq	
-	Iraqi J. of	Basra Journal of Science	-35
	Science		
-//	Basra Journal of	The use of two-layer numerical based model to estimate	-36
1	Science	hydraulic properties from pumping test on large diameter	
	W.	hand dug wells partially tapping unconfined to semi-confined	
		water bearing layer	
170)	Basra Journal of	Determination of hydraulic properties from pumping test on	.37
	Science	large diameter hand dug wells using numerical methods,	
	1 0	Safwan-Zubair area case study	
	J. of the College	Management of groundwater resource of Dibdibba sandy	-38
	of Arts	aquifer in Safwan-Zubair area, south of Iraq	
	Iraqi J. of	Mapping groundwater quality Index for irrigation in the	.40
	Science	Dibdibba aquifer at Karbala - Najaf plateau, central of Iraq	
IWA	J. of	A comparative assessment of fuzzy logic and evidential belief	.41
	hydroinformatics	function models for mapping artesian zone boundary in an	
		arid region, Iraq	

No. of Ph. D and M.Sc. students (graduate): 12

Skills:

- Having good command of English (Reading, Writing, Speaking and Listening).

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- Familiarity with Software:
- ArcGIS
- MATLAB
- Rockworks
- Surfer
- MS office (word, Excel, Power point).
- SAGA
- R statistical Package