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ACADEMICS

Ph.D in Earth Sciences Department of Earth Sciences, Quaid.I.Azam University, Islamabad, Pakistan	2013
M.Sc in Geology Department of Geology, University of the Peshawar, Peshawar, Pakistan.	1999

EXPERIENCE

Total experience 20+ years

University of Haripur, Pakistan Assistant Professor, Department of Earth Sciences	2018-present
University of Haripur, Pakistan Head of Department, Department of Geology	2016 – 2018
University of Haripur, Pakistan Assistant Professor at the Department of Geology	2015 to 2016
Bahria University, Islamabad Senior Assistant Professor	2009 – 2015
Quaid.I.Azam University, Islamabad Visiting faculty	2009
Balochistan University of Engineering and Technology Khuzdar, Pakistan Lecturer	2001-2009

Field and software skills

Hydrogeologic mapping,
Hydrochemical studies,
Groundwater Numerical flow models,
Contaminant transport models,
Resistivity surveys,
Static aquifer modeling,
Sequence stratigraphy,
Geological field organization and supervision in Salt Ranges and Northern areas of Pakistan,
Research supervision, Mentoring of students

Review of research papers and reports

Softwares: Global Mapper, Arc GIS, Visual MODFLOW, AquaChem, Rockworks, Surfer and USGS GW Charts.

Projects Completed

1	Assessment of Shale Gas Potential of the Cretaceous Chichali Formation, Hazara Basin, Lesser Himalaya, Pakistan. (HEC-SRGP)	2021
2	Groundwater potential assessment in Sector D.12, Islamabad using ERS (Private)	2015
3	Groundwater quality assessment of the Bara Kahu area, Islamabad (Private)	2012
4	Groundwater flow model development of the CRBC command area, D. I. Khan (Private)	2007
5	Contaminant Transport Model of Arsenic in D. I. Khan Groundwater (Private)	2013
	Hydrostratigraphic model development of the Islamabad area (Private)	2010
6	Groundwater quality assessment around the temporary landfill sites, Islamabad (Private)	2010
7	Electrical Resistivity surveys of various areas of Pakistan (Private)	2006-2015
8	Economic mineral exploration -Gravity data acquisition in Silanwali, Sargodha (Private)	2006
9	Geological Survey of Pakistan in Thar Coal Project Karachi	2000
10	M/s Geotechnique Pvt Ltd Karachi for the soil investigation and site incharge	2000

Thesis Supervised

Supervised 30 BS and 14 MS theses on various topics related to Earth Sciences.

Currently supervising 02 PhD's as co-supervisor

PUBLICATIONS

Total Impact factor: **23.21**; Citations: **99**; H index: **4**

Journal publications

1. Zulfiqar Ahmad, **Anwar Qadir** (2011). Source evaluation of physicochemically contaminated groundwater of Dera Ismail Khan area, Pakistan. Environmental Monitoring and Assessment; 175(1.4):9.21. DOI:10.1007/s10661.010.1489.1. (HEC W Category)
2. Muhammad Usman, Dr. Muhammad Zafar, Dr. Mamuru Morata, Dr. Tehseenullah Khan and **Anwar Qadir**: 2011 Analysis of Correlation between Temperature Increase and Earthquake Frequency in Northern Pakistan. IPCBEE, Vol 24, IACSIT Press, Singapore.
3. **Anwar Qadir**, Z. Ahmad, T. Khan, M. Zafar (2014). Causes and effects of temporal groundwater level change in the alluvial aquifer of Dera Ismail Khan area, Pakistan. Journal of Himalayan Earth Sciences; 47(2):185.191. (HEC X Category)
4. Atwar Qadir, Muhammad Tufail, **Anwar Qadir**, Mayeen Uddin Khandaker (2015). Indoor radon

concentration in hydrocarbon and non-hydrocarbon pertaining areas across the Main Boundary Thrust in Attock district of Pakistan. *Indoor and Built Environment*; DOI:10.1177/1420326X15588213. (HEC W Category)

5. Khan, T., Murata, M., Jan, M.Q., Rehman, H.U., Zafar, M., Ozawa, H., **Qadir, A.** and Mehmood, S. (2016), Geochemistry and Tectonic Settings of Felsic Dykes in the Neoproterozoic Nagar Parkar Igneous Complex, SE Sindh, Pakistan. *Acta Geologica Sinica - English Edition*, 90: 124-124. <https://doi.org/10.1111/1755-6724.12926> (HEC X Category)
6. **Anwar Qadir**, Zulfiqar Ahmad, Tahseenullah Khan, Muhammad Zafar and Mamoru Murata (2016) A spatio-temporal three-dimensional conceptualization and simulation of Dera Ismail Khan alluvial aquifer in Visual MODFLOW: a case study from Pakistan. *Arabian Journal of Geosciences*. (HEC W Category)
7. Muhammad Saqib Khan · **Anwar Qadir** · Asif Javed, Muhammad Raiees Amad and Salim Shahzad (2016) Assessment of Aquifer Intrinsic Vulnerability using GIS Based Drastic Model in Sialkot Area, Pakistan. *International journal of environmental and economic geology(IJEEG)*. (HEC Y Category)
8. Asif Javed, Adnan Salim Khan, **Anwar Qadir**, Salman Khan, and Salim Shehzad, (2017) Comparative analysis of water quantity and quality in relation to vegetation cover in Himalayan moist temperate forests of galliyat. *International Journal of Economic and Environmental Geology*. (HEC Y Category)
9. Khan Tahseenullah, Jan Murata Mamoru, M. Q, Rehman Hafiz Ur, Zafar Muhammad, Ozawa Hiroaki, **Anwar Qadir** & Saqib Mehmood (2017). Geochemistry and Tectonic Settings of Felsic Dykes in the Neoproterozoic Nagar Parkar Igneous Complex, SE Sindh, Pakistan. *AJGS, Springer-Verlag*. (HEC W Category)
10. Khurram Shahzad, Betzeler C, Nadeem Ahmed, Qayyum F, Silvia Spezzaferri and **Anwar Qadir**, (2017). Growth and demise of a Paleogene isolated carbonate platform of the Offshore Indus Basin, Pakistan: effects of regional and local controlling factors. *International Journal of Earth Sciences*, Springer-Verlag. (HEC W Category)
11. **Anwar Qadir**, Alwina Farooq, Tahseenullah Khan, Muhammad Zafar and Asif Javed (2017). Water quality assessment and hydrochemistry of shallow groundwater in Bhara Kahu area, Islamabad, Pakistan. *International Journal of Economic and Environmental Geology*. (HEC Y Category)
12. Aneela Khan, **Anwar Qadir**, Muhammad Zafar, and Tahseenullah Khan. (2017). A Three-dimensional Modeling approach to groundwater management in Paharpur Canal Command area, Dera Ismail Khan, Pakistan. *European Water Resources Journal*.
13. Ishaq Ahmad, Sajjad Hussain, **Anwar Qadir** and Naseer Muhammad Khan (2018). Estimation of Cleaning Efficiency of Clay Removal from Bauxite. *International Journal of Economic and Environmental Geology* (HEC Y Category)
14. **Anwar Qadir**, Muhammad Raiees Amjad, Tahseenullah Khan, Muhammad Zafar, Muhammad Hasham, Umair Ali Khan, Uzair Ahmed, Salman Ahmed Khattak and Ishaq Ahmad (2019) Demarcation of Groundwater Potential Zones by Electrical Resistivity Survey (ERS) Islamabad, Pakistan. *International Journal of Economic and Environmental Geology* (HEC Y Category)
15. Shah, S. A., & **Qadir, A.** (2020). Fracture Analysis of Rocks for Slope Stability Assessment in SiriKot Area, District Haripur, Khyber Pakhtunkhwa, Pakistan. *International Journal of Economic and*

Environmental Geology, 11(3), 53-56. (HEC Y Category)

16. Shah Faisal Zeb, Muhammad Zafar, Samina Jahandad, Tahseenullah Khan, Syed Mamoon Siyar and **Anwar Qadir** (2020). Integrated geochemical study of Chichali Formation from Kohat sub-basin, Khyber Pakhtunkhwa, Pakistan. *Journal of Petroleum exploration and production technology*. (HEC X Category)
17. Toosy, M., Khan, S., Shakir, U., Umair Bin Nisar, Kaleem Ullah, **Anwar Qadir** & Maas Siddique (2021). Depositional Architecture of Eocene and Cretaceous Reservoirs (Blending Seismic and Well Data) in Mubarik Area, Central Indus Basin, Pakistan. *Pure Appl. Geophys.* . <https://doi.org/10.1007/s00024-021-02715-0>. (HEC W Category)
18. **Qadir, A.** and El-Rawy, M., (2021). Impact Assessment of Physiography, Subsurface Hydraulic Gradients and Lithologic Heterogeneity on the Groundwater Quality. *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, pp.1-22. (HEC X Category)
19. Ahmed, S., **Qadir, A.**, Khan, M.A. *et al.* 2021. Assessment of groundwater intrinsic vulnerability using GIS-based DRASTIC method in District Haripur, Khyber Pakhtunkhwa, Pakistan. *Environ Monit Assess* **193**, 487. <https://doi.org/10.1007/s10661-021-09263-z>. (HEC W Category)
20. Mehmood, A., **Qadir, A.**, Ehsan, M. *et al.* 2021. Hydrogeological Studies and Evaluation of Groundwater Quality of District Haripur, Khyber Pakhtunkhwa, Pakistan. Desalination and water treatment (Accepted). (HEC W Category)

Conference Proceedings

1. Farooqui. A. A, **Qadir Anwar** and Essa. M. (2004). Impact of naturally contaminated groundwater of the Ferozabad, Khuzdar District, Balochistan. Presented at a seminar on National Drainage in Pakistan at Water Management Department, Agricultural University, Peshawar in June 2004.
2. Ehsanullah Kakar, Maqsood A. Khan, and **Anwar Qadir**. (2004). Seismic Refraction Technique Versus Direct Borehole Data Fall Analyzing Subsurface Soil Horizon. Proceedings of the National Seminar on Environmental, Social, and Cultural Impacts of Water Scarcity in Sindh, organized by University of Sindh, Jamshoro. January 15.16, 2004: 31.40.
3. Abir, A. I. Khan, S. D. **Qadir, A.** (2011). Exploring Salt Tectonics In Northern Pakistan using InSAR and Geophysical Techniques. *Geological Society of America Abstracts*, Vol. 43, No. 5, p 592.
4. Tahseenullah Khan, Abid Ahmad, Muhammad Nawaz Chaudhry, Mamoru Murata, Hafiz Ur Rehman, Muhammad Zafar and **Anwar Qadir** (2014). Origin of the Permo.Triassic Swat.Chakdarra granites in the higher Himalayan region of Pakistan: I. or S.type granites. ESP 2014, National Center of Excellence, University of Peshawar.
5. **Anwar Qadir**, Khurram Shahzad, Betzeler C, Qayyum F (2015). Seismo.stratigraphy and Drowning of the Paleogene Carbonate Platform, Offshore Indus Basin, Pakistan. IMS Krawkow, Poland, Krakow, Poland.
6. Qadeer Ahmad, **Anwar Qadir** and Mohsin Muneer (2013). Mitigation Exploration Risk by Seismic Inversion, Penobscot Area, Offshore, Canada. Annual Technical Conference, PAPG, Pakistan.
7. Zaheer.ud.Din.Babar, Wajid Mehmood, **Anwar Qadir** and Umer Manzoor (2012) Utilization of seismic and petrophysical data for hydrocarbon potential evaluation of Bijnot.01 Well, Fort Abbas Area Central Indus Basin, Pakistan, ESP 2012, National Center of Excellence in Geology.

8. Salman Ahmed Khattak, Waseem Khan, Saddam Hussain, **Anwar Qadir**, Nasir Khan, Adnan Khan, Saeed Anwar and Noman Saif. (2016). Microfacies, diagenetic fabric and depositional environment of Middle Jurassic Samanasuk Formation, Khwari Khwar section, Khyber Pakhtunkhwa, Pakistan. “**2nd International Conference on Sustainable Utilization of Natural Resources**, ”.
9. Tahseenullah Khan, Abid Ahmad, Muhammad Nawaz Chaudhry, Mamoru Murata, Hafiz Ur Rehman, Muhammad Zafar and **Anwar Qadir** 2016 Geochemistry and Tectonic Settings of Felsic Dykes in the Neoproterozoic Nagar Parkar Igneous Complex, SE Sindh, Pakistan. **Conference Paper** · “The Seventh International Dyke Conference, “Dyke Swarms: Keys to Paleogeographic Reconstruction”, At China, Volume: Vol. 90, Supp.1.
10. Sajjad Ahmed Shah and **Anwar Qadir**, 2017, Rock slope stability analysis along with a roadside section of the Sirikot Area, District Haripur, Hazara, Pakistan. ICASE 2017.
11. Aneela Khan, Anwar Qadir, Muhammad Zafar, and Tahseenullah Khan. (2017). A Three-dimensional Modeling approach to groundwater management in Paharpur Canal Command area, Dera Ismail Khan, Pakistan.
12. **Anwar Qadir**, Salman Ahmed Khattak, Muhammad Hasham, Uzair Ahmed, Umair Ali Khan (2019) Demarcation of Groundwater potential zones using Electrical Resistivity Survey (ERS), Sector D-12, Islamabad. International Conference on Water resources in University of Haripur, Pakistan.
13. **Anwar Qadir**, Irfanullah khan, Ibrahim khan, Awais gul jadoon, Sultan-e-room (2019) Spatial variations of hydrostratigraphy for aquifer classification in Haripur area, Pakistan. International Conference on Water resources in University of Haripur, Pakistan.
14. **Anwar Qadir**, Izhar Muhammad, Musharaf Khan, Waseem Akhtar, Muhamad Zafran and Shahsawar (2019). The hydrogeologic setting and the groundwater budget delineation of the Mardan area, KP, Pakistan. International Conference on Water resources in University of Haripur, Pakistan.

Trainings and WORKSHOPS

TYPE	TITLE	COUNTRY	YEAR
International training workshop, Quaid-I-Azam University and Chinese Academy of Sciences	International training workshop on Resource and Environment Sceintific Data sharing and Disaster Risk Reduction Knowledge	Pakistan	2019
Professional training course, NARC, Pakistan	8 th Professional training course on watershed	Pakistan	2014
International workshop (COMSTECH, Pakistan)	Sustainable water management	Pakistan	2013
Workshop (NUST, Pakistan)	Water reclamation and reuse	Pakistan	2011
APSCO symposium (SUPARCO, Pakistan)	Food security through satellite technology	Pakistan	2010
One week course (Quaid-I-Azam University, Pakistan)	Contaminant hydrogeology	Pakistan	2008
Seminar on National Drainage in Pakistan (NDP) (Agricultural University, Peshawar, Pakistan)	Impact of Naturally contaminated groundwater of the Khuzdar District, Balochistan (Presenter)	Pakistan	2004

MEMBERSHIPS

- Geological Society of America (GSA)
- Society of Exploration Geophysicists (SEG)
- Pakistan Association of Petroleum Geoscientists (PAPG).
- Member of Board of Studies, Bacha Khan University, Charsadda
- Member of Board of Studies, Abbottabad University of Science and Technology, Havelian
- Member of Selection Board, Bacha Khan University, Charsadda
- Member of the review committee of the Journal of Himalayan earth sciences
- Member of the review committee of the International Journal of environmental and economic geology
- Member of the review committee Journal of Environmental Earth Sciences, Springer
- Member of the review committee Arabian Journal of Geosciences, Springer