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RESEARCH INTERESTS

- Groundwater quality/Hydrochemistry
- Hydrological hazards
- Groundwater resources assessment
- Groundwater Modelling
- GIS

SKILLS

- Expertise in hydrochemistry with peer reviewed publications on hydrochemical processes influencing groundwater quality in various regions of the Kingdom of Saudi Arabia
- Field experience of carrying out 2-D resistivity surveys for groundwater exploration
- Knowledge and experience of using various aquifer tests software and analytical techniques especially suited for fracture/fissured aquifer.
- Experience of water well drilling supervisions and drill cutting interpretations for construction of well lithologs
- Field experience of conducting various hydraulic tests such as pumping tests, step draw down tests and slug tests
- Wide experience in the field of water level monitoring, installing and retrieving data from Automatic Water Level Recorders, water sample collection for qualitative analysis
- Well versed with water quality interpretation, pumping tests interpretation and resistivity imaging software, GIS and Surfer.

WORK EXPERIENCE

<u>September-2015 to present</u>	King Saud University, Riyadh, SAUDI ARABIA - <i>Associate Professor in Geology</i>
<u>July-2008 to August-2015</u>	King Saud University, Riyadh, SAUDI ARABIA - <i>Assistant Professor in Geology.</i>
<u>April-2007 to May 2008</u>	UNESCO Office in New Delhi, INDIA - <i>Post Doctoral Researcher</i>
<u>Nov-2005 to March-2007</u>	National Geophysical Research Institute, Hyderabad, INDIA - <i>Senior Research Fellow</i>

Oct-2004 to Oct-2005

**BRGM (French Geological Survey), Montpellier, FRANCE -
*Doctoral Fellow***

Jan-2003 to Sept-2004

**National Geophysical Research Institute, Hyderabad, INDIA -
*Junior Research Fellow***

EDUCATION

2003-2006 **PhD in Hydrogeology** (NGRI , Hyderabad/ Aligarh Muslim University, INDIA)

Topic of PhD Thesis: *"Characterization of Aquifers in fractured crystalline terrain in the Maheshwaram Watershed, Rangareddy district, Andhra Pradesh, India"*

July, 2002 M.Sc in Applied Geology from Aligarh Muslim University, Aligarh, India

June 2000 B.Sc in Geology from Aligarh Muslim University, Aligarh, India

PAPERS IN ISI JOURNALS

1. **Zaidi, F. K.**, Al-Bassam, A. M., Kassem, O. M., Alfaifi, H. J., & Alhumidan, S. M. (2017). Factors influencing the major ion chemistry in the Tihama coastal plain of southern Saudi Arabia: evidences from hydrochemical facies analyses and ionic relationships. **Environmental Earth Sciences**, 76(14), 472.
2. Abdelfattah, A. K., Al-Amri, A., Abd el-aal, A., **Zaidi, F. K.**, Fnais, M., Almadani, S., & Al-Arifi, N. (2017). The 23 January 2014 Jizan earthquake and its tectonic implications in southwestern Saudi Arabia. **Tectonophysics**.
3. Alfaifi H., Abdelfatah M., Hassanein K., **Zaidi F.K.**, Ibrahim E. & Alarifi N. (2017). Groundwater Management scenarios for the Biaydh - Wasia Aquifer Systems in the eastern part of Riyadh region, Saudi Arabia". **Journal of the Geological Society of India**. 89(6), 617-740.
4. Almadani, S., Alfaifi, H., Al-Amri, A., Fnais, M., Ibrahim, E., Abdelrahman, K., Shehata, M., & **Zaidi, F.** (2017). Hydrochemical characteristics and evaluation of the granite aquifer in the Alwadeen area, southwest Saudi Arabia. **Arabian Journal of Geosciences**, 10(6), 139
5. Alharbi O. A., Loni O. A. & **Zaidi F. K.** (2017). Hydrochemical assessment of groundwater from shallow aquifers in parts of Wadi Al Hamad, Madinah, Saudi Arabia. **Arabian Journal of Geosciences**, 10 (35).
6. Rahman, S. M., Faruk, M. O., Rahman, M. H., Keramat, M., Nawawi, M., & **Zaidi, F. K.** (2016). Group velocity dispersion analysis in northern Peninsular Malaysia. **Arabian Journal of Geosciences**, 9(13), 623.
7. **Zaidi, F. K.**, Mogren, S., Mukhopadhyay, M., & Ibrahim, E. (2016). Evaluation of groundwater chemistry and its impact on drinking and irrigation water quality in the eastern part of the Central Arabian graben and trough system, Saudi Arabia. **Journal of African Earth Sciences**, 120, 208-219.
8. Nazzal, Y., **Zaidi, F. K.**, Abuamarah, B. A., Ahmed, I., Howari, F. M., Naeem, M., ... & Al-Kahtany, K. M. (2016). Evaluation of metals that are potentially toxic to agricultural surface soils, using statistical analysis, in northwestern Saudi Arabia. **Environmental Earth Sciences**, 75(2), 1-10.

9. Salman, A. S., **Zaidi, F. K.**, & Hussein, M. T. (2015). Evaluation of groundwater quality in northern Saudi Arabia using multivariate analysis and stochastic statistics. **Environmental Earth Sciences**, 74(12), 7769-7782.
10. **Zaidi, F. K.**, Nazzal, Y., Jafri, M. K., Naeem, M., & Ahmed, I. (2015). Reverse ion exchange as a major process controlling the groundwater chemistry in an arid environment: a case study from northwestern Saudi Arabia. **Environmental monitoring and assessment**, 187(10), 1-18.
11. **Zaidi, F. K.**, Nazzal, Y., Ahmed, I., Naeem, M., & Jafri, M. K. (2015). Identification of potential Artificial Groundwater Recharge zones in North Western Saudi Arabia using GIS and Boolean Logic. **Journal of African Earth Sciences**, 111: 156-169.
12. **Zaidi, F.K.**, Mukhopadhyay, M. (2015) Morphometric Analysis of the Scoria Cones and Drainage Pattern for the Quaternary and Older Volcanic Fields in Parts of the Large Igneous Province (LIP), Saudi Arabia. **Journal of African Earth Sciences**, 110: 1-13.
13. Nazzal, Y., **Zaidi, F. K.**, Ahmed, I., Ghrefat, H., Naeem, M., Al-Arifi, N. S., Al-Shaltoni, S. A. & Al-Kahtany, K. M. (2015). The combination of principal component analysis and geostatistics as a technique in assessment of groundwater hydrochemistry in arid environment. **Current Science** (00113891), 108(6).
14. **Zaidi, F. K.**, Nazzal, Y., Ahmed, I., Al-Bassam, A. M., Al-Arifi, N. S., Ghrefat, H., & Al-Shaltoni, S. A. (2015). Hydrochemical processes governing groundwater quality of sedimentary aquifers in Central Saudi Arabia and its environmental implications. **Environmental Earth Sciences**, 74(2): 1555-1568. 1-14.
15. Ahmed, I., Nazzal, Y., **Zaidi, F. K.**, Al-Arifi, N. S., Ghrefat, H., & Naeem, M. (2015). Hydrogeological vulnerability and pollution risk mapping of the Saq and overlying aquifers using the DRASTIC model and GIS techniques, NW Saudi Arabia. **Environmental Earth Sciences**, 74(2): 1303-1318.
16. **Zaidi, F. K.**, Kassem, O. M., Al-Bassam, A. M., & Al-Humidan, S. (2014). Factors Governing Groundwater Chemistry in Paleozoic Sedimentary Aquifers in an Arid Environment: A Case Study from Hail Province in Saudi Arabia. **Arabian Journal for Science and Engineering**, 40(7): 1977-1985.
17. Loni, O. A., **Zaidi, F. K.**, Alhumimidi, M. S., Alharbi, O. A., Hussein, M. T., Dafalla, M., AlYousef K.A., and Kassem, O. M. (2014). Evaluation of groundwater quality in an evaporation dominant arid environment; a case study from Al Asyah area in Saudi Arabia. **Arabian Journal of Geosciences**, 1-11.
18. Nazzal, Y., Ahmed, I., Al-Arifi, N. S., Ghrefat, H., Batayneh, A., Abuamarah, B. A., & **Zaidi, F. K.** (2014). A combined hydrochemical-statistical analysis of Saq aquifer, northwestern part of the Kingdom of Saudi Arabia. **Geosciences Journal**, 19(1), 145-155.
19. Nazzal, Y., Ahmed, I., Al-Arifi, N. S., Ghrefat, H., **Zaidi, F. K.**, El-Waheidi, M. M., Batayneh A., & Zumlot, T. (2014). A pragmatic approach to study the groundwater quality suitability for domestic and agricultural usage, Saq aquifer, northwest of Saudi Arabia. **Environmental monitoring and assessment**, 186(8), 4655-4667.
20. Kassem, O. M., Al Bassam, A. A. M., & **Zaidi, F. K.** (2013). Structural analysis for metavolcanics and their metapyroclastics at gold deposit of the Mahd Ad Dahab area, Arabian Shield, Saudi Arabia. **Geology of Ore Deposits**, 55(6), 482-493.

21. **Zaidi, F. K., & Kassem, O. M. K. (2012).** Use of electrical resistivity tomography in delineating zones of groundwater potential in arid regions: a case study from Diriyah region of Saudi Arabia. **Arabian Journal of Geosciences**, 5(2), 327-333.
22. Dewandel, B., Lachassagne, P., **Zaidi, F. K., & Chandra, S. (2011).** A conceptual hydrodynamic model of a geological discontinuity in hard rock aquifers: Example of a quartz reef in granitic terrain in South India. **Journal of Hydrology**, 405(3), 474-487.
23. **Zaidi, F. K. (2011).** Drainage basin morphometry for identifying zones for artificial recharge: A case study from the Gagas River Basin, India. **Journal of the Geological Society of India**, 77(2), 160-166.
24. **Zaidi, F. K., Ahmed, S., Dewandel, B., & Maréchal, J. C. (2007).** Optimizing a piezometric network in the estimation of the groundwater budget: a case study from a crystalline-rock watershed in southern India. **Hydrogeology Journal**, 15(6), 1131-1145.
25. Dewandel, B., Gandolfi, J. M., **Zaidi, F. K., Ahmed, S., & Subrahmanyam, K. (2007).** A decision support tool with variable agro-climatic scenarios for sustainable groundwater management in semi-arid hard-rock areas. **Current Science**, 92(8), 1093-1102.
26. Maréchal, J. C., Dewandel, B., Ahmed, S., Galeazzi, L., & **Zaidi, F. K. (2006).** Combined estimation of specific yield and natural recharge in a semi-arid groundwater basin with irrigated agriculture. **Journal of Hydrology**, 329(1), 281-293.

BOOK/BOOK CHAPTERS

1. Al-Bassam, A.M, and **Zaidi F. K. (2016)** Aqueducts in Saudi Arabia, In Angelakis A. N., Chiotis E., Eslamian S. and Weingartner H. (Eds.) *Underground Aqueducts Handbook*, ISBN 9781498748308. CRC Press, p. 211-228
2. Abdulaziz M Al Bassam, **Faisal K Zaidi** and Mohammed T. Hussein (2014): *Natural Hazards in Saudi Arabia. Extreme Natural Hazards, Disaster Risks and Societal Implications.* (Eds. Alik Ismail-Zadeh, Jaime Urrutia Fucugauchi, Andrzej Kijko, Kuniyoshi Takeuchi, and Ilya Zaliapin). Cambridge University Press. ISBN 978-1-107-03386-3. 464 p
3. **Faisal Kamal Zaidi (2012):** Geological and Hydrogeological Characterization of Hard Rock Aquifers: A case study from an over exploited granitic watershed in a rural setting in South India. LAP LAMBERT Academic Publishing, ISBN: 3659119652, 160 pages.
4. Mohamed Tahir Hussein and **Faisal Kamal Zaidi (2012).** Assessing Hydrological Elements as Key Issue for Urban Development in Arid Regions, *Urban Development*, Dr. Serafeim Polyzos (Ed.), ISBN: 978-953-51-0442-1, InTech.
5. Maréchal, J.C., **Zaidi, F. K.** and Dewandel, B. (2007) Analyses of Aquifer Parameters From Different Hydraulic Tests and Their Scale Effect , In Ahmed, S., Jayakumar, R. and Salih, A. (Eds.) *Groundwater Dynamics in Hard Rock Aquifers*, ISBN 978-1-4020-6539-2. Capital Pub. Co., New Delhi, p. 112-122.
6. Bruel, D., **Zaidi, F. K.** and Engerrand C. (2007) Upscaling of Slug Test Hydraulic Conductivity Using Discrete Fracture Network Modeling in Granitic Aquifers, In Ahmed, S., Jayakumar, R. and Salih, A. (Eds.) *Groundwater Dynamics in Hard Rock Aquifers*, ISBN 978-1-4020-6539-2. Capital Pub. Co., New Delhi, p. 123-133.
7. **Zaidi, F. K., Dewandel, B., Gandolfi, J.M. and Ahmed S. (2007)** Water Budgeting and Construction of Future Scenarios for Prediction And Management of Groundwater Under

Stressed Condition , In Ahmed, S., Jayakumar, R. and Salih, A. (Eds.) Groundwater Dynamics in Hard Rock Aquifers, ISBN 978-1-4020-6539-2.Capital Pub. Co., New Delhi, p. 142-149.

CITATION REPORT FOR 26 ARTICLES FROM WEB OF SCIENCE CORE COLLECTION BETWEEN 2006 AND 2018

Number of Articles	26
Sum of the Times Cited	240
Average Citations per Item	9.23
h-index	9

COURSES TAUGHT AT UNDER GRADUATE LEVEL

- GEO 101: Physical Geology
- GEO 221: Mineralogy
- GEO 236: Stratigraphy and Sedimentology
- GEO 455: Hydrogeology

COURSES TAUGHT AT GRADUATE LEVEL

- GEO 501: Advanced Geology of Saudi Arabia
- GEO 555: Advanced Hydrogeology

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