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Professor

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RESEARCH INTERESTS

- GIS and Remote Sensing
- Managed Aquifer Recharge
- Groundwater resources assessment
- Groundwater quality/Hydrochemistry

WORK EXPERIENCE

<i>Organization</i>	<i>Duration</i>	<i>Designation</i>
<i>King Saud University, Riyadh</i>	Sept 2020 to present	Professor
	Sept 2015 to Aug 2020	Associate Professor
	July 2008 to Aug 2015	Assistant Professor
<i>UNESCO, New Delhi Office</i>	April 2007 to May 2008	Post-Doctoral Researcher
<i>NGRI, Hyderabad</i>	Nov 2005 to March 2007	Senior Research Fellow
<i>BRGM, Montpellier</i>	Oct 2004 to Oct 2005	Doctoral Fellow
<i>NGRI, Hyderabad</i>	Jan 2003 to Sept 2004	Junior Research Fellow

WORKSHOP AND LECTURES DELIVERED

- **Radionuclide Detection and Spatial Analysis in Groundwater: Techniques and Applications:** 22nd June to 3rd July, 2025
- **Geographic Information Systems and Remote Sensing for mapping Sabkha and Dunes in Riyadh and Makkah Region:** 2nd February to 13th February, 2025
- **Utilizing Remote Sensing for Effective Water Resources Management in Arid Regions:** 4th March, 2024.

COMPLETED/ONGOING PROJECTS IN THE KINGDOM OF SAUDI ARABIA

- 2021-2023: *Study of surface and groundwater resources in Buraidah City, Qassim Province, Kingdom of Saudi Arabia* (On-going)
- 2021-22: *Groundwater modeling for the Saq Aquifer in Bukariyah Area, Al-Qaseem Province, Saudi Arabia* (Completed)
- 2020-2022: *Enhanced geothermal systems (EGS) of high heat generating granites: Midyan granite, Northwest of Saudi Arabia* (Completed)
- 2019-2020: *Updating the base map of Arriyadh Natural Setting: Geology and Hydrogeology* (Completed)

- 2016-2019: *Exploration of Groundwater Potentialities of the Sinkholes in Rufa Graben, Ar-Riyadh Area, using Geophysical Techniques* (Completed).
- 2015-2017: *Aquifer Storage and Recovery of Groundwater in Wadi Baysh Basin; Application to Western Saudi Arabia* (Completed)
- 2013-2015: *Hydrogeological vulnerability and risk mapping of ground water resources of the Saq and overlying aquifers, Saudi Arabia, using GIS and DRASTIC techniques.* (Completed).
- 2010-2012: *Impact of Gold Mining on the Hydrological Regime in the Mahd Ad Dhahab region of Saudi Arabia* (Completed).

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 SCI JOURNALS

1. Lashin, A., Makhoulf, O., **Zaidi, F.K.** and Noman, A.A., (2025). Investigating the Geothermal Potentiality of Hail Granites, Northern KSA: The Preliminary Results. **Sustainability**, 17(10), p.4656.
2. Hag-elsafi, S., Elkamali, Y., Salman, A. and **Zaidi, F.K.**, (2025). Assessing the Spatiotemporal variability and trends of rainfall, temperature, and NDVI in Saudi Arabia from 1980 to 2011 using meteorological station data and google earth engine. **Theoretical and Applied Climatology**, 156(1), p.61.
3. Al-Hashim, M.H., Al-Aidaros, A. and **Zaidi, F.K.**, (2024). Geological and Hydrochemical Processes Driving Karst Development in Southeastern Riyadh, Central Saudi Arabia. **Water**, 16(14), p.1937.
Corresponding Author
4. Alshehri, F. and **Zaidi, F.K.**, (2023). Hydrochemical Assessment of Groundwater from the Harrat Khyber Flood Basalts, Northwest Saudi Arabia. **ACS omega**, 8(45), pp.42186-42196.
Corresponding Author
5. El-Rawy, M., Fathi, H., Zijl, W., Alshehri, F., Almadani, S., **Zaidi, F.K.**, Aldawsri, M. and Gabr, M.E., (2023). Potential Effects of Climate Change on Agricultural Water Resources in Riyadh Region, Saudi Arabia. **Sustainability**, 15(12), p.9513.
6. Khan, M.Y.A.; ElKashouty, M.; **Zaidi, F.K.**; Egbueri, J.C., (2023). Mapping Aquifer Recharge Potential Zones (ARPZ) Using Integrated Geospatial and Analytic Hierarchy Process (AHP) in an Arid Region of Saudi Arabia. **Remote Sens.**, 15, 2567. <https://doi.org/10.3390/rs15102567>

7. Aboud, E., Lashin, A., **Zaidi, F.**, Al-Bassam, A., Al Arifi, N., Abu Anbar, M. and Al-Homadhi, E., (2023). Audio Magnetotelluric and Gravity Investigation of the High-Heat-Generating Granites of Midyan Terrane, Northwest Saudi Arabia. **Applied Sciences**, 13(6), p.3429.
8. Lashin, A., Anbar, M.A., Aboud, E., **Zaidi, F.**, Al-Bassam, A., Al Arifi, N. and Al-Homadhi, E., (2023). Geochemistry and Petrogenesis of the Ediacaran Post-Collisional Granitoid Rocks in the Midyan Terrain, Northern Arabian Shield, Saudi Arabia. **Minerals**, 13(3), p.379.
9. Sherif, M., Sefelnasr, A., Al Rashed, M., Alshamsi, D., **Zaidi, F.K.**, Alghafli, K., Baig, F., Al-Turbak, A., Alfaifi, H., Loni, O.A. and Ahamed, M.B., (2023). A Review of Managed Aquifer Recharge Potential in the Middle East and North Africa Region with Examples from the Kingdom of Saudi Arabia and the United Arab Emirates. **Water**, 15(4), p.742.
10. Rashid, A., Siddiqui, N.A., Ahmed, N., Jamil, M., EL-Ghali, M.A., Ali, S.H., **Zaidi, F.K.** and Wahid, A., (2022). Field attributes and organic geochemical analysis of shales from early to middle Permian Dohol Formation, Peninsular Malaysia: Implications for hydrocarbon generation potential. **Journal of King Saud University-Science**, 34(8), p.102287.
11. Kassem, O.M., **Zaidi, F.K.**, Alamri, Y. and Al-Hashim, M., (2022). Structural evolution and Microstructural analysis for al Faydh area, southern Arabian shield, Saudi Arabia. **Journal of African Earth Sciences**, 195, p.104645.
12. Alyousef, R.A., Alfaifi, H.J., **Zaidi, F.K.**, Al-Hashim M. (2022). Geostatistical and pollution index-based approach for assessing heavy metal pollution in the Cambro-Ordovician Saq Aquifer in Central Saudi Arabia. **Environmental Earth Sciences** 81, 370 (2022). <https://doi.org/10.1007/s12665-022-10498-3>
Corresponding Author
13. Kassem, O.M.K., **Zaidi, F.K.**, Alamri, Y. and Al-Hashim, M., (2022). Finite Strain and Structural Evolution for the Ajjaj Shear Zone, Northwestern Arabian Shield, Saudi Arabia. **Geotectonics**, pp.1-13.
14. **Zaidi, F.K.**, Lashin, A., Aboud, E., Al Arifi, N., Al-Bassam, A., Al-Homadhi, E. and Anbar, M.A., (2022). Silica geothermometry and multi indices approach to characterize groundwater from Midyan region in Northwestern Saudi Arabia. **Journal of African Earth Sciences**, p.104557.
15. Zoheir, B.A., Gahlan, H.A., Al Faifi, H.J., Kassem, O., Al Bassam, A.M. and **Zaidi, F.K.**, (2022). Field and remote sensing studies of the eastern Arabian Shield: implications for base and precious metals prospectively of the Ar Rayn terrane. **Arabian Journal of Geosciences**, 15(6), pp.1-21.
16. Alshehri, F., **Zaidi, F.K.** and Alzahrani, H., (2022). Hydrochemical characterization of geothermal and non-geothermal waters from Wadi Fatima, Western Saudi Arabia. **Journal of King Saud University-Science**, p.101717. <https://doi.org/10.1016/j.jksus.2021.101717>
17. Ghrefat, H., Hakami, A., Ibrahim, E., Mogren, S., Qaysi, S., Abdelrahman, K. and **Zaidi, F.K.**, (2021). Damage Assessment of a Salt Dome in Jizan, Southwestern Saudi Arabia, Using High Spatial Resolution Remote Sensing Data. **Front. Earth Sci**, 9, p. 700337. <https://doi.org/10.3389/feart.2021.700337>
18. Kassem, O.M.K., Al Faifi, H.J., Gahlan, H.A., Bassam, A.M., Zoheir, A.M. and **Zaidi, F.K.** (2021). Evolution of the Al Amar-Idsas suture, eastern Arabian Shield: a strain analysis perspective. **Arabian Journal of Geosciences** 14, 1237. <https://doi.org/10.1007/s12517-021-07613-2>
19. Jamil, M., Siddiqui, N.A., Umar, M., Usman, M., Ahmed, N., Abd Rahman, A.H. and **Zaidi, F.K.**, (2021). Aseismic and seismic impact on development of soft-sediment deformation

structures in deep-marine sand-shaly Crocker Fan in Sabah, NW Borneo. **Journal of King Saud University-Science**, p.101522.

20. Ibrahim, E., Mogren, S., Qaysi, S., Abdelrahman, K., Ghrefat, H., **Zaidi, F.K.** and Hakami, A., (2021). Red Sea faulting and salt diapirism as a potential geotechnical hazard in Jazan, southwest Saudi Arabia: inferences from gravity data. **Natural Hazards**, pp.1-16.
21. Kassem, O.M., Alamri, Y.A., **Zaidi, F.K.**, Al Bassam, A.A.M. and Al-Hashim, M.H. (2021) Structural Setting and Kinematic Analysis of Halaban Region, Eastern Arabian Shield, Saudi Arabia. **Acta Geologica Sinica-English Edition**. <https://doi.org/10.1111/1755-6724.14690>
22. Salman, A., Al-Tayib, M., Hag-Elsafi, S., **Zaidi, F.K.** and Al-Duwarij, N. (2021) Spatiotemporal Assessment of Air Quality and Heat Island Effect Due to Industrial Activities and Urbanization in Southern Riyadh, Saudi Arabia. **Applied Sciences**, 11, 2107. <https://doi.org/10.3390/app11052107>
23. Abdelrahman, K., Ibrahim, E., Qaysi, S., Mogren, S., **Zaidi, F.K.** and Ghrefat, H. (2021) Evaluation of kinetic moduli and soil competence scale of soil profiles in Jizan area, southwestern Saudi Arabia. **Arabian Journal of Geosciences**, 14(3), pp.1-19.
24. Alfaifi, H., El-Sorogy, A.S., Qaysi, S., Kahal, A., Almadani, S., Alshehri, F. and **Zaidi, F.K.** (2021) Evaluation of heavy metal contamination and groundwater quality along the Red Sea coast, southern Saudi Arabia. **Marine Pollution Bulletin**, 163, p.111975.
25. Kahal, A.Y., Alfaifi, H.J., Abdelrahman, K. and **Zaidi, F.K.** (2020) Physio-chemical properties of groundwater and their environmental hazardous impact: Case study of southwestern Saudi Arabia. **Journal of King Saud University-Science**, p.101292.
26. Ahmed, N., Siddiqui, N.A., Rahman, A.H., Jamil, M., Usman, M., Sajid, Z. and **Zaidi, F.K.** (2020) Evaluation of Hydrocarbon Source Rock Potential: Deep Marine Shales of Belaga Formation of Late Cretaceous-Late Eocene, Sarawak, Malaysia. **Journal of King Saud University-Science**, p.101268.
27. Abdelfattah, A.K., Al-amri, A., Soliman, M.S., **Zaidi, F.K.**, Qaysi, S., Fnais, M., Almadani, S. and Al-Arifi, N. (2020) An analysis of a moderate earthquake, eastern flank of the Red Sea, Saudi Arabia. **Earth, Planets and Space**, 72(1), pp.1-17.
28. Musaed, H.A., Al-Bassam, A.M., **Zaidi, F.K.**, Alfaifi, H.J. and Ibrahim, E. (2020) Hydrochemical assessment of groundwater in mesozoic sedimentary aquifers in an arid region: a case study from Wadi Nisah in Central Saudi Arabia. **Environmental Earth Sciences**, 79(6), pp.1-12.
Corresponding Author
29. Alfaifi, H.J., Kahal, A.Y., Abdelrahman, K., **Zaidi, F.K.**, Albassam, A. and Lashin, A. (2020) Assessment of groundwater quality in Southern Saudi Arabia: case study of Najran area. **Arabian Journal of Geosciences**, 13(3), p.101.
30. Masoud, M.H., Basahi, J.M. and **Zaidi, F.K.** (2019) Groundwater resource management based on three-dimensional flow modeling of Wadi Baysh aquifer system: southwestern Saudi Arabia. **Environmental Earth Sciences**, 78(18), p.562.
Corresponding Author
31. **Zaidi, F.K.**, Salman, A., Hag-Elsafi, S. and Alfaifi, H.J. (2019) Assessment of hydrological processes operating in a multi-layered sedimentary aquifer system in Saudi Arabia using integrated chemical and statistical approach. **Environmental Monitoring and Assessment**, 191(7), p.460.

32. Alfaifi, H., Kahal, A., Albassam, A., Ibrahim, E., Abdelrahman, K., **Zaidi, F.K.** and Alhumidan, S. (2019) Integrated geophysical and hydrochemical investigations for seawater intrusion: a case study in southwestern Saudi Arabia. **Arabian Journal of Geosciences**, 12(12), p.372.
33. Gubran, M., Ghrefat, H., **Zaidi, F.K.**, Shehata M. (2019) Integration of hydrochemical, GIS, and remote-sensing data for assessment of shallow groundwater aquifers in Wadi Nisah, Central Saudi Arabia. **Environmental Earth Science** 78: 161. <https://doi.org/10.1007/s12665-019-8164-9>
34. Masoud, M. H., Basahi, J. M., and **Zaidi, F. K.** (2019) Assessment of artificial groundwater recharge potential through estimation of permeability values from infiltration and aquifer tests in unconsolidated alluvial formations in coastal areas. **Environmental Monitoring and Assessment**, 191(1), 31.
Corresponding Author
35. Alharbi, T.G. and **Zaidi, F.K.** (2018) Hydrochemical classification and multivariate statistical analysis of groundwater from Wadi Sahba area in central Saudi Arabia. **Arabian Journal of Geosciences**, 11(20), p.643.
Corresponding Author
36. Salman, A.S., Al Dosari, A., **Zaidi, F.K.** and Loni, O.A. (2017) Environmental assessment of soil, groundwater, and surface water quality in the south of the Riyadh, Saudi Arabia. **Arabian Journal of Geosciences**, 10(22), p.490.
37. Ahmed, I., Nazzal, Y. and **Zaidi, F.** (2017) Groundwater pollution risk mapping using modified DRASTIC model in parts of Hail region of Saudi Arabia. **Environmental Engineering Research**, 23(1), pp.84-91.
38. **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.
39. 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**, 712, pp.494-502.
40. Alfaifi H., Abdelfatah M., Hassanein K., **Zaidi F.K.**, Ibrahim E. & Alarifi N. (2017) Groundwater Management scenarios for the Biyadh - Wasia Aquifer Systems in the eastern part of Riyadh region, Saudi Arabia". **Journal of the Geological Society of India**. 89(6), 617-740.
41. 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
42. 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).
Corresponding Author
43. 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.
44. **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.

45. 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.
46. 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.
47. **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.
48. **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.
49. **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.
50. 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).
51. **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.
52. 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.
53. **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.
54. 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.
Corresponding Author
55. 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.
56. 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.

57. 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.
58. **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.
59. 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.
60. **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.
61. **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.
62. 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.
63. 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. Ghrefat H., Nazzal Y., El Wahedi M., Al-Arifi N., **Zaidi F. K., Ahmed I. and Al-Shaltoni S. (2017)**. Mapping Land Cover Patterns at the Ghuwaymid Sabkha, Saudi Arabia Using ASTER Reflectance Data in Horizons in Earth Science Research, Volume 16. Eds: Benjamin Veress and Jozsi Szigethy. ISBN: 978-1-53611-852-0
2. 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
3. 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
4. **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.
5. 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.
6. 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.

7. 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.

8. **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.

COURSES TAUGHT AT UNDER GRADUATE LEVEL

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| •GEO 100: General Geology | •GEO 303: Principles of Remote Sensing |
| •GEO 101: Physical Geology | •GEO 383: Remote Sensing |
| •GEO 107: Historical Geology | •GEO 382: GIS |
| •GEO 221: Mineralogy | •GEO 384: Geological Survey |
| •GEO 237: Stratigraphy and Sedimentology | •GEO 455: Hydrogeology |
| •GEO 274: Geologic Reports | •GEO 462: Environmental Geology |
| •GEO 281: Geology for Engineers | •GEO 495: History of Geology |
| •GEO 301: Geomorphology | •GEO 497/498: Graduation Project |

COURSES TAUGHT AT GRADUATE LEVEL

- GEO 501: Advanced Geology of Saudi Arabia
- GEO 555: Advanced Hydrogeology
- GEO 600: Master Thesis
- GEO 613: Remote Sensing and GIS

MASTER THESIS SUPERVISION

Supervisor -	1. NISAR AHMED ABDULGHANI	(Completed)
	2. HAKEEM ALI H MUSAED	(Completed)
	3. NAJI ABDULLAH AHMED RIKAN	(Completed)
Co-Supervisor -	1. KAMIL MOHAMMED M ALSLAIS	(Completed)
	2. RAYAN ABDULLAH M ALYOUSEF	(Completed)
	3. TAREQ SAEEDAN AHMAD MAESHI	(Completed)
	4. ALAWI AHMED AIDAROS	(Completed)
	5. ABDULRAHMAN ALMALKI	(Completed)