

kamal Hassanein

List of Publications by Year in descending order

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106
papers

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times ranked

399
citing authors

#	ARTICLE	IF	CITATIONS
1	Microtremor measurements in Yanbu city of Western Saudi Arabia: A tool for seismic microzonation. <i>Journal of King Saud University - Science</i> , 2010, 22, 97-110.	1.6	32
2	Mapping Main Structures and Related Mineralization of the Arabian Shield (Saudi Arabia) Using Sharp Edge Detector of Transformed Gravity Data. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 71.	0.8	27
3	Land Degradation, Overland Flow, Soil Erosion, and Nutrient Loss in the Eastern Himalayas, India. <i>Land</i> , 2022, 11, 179.	1.2	26
4	Modeling the aerosol chemical composition of the tropopause over the Tibetan Plateau during the Asian summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 11587-11612.	1.9	24
5	Geospatial Analysis of Geo-Ecotourism Site Suitability Using AHP and GIS for Sustainable and Resilient Tourism Planning in West Bengal, India. <i>Sustainability</i> , 2022, 14, 2422.	1.6	23
6	A Multidisciplinary Approach for Groundwater Potential Mapping in a Fractured Semi-Arid Terrain (Kerdous Inlier, Western Anti-Atlas, Morocco). <i>Water (Switzerland)</i> , 2022, 14, 1553.	1.2	23
7	Integrated geophysical and hydrochemical investigations for seawater intrusion: a case study in southwestern Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	22
8	Structural analysis and basement topography of Gabal Shilman area, South Eastern Desert of Egypt, using aeromagnetic data. <i>Journal of King Saud University - Science</i> , 2022, 34, 101764.	1.6	22
9	Towards Understanding the Source of Brine Mineralization in Southeast Nigeria: Evidence from High-Resolution Airborne Magnetic and Gravity Data. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 146.	0.8	22
10	New insights into the contribution of gravity data for mapping the lithospheric architecture. <i>Journal of King Saud University - Science</i> , 2021, 33, 101400.	1.6	20
11	Mapping structural features of the Wadi Umm Dulfah area using aeromagnetic data. <i>Journal of King Saud University - Science</i> , 2022, 34, 101803.	1.6	20
12	Analysing Challenges and Strategies in Land Productivity in Sikkim Himalaya, India. <i>Sustainability</i> , 2021, 13, 11112.	1.6	19
13	Seismicity of Sinai Peninsula, Egypt. <i>Arabian Journal of Geosciences</i> , 2009, 2, 103-118.	0.6	18
14	Fundamental site frequency estimation at New Domiat city, Egypt. <i>Arabian Journal of Geosciences</i> , 2012, 5, 653-661.	0.6	17
15	Subsurface structural mapping from high-resolution gravity data using advanced processing methods. <i>Journal of King Saud University - Science</i> , 2021, 33, 101488.	1.6	16
16	Assessment of groundwater quality in Southern Saudi Arabia: case study of Najran area. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	15
17	Seismic hazard assessment for Yanbu metropolitan area, western Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015, 8, 9945-9958.	0.6	14
18	Hydrochemical characteristics and evaluation of the granite aquifer in the Alwadeen area, southwest Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	0.6	14

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19	Groundwater resources exploration of Harrat Khaybar area, northwest Saudi Arabia, using electrical resistivity tomography. <i>Journal of King Saud University - Science</i> , 2021, 33, 101468.	1.6	14
20	Mapping subsurface structural lineaments using the edge filters of gravity data. <i>Journal of King Saud University - Science</i> , 2021, 33, 101594.	1.6	14
21	Delineation of structural lineaments of Southeast Nigeria using high resolution aeromagnetic data. <i>Open Geosciences</i> , 2022, 14, 331-340.	0.6	14
22	Depth Estimation of Sedimentary Sections and Basement Rocks in the Bornu Basin, Northeast Nigeria Using High-Resolution Airborne Magnetic Data. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 285.	0.8	14
23	Seismicity and Seismotectonics of Jeddah-Makkah Region, West-Central Saudi Arabia. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 746-754.	1.1	13
24	Geotechnical assessment for the ground conditions in Makkah Al-Mukarramah city, Saudi Arabia. <i>Journal of King Saud University - Science</i> , 2020, 32, 2112-2121.	1.6	13
25	Landslide hazard assessment of the Neom promising city, northwestern Saudi Arabia: An integrated approach. <i>Journal of King Saud University - Science</i> , 2021, 33, 101279.	1.6	12
26	Utilization of multispectral landsat-8 remote sensing data for lithological mapping of southwestern Saudi Arabia. <i>Journal of King Saud University - Science</i> , 2021, 33, 101414.	1.6	12
27	Delineation of a fractured granite aquifer in the Alwadeen area, Southwest Saudi Arabia using a geoelectrical resistivity survey. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	11
28	Ground motion acceleration and response spectra of Al-Mashair area, Makkah Al-Mukarramah, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	0.6	11
29	Site effect evaluation for Yanbu City urban expansion zones, western Saudi Arabia, using microtremor analysis. <i>Arabian Journal of Geosciences</i> , 2015, 8, 1717-1729.	0.6	10
30	Soil site characterization of Rabigh city, western Saudi Arabia coastal plain, using HVSR and HVSR inversion techniques. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	10
31	Assessment of decadal land use dynamics of upper catchment area of Narmada River, the lifeline of Central India. <i>Journal of King Saud University - Science</i> , 2021, 33, 101322.	1.6	10
32	Application of the improved parabola-based method in delineating lineaments of subsurface structures: A case study. <i>Journal of King Saud University - Science</i> , 2021, 33, 101585.	1.6	9
33	Earthflow reactivation assessment by multichannel analysis of surface waves and electrical resistivity tomography: A case study. <i>Open Geosciences</i> , 2021, 13, 1328-1344.	0.6	9
34	Estimation of near-surface geotechnical parameters using seismic measurements at the proposed KACST expansion site, Riyadh, KSA. <i>Arabian Journal of Geosciences</i> , 2011, 4, 1131-1150.	0.6	8
35	Magnetic and seismic refraction survey for site investigation of an urban expansion site in Abha District, Southwest Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015, 8, 2299-2312.	0.6	8
36	Determining the Moho interface using a modified algorithm based on the combination of the spatial and frequency domain techniques: a case study from the Arabian Shield. <i>Geocarto International</i> , 2022, 37, 10581-10596.	1.7	8

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37	Estimation of fundamental frequency in Dammam City, Eastern Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015, 8, 2283-2298.	0.6	7
38	Surface soil assessment in the Ubhur area, north of Jeddah, western Saudi Arabia, using a multichannel analysis of surface waves method. <i>Journal of the Geological Society of India</i> , 2017, 89, 435-443.	0.5	7
39	Seismic risk assessment at the proposed site of Gemsa wind power station, southwestern coast of Gulf of Suez, Egypt. <i>Journal of the Geological Society of India</i> , 2017, 89, 192-196.	0.5	7
40	Seismic vulnerability assessment in the new urban area of Diriyah Governorate, Riyadh, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	0.6	7
41	Seismic microzonation of Ubhur district, Jeddah, Saudi Arabia, using H/V spectral ratio. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	7
42	Determination of structural lineaments of Northeastern Laos using the LTHG and EHGA methods. <i>Journal of King Saud University - Science</i> , 2022, 34, 101825.	1.6	7
43	Assessing Groundwater Dynamics and Potentiality in the Lower Ganga Plain, India. <i>Water (Switzerland)</i> , 2022, 14, 2180.	1.2	7
44	Estimation of source parameters and attenuation using digital waveforms of Al-Ays 2009 earthquake, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2014, 7, 3325-3337.	0.6	6
45	Implementation of integrated multi-channel analysis of surface waves and waveform inversion techniques for seismic hazard estimation. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	6
46	Site response assessment and ground conditions at King Saud University Campus, Riyadh City, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	6
47	Geothermal potential of Harrat Rahat, Northern Arabian Shield: geological constraints. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	6
48	Assessment of land subsidence as an environmental threat facing Dammam city, eastern Saudi Arabia based on soil geotechnical parameters using downhole seismic approach. <i>Journal of King Saud University - Science</i> , 2021, 33, 101233.	1.6	6
49	An integrated approach for the identification of potential shallow groundwater zones in west-central Saudi Arabia. <i>Journal of King Saud University - Science</i> , 2022, 34, 101915.	1.6	6
50	Depicting of groundwater potential in hard rocks of southwestern Saudi Arabia using the vertical electrical sounding approach. <i>Journal of King Saud University - Science</i> , 2022, 34, 102221.	1.6	6
51	Groundwater management scenarios for the Biyadh-Wasia aquifer systems in the eastern part of Riyadh region, Saudi Arabia. <i>Journal of the Geological Society of India</i> , 2017, 89, 669-674.	0.5	5
52	Geotechnical investigation of the El-Elb dam site, northwest Riyadh, Saudi Arabia, using 2D resistivity and ground-penetrating radar techniques. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	5
53	Tectonic stress regime and stress patterns from the inversion of earthquake focal mechanisms in NW Himalaya and surrounding regions. <i>Journal of King Saud University - Science</i> , 2021, 33, 101351.	1.6	5
54	Site effect and microzonation of the Jizan coastal area, southwestern Saudi Arabia, for earthquake hazard assessment based on the geotechnical borehole data. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	5

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55	Multi-Scale Geophysical Methodologies Applied to Image Archaeological Ruins at Various Depths in Highly Terraneous Sites. <i>Remote Sensing</i> , 2021, 13, 2055.	1.8	5
56	Shear-wave velocity profiling of Jizan city, southwestern Saudi Arabia, using controlled-source spectral analysis of surface-wave measurements. <i>Journal of King Saud University - Science</i> , 2021, 33, 101592.	1.6	5
57	Evaluation of kinetic moduli and soil competence scale of soil profiles in Jizan area, southwestern Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	5
58	Assessment of Natural Radionuclide Distribution Pattern and Radiological Risk from Rocks in Precambrian Oban Massif, Southeastern Nigeria. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 312.	0.8	5
59	Site response assessment at the city of Al Khobar, eastern Saudi Arabia, from microtremor and borehole data. <i>Arabian Journal of Geosciences</i> , 2015, 8, 10015-10030.	0.6	4
60	Structure of the Yanbu suture zone in Northwest Saudi Arabia inferred from aeromagnetic and seismological data. <i>Arabian Journal of Geosciences</i> , 2015, 8, 8741-8752.	0.6	4
61	Evaluation of site response characteristics of King Abdulaziz City for Science and Technology, Saudi Arabia using microtremors and geotechnical data. <i>Arabian Journal of Geosciences</i> , 2015, 8, 5181-5188.	0.6	4
62	Assessment of soil-structure resonance in southern Riyadh City, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2015, 8, 1017-1027.	0.6	4
63	Hydrocarbon generation potential of Chichali Formation, Kohat Basin, Pakistan: A case study. <i>Journal of King Saud University - Science</i> , 2021, 33, 101235.	1.6	4
64	Geological and geotechnical evaluation of limestone rocks along the Riyadh Metro Project (Riyadh) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.6	4
65	Physio-chemical properties of groundwater and their environmental hazardous impact: Case study of Southwestern Saudi Arabia. <i>Journal of King Saud University - Science</i> , 2021, 33, 101292.	1.6	4
66	Electrical resistivity and refraction seismic tomography in the detection of near-surface Qadimah Fault in Thuwal-Rabigh area, Saudi Arabia. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	0.6	4
67	Landslide susceptibility assessment and their disastrous impact on Makkah Al-Mukarramah urban Expansion, Saudi Arabia, using microtremor measurements. <i>Journal of King Saud University - Science</i> , 2021, 33, 101450.	1.6	4
68	Geophysical assessment of open dumpsite nearby Khamis Mushait industrial zone, Southwestern Saudi Arabia. <i>Journal of King Saud University - Science</i> , 2021, 33, 101518.	1.6	4
69	Geomagnetic micro-pulsation automatic detection via deep learning approach guided with discrete wavelet transform. <i>Journal of King Saud University - Science</i> , 2021, 33, 101263.	1.6	4
70	Seismicity of the Neom megaproject area, Northwestern Saudi Arabia. <i>Journal of King Saud University - Science</i> , 2022, 34, 101659.	1.6	4
71	Soil liquefaction susceptibility of Jizan coastal area, southwest Saudi Arabia, based on microtremor measurements. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	0.6	4
72	Stress level estimation for the ground beneath the 15th of May city buildings, Helwan, Cairo, Egypt. <i>Acta Geodaetica Et Geophysica Hungarica</i> , 2003, 38, 429-443.	0.4	3

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73	Structural development of northwest Saudi Arabia using aeromagnetic and seismological data. Journal of Earth Science (Wuhan, China), 2016, 27, 998-1007.	1.1	3
74	Structural depocenters control the Nubian sandstone aquifer, Southwestern Desert, Egypt: inferences from aeromagnetic data. Arabian Journal of Geosciences, 2019, 12, 1.	0.6	3
75	Use of various statistical techniques to assess the vertical and lateral change in the groundwater chemistry of Quaternary aquifer in an irrigated highly populated area. Journal of King Saud University - Science, 2021, 33, 101556.	1.6	3
76	Attenuation relationships of peak ground motions in the Jazan Region. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	3
77	Seismicity and seismotectonics of the Jeddah area, Saudi Arabia. , 2013, , .		3
78	Evaluation of geotechnical parameters for urban site in southern Khamis Mushait city, southwest Saudi Arabia, using seismic refraction method. Arabian Journal of Geosciences, 2015, 8, 6225-6236.	0.6	2
79	Site response assessment of an urban extension site using microtremor measurements, Ahud Rufeidah, Abha District, Southwest Saudi Arabia. Arabian Journal of Geosciences, 2015, 8, 2347-2357.	0.6	2
80	New methods to improve the assessment of shear wave velocities and seismic hazard parameters in Jeddah city, western Saudi Arabia. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	2
81	Automatic identification of fake patterns caused by short-width wavelets in seismic data. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	2
82	Improved reservoir characterisation using fuzzy logic platform: an integrated petrophysical, seismic structural and poststack inversion study. Exploration Geophysics, 2017, 48, 430-448.	0.5	2
83	Imaging fracture distributions of the Al-Khuff Formation outcrops using GPR and ERT geophysical techniques, Al-Qassim area, Saudi Arabia. Arabian Journal of Geosciences, 2017, 10, 1.	0.6	2
84	Near-surface foundation level assessment from seismic measurements: a case study of north Jeddah City, Saudi Arabia. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	2
85	Seismic identification of geothermal prospecting in Harrat Rahat, Northern Arabian Shield. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	2
86	Environmental hazard assessment for ground failure in Jeddah city, western Saudi Arabia, through cross-hole seismic testing. Journal of King Saud University - Science, 2021, 33, 101274.	1.6	2
87	Integrated geoinvestigation for evaluation of an engineering site "a case study from the western Riyadh city, central Saudi Arabia. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	2
88	Seismic hazard assessment for the proposed site of electric power plant: Comprehensive approach. Journal of King Saud University - Science, 2021, 33, 101360.	1.6	2
89	Damage Assessment of a Salt Dome in Jizan, Southwestern Saudi Arabia, Using High Spatial Resolution Remote Sensing Data. Frontiers in Earth Science, 2021, 9, .	0.8	2
90	Groundwater aquifer detection using the time-domain electromagnetic method: A case study in Harrat lthnayn, northwestern Saudi Arabia. Journal of King Saud University - Science, 2021, 34, 101684.	1.6	2

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91	Earthquake recurrence characteristics for potential seismic zones in the southern Red Sea region and their hazard implications on Jizan city. Journal of King Saud University - Science, 2022, 34, 101880.	1.6	2
92	An alternative approach to estimate river cross-sections using LIDAR-based digital elevation model. Hydrological Sciences Journal, 2022, 67, 996-1010.	1.2	2
93	Comparative study of estimating the Curie point depth and heat flow using potential magnetic data. Open Geosciences, 2022, 14, 462-480.	0.6	2
94	Strong ground motion attenuation in Aswan area, Egypt. Arabian Journal of Geosciences, 2011, 4, 855-861.	0.6	1
95	Groundwater exploration using vertical electrical sounding: Case study of al-Amar region, southwest Riyadh, Saudi Arabia. , 2017, , .		1
96	Geothermal and Volcanic Evaluation of Harrat Rahat, Northwestern Arabian Peninsula (Saudi Arabia). Advances in Science, Technology and Innovation, 2019, , 25-27.	0.2	1
97	Impact of 5D regularization and interpolation on subsurface imaging: A case study of Stratton field, South Texas, United States of America. Journal of King Saud University - Science, 2020, 32, 2733-2740.	1.6	1
98	Application of geochemical modeling using NETPATH and water quality index for assessing the groundwater geochemistry in the south Wadi El-Farigh area, Egypt. Journal of King Saud University - Science, 2021, 33, 101284.	1.6	1
99	Relationship between precursory signals and corresponding earthquakes using different spectral analysis techniques. Journal of King Saud University - Science, 2021, 33, 101338.	1.6	1
100	Red Sea faulting and salt diapirism as a potential geotechnical hazard in Jazan, southwest Saudi Arabia: inferences from gravity data. Natural Hazards, 2021, 108, 2613-2628.	1.6	1
101	Performance comparison of the wavenumber and spatial domain techniques for mapping basement reliefs from gravity data. Open Geosciences, 2021, 13, 1689-1700.	0.6	1
102	Geotechnical investigations and shear wave velocity estimation in Makkah Al-Mukarramah metropolitan area, Saudi Arabia. Arabian Journal of Geosciences, 2022, 15, .	0.6	1
103	Evaluation of seismic vulnerability index in Makkah Al-Mukarramah urban area, Saudi Arabia, using microtremor measurements. Arabian Journal of Geosciences, 2022, 15, .	0.6	1
104	Evaluation of near-surface groundwater aquifers through integrated geophysical and geodetic measurements. Journal of King Saud University - Science, 2021, 33, 101549.	1.6	0
105	Soil Characterization of Jeddah City, Saudi Arabia. , 2015, , .		0
106	A New Scenario-Based Approach for Water Quality and Environmental Impact Assessment Due to Mining Activities. Water (Switzerland), 2022, 14, 2117.	1.2	0