

Hakim Saibi

List of Publications by Year in descending order

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95
papers

1,192
citations

430874

18
h-index

501196

28
g-index

100
all docs

100
docs citations

100
times ranked

795
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale liquid hydrocarbon adsorption on clay minerals: A molecular dynamics simulation of shale oils. <i>Chemical Engineering Journal</i> , 2021, 420, 127578.	12.7	69
2	Impact of COVID-19 lockdown upon the air quality and surface urban heat island intensity over the United Arab Emirates. <i>Science of the Total Environment</i> , 2021, 767, 144330.	8.0	62
3	Geothermal exploration using airborne gravity and magnetic data at Siwa Oasis, Western Desert, Egypt. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3824-3832.	16.4	56
4	Geothermal resources in Algeria. <i>Renewable and Sustainable Energy Reviews</i> , 2009, 13, 2544-2552.	16.4	55
5	Integrated gradient interpretation techniques for 2D and 3D gravity data interpretation. <i>Earth, Planets and Space</i> , 2006, 58, 815-821.	2.5	37
6	Exploration and assessment of the geothermal resources in the Hammam Faraun hot spring, Sinai Peninsula, Egypt. <i>Journal of Asian Earth Sciences</i> , 2012, 45, 256-267.	2.3	37
7	Aerogravity and remote sensing observations of an iron deposit in Gara Djebilet, southwestern Algeria. <i>Journal of African Earth Sciences</i> , 2016, 116, 134-150.	2.0	37
8	A preliminary regional geothermal assessment of the Gulf of Suez, Egypt. <i>Journal of African Earth Sciences</i> , 2011, 60, 117-132.	2.0	32
9	Geophysical investigation using gravity data in Kinigi geothermal field, northwest Rwanda. <i>Journal of African Earth Sciences</i> , 2018, 139, 184-192.	2.0	30
10	Mineral and structural mapping of the Aynak-Logar Valley (eastern Afghanistan) from hyperspectral remote sensing data and aeromagnetic data. <i>Arabian Journal of Geosciences</i> , 2015, 8, 10911-10918.	1.3	27
11	Analysis and interpretation of gravity data from the Aluto-Langano geothermal field of Ethiopia. <i>Acta Geophysica</i> , 2012, 60, 318-336.	2.0	26
12	Subsurface structural mapping using gravity data of Al-Ain region, Abu Dhabi Emirate, United Arab Emirates. <i>Geophysical Journal International</i> , 2019, 216, 1201-1213.	2.4	26
13	Correlation of Aerogravity and BHT Data to Develop a Geothermal Gradient Map of the Northern Western Desert of Egypt using an Artificial Neural Network. <i>Pure and Applied Geophysics</i> , 2015, 172, 1585-1597.	1.9	24
14	Hydrogeological and hydrochemical investigation of groundwater using environmental isotopes (^{18}O , ^2H , ^3H , ^{14}C) and chemical tracers: a case study of the intermediate aquifer, Sfax, southeastern Tunisia. <i>Hydrogeology Journal</i> , 2018, 26, 983-1007.	2.1	23
15	Temperature and chemical changes in the fluids of the Obama geothermal field (SW Japan) in response to field utilization. <i>Geothermics</i> , 2010, 39, 228-241.	3.4	21
16	Structural Investigations of Afghanistan Deduced from Remote Sensing and Potential Field Data. <i>Acta Geophysica</i> , 2016, 64, 978-1003.	2.0	21
17	Detection and modeling of soil salinity variations in arid lands using remote sensing data. <i>Open Geosciences</i> , 2021, 13, 443-453.	1.7	21
18	Integrating data from remote sensing, geology and gravity for geological investigation in the Tarhunah area, Northwest Libya. <i>International Journal of Digital Earth</i> , 2008, 1, 347-366.	3.9	20

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19	Curie point depth from spectral analysis of aeromagnetic data for geothermal reconnaissance in Afghanistan. <i>Journal of African Earth Sciences</i> , 2015, 111, 92-99.	2.0	20
20	Fast 3D inversion of gravity data using Lanczos bidiagonalization method. <i>Arabian Journal of Geosciences</i> , 2015, 8, 4969-4981.	1.3	20
21	Groundwater aquifer detection using the electrical resistivity method at Ito Campus, Kyushu University (Fukuoka, Japan). <i>Geoscience Letters</i> , 2021, 8, .	3.3	19
22	Integration of magnetic, gravity, and well data in imaging subsurface geology in the Ksar Hirane region (Laghouat, Algeria). <i>Journal of African Earth Sciences</i> , 2016, 124, 63-74.	2.0	18
23	Contribution of multivariate statistical techniques in the hydrochemical evaluation of groundwater from the Ouargla phreatic aquifer in Algeria. <i>Arabian Journal of Geosciences</i> , 2013, 6, 3427-3436.	1.3	17
24	3D Gravity Inversion using Tikhonov Regularization. <i>Acta Geophysica</i> , 2015, 63, 1044-1065.	2.0	17
25	Deep cavity systems detection in Al-Ain City, UAE, based on gravity surveys inversion. <i>Journal of Asian Earth Sciences</i> , 2019, 182, 103937.	2.3	16
26	Influence of asphaltene structural parameters on solubility. <i>Fuel</i> , 2022, 311, 122559.	6.4	16
27	Thermal structure of the African continent based on magnetic data: Future geothermal renewable energy explorations in Africa. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 158, 112088.	16.4	16
28	Characterization, classification, and determination of drinkability of some Algerian thermal waters. <i>Arabian Journal of Geosciences</i> , 2011, 4, 207-219.	1.3	15
29	A Coastal Aquifer Study Using Magnetotelluric and Gravity Methods in Abo Zenema, Egypt. <i>Pure and Applied Geophysics</i> , 2012, 169, 1679-1692.	1.9	15
30	Geochemical and stable isotopic studies of Gulf of Suez's hot springs, Egypt. <i>Diqiu Huaxue</i> , 2012, 31, 120-127.	0.5	15
31	Integrating Gravity Data With Remotely Sensed Data for Structural Investigation of the Aynak-Logar Valley, Eastern Afghanistan, and the Surrounding Area. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 816-824.	4.9	15
32	Defining potential mineral exploration targets from the interpretation of aeromagnetic data in western Rwanda. <i>Ore Geology Reviews</i> , 2021, 128, 103927.	2.7	15
33	Relation between structure and low-temperature geothermal systems in Fukuoka city, southwestern Japan. <i>Earth, Planets and Space</i> , 2008, 60, 821-826.	2.5	14
34	Variographic analysis of water table data from the Oued-Souf phreatic aquifer, northeastern part of the Algerian Sahara. <i>Arabian Journal of Geosciences</i> , 2009, 2, 83-93.	1.3	14
35	Retrieval of monthly maximum and minimum air temperature using MODIS aqua land surface temperature data over the United Arab Emirates. <i>Geocarto International</i> , 2022, 37, 2996-3013.	3.5	14
36	Magnetotelluric data analysis using 2D inversion: A case study from Al-Mubazzarah Geothermal Area (AMGA), Al-Ain, United Arab Emirates. <i>Heliyon</i> , 2021, 7, e07440.	3.2	14

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37	Hydrogeochemical and isotope characterization of geothermal waters from the Cidanau geothermal field, West Java, Indonesia. <i>Geothermics</i> , 2019, 78, 62-69.	3.4	13
38	Hydrochemistry and geothermometry of thermal waters from UAE and their energetic potential assessment. <i>Geothermics</i> , 2021, 92, 102061.	3.4	13
39	Integrating potential fields with remote sensing data for geological investigations in the Eljufra area of Libya. <i>Earth, Planets and Space</i> , 2008, 60, 539-547.	2.5	12
40	Post-eruptive gravity changes from 1999 to 2004 at Unzen volcano (Japan): A window into shallow aquifer and hydrothermal dynamics. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 191, 137-147.	2.1	12
41	Aquifer characterization using vertical electrical soundings and remote sensing: A case study of the Chott Ech Chergui Basin, Northwest Algeria. <i>Journal of African Earth Sciences</i> , 2020, 170, 103920.	2.0	12
42	Interpretation of gravity data to delineate the subsurface structures and reservoir geometry of the Aluto–Langano geothermal field, Ethiopia. <i>Geothermics</i> , 2021, 94, 102093.	3.4	12
43	Determination of the origins and recharge rates of the Sfax aquifer system (southeastern Tunisia) using isotope tracers. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	2.7	10
44	Groundwater potential zones identification using geoelectrical sounding and remote sensing in Wadi Touil plain, Northwestern Algeria. <i>Journal of African Earth Sciences</i> , 2020, 172, 104014.	2.0	10
45	Evaluation of groundwater quality and hydrochemical characteristics in the shallow aquifer of El-Oued region (Algerian Sahara). <i>Groundwater for Sustainable Development</i> , 2022, 17, 100747.	4.6	10
46	Characterization, classification, bacteriological, and evaluation of groundwater from 24 wells in six departments of Algeria. <i>Arabian Journal of Geosciences</i> , 2012, 5, 1449-1458.	1.3	9
47	Analyze the spatial distribution of lava flows in Al-Ays Volcanic Area, Saudi Arabia, using remote sensing. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	9
48	Subsurface imaging of the Harrat Lunayyir 2007–2009 earthquake swarm zone, western Saudi Arabia, using potential field methods. <i>Journal of Asian Earth Sciences</i> , 2019, 169, 79-92.	2.3	9
49	Groundwater modelling of the Tebessa-Morsott alluvial aquifer (northeastern Algeria): A geostatistical approach. <i>Groundwater for Sustainable Development</i> , 2020, 11, 100444.	4.6	9
50	Investigation of the Ayrobera geothermal field using 3D magnetotelluric data inversion, Afar depression, NE Ethiopia. <i>Geothermics</i> , 2021, 94, 102114.	3.4	9
51	Characterisation, classification, and evaluation of some groundwater samples in the Mostaganem area of northwestern Algeria. <i>Arabian Journal of Geosciences</i> , 2010, 3, 79-89.	1.3	8
52	Interpretation of gravity data using 3D inversion and 2D continuous wavelet transform in Hedil deformed structures, northern Tunisia. <i>Journal of African Earth Sciences</i> , 2019, 151, 371-390.	2.0	8
53	Spatio-temporal evolution of the physico-chemical water characteristics of the Sebaou river valley (Great Kabylia, Algeria). <i>Journal of Hydrology: Regional Studies</i> , 2017, 12, 33-49.	2.4	7
54	Microgravity and Its Applications in Geosciences. , 2018, , .		7

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55	Applications of Remote Sensing in Geoscience. , 0, , .		7
56	Euler deconvolution of gravity data in Geothermal Reconnaissance; the Obama geothermal area, Japan. BUTSURI-TANSA(Geophysical Exploration), 2006, 59, 275-282.	0.0	7
57	Gravity data analysis of Ungaran Volcano, Indonesia. Arabian Journal of Geosciences, 2012, 5, 1047-1054.	1.3	6
58	Hydrochemistry and bacteriology of western and Saharan spring waters of Algeria. Arabian Journal of Geosciences, 2013, 6, 665-677.	1.3	6
59	Principal component, chemical, bacteriological, and isotopic analyses of Oued-Souf groundwaters (revised). Environmental Earth Sciences, 2016, 75, 1.	2.7	6
60	3-D magnetic inversion and satellite imagery for the Um Salatit gold occurrence, Central Eastern Desert, Egypt. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	6
61	Subsurface geoelectrical structure from 3-d inversion of magnetotelluric data of Gisenyi geothermal field, western part of Rwanda. Journal of Applied Geophysics, 2021, 186, 104277.	2.1	6
62	A case history: 3-D gravity modeling using hexahedral element in Kinigi geothermal field, Rwanda. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	5
63	Scenario modeling of the groundwater in a coastal aquifer (Jijel plain area, Algeria). Arabian Journal of Geosciences, 2019, 12, 1.	1.3	5
64	Computation of geophysical magnetic data for a buried 3D hexahedral prism using the Gauss-Legendre quadrature method. Near Surface Geophysics, 2020, 18, 575-588.	1.2	5
65	Land surface deformation monitoring in the Al-Ain arid region (UAE) using microgravity and SAR interferometry surveys. Environmental Research, 2022, 212, 113505.	7.5	5
66	Application of remote sensing techniques to geothermal exploration at geothermal fields in the United Arab Emirates. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	4
67	Subsurface structure investigation of the United Arab Emirates using gravity data. Open Geosciences, 2021, 13, 262-271.	1.7	4
68	2-D inversion of magnetotelluric data at Dar-Chioukh region (Djelfa, Algeria). , 2017, , .		3
69	Microgravity monitoring of groundwater dynamics in a shallow aquifer in Al-Ain (Abu Dhabi Emirate,) Tj ETQq1 1 0.784314 rgBT /Over Environmental Earth Sciences, 2021, 80, 1.	2.7	3
70	3-D magnetic inversion at the Al-Mubazzarah area, Al-Ain, United Arab Emirates. , 2017, , .		3
71	Multiparameter cartographic assessment of the hydrochemical groundwater of the Soummam valley (Kabylia, Algeria). Environmental Progress and Sustainable Energy, 2014, 33, 1357-1365.	2.3	2
72	3D inversion of gravity data using Cuckoo optimization algorithm. , 2015, , .		2

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73	Cavity auto-detection using machine learning algorithms: Logistic regression, support vector machine, and naïve Bayes. , 2020, , .		2
74	3D Numerical model of the Obama hydrothermal geothermal system, Southwestern Japan. Computational Geosciences, 2011, 15, 709-719.	2.4	1
75	Gravity inversion of a fault by Cuckoo optimization. , 2015, , .		1
76	3-D forward modelling of magnetic data from Al-Mubazzarah geothermal field, al-Ain, UAE. , 2017, , .		1
77	Subsurface density distribution and structure of the crust of the United Arab Emirates from gravity data. , 2020, , .		1
78	Geographic information system-based approach and statistical modeling for assessing nitrate distribution in the Mitidja aquifer, Northern Algeria. Environmental Monitoring and Assessment, 2021, 193, 631.	2.7	1
79	Feasibility study of karst feature detection using microgravity data inversion. , 2020, , .		1
80	Lunar Orientale Basin subsurface structure estimated from Kaguya (SELENE) orbiter data inversion. , 2021, , .		1
81	Vehicles detection based on their seismic surface waves using classification techniques. , 2021, , .		1
82	Crustal configuration of the Naama and El Bayadh region of northwest Algeria: Inferences from gravity and magnetic analysis. Journal of African Earth Sciences, 2022, 192, 104572.	2.0	1
83	Integrating Potential Field Data with Remote Sensed Data for Structural Investigations at Aynak-Logar Valley Area and Its Surroundings (Eastern Afghanistan). , 2013, , .		0
84	Recent Earthquakes and Volcanic Activities in Kyushu Island, Japan. , 2018, , 53-67.		0
85	Gravity, GPR and ERT surveys at Al-Maqam campus of United Arab Emirates University (Al-Ain, UAE). , 2020, , .		0
86	Mapping CAMP formations of the northern flank of Tindouf Basin by integrating remotely sensed data, geochemistry and field observations. Lithos, 2021, 380-381, 105870.	1.4	0
87	Pulsed emplacement under the Uyajjah granite ring structure, eastern Saudi Arabia results from 3D gravity-magnetic inversion. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	0
88	Gravity Analysis for Geothermal Reconnaissance in Costa Rica. , 2013, , .		0
89	Era: Mobile Electrical Resistivity Apps. , 2017, , .		0
90	Multiple Geophysical Investigations at Al-Qusiase Lake, Al-Ain, United Arab Emirates. , 2017, , .		0

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91	Geothermal Exploration Using the Magnetotelluric Technique. Proceedings of International Exchange and Innovation Conference on Engineering & Sciences, IEICES, 2021, 7, 32-33.	0.1	0
92	Gravity measurement to probe the depth of African-continental crust over a north-south profile: theory and modeling. Heliyon, 2022, 8, e08776.	3.2	0
93	Basement structure investigation using 3-D forward modeling and inversion of geomagnetic data of the Zeit basin area, Gulf of Suez, Egypt. Marine and Petroleum Geology, 2022, 139, 105637.	3.3	0
94	Cavity extension investigations from gravity and electrical surveys at Mountain Hafeet (Al-Ain, UAE). , 2021, , .		0
95	A python package for magnetotelluric data visualization, analysis, modeling and inversion. , 2021, , .		0