

Haluk Akgun, Of Geological Engineering

List of Publications by Year in descending order

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60
papers

1,288
citations

331259

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h-index

414034

32
g-index

63
all docs

63
docs citations

63
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning-based landslide susceptibility mapping. Scientific Reports, 2021, 11, 24112.	1.6	149
2	Evaluation and comparison of landslide susceptibility mapping methods: a case study for the Ulus district, Bartın, northern Turkey. International Journal of Geographical Information Science, 2015, 29, 132-158.	2.2	60
3	Discontinuous rock slope stability analysis by limit equilibrium approaches – a review. International Journal of Digital Earth, 2021, 14, 1918-1941.	1.6	51
4	Landslide Susceptibility Assessment by Using Convolutional Neural Network. Applied Sciences (Switzerland), 2022, 12, 5992.	1.3	50
5	Landslide susceptibility assessment of South Pars Special Zone, southwest Iran. Environmental Earth Sciences, 2018, 77, 1.	1.3	47
6	Local site characterization and seismic zonation study by utilizing active and passive surface wave methods: A case study for the northern side of Ankara, Turkey. Engineering Geology, 2012, 151, 64-81.	2.9	41
7	Numerical modeling of discontinuous rock slopes utilizing the 3DDGM (three-dimensional) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 2017, 76, 989-1007.	1.6	39
8	Stability Charts for the Collapse of Residual Soil in Karst. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 925-931.	1.5	34
9	Landfill site selection and landfill liner design for Ankara, Turkey. Environmental Earth Sciences, 2013, 70, 2729-2752.	1.3	34
10	Application of the modified Q-slope classification system for sedimentary rock slope stability assessment in Iran. Engineering Geology, 2020, 264, 105349.	2.9	34
11	Assessment of discontinuous rock slope stability with block theory and numerical modeling: a case study for the South Pars Gas Complex, Assalouyeh, Iran. Environmental Earth Sciences, 2017, 76, 1.	1.3	33
12	Key-block based analytical stability method for discontinuous rock slope subjected to toppling failure. Computers and Geotechnics, 2020, 124, 103620.	2.3	32
13	Landfill site selection utilizing TOPSIS methodology and clay liner geotechnical characterization: a case study for Ankara, Turkey. Bulletin of Engineering Geology and the Environment, 2014, 73, 369-388.	1.6	31
14	Design of anchorage and assessment of the stability of openings in silty, sandy limestone: a case study in Turkey. International Journal of Rock Mechanics and Minings Sciences, 2004, 41, 37-49.	2.6	28
15	Geotechnical investigations and preliminary support design for the Geşilmez tunnel: A case study along the Black Sea coastal highway, Giresun, northern Turkey. Tunnelling and Underground Space Technology, 2014, 40, 277-299.	3.0	28
16	Development of a 2D and 3D computational algorithm for discontinuity structural geometry identification by artificial intelligence based on image processing techniques. Bulletin of Engineering Geology and the Environment, 2019, 78, 3371-3383.	1.6	28
17	Evaluation of the site effects of the Ankara basin, Turkey. Journal of Applied Geophysics, 2012, 83, 120-134.	0.9	27
18	Discontinuous rock slope stability analysis under blocky structural sliding by fuzzy key-block analysis method. Heliyon, 2020, 6, e03907.	1.4	26

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19	Environmental geological and geotechnical investigations related to the potential use of Ankara clay as a compacted landfill liner material, Turkey. <i>Environmental Geology</i> , 2005, 47, 225-236.	1.2	25
20	Geotechnical characterization and performance assessment of bentonite/sand mixtures for underground waste repository sealing. <i>Applied Clay Science</i> , 2010, 49, 394-399.	2.6	25
21	Stochastic geometry model of rock mass fracture network in tunnels. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2018, 51, 379-386.	0.8	25
22	Evaluation of a compacted bentonite/sand seal for underground waste repository isolation. <i>Environmental Geology</i> , 2006, 50, 331-337.	1.2	22
23	Evaluation of site effect within the tectonic basin in the northern side of Ankara. <i>Engineering Geology</i> , 2015, 192, 76-91.	2.9	22
24	Performance assessment of a bentonite-sand mixture for nuclear waste isolation at the potential Akkuyu Nuclear Waste Disposal Site, southern Turkey. <i>Environmental Earth Sciences</i> , 2015, 73, 6101-6116.	1.3	22
25	National level landslide susceptibility assessment of Turkey utilizing public domain dataset. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	21
26	Clustering method for spread pattern analysis of corona-virus (COVID-19) infection in Iran. <i>Journal of Applied Science Engineering Technology and Education</i> , 2021, 3, 1-6.	0.2	21
27	Engineering geological investigations and the preliminary support design for the proposed Ordu Peripheral Highway Tunnel, Ordu, Turkey. <i>Engineering Geology</i> , 2008, 96, 43-61.	2.9	20
28	Displacement monitoring, displacement verification and stability assessment of the critical sections of the Konak tunnel, İzmir, Turkey. <i>Tunnelling and Underground Space Technology</i> , 2020, 101, 103357.	3.0	20
29	Application of fuzzy expert decision-making system for rock slope block-toppling modeling and assessment: a case study. <i>Modeling Earth Systems and Environment</i> , 2021, 7, 159-168.	1.9	20
30	Development of a geotechnical and geophysical database for seismic zonation of the Ankara Basin, Turkey. <i>Environmental Geology</i> , 2008, 55, 165-176.	1.2	18
31	Evaluation of site conditions for the Ankara Basin of Turkey based on seismic site characterization of near-surface geologic materials. <i>Soil Dynamics and Earthquake Engineering</i> , 2010, 30, 8-20.	1.9	18
32	Deep learning-based key-block classification framework for discontinuous rock slopes. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1131-1139.	3.7	18
33	Engineering geological investigations along the İliksu Tunnels, Alanya, southern Turkey. <i>Engineering Geology</i> , 2003, 68, 141-158.	2.9	16
34	Design implications of analytical and laboratory studies of permanent abandonment plugs. <i>Canadian Geotechnical Journal</i> , 1999, 36, 21-38.	1.4	15
35	Geotechnical evaluation of Ankara clay as a compacted clay liner. <i>Environmental Earth Sciences</i> , 2015, 74, 2991-3006.	1.3	15
36	Geothermal resource assessment of the Gediz Graben utilizing TOPSIS methodology. <i>Geothermics</i> , 2019, 80, 92-102.	1.5	15

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37	Evaluation of a sand bentonite mixture as a shaft/borehole sealing material. <i>Applied Clay Science</i> , 2018, 164, 34-43.	2.6	14
38	Influence of degree of saturation on the borehole sealing performance of an expansive cement grout. <i>Cement and Concrete Research</i> , 2000, 30, 281-289.	4.6	12
39	Investigation of the failure mechanism and stabilization of a landslide in weathered tuffite, Giresun, northeastern Turkey. <i>Environmental Earth Sciences</i> , 2014, 72, 3723-3740.	1.3	11
40	Landslide susceptibility assessment in medium-scale: case studies from the major drainage basins of Turkey. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	1.3	11
41	Analytical and experimental assessment of mechanical borehole sealing performance in rock. <i>Engineering Geology</i> , 1997, 47, 233-241.	2.9	10
42	Correlations of SPT, CPT and pressuremeter test data in alluvial soils. Case study: Tabriz Metro Line 2, Iran. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 5067-5086.	1.6	9
43	An evaluation of seismic hazard and potential damage in Gaziantep, Turkey using site specific models for sources, velocity structure and building stock. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 154, 107129.	1.9	9
44	Performance assessment of cement grout borehole plugs in basalt. <i>Engineering Geology</i> , 1994, 37, 137-148.	2.9	8
45	Remediation of the geotechnical problems of the Hasankeyf historical area, southeastern Turkey. <i>Environmental Geology</i> , 2003, 44, 522-529.	1.2	8
46	Geotechnical assessment and engineering classification of the Antalya tufa rock, southern Turkey. <i>Engineering Geology</i> , 2015, 197, 211-224.	2.9	8
47	Engineering geological characterization of the Antalya karstic rocks, southern Turkey. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	8
48	Stability of expansive cement grout borehole seals emplaced in the vicinity of underground radioactive waste repositories. <i>Environmental Geology</i> , 2004, 45, 1167-1171.	1.2	6
49	Assessment of the effect of mineralogy on the geotechnical parameters of clayey soils: A case study for the Orta County, Ankara, Turkey. <i>Applied Clay Science</i> , 2018, 164, 44-53.	2.6	6
50	The use of Ankara Clay as a compacted clay liner for landfill sites. <i>Clay Minerals</i> , 2017, 52, 391-412.	0.2	5
51	Composite landfill liner design with Ankara clay, Turkey. <i>Environmental Geology</i> , 2005, 47, 795-803.	1.2	4
52	An empirical strength criterion for the Antalya tufa rock, southern Turkey. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	4
53	Application of an optical fiber-based system for mass movement monitoring. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	1.3	4
54	Influence of elevated temperature on axially loaded expansive cement grout borehole plug sealing performance. <i>Magazine of Concrete Research</i> , 2000, 52, 379-394.	0.9	3

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55	Optical Fiber Technology to Monitor Slope Movement. , 2015, , 1425-1429.		3
56	Development of a three-dimensional basin model to evaluate the site effects in the tectonically active near-fault region of Glyaka basin, Dzce, Turkey. Natural Hazards, 2022, 114, 941-969.	1.6	3
57	A generalized seismic source model for the Eastern Marmara Region along the segments of the North Anatolian Fault System. Soil Dynamics and Earthquake Engineering, 2016, 88, 412-426.	1.9	2
58	Characterization and Assessment of Large Landslide Movement Along the Bursa-Inegl-Bozyk Highway in Turkey. , 2015, , 289-293.		2
59	Undrained Stability of Residual Soil in Karst. , 2008, , .		1
60	Environmental geological investigations at the Van open dump site, southeastern Turkey. Environmental Geology, 2000, 39, 660-666.	1.2	0