

CURRICULIUM VITAE

PERSONAL INFORMATION

Name: MASHALA

Family Name: KHAMEHCHIYAN

Birth Date: 17th July 1957

Birth Place: Kashan-Iran

Marital status: Married with two sons

Position: Professor of Engineering Geology

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EDUCATION:

-B.Sc. in Geology, Shiraz University, Shiraz, Iran, 1986.

-M.Sc. in Engineering Geology, Tarbiat Modares University, Tehran, Iran, 1990.

-Ph.D. in Engineering Geology, Department of Civil Engineering, Saga University, Saga, Japan, 1995.

EXPERIENCE:

A)Teaching:

M.Sc. of Engineering Geology since 1995: Soil Mechanics, Advanced Rock Mechanics, Advanced Engineering Geology, Ground Water and Geotechnical Problems.

Ph.D. of Engineering Geology since 2002: Advanced rock mechanics, Environmental geotechnics.

B) Supervising and guiding research:

Since 2002: Supervising 40 M.Sc. and 5 Ph.D., advising 9 M.Sc. and 4 Ph.D. (all in Farsi) as follows:

Supervising Ph.D. theses:

- 1- **Moradi, S.K.:** Geotechnical properties of sedimentary environments in Holocene deposits of Southern Khuzestan Plain, 2007.
- 2- **Hasanpoor, J.:** Evaluation of the impact of engineering geological parameters on performance of Tunnel Boring Machine (TBM), 2009.
- 3- **Rajabi, A.M.:** Optimum Model for Assessment of Earthquake-Induce Landslides Hazard in Alborz and Central Iran, 2010.
- 4- **Solouki, H.R.:** Study of interaction of soil engineering properties and wind erosion in Sistan Plain, 2011.
- 5- **Mokhtari, E.:** Using intelligent methods in landfill site selection based on engineering geological criteria, 2014.
- 6- **Mahmoudpour, M.:** Role of Interaction between Engineering Geological Characteristics and Groundwater Withdrawal in Mechanisms and Patterns of Land Subsidence in Southwest of Tehran Region, 2015
- 7- **Roshanbakht, K.:** Sand biomediation by microbial induced carbonate precipitation, 2016.

- 8- **Borumandi, M.:** Assessment of geological properties and landuse in determination of soil pollutants by Geostatistical methods (a case study in Zanzan Province), 2016.
- 9- **Yazarloo, S.:** Effect of nanoparticles on seismic resistance of soils against liquefaction, 2017.
- 10- **Malek, G.:** Design and application of horizontal dynamic cone penetrometer (HDCP) for determination of engineering parameters of SP and CL soils, 2018.
- 11- **Zalooli, A.:** Evaluation of the effect of petrographic properties on decay of granitic building stones subjected to salt crystallization and freezing-thaw cycles, 2018.
- 12- **Ghasemi, S.:** Investigation of the effect the lithological features of rocks on the initiation and propagation of cracks in uniaxial and cyclic loading, case study, case study: granite, gabbro and andesite, 2019.
- 13- **Nilforroshan, A.:** Occurrence mechanism investigation of large landslides in the North of Dehdasht, 2020.

Supervising M.Sc. theses:

- 1- **Rashidi, A.:** Comparison between consolidation parameters of conventional consolidation, large-scale consolidation test and consolidation with radial drainage, 1998.
- 2- **Keshavarz, M.:** Erodibility survey of Ujan Chai river basin using fuzzy set theory, 1998.
- 3- **Soluki, H.R.:** Study of dispersive soils in relation with geological conditions in Khuzestan province, Iran, 1998.
- 4- **Rezaei, H.:** Engineering geological characterization of marly rocks in Dusti dam site area, Sarakhs, Iran, 1999.
- 5- **Moradi, K.:** Engineering geological characterization of Quaternary sediments in Varamin plain, south of Tehran, 1999.
- 6- **Movahedi, A.A.:** Engineering geological characterization of Quaternary sediments in south and central of Tehran, 2001.
- 7- **Hossini, S.J.:** Evaluation of preloading with vertical band drain in improvement of fine grained soils, 2001.
- 8- **Bahreini, P.:** Engineering geological characterization of soft rocks in Agh Chai dam site area, 2001.
- 9- **Nazari, M.H.:** Evaluation of effective engineering geological parameters in designing of grouting curtain of Salmane Farsi dam, 2002.
- 10- **Rahimi, A.:** Study of the cause of soil erosion in Sistan Plain from engineering geological view, 2002.
- 11- **Roshanbakht, K.:** Engineering geological characterization of thick alluvial sediments as dam foundation in Ghazan dam site, Khuy – Iran, 2002.
- 12- **Rakei, B.:** Landslide hazard zonation using neural network; case study: Sefidar Gholeh area in Semnan prtovince, Iran, 2003.
- 13- **Arianfar, A.:** Engineering geological investigation of Sangerd dam site and its role in waterproofing the dam, 2003.
- 14- **Shefaattalab, H.:** Evaluation of engineering geological paremeters affecting on the design of grout curtain of Polroud Dam (Roudsar), 2004.
- 15- **Cheshmdoost, M.:** Evaluation of land compaction with BSP rapid impact compactor and comparing it with freefall method in reclaimed lands from sea (case study: South Pars Area- Assalouyeh), 2004.

- 16- **Tajik, M.:** Assessment of geoenvironmental effects of petroleum pollution on coastal sediments of Bushehr province, 2004.
- 17- **Khodsiani, A.R.:** Study of engineering geological parameters for stabilization of alluvial deposits of Shahriar dam site using jet grouting method, 2005.
- 18- **Kolahchi, M.H.:** Investigation of geotextile influence in engineering properties improvement of soft grounds, 2005.
- 19- **Khabazi, A.:** Study of engineering geology of alluvial sediments in path of Tabriz subway tunnels, 2006.
- 20- **Banikheir, M.:** Evaluation of engineering geological properties of Amirkabir dam water conveyance tunnel passageway to Tehran, 2006.
- 21- **Parhizgar, M.R.:** Investigation of geological hazards at Tang-e-Sorkh dams site, Shiraz, with special view of gypsum solubility, 2007.
- 22- **Khalesi, S.:** Evaluation of hydrogeological properties granodioritic rock masses of Shoor-Jiroft dam site using neural networks, 2008.
- 23- **Abdi rise, M.:** Study of engineering geology of rock masses of Darian dam site (northwest of Paveh), 2008.
- 24- **Boroumandi, M.:** Evaluation of engineering geological parameters in hazardous waste landfill site selection in Zanjan province, Iran, 2008.
- 25- **Ahmadi, M.J.:** Engineering properties of some sandstone outcrops of Upper Red formation, 2008.
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- 38- **Nokhizi, A.:** Engineering geological investigation of rock units in Hasan Beig basin and preparing engineering geological map, 2013.
- 39- **Abbassi, M.:** Evaluating the effect of Tehran Metropolitan air pollutants on engineering geological characteristics of building facade stones, 2014.
- 40- **Moammadi, S.:** Evaluatoin of effect of engineering geological parameter on groutability of Bakhtiari dam foundation by grouting intensity number (GIN) method by using numerical modeling, 2014.
- 41- **Mirjalili, T.:** The influence of engineering geological characteristics of limestone aggregate on artificial stone characteristics, 2014.
- 42- **Rahimi Menbar, H.:** Study the engineering properties of low-temperature metamorphic rocks (Tkab- Marivan) and the possibility to use as aggregate in embankments and core dams, 2016.
- 43- **Jalilian, H.:** Locating and evaluation of engineering geological characteristics of rock borrow materials applicable in hyadruic structures within the Bane township, 2016.
- 44- **Jowkar, M.H.:** Evaluation of the problematic soils of Gachsaran formation with especial reference to dispersive phenomena and improvement it using Nano silica and lime (Masjed Soleyman fertilizer project case study), 2016.
- 45- **Heidari, M.:** Stability analysis and support system design of lower headrace tunnels in Rudbar Lorestan Pumped Storage Power Plant Project, 2016.
- 46- **Zaeri, R.:** Zoning of squeezing potential in philitic rock mass along Sardasht dam water convey tunnel, 2017.
- 47- **Mahmoudian, E.:** Assessment and prediction the hydraulic conductivity rate to water transfer tunnel Sarpol Zahab (T4) with numerical and analytical methods, 2017.

- 48- **Nejati, S.:** Studying the porosity of specimens from the Asmari limestone and Upper Red sandstone using the image analysis method and correlation their porosity with mechanical and physical properties, 2018.
- 49- **Manafi Azar, A.:** Prediction of subsidence rate in Southwest Tehran plain aquifer using intelligent models, 2019.
- 50 – **Karimi, H.:** Evaluation of the wear of disc cutters in hard and resistant rock (case study: kerman water transfer tunnel), 2020.
- 51- **Mousavi, S.M.:** Investigation on the creep behavior of carbonate stones in headrace tunnel of Rudbar pumped-storage hydroelectricity site, Lorestan province, 2021.

Advising Ph.D. thesis:

- 1- **Pahlavan, B.:** Study of deformability if Tehran coarse grain alluvium by using pressuremeter for surface foundation designs, 2003.
- 2- **Mohammadi, S.D.:** Application of the Dynamic Cone Penetrometer (DCP) for determination of the engineering parameters of sandy soils, 2008.
- 3- **Taheri, D.:** The behavior of Soft clastic sedimentary rocks and introducing their proper failure criterion, 2009.
- 4- **Hashemi, M.:** engineering geological characterization of Caspian sea beaches in Gilan province with emphasis on environmental geological hazards, 2012.
- 5- **Jamshidi, A.:** Investigating the durability of travertine stones against of freeze-thaw and salt crystallization, 2014.
- 6- **Kazemi, P.:**
- 7- **Sadeghi, E.:** Evaluation of Durability of Carbonate Rocks in Central Alborz Zone and Their Application in Asphalt mixtures, 2021.

C) Administration:

- Deputy Administration and Financial Affairs of Faculty of Science, Tarbiat Modares University, 1998-2004
- Head of Geology Department, Tarbiat Modares University, 2000 - 2002
- Head of Engineering Geology Group, Tarbiat Modares University, 2002-2005.
- Deputy Administration and Financial Affairs of Faculty of Science, Tarbiat Modares University, 2005-2006.
- Head of Engineering Geology Group, Tarbiat Modares University, since 2006.

D) Consulting activities

- Geology Expert, Small hydro-power section, Ministry of Jihad, Tehran-Iran, 1986-1990.
- Geology Expert, Sazeh Pardazi Consultant Engineers Company, 1990
- Geotechnical evaluation of soils and rocks, Engineering Geology Laboratory, Tarbiat Modares University, Tehran-Iran, Since 1996
- Referee of "Guideline for the study of land subsidence due to groundwater withdrawal in Iran", Project No. 31305210, Ministry of Power, 2004-2005

INSTITUTIONSAL MEMBERSHIPS:

- 1- International Association of Engineering Geology and the Environment (IAEG)
- 2- Geological Society of Iran

- 3- Iranian Society of Soil Mechanics and geotechnical Engineering
- 4- Rock Mechanics Society of Iran
- 5- Iranian Society of Engineering Geology and the Environment (Head of society since 2008)

PUBLICATIONS:

A) Theses:

- 1- **Khamehchiyan, M.** (1990), Study of physical and mechanical properties of calyey-marly rocks, M.Sc. thesis, Tarbiat Modares University, Tehran-Iran(In Persian).
- 2- **Khamehchiyan, M.** (1995), Study of geotechnical and geoenvironmental aspects of land subsidence due to withdrawal of ground water, Department of civil engineering, Saga university, Saga-Japan.

B) Journal Papers (In English):

- 1- **Khamehchiyan, M.**, Iwao, Y. 1994, Geotechnical properties of Ariake clay in Saga plain-Japan, Journal of geotechnical engineering, JSCE, 505/III-29, pp. 11-18.
- 2- **Khamehchiyan, M.** , Iwao, Y. and Saito, A. 1995, Land subsidence and earth fissures due to withdrawal of ground water in Rafsanjan plain, Iran, Reports of faculty of science and engineering, Saga University, Japan, 23(2); 81-91.
- 3- Mousavi, S.M., Shamsai, A., El Nagggar, M.H., **Khamehchiyan, M.** 2001, A GPS – based monitoring program of land subsidence due to ground water withdrawal in Iran, Can. J. Civ. Eng., 28: 452-464.
- 4- **Khamehchiyan, M.**, Chrkhabi, A. H., Tajik, M. 2007, Effect of crude oil contamination on geotechnical properties of clayey and sandy soils, Engineering geology, 89:220-229. <http://dx.doi.org/10.1016/j.enggeo.2006.10.009>
- 5- Fakher, A., Cheshomi, A., **Khamehchiyan, M.** 2007, The addition of geotechnical properties to a geological classification of coarse alluvium in pediment zone, Quaterly Journal of Engineering Geology, 40: 163-174.
- 6- Moradi, K., **Khamehchiyan, M.**, Hafezi Moghadas, N. Amini, H. 2007, Geotechnical properties of Bahmanshir Series, Southwest Khuzestan, Iran, J. of Science and Technology, 31(A1): 123-129.
- 7- Mohammadi, S.D., Nikoudel, M.R., Rahimi, H., **Khamehchiyan, M.** 2008, Application of the dynamic cone penetrometer (DCP) for determination of the engineering parameters of sandy soils, Engineering Geology, 101: 195-203. <http://dx.doi.org/10.1016/j.enggeo.2008.05.006>
- 8- Hassanpour, J., Rostami, J., **Khamehchiyan, M.**, Bruland, A. 2009, Developing new equation for TBM performance prediction in carbonate - argillaceous rocks, a case history of Nowssod water conveyance tunnel, Geomechanic and Geoengeering: An International Journal, 4(4): 287-297, [DOI: 10.1080=17486020903174303](https://doi.org/10.1080/17486020903174303)
- 9- Hassanpour, J., Rostami, J., **Khamehchiyan, M.**, Bruland, A., Tavakoli, H.R. 2010, TBM performance analysis in Pyroclastic Rocks,a case history of Karaj Water Conveyance Tunnel, Rock Mechanica and Rock Engineering, 43: 427-445. [DOI 10.1007/s00603-009-0060-2](https://doi.org/10.1007/s00603-009-0060-2)
- 10- Rajabi, A.M., **Khamehchiyan, M.**, Mahdavifar, M.R., DelGaudio, V. 2010, Attenuation Relation of Arias Intensity for Zagros Mountains Region (Iran), Soil Dynamica and Earth quake Engineering, 30: 110-118. [DOI: 10.1016/j.soildyn.2009.09.008](https://doi.org/10.1016/j.soildyn.2009.09.008)

- 11- Rajabi, A.M., Mahdavifar, M.R., **Khamehchiyan, M.**, DelGaudio, V. 2011, A new empirical estimator of coseismic landslide displacement for Zagros Mountains Region (Iran), *Natural hazards*, 59: 1189-1203. DOI: [10.1007/s11069-011-9829-1](https://doi.org/10.1007/s11069-011-9829-1)
- 12- **Khamehchiyan, M.**, Nikoudel, M.R., Broumandi, M. 2011, Identification of hazardous waste landfill site: A case study from Zanjan Province, Iran, *Environmental Earth Sciences*, 64(7): 1763-1776. DOI [10.1007/s12665-011-1023-y](https://doi.org/10.1007/s12665-011-1023-y)
- 13- **Khamehchiyan, M.**, Abdolmaleki, P., Rakei, B. 2011, Landslide susceptibility mapping using backpropagation neural networks and logistic regression: The Sephidargole case study, Semnan, Iran, *Geomechanic and Geoengineering: An International Journal*, 6(3): 237-250. DOI: [10.1080/17486025.2011.560289](https://doi.org/10.1080/17486025.2011.560289)
- 14- Mohammadi, S.D., Nikoudel, M.R., Rahimi, H., **Khamehchiyan, M.** 2012, Unit skin friction from the extended dynamic cone penetrometer(EDCP) test supplemented by measurement of torque within testing wells, *Iranian Journal of Science and Technology, Transaction of Civil Engineering*, 36(C1): 115-119.
- 15- Ghajar, A., Najafi, A., Torabi, S.A., **Khamehchiyan, M.**, Boston, K. 2012, An adaptive network-based fuzzy inference systems for rock share estimation in forest road construction, *Croatian Journal of Forest Engineering*, 33(2): 313-328.
- 16- Nikoudel, M.R., Mousavi, S.E., **Khamehchiyan, M.**, Jamshidi, A. 2012, Using Miniature Cone Penetration Test (Mini-CPT) to determine engineering properties of sandy soils, *GeoPersia*, 2(2):65-76.
- 17- Rajabi, A.M., **Khamehchiyan, M.**, Mahdavifar, M.R., DelGaudio, V. 2013, A time probabilistic approach to seismic landslide hazard estimates in Iran, *Soil Dynamics and Earthquake Engineering*, 48:25-34.
<http://dx.doi.org/10.1016/j.soildyn.2012.09.005>
- 18- Jamshidi, A. Nikoudel, M.R., **Khamehchiyan, M.** 2013, Predicting the long-term durability of building stones against freeze– thaw using a decay function model, *Cold Regions Science and Technology*, 92: 29-36.
<http://dx.doi.org/10.1016/j.coldregions.2013.03.007>
- 19- **Khamehchiyan, M.**, Rahimi, M., Esmaili, M. 2014, Application of rock mass index (RMi) to the rock mass excavatability assessment in open face excavations, *Geomechanics and geoengineering: An International Journal*, 6:63-71.
<http://dx.doi.org/10.1080/17486025.2013.806996>
- 20- Hashemi, M., Nikoudel, M.R., Hafezi Moghadas, N., **Khamehchiyan, M.** 2014, Engineering geological conditions of the Holocene sediments of Anzali area, South Caspian Coast, North Iran, *Arabian Journal of Earth Sciences*, 7: 2339-2352. DOI [10.1007/s12517-013-0865-x](https://doi.org/10.1007/s12517-013-0865-x)
- 21- Mahmoudpoor, M., **Khamehchiyan, M.**, Nikoudel, M.R., Ghasemi, M.R. 2013, Characterization of regional land subsidence induced by groundwater withdrawal in Tehran, Iran, *Geopersia*, 3(2): 49-62.
- 22- Jamshidi, A. Nikoudel, M.R., **Khamehchiyan, M.** 2013, Estimating the durability of building stones against salt crystallization: considering the physical properties and strength characteristics, *Geopersia*, 3(2): 35-48.
- 23- Jamshidi, A. Nikoudel, M.R., **Khamehchiyan, M.** 2014, Investigating the effect of specimen diameter size on uniaxial compressive strength and elastic properties of Travertines, *Journal of Science, Islamic Republic of Iran*, 25(2): 133-141.
<http://dx.doi.org/10.1080/17486025.2015.1006264>
- 24- Jamshidi, A., Nikoudel, M.R., **Khamehchiyan, M.** 2015, Estimating the Engineering Properties of Building Stones after Freeze-thaw using Multiple Regression Analysis, *Iranian Journal of Science and Technology A:Science*, 39(2): 147-163.

- 25- Jamshidi, A., Nikudel, M.R., **Khamehchiyan, M.** 2016, Evaluation of the durability of Gerdoee travertine after freeze–thaw cycles in fresh water and sodium sulfate solution by decay function models, *Engineering Geology*, 202(1): 36-43. <http://dx.doi.org/10.1016/j.enggeo.2016.01.004>
- 26- Mahmoudpour, M., **Khamehchiyan, M.**, Nikoudel, M.R., Ghasemi, M.R. 2016, Numerical simulation and prediction of regional land subsidence caused by groundwater exploitation in the southwest plain of Tehran, Iran, *Engineering Geology*, 201(1): 6-28. <http://dx.doi.org/10.1016/j.enggeo.2015.12.004>
- 27- Taheri, M., Nikudel, M.R., **Khamehchiyan, M.**, Taheri, K. 2016, Laboratory simulation of karst development in carbonate rocks containing insoluble substances: a case study from west Iran, *Bulletin of Engineering Geology and the Environment*, 75(1): 53-62. DOI 10.1007/s10064-015-0744-7
- 28- Roshanbakht, K., **Khamehchiyan, M.**, Hasan Sajedi, R., Nikoudel, M.R. 2016, Effect of injected bacterial suspension volume and relative density on carbonate precipitation resulting from microbial treatment, *Ecological Engineering*, 89(1): 49-55. <http://dx.doi.org/10.1016/j.ecoleng.2016.01.010>
- 29- Jamshidi, A., Nikudel, M.R., **Khamehchiyan, M.**, Sahamieh, R.Z. 2016, The effect of specimen diameter size on uniaxial compressive strength, P-wave velocity and the correlation between them, *Geomechanics and geoenvironment: An International Journal*, 11(1): 13-19. <http://dx.doi.org/10.1080/17486025.2015.1006264>
- 30- Jamshidi, A., Nikudel, M.R., **Khamehchiyan, M.**, Sahamieh, R.Z., Abdi, Y. 2016, A correlation between P-wave velocity and Schmidt hardness with mechanical properties of travertine building stones, *Arabian J. of Geosciences*, 9:568. DOI 10.1007/s12517-016-2542-3
- 31- Jamshidi, A., Nikudel, M.R., **Khamehchiyan, M.** 2017, A novel physio-mechanical parameter for estimating the mechanical strength of travertine after a freeze –thaw test, *Bulletin of Engineering Geology and the Environment*, 76(1): 181-190., DOI 10.1007/s10064-016-0873-7.
- 32- Jamshidi, A., Nikudel, M.R., **Khamehchiyan, M.**, Zalooli, A., Yeganefar, H., 2017. Estimating the mechanical properties of travertine building stones due to salt crystallization using multivariate regression analysis. *Journal of Sciences, Islamic Republic of Iran*, 28(3), 231–241.
- 33- Zalooli, A., **Khamehchiyan, M.**, Nikoudel, M.R., Jamshidi, A. 2016, Deterioration of Travertine Samples Due to Magnesium Sulfate Crystallization Pressure: Examples from Iran, *Geological and Geotechnical Engineering*, 35(1): 463-473, DOI 10.1007/s10706-016-0120-9.
- 34- Yazarloo, R., **Khamehchiyan, M.**, Nikoudel, M.R. 2017, Observational -computational 3D Engineering Geological Model and Geotechnical Characteristics of Young Sediments of Golestan Province, *Computational Research in Applied Science and Engineering*, 3(1): 7-18.
- 35- Zalooli, A., Freire-Lista, D.M., **Khamehchiyan, M.**, Nikudel, M.R., Fort, R., Ghasemi S. 2018. Ghaleh-khargushi rhyodacite and Goid andesite from Iran characterization uses and durability. *Environmental Earth Sciences*, 77(8): 315-1-315-15. <http://doi.org/10.1007/s12665-018-7485-4>
- 36- Zalooli, A., **Khamehchiyan, M.**, Nikudel, M.R. 2018. The quantification of total and effective porosities in travertines using PIA and saturation-buoyancy methods and the implication for strength and durability, *Bulletin of Engineering Geology and the Environment*, 77(4): 1739-1751. DOI 10.1007/s10064-017-1072-x
- 37- Ashtari, M., Mousavi, S.E., Cheshomi, A., **Khamehchiyan, M.** 2019, Evaluation of the single compressive strength test in estimating uniaxial compressive and

Brazilian tensile strengths and elastic modulus of marlstone, *Engineering Geology*, 248:256-266.

<https://doi.org/10.1016/j.enggeo.2018.12.005>

- 38- Zalooli, A., **Khamehchiyan, M.**, Nikudel, M.R. 2019. Durability assessment of Gerdoi and red travertines from Azarshahr, East Azerbaijan province, Iran. *Bulletin of Engineering Geology and the Environment*, 78(2): 1683- 1695. <https://doi.org/10.1007/s10064-018-1249-y>
- 39- Borouani, M., **Khamehchiyan, M.**, Nikudel, M.R., Mohammadzadeh, M. 2019. Evaluation of heavy metal pollution in surface soils in Zanjan province, Iran. *International Journal of Ecosystems and Ecology Sciences (IJEES)*, 9(1): 173- 182. <https://doi.org/10.31407/ijeec>
- 40- Borouani, M., **Khamehchiyan, M.**, Nikudel, M.R., Mohammadzadeh, M., Evaluation of soil pollution sources using multivariate analysis combined with geostatistical methods in Zanjan Basin, Iran. *Geopersia*, 9(2): 293-304. <https://doi.org/10.22059/GEOPE.2019.263512.648406>
- 41- Yazaloo, R., **Khamehchiyan, M.**, Nikudel, M.R., The effect of nano-Kaolinite on liquefaction resistance of liquefiable sand. *Geopersia*, 10(1): 101-113. <https://doi.org/10.22059/GEOPE.2019.259459.648392>
- 42- Ghasemi, S., **Khamehchiyan, M.**, Taheri, A., Nikudel, M.R., Zalooli, A. 2020. Crack evolution in damage stress thresholds in different minerals of granite rock. *Rock Mechanics and Rock Engineering*, 53:1163–1178. <https://doi.org/10.1007/s00603-019-01964-9>
- 43- Zalooli, A., **Khamehchiyan, M.**, Nikudel, M.R., Freire-Lista, D.M., Fort, R., Ghasemi S. 2020. Artificial microcracking of granites subjected to salt crystallization aging test. *Bulletin of Engineering Geology and the Environment*, 79(10): 5499- 5515. <https://doi.org/10.1007/s10064-020-01891-y>
- 44- Nilforroshan, A., **Khamehchiyan, M.**, Nikudel, M.R. 2021. Investigation of the probable trigger factor for large landslides in north of Dehdasht, Iran. *Natural Hazard*, 15: 1891-1921. <https://doi.org/10.1007/s11069-020-04382-1>
- 45- Malek, G., **Khamehchiyan, M.**, Nikudel, M.R., 2021. Horizontal dynamic cone penetrometer: A new device for estimating engineering properties of vertical soil wall in SP soil. *Geotechnical Testing Journal*, 44(1): 87-111. <https://doi.org/10.1520/GTJ20180319>
- 46- Ghasemi, S., **Khamehchiyan, M.**, Taheri, A., Nikudel, M. R., Zalooli, A. 2021. Microcracking Behavior of Gabbro During Monotonic and Cyclic Loading. *Rock Mechanics and Rock Engineering*, 54(5), 2441-2463. <https://doi.org/10.1007/s00603-021-02381-7>
- 47- Sadeghi, E., Nikudel, M.R., **Khamehchiyan, M.**, Kavussi, A. 2022. Estimation of Unconfined Compressive Strength (UCS) of Carbonate Rocks by Index Mechanical Tests and Specimen Size Properties: Central Alborz Zone of Iran. *Rock Mechanics and Rock Engineering*, 55(1), 125-145. <https://doi.org/10.1007/s00603-021-02532-w>
- 48- Sadeghi, E., Nikudel, M.R., **Khamehchiyan, M.**, Kavussi, A. 2022. A comprehensive view on the compilation of an engineering geological map of carbonate rocks: a case study in the Central Alborz Zone, Iran. *Quarterly Journal of Engineering Geology and Hydrogeology*, 55(3): qjegh2021-062, <https://doi.org/10.1144/qjegh2021-062>.
- 49- Kazemi, P., Nikudel, M.R., **Khamehchiyan, M.**, Giri, P., Taheri, S., Clark, S.M. 2022. Assessment of alkali-silica reaction potential in aggregates from Iran and Australia using thin-section petrography and expansion testing. *Materials*, 15: 4289, <https://doi.org/10.3390/ma15124289>.

C) Journal papers (In Persian):

- 1- **Khamehchiyan, M.**, Rahimi, H., Soluki, H. 2001, Study of dispersive soils in relation with geological conditions in Khuzestan plain, Iran. Quarterly J. of Geoscience, 35-36: 44-59.
- 2- Pahlavan, B., Fakher, A., **Khamehchiyan, M.**, Sanie, H. 2003, Study of deformability variables of Tehran coarse grain alluvium using Menard pressuremeter, Quarterly J. of Geoscience, 47-48: 96-117.
- 3- **Khamehchiyan, M.**, Rahimi, A., Lashgaripour, G. and Soluki, H. 2005, Investigation of erosion causes of Sistan Plain soils from engineering geological point of view with special references to dispersivity phenomenon, Journal of science, Tehran University, 31: 253-268.
- 4- Rakei, B., **Khamehchiyan, M.**, Abdolmalekei, P., Giahchi P. 2007, Application of Artificial Neural Network for Landslide Hazard Zonation, Journal of science, Tehran University, 33(1): 57-64.
- 5- **Khamehchiyan M.**, Abdolmalekei P., Rakei B. 2007, Using Logistic Regression Analysis for Landslide Hazard Zonation in Sephidargoleh Area, J. of Amirkabir, Amirkabir University, 16(62-c): 65-76.
- 6- Fakher, A., Cheshomi, A., **Khamehchiyan, M.**, 2007, Geology of Tehran alluvium and evaluation of Riben classification for geotechnical investigation, Journal of science, Tehran University, 33: 64-57.
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