

Curriculum Vita (updated: 2017)

Personal Information:

- **Name:** Dr. Mohammad Mahdi Khatib
- **Date of Birth:** 23/03/1962
- **Occupation:** Professor in Dept. of Geology, Faculty of Sciences, University of Birjand, Birjand, Iran
- **Marital status:** Married with 3 children
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Educational Background:

Date	Place	Degree Obtained
1999	Dept. of Geology., Faculty of Sciences, University of Shahid Beheshti , Tehran, Iran	Ph.D. in Tectonic
1990	Dept. of Geology, Faculty of Sciences, University of Tarbiat Modarres, Tehran, Iran.	MSc. in Structural Geology Geology
1984 - 1988	Dept. of Geology, Faculty of Sciences, Mashhad University, Mashhad, Iran	BSc. in Geology
1979	Taleghani High School, Birjand, Iran.	Diploma in Experimental Sciences.

Topic of Ph.D.: Geometry of termination of strike-slip faults, case study in Nehbandan fault zone, east of Iran, Supervised by: Dr. S. Sharyari. 195 p. 1999.

– **Topic of M.Sc.:** Structural analysis of southern Birjand mountains, Supervised by: Dr. M.A.Nogolsadat, 185 P. 1990.

Publications:

A) Journal papers

- 1- Michael Jentzer, Marc Fournier, Philippe Agard, Jafar Omrani, **Mohammad Mahdi Khatib**, Hubert Whitechurch, 2017, Neogene to Present paleostress field in Eastern Iran (Sistan belt) and implications for regional geodynamics, Tectonic, Volume 36, Issue 2, Pages 321–339
- 2- Etemadkhah, Z., **Khatib, M.M.**, Zarrinkoub, M.H., 2015, Deformation of the Zahri granitoid during and after crystallization inferences from textural evidences in the terminations of Nekbandan shear zone, Easter Iran, Iranian Journal of crystallography and mineralogy, Vol.23, No.3, 495-506.
- 3- Kavyani Sadr, Kh., **Khatib, M.M.**, Zarrinkoub, M.H., 2015, Effect of Structural Controllers on ore Mineral Deposits of Cheshmeh Khouri Area, Scientific Quarterly Journal, GEOSCIENCES, Vol.24, No. 95,323-332.

- 4- Etemadkhah, Z., **Khatib, M.M.**, Zarrinkoub, M.H., 2015, Late Cretaceous evolution of the northern Sistan suture zone, eastern Iran: Implications of magnetic fabric and microstructures in the Bibi Maryam granitoid. *Journal of Earth System Science*, 124, No. 3, 631-642
- 5- MORTEZA FATTAHI, RICHARD WALKER, **MOHAMMAD M KHATIB**, MOHAMMAD ZARRINKOUB and MORTEZA TALEBIAN, 2015, DETERMINATION OF SLIP-RATE BY OPTICAL DATING OF LAKE BED SEDIMENTS FROM THE DASHT-E-BAYAZ FAULT, NE IRAN MORTEZA, *GEOCHRONOMETRIA* 42, 148–157
- 6- Zarrinkoub, M.H., Mohammadi, S.S., Sun-Lin Chung and **Khatib, M.M.**, 2014, Petrography, geochemistry and dating for the Takht-e baz granitoid north-western of Birjand, east of Iran, *Petrology*, 5th Year, No. 18, Summer 2014.
- 7- Su, B-X., Chung, S-L., Zarrinkoub, M.H., Pang, K-N., Chen, L., Ji, W-Q., Brewer, A., Ying, J-F., **Khatib, M.M.**, 2014, Composition and structure of the lithospheric mantle beneath NE Iran: Constraints from mantle xenoliths, *Lithos* 202–203, 267–282.
- 8- Kavyani Sadr, Kh., **Khatib, M.M.**, Zarrinkoub, M.H., 2013, Mineralization and structural relationship based on aeromagnetic, satellite data and field geology in Cheshmeh Khouri Area, *Journal of advance applied geology*, No. 9, 54-62.
- 9- Pang, K-N., Chung, S-L., **Zarrinkoub, M.H.**, Khatib, M.M., Mohammadi, S.S., Chiu, H-Y., Chu, C-H., Lee, H-Y., Lo, C-H., 2013, Eocene–Oligocene post-collisional magmatism in the Lut–Sistan region, eastern Iran: Magma genesis and tectonic implications, *Lithos* 180–181, 234–251.
- 10- Pang, K-N., , Chung, S-L., Zarrinkoub, M.H., Lin, Y-C., Lee, H-Y., Lo, C-H., and **Khatib, M.M.**, 2013, Iranian ultrapotassic volcanism at ~11 Ma signifies the initiation of post-collisional magmatism in the Arabia–Eurasia collision zone, *Terra Nova*, 25, 405–413.
- 11- Babaei, L., **Khatib, M.M.**, Zarrinkoub, M.H., 2013, Mechanism of igneous veins emplacement in Rokat area (south west of Birjand), by using of paleostress analysis. *Iranian Journal of geology*, Vol.6, No.24, 45-53.
- 12- Zarrinkoub, M.H., Chung, S.L., Mohammadi, S.S., **Khatib, M.M.**, Fotoohi-Rad, G.R., Gholami, E., and Abbaslu, F., 2012, Petrogenesis and isotopic age dating (uranium-lead) on zircon in granitoid body of metamorphic complex in Zul, southwest of Qaen, East of Iran. *Iranian Journal of geology*, Vol.5, No.20, 73-86.
- 13- Chiu, H-Y., Chung, S.L., Zarrinkoub, M.H., Mohammadi, S.S., **Khatib, M.M.**, and Iizuka, Y., 2013, Zircon U–Pb age constraints from Iran on the magmatic evolution related to Neotethyan subduction and Zagros orogeny, *Lithos* 162-163 , 70–87.
- 14- Zarrinkoub, M.H., Pang, K.N., Chung, S-L., **Khatib, M.M.**, Mohammadi, S.S., Chiu, H-Y., Lee, H-Y., 2012, Zircon U-Pb age and geochemical constraints on the origin of the Birjand ophiolite, Sistan suture zone, eastern Iran, *Lithos* 154 , 392–405.
- 15- Raisossadat, S.R., Zarrinkoub, M.H., **Khatib, M.M.**, 2012, Geomorphology and Genesis of Sahl Abad Playa- East of Iran, *Geographi and Development Iranian Journal*, Vol.10, No.28, 31-39.
- 16- **Zarrinkoub, M.H.**, Mohammadi, S.S., and Fazilat Yousefi , 2011, Geochemistry and petrogenesis of Givshad volcanic and subvolcanic rocks (southwest of Birjand, east of Iran), *Petrology*, 2nd Year, No. 7.
- 17- Mollashahi, N., Zarrinkoub, M.H., Mohammadi, S.S., **Khatib, M.M.**, 2011, Petrology of young volcanic in Hamun lake area (East of Iran), *Iranian Journal of crystallography and mineralogy*, Vol.19, No.3, 519-528.
- 18- Ghazbanee, R., **Khatib, M.M.**, Zarrinkoub, M.H., 2010, Calculation of 3D strain in Qaleh Zari mine shear zone (South of Birjand), *Journal of Reseaches in Earth Sciences*, Vol.1, No.2, 51-60.
- 19- Walker, R.T. , Gans, P., Allen, M. , Jackson, J., **Khatib, M.M.** , Marsh, N., Saunders, A., Zarrinkoub, M.H., 2009, Late Cenozoic volcanism and rates of active faulting in eastern Iran, *Geophys. J. Int.*, 177, 783-805.
- 20- Zarrinkoub, M.H., Chung, S-L., Mohammad, S.S. , **Khatib, M.M.**, 2011, Zircon Uranium-Lead Dating for Bibi Maryam Granitoid, NE of Nehbandan, East of Iran., *Journal of Economic Geology*, Vol.3, No.1, 15-27.

- 21- Zarrinkoub, M.H., Chung, S-L., **Khatib, M.M.**, Mohammadi, S.S., 2010, Zircon Uranium-Lead Dating, Petrography and Geochemistry for sub volcanic bodies in South-west of Birjand (Rich area), Iranian Journal of Crystallography and Mineralogy, Vol. 18, No. 3, 471-482.
- 22- Fattahi Morteza, Walker Richard, M. Khatib, M. Zarrinkoub, Talebian Morteza, 2007, *Geophys. J. Int*, vol.168,
- 23- B. Parsons, T. Wright, P. Rowe, J. Andrews, J. Jackson, R. Walker, Khatib, M., M. Talebian, E. Bergman and E. R. Engdahl, 2006, The 1994 Sefidabeh (eastern Iran) earthquakes revisited new evidence from satellite radar interferometry and carbonate dating about the growth of an active fold above a blind thrust fault, *Geophys. J. Int*, vol.164,
- 24- M. Berberian, J. A. Jackson, M. Qorashi, M. M. Khatib, K. Priestley, M. Talebian, M. Ghafari-Ashtiani, 1999, The 1997 May 10 Zirkuh (Qa'enat) earthquake (Mw7.2): faulting along the Sistan suture zone of eastern Iran, *Geophys J Int*, 136 (3): 671-694.
- 25- M. Fattahi, R. T. Walker, M. M. Khatib, A. Dolati, A. Bahroudi, 2007, Slip-rate estimate and past earthquakes on the Doruneh fault, eastern Iran, *Geophys J Int*, 168 (2): 691-709.
- 26- Walker, R. T. and Khatib, M. M., 2006, Active faulting in the Birjand region of NE Iran, *TECTONIC*, 25, TC4016
- 27- Kwan-Nang Pang, Sun-Lin Chung, Mohammad Hossein Zarrinkoub, Yu-Chin Lin, Hao-Yang Lee, Ching-Hua Lo, Mohammad Mahdi Khatib, 2013, Iranian ultrapotassic volcanism at ~11 Ma signifies the initiation of post-collisional magmatism in the Arabia–Eurasia collision zone, *Terra Nova*, Volume 25, Issue 5, Pages 405–413
- 28- R.T. Walker, M.M. Khatib. A. Bahroudi. A. Rodés. C. Schnabel. M. Fattahi. M. Talebian. E. Bergman, 2015, Co-seismic, geomorphic, and geologic fold growth associated with the 1978 Tabas-e-Golshan earthquake fault in eastern Iran, *Geomorphology*, Volume 237, Pages 98-118
- 29- M.M. Khatib, T. ghasemi, M. nabei, N.Naemi ghasabian, 2015, An Analysis of the Deformation Process Based on Geometric and Kinematic Properties in Boushad Shear Zone,
- 30- Nasser Naimi-Ghassabian. Mohammad-Mehdi Khatib. Hamid Nazari. Mahmoud-Reza Heyhat., 2015, Present-day tectonic regime and stress patterns from the

formal inversion of focal mechanism data, in the North of Central–East Iran Blocks, *Journal of African Earth Sciences*, Volume 111, Pages 113-126

- 31- Pouya Sadeghi, Mohammad Mahdi Khatib, Ali Asghar Moridi, Sasan Bagheri, 2015, 3D Mechanical modeling of faults planes based on stress fields: a case study of Saravan fault, SE Iran, *Modeling Earth Systems and Environment*, 1:44
- 32- H. R. Rostami Barani, M. M. Khatib, 2015, Back Analysis of Grout Treatment at Sumbar Dam Using the Joint Hydraulic Factor, *Rock Mechanics and Rock Engineering*, , Volume 48, Issue 6, pp 2485–2488
- 33- H.Yazdanpenah, M.M. Khatib, S.S. Ahmadizadeh, 2011, Investigation and nomination of ghesar blind fault by aftershocks, *IJST*, 35A1
- 34- M. Berberian, J. A. Jackson, M. Qorashi, M. Talebian, M. Khatib, K. Priestley, 2000, The 1994 Sefidabeh earthquakes in eastern Iran: blind thrusting and bedding-plane slip on a growing anticline, and active tectonics of the Sistan suture zone, *Geophys J Int* 142 (2): 283-299.

B) Conference papers

- 1- Akbarian Esmail zade, E., **Khatib, M.M.**, and Zarrinkoub, M.H., 2013, *Emplacements hydrothermal fluids in the shear zone fractures Khoshine (North East Birjand)*, 5th symposium of Economic Geology, Ferdosi University, Mashhad, Iran.
- 2- **Khatib, M.M.**, Zarrinkoub, M.H., 2011, *Structural controlres for vein type mineralization in east of Iran*, 4th symposium of Economic Geology, University of Birjand, Birjand, Iran.
- 3- Kavyani sadr, K., **Khatib. M.M.**, Zarrinkoub, M.H., 2011, *Estimation and evaluation of mineral deposits by calcaulating the volumetric strain in exploration of Cheshmeh khouri area,(NW of Birjand)* ,4th symposium of Economic Geology, University of Birjand, Birjand, Iran.
- 4- Kavyani sadr, K., Khatib. M.M., **Zarrinkoub, M.H.**, 2010, *Produced results examination of crosta method and analysis of main components of ETM+ data and determination of alteration zone in Cheshmeh khouri area,(NW of Birjand)*, , 3th symposium of Economic Geology, Chamran University, Ahvaz, Iran.
- 5- Kavyani sadr, K., **Khatib. M.M.**, Zarrinkoub, M.H., 2010, *Determination of high fractured regions in Cheshmeh khouri area,(NW of Birjand)*, 30th Geosciences Symposium, Geological survey of Iran, Tehran, Iran.
- 6- Kavyani sadr, K., **Khatib. M.M.**, Zarrinkoub, M.H., 2010, *Multi deformations in Cheshmeh khouri region based on structural evidences*, 15th Symposium of geology society of Iran, Tarbiat-moaalem University, Tehran, Iran.
- 7- Kavyani sadr, K., **Khatib. M.M.**, Zarrinkoub, M.H., Rahimi, S., 2010, *Geometric and Kinematic analysis on structure of Cheshmeh-Khouri area (NW Birjand)*, 15th Symposium of geology society of Iran, Tarbiat-moaalem University, Tehran, Iran.
- 8- Zarrinkoub, M.H., Chung , S.L., Mohammadi , S.S., **Khatib, M.M.**, *Zircon Uranium-Lead Dating for Birjand Ophiolite complex, East of Iran* , 19th Mineralogy and Crystallography Symposium in Iran, Golestan University, Gorgan, Iran.

- 9- Zarinkoub, M.H., , Chung, S. L.Mohammadi, S.S., **Khatib,M.M.**, 2009, *Zr-U-Pb dating for protozoic metamorphic complex in Zul area, SW of Qaen, East of Iran*,14th Symposium of geology society of Iran,Urumiyah, Iran.
- 10- Zarrinkoub,M.H., Chung, S. L., **Khatib,M.M.**, Mohammadi, S.S., and Chiu,H.Y, 2011, *Aluminous A-type granite of Takhte Baz area (NW of Birjand, East of Iran) And its tectonic significance*, Geophysical Research Abstracts, Vol, 13, EGU 2011 Vienna, Austria.
- 11- **Khatib, M.M.**, Zarrinkoub, M.H., and Yazdanpanah. H. , 2011, *Investigation of active blind fault by aeromagnetic data in North of Birjand, east of Iran*, Geophysical Research Abstracts, Vol, 13, EGU 2011 Vienna, Austria.
- 12- Zarrinkoub,M.H., Chung, S. L., Chiu,H.Y, Mohammadi, S.S.,and **Khatib,M.M.**,2010 , *Zircon U-Pb age and geochemical constraints from the northern sisthan suture zone on the Neotethyan magmatic and tectonic evolution in East of Iran*, Tectonic crossroads: Ankara, Turkey, 4-8 Oct 2010.
- 13- **Khatib, M.M.**, and Zarrinkoub, M.H., 2010, *Structural control for emplacement of the andesitic dikes in Romenjan area,South of Birjand, east of Iran*, Tectonic crossroad: Ankara, Turkey , 4-8 Oct 2010,
- 14- Chiu, H.Y., Zarrinkoub, M.H., Chung, S.L., Lin, I- J., Yang, H.M., Lo, C.H., Mohammadi, S.S., and **Khatib, M.M.**, 2010, *Zircon U-Pb age and geochemical constraints on the magmatic and tectonic evolution in Iran*. Tectonic crossroad: Ankara, Turkey, 4-8 Oct.
- 15- Chiu, H.Y., Zarrinkoub, M.H., Chung, S.L., Lin, I- J., Yang, H.M., Lo, C.H., Mohammadi, S.S., and **Khatib, M.M.**, 2010, *Zircon U-Pb age and geochemical constraints on the magmatic and tectonic evolution in Iran*. Tectonic crossroad: Ankara, Turkey,4-8 Oct.
- 16- Zarrinkoub, M.H., and **Khatib, M.M.**, 2009, *Crustal evolution approach by common textures and structures in listvenites in east of Iran*, Geophysical Research Abstracts, Vol, 11, EGU.
- 17- **Khatib, M.M.**, and Zarrinkoub, M.H., 2009, *Morpho-tectonics and mechanisms of emplacement of the andesitic ring in Giveshad, east of Iran*. Geophysical Research Abstracts, Vol, 11, EGU 2009 Vienna, Austria, 15-20 April .
- 18- Zarrinkoub, M.H., Chung, S.L., **Khatib, M.M.**, S.S. Mohmmadi and Nakhaei, M., 2009, *Dating, petrology and geochemistry of volcanic rocks in rich area . Proceeding of 12th Symposium of Geological Society of Iran*, 18-20 Feb. Ahvaz, Iran.
- 19- M.H.Zarrinkoub and **M.M.Khatib**, 2007, *Antimony-gold mineralization and structural controls in south Nehbandan, East of Iran*. Geophysical Research Abstract, Vol. 9, 0411, 2007, European Geoscience Union, General Assembly, Vienna, Austria, 15-20 April.
- 20- **M.M.Khatib** and M.H.Zarrinkoub, 2007, *Mechanism of rotation and deformation of fault rocks in Boushad transpressional shear zone, east of Iran*, Geophysical Research Abstract, Vol. 9, 04054, 2007, European Geoscience Union, General Assembly, Vienna, Austria, 15-20 April.
- 21- Raissosadat, S.N., Shokri, M.H., Khatib, M.M., **Zarrinkoub, M.H.**, 2009, *Stratigraphy situation of basement of post cretaceous deposits in Birjand*

- area. Proceeding of 12th Symposium of Geological Society of Iran, 18-20 Feb. Ahvaz, Iran.
- 22- Zarrinkoub, M.H., Chung, S.L., **Khatib, M.M.**, S.S. Mohammadi and Nakhaei, M., 2009, Dating, petrology and geochemistry of fanood volcanic rocks. 16h Conference of Crystallography and Mineralogy of Iran, 12-13 Nov. Gilan University, Rasht, Iran.
 - 23- **Khatib, M.M.** and Zarrinkoub, M.H., 2007, *Progressive deformation identification by geometric analysis of Zargar fold-thrust* . Proceeding of 11th Symposium of Geological Society of Iran, 6-8 Sept. Mashhad University, Mashhad, Iran.
 - 24- Khalilzade, B., **Khatib, M.M.**, Mohajel, M., and Zarrinkoub, M.H., 2007, *Shear band bodins as an indicator for shear direction in Boshad shear zone(south of Birjand)*, Proceeding of 11th Symposium of Geological Society of Iran, 6-8 Sept . Mashhad University, Mashhad, Iran.
 - 25- **Khatib, M.M.** and Zarrinkoub, M.H., 2006, *Syntectonic strain analyses listvenite minerals in Razg shear zone(south east of Birjand)* , 13th Conference of Crystallography and Mineralogy of Iran, 1-2 Feb. 2006, pp. 272-277.
 - 26- **Khatib, M.M.** and Zarrinkoub, M.H., 2005, *Structural controllers in emplacement of Khoshineh granite(North – East of Birjand)*, Proceeding of 23rd Symposium on Earth Sciences, Ministry of Industries and Mines, Geological Survey of Iran.
 - 27- Zarrinkoub, M.H. And **Khatib, M.M.**, 2005, *Podiform chromites in Sistan suture zone, an indicator of a nascent spreading centre*, Proceeding of 12th Conference of Crystallography and Mineralogy of Iran, Ahvaz University.
 - 28- **Khatib, M.M.** and Zarrinkoub, M.H., 2004, *Geometry and kinematic analysis of foliations and thrust sheets in ophiolitic mélangé in south of Birjand*, Proceeding of 8th Symposium of Geological Society of Iran, Shahroud university.
 - 29- Zarrinkoub, M.H., and **Khatib, M.M.**, Mohammadi, S.S. And Pournazari, M.R, 2004, *Textural and structural investigation on the chromite deposits in east of Iran*, Abstract of 8th Symposium of Geological Society of Iran, Shahroud university.
 - 30- **Khatib, M.M.** and Zarrinkoub, M.H., 2004, *Calculation of shortening based on geometry of thrust sheets in Argin shear zone(south of Birjand)*, Abstracts of 22nd Symposium on Earth Sciences, Ministry of Industries and Mines, Geological Survey of Iran.
 - 31- Zarrinkoub, M.H., and **Khatib, M.M.**, 2003, *Petrogenesis of chromite deposits in ophiolitic mélangé in south east of Iran*, Proceeding of 6th Symposium of Geological Society of Iran Kerman university.
 - 32- **Khatib, M.M.** and Zarrinkoub, M.H., 2003, *Application of V ratio variation for activity analysis in Bagheran mountains (south of Birjand)*, Proceeding of 6th Symposium of Geological Society of Iran Kerman university.
 - 33- Zarrinkoub, M.H., and **Khatib, M.M.**, 2002, *Petrography and geochemistry of volcanic rocks in south – western of Birjand*, Abstracts 20th Symposium on Earth Sciences, Ministry of Industries and Mines, Geological Survey of Iran.

- 34- **Khatib, M.M.**, and Zarrinkoub, M.H., 2002, *Kinematics, geometric and petrography analyses of thrust sheet in ophiolite mélange*, South of Birjand, Abstracts 20th Symposium on Earth Sciences, Ministry of Industries and Mines, Geological Survey of Iran.
- 35- **Khatib, M.M.** and Zarrinkoub, M.H., 2002, *Chronology of structures and listvenite mineralization steps in Argin shear zone*, proceeding of 5th Symposium of Geological Society of Iran, Tehran University.
- 36- Zarrinkoub, M.H., and **Khatib, M.M.**, 2001, *Grain size and shape analysis of rock fault clasts in main shear zone in Baghran mountain range (south of Birjand)*, Abstracts 19th Symposium on Earth Sciences, Ministry of Industries and Mines, Geological Survey of Iran
- 37- Zarrinkoub, M.H., and **Khatib, M.M.**, 2001, *Emplacement of Bandan chromatic deposit*, Abstract of 5th Symposium of Geological Society of Iran, Tehran university.
- 38- **Khatib, M.M.** and Zarrinkoub, M.H., 2000, *Application of deformed plagioclase crystals for Bushad shear zone analysis*, Abstract of 8th Conference of Crystallography and Mineralogy of Iran, Mashhad University.

Research Projects:

- **Khatib, M.M.**, 2013, Earthquake hazard and zoning in Sarbishe city, governor state of southern khorasan, Iran.
- **Khatib, M.M.**, 2006, The Risk of earthquake faulting in Khezri-Dashte Bayaz area. Council of Khezri
- Zarrinkoub, M.H., **Khatib, M.M.**, Chung, S.L., Mohammadi, S.S. 2012, *Cenozoic magmatism in east of Iran (North part of Sistan suture zone)*, University of Birjand.
- Zarrinkoub, M.H., **Khatib, M.M.**, Raissosadat, S.N., Shabastari, G., and Mohammadi, S.S. 2008, *Internal evaluation at the geology department*, University of Birjand, Birjand, Iran.

Work Experiences:

A) I have taught the following courses since 1990 for B.Sc., M.Sc. and Ph.D. degree students in Dept. of Geology, Faculty of Sciences in University of Birjand, Birjan, Iran

- Structural geology, Tectonic, Field geology, Seismotectonic, Stress, Strain, Advance Structural Geology.

B) Supervisor or advisor for 84 M.Sc. and 18 Ph.D. Thesis since 2000 in Dept. of Geology in:

- University of Birjand, Birjand, Iran
- TarbiatModarres University, Tehran, Iran
- Sistan and Blouchestan University, Zahedan, Iran
- Shahid Beheshty University, Tehran, Iran.

C) Sabbatical leave: 1-for 9 months (2003) in Cambridge University, Cambridge, U.K. 2- for 6 months (2015) in Roma3 University, Rome, Italy.

D) Scientific collaboration with: 1- National Taiwan University (NTU) since 2007 - continue. 2- University Cambridge 2001-2006 3- University of UPMC 2016-2021 4-University of Strasbourg 2016-2021 5-University of Roma3 2015-2020

Fields of Interest:

- Active tectonic
- Brittle structure in shear zones
- Paleosismology in east of Iran