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Numerical Modeling Study of direct and indirect effects of dust storms Study of impacts of climate change on water resources	مدل‌سازی عددی پایش و بررسی اثرات مستقیم و غیر مستقیم طوفان های گردوغبار مطالعه اثر تغییرات آب و هوایی در منابع آب
Educational Record: B.Sc.: Physical Geography – University of Tehran (2006-2010) M.Sc.: Climatology – University of Tehran (2010-2012) Ph.D.: Climatology – University of Tabriz (2012-2016)	سوابق تحصیلی: کارشناسی : جغرافیای طبیعی – دانشگاه تهران (۱۳۸۵–۱۳۸۹) کارپرشناسی ارشد: آب و هواشناسی (۱۳۸۹–۱۳۹۱) دکتری: آب و هواشناسی (۱۳۹۱–۱۳۹۵)
Work Experiences and positions:	سوابق علمی و اجرایی :
Research fellow, Water Research Institute (2018-2019) Faculty member, Water Research Institute (from 2019)	کارشناس پژوهشی، مؤسسه تحقیات آب (۱۳۹۷-۱۳۹۸) عضو هیئت علمی، مؤسسه تحقیات آب (۱۳۹۸- ادامه دارد)
Achievements, Awards and Scholarships:	دستاوردها و جوایز:
• Best PhD student researcher award at university of Tabriz-2016. • Best paper Award. The First International Conference on Dust Haze, Management of Factors and Consequences. 2013 • Be Member of Iran's National Elites Foundation, 2012. • Top Student (MA) at climatology group, University of Tehran, Tehran, Iran, 2012. • Ranked 4th in the nationwide graduate examination, Iran. 2010.	• دانشجو و پژوهشگر نمونه دانشگاه تبریز در مقطع دکتری و منتخب دانشگاه برای جشنواره دانشجویان نمونه کشوری (۱۳۹۵). • دریافت جایزه ارائه بهترین مقاله در اولین کنفرانس بین المللی طوفان های گردوغبار، مدیریت و پیامدها (۱۳۹۲). • عضویت در بنیاد ملی نخبگان (۱۳۹۱). • دانشجوی ممتاز اقلیم شناسی در دوره کارشناسی ارشد دانشکده جغرافیا دانشگاه تهران (۱۳۹۱). • رتبه ۴ آزمون کارشناسی ارشد جغرافیا سال (۱۳۸۹).
Memberships:	عضویت در مجامع علمی و صنعتی:
Member of Iran's meteorology Society. Member of Iran's climatology Society.	انجمن علمی هواشناسی ایران از سال ۱۳۹۴ انجمن ایرانی-اقلیم شناسی از سال ۱۳۹۰
Patents and Publications:	انتشارات و اختراعات:

Publications

Book

- Salahi B. and Najafi M.S. (2018): Global Climate Models and Downscaling (Principals and models). Ardabil. Mohaghegh Ardabili University publication. pp. 215 (In Persian) .

Journals

- Ali Darvishi Boloorani; Mohammad Saeed Najafi; Saham Mirzaei, (2021) Dust storms impacts on atmosphere and vegetation cover in South West Asia, Natural Hazards, 2021.
- Imani S., Hassanoli S.A.M., Farkhnia A., Javadi F., Najafi M.S., 2021, Evaluating the Efficiency of WRF-Hydro Model for Development of Flood Forecasting Systems (Case study: Kashkan Watershed), Vol 16 (4), 225-240 (In Persian)
- Roshan, G., Grab, S. W., & Najafi, M. S. (2020). The role of physical geographic parameters affecting past (1980–2010) and future (2020–2049) thermal stress in Iran. Natural Hazards: Journal of the International Society for the Prevention and Mitigation of Natural Hazards, 102(1), 365-399
- O. Alizadeh-Choobari* and M. S. Najafi, (2018), Climate variability in Iran in response to the diversity of the El Niño-Southern Oscillation, International Journal of Climatology, Vol 38 (11): 4239-4250 DOI: 10.1002/joc.5564.
- O. Alizadeh-Choobari* and M. S. Najafi, (2017), Extreme weather events in Iran under a changing climate, Climate dynamics, doi:10.1007/s00382-017-3602-4.
- M. S. Najafi*, SariSarraf B., A.A. Rasouli, A. Zarrin, (2017) Climatology of atmospheric circulation patterns of Arabian dust in western Iran, Environmental Monitoring and Assessment, 189: 473. doi.org/10.1007/s10661-017-6196-8.

- R. Saeidabadi; M. S. Najafi*; Gh.R. Roshan; J. M. Fitchett; Sh. Abkharabat, (2016). "Modelling spatial, altitudinal and temporal variability of annual precipitation in mountainous regions: The case of the Middle Zagros, Iran", Asia-Pacific J Atmos Sci 52: 437. doi:10.1007/s13143-016-0026-8.
- Omid Alizadeh-Choobari*, A. A. Bidokhti, P. Ghafarian, M. S. Najafi, (2017) Temporal and spatial variations of particulate matter and gaseous pollutants in the urban city of Tehran", Atmospheric Environment. Vol. 141: 443–453.
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- SariSarraf B., A.A. Rasouli, A. Zarrin, M. S. Najafi*, (2016). Analysis of vertical distribution patterns of Dust Storms associate with atmospheric circulation patterns and topography in western Iran, Physical Geography Research Quarterly, Vol 49, No 2. (In Persian).
- Omid Alizadeh-Choobari*, M. S. Najafi, (2017). Climate change in different regions of Iran, accepted in earth and space physic J. No 43, 569-584 (In Persian)
- Saeedabadi R., Abkharabat Sh., Najafi M.S*. (2016). An Analysis of polar Jest Stream (PJS) location Associated with Heavy Rainfalls in Western Iran. Journal of Environmental Studies Vol 41(4): 783–798. (In Persian).
- Saeedabadi R., Najafi M.S.*, Abkharabat Sh., (2016) Land Suitability Assessment in Condition of Climate Change (Case study: Canola Cultivation in West Azerbaijan Providence), Physical Geography Research Quarterly, Vol 47 (4): 563-582. (In Persian).
- Lashkari H.*, Naghizadeh H., Moradi M., Najafi M. S. (2016) Synoptic analysis of the base temperature for snowfall in down level of atmosphere in Northwest of Iran (1995-2008), Journal of Climate Research, No. 19: 11-22, (In Persian).
- Roshan Gh*. R. Najafi M. S., Ángel M. Costa & José A. Orosa (2014) Effects of climate change on wind energy production in Iran, Arab J Geosci (2015) 8: 2359. doi:10.1007/s12517-014-1374-2
- Najafi M.S.*, Khoshakhlagh F, Zamanzadeh SM, Shirazi MH, Samadi M, Hajikhani S (2014) Characteristics of TSP loads during the Middle East Springtime Dust Storm (MESDS) in Western Iran. Arab J Geosci. Volume 7(12): 5367-5381.
- Samadi M.*, Darvishi A., Mohammadi H., Alavi Panah S.K., Najafi M.S. (2014), Global dust Detection Index (GDDI); a new remotely sensed methodology for dust storms detection, J Environ Health Sci Engineer: 12: 20. doi:10.1186/2052-336X-12-20
- Reazaei B. M.*, Najafi M. S., Naghizadeh H., Abkharabat Sh., (2014) The Study of Relationship Between variability of Extreme Precipitation and the main Factors Affecting the precipitation in the West and North West of Iran, Geography and Environmental Hazards, No 13, 133-153. (In Persian).
- Najafi M. S.*, Rasouli A. A., Ashournejad Q., Azarm K. (2014) Implementing of Land Suitability Assessment Models for Canola Cultivation Using Fuzzy Inference System (Case Study: West Azerbaijan Province), Arid regions Geographic Studies, No 15: 113-130 (In Persian).
- Ahmadi S.A.*, Rahimi S., Najafi M.S. (2014) The Role of Global Warming in Geopolitical Developments of International System, Human Geography Research Quarterly, No 88: 361-378 (In Persian).
- Khoshakhlagh F., Najafi M.S.*, Zamanzadeh S.M., Shirazi M.H., Samadi M. (2013) The Study of Dust composition in the west and southwest of Iran. Geography and Environmental Hazards No 6: 17-35 (In Persian).
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- Khoshakhlagh F.*, Najafi M.S., Samadi M., (2012) An analysis on synoptic patterns of springtime dust occurrence in west of Iran, Physical Geography Research Quarterly, No 80: 99-124 (In Persian).
- Shamsipour A.A*., Najafi M.S. et al., (2012) Assessing Climate for Tourism in the City of Bandar-e Anzali Based on Climate Index for Tourism (CIT), Journal of Tourism Planning and Development, No 2: 75-94 (In Persian).
- Rowshan Gh.*, Khaje shahkoohi A., Najafi M.S. , The Outlook of the Estimation of Energy in Use for the Heating and Cooling of the Human settlements in the Future Climate (Case Study: Northwestern States of Iran), Quarterly Journal of Human Geography, Vol 5 (1): 63-78 (In Persian).
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- Rowshan Gh., Owji R., Shahkoohi Gh., Najafi M.S. (2011) Impact of global warming on changes of degree-day for requirement of wheat, for clusters of Different climates in Iran, Journal of Zonal Planing, No 4: 93-109 (In Persian).

Research projects

- WRI-Flood Warning System (WRI-FWS), Water Recourses Research Institute, Ministry of Energy, Iran.
- WRI Seasonal Forecast System Based on regional Climate Modeling, Water Recourses Research Institute, Ministry of Energy, Iran.
- National project 'the Study of Dust Storms in the Middle East and Solutions for Combating'. Geoinformatics Research Institute of the University of Tehran, Atmospheric Science & Metrological Research Center, 2015.
- Spatial and Time Series Analysis of Climate Hazards and Extreme Events in Iran. National Geography Organization, 2012-2014.
- Capability of Tabriz city's urban railway for renewable energies, University of Tabriz. 2014-2015.

Participation in Congress

- Analysis of Synoptic conditions of Dust Occurrence in Summer at the Western Iran, The 1th International Congress on Dust Haze and Combating its Adverse Effects/ Ahwaz,2012.
- The Prevalence of Airborne Dust Microorganisms in the Atmosphere in the West of Iran, The 2th International Congress Microbiology/Ardabil, 2012 .
- New methods in dust detection using satellite data, The 19th National Congress of Geomatics, Tehran, Iran. 2012.
- Assessment of the Impact of Dust Haze on Public Health in the West of Iran, The First International Conference on Dust Haze, Management of Factors and Consequences. 2013.
- Simulating Global Warming Effects on the Occurrence of Dust storms in the West of Iran, The First International Conference on Dust Haze, Management of Factors and Consequences. 2013.
- A solution based on land suitability assessment for the conservation of natural resources in the context of climate change (Case study: Cultivation of oilseeds in West Azerbaijan, The second international and fifth national conference on the Conservation of Natural Resources and Environmen, University of Mohaghegh Ardabili (UMA), 2021.
- A framework based on regional modelling for seasonal precipitation forecast (Case: Autumn), National congress on Iran's water resources. Ferdowsi University Mashhad, 2021.