

CURRICULUM VITAE



Mehdi Abedi

Associate Professor
Tarbiat Modares University
Functional ecology and Nature conservation

Personal Data (Career):

Date and Place of Birth: Sep. 9, 1980, Babol, Iran

Nationality: Iran

English: Fluent

Address: Department of Range Management, Faculty of Natural Resources, Tarbiat Modares University, Noor, Mazandaran, Iran.

Postal Code: 46417-76489, P.O. Box: 46414-356.

Email: abedimail@gmail.com ; mehdi.abedi@modares.ac.ir



H index (Scopus): 19

Total Citations: 2919

Papers: 45 (80% Q1, 9% Q2)

Highly cited papers (Top 1 %): 4; Hot Papers: 1; Research front: 2

Science and Nature publications: 7

Awards and prizes:

The 6th rank in the M.Sc. National Exam

PhD Research Grant (4 years stay in UR, Germany), Iranian Ministry of Science, Research and Technology (MSRT).

Elite of Iran (2025)

Top researcher of TMU (2025)

Academic Education

July 2008 – April 2013 PhD student in ecology and conservation. [Department of botany](#), University of Regensburg.

Title of thesis: *Seed Ecological Studies in Dry Sandy Grasslands for Optimising Conservation and Restoration Management*

January 2007 – October 2007 Instructor of Range and Watershed Management, University of Shahid Chamran, Ahvaz, Iran

April 2006 MSc in Rangeland Ecology and Management, Department of Range Management, Tarbiat Modares University([TMU](#)), Noor, Iran.

Title of thesis: *Comparison of Double Sampling and Pooled Equation Methods for Biomass Production.*

September 2003 BSc in Rangeland and Watershed Management, Faculty of Natural Resources, University of Tehran ([UT](#)), Tehran, Iran.

Research visit- fellowships

2020- IPE-CSIC – Spain- 6 months

2020- Rey Juan Carlos University- 1 month

2023- University of Ankara- 1 month

2018 and 2023- CEBAS-CSIC- Spain- 1 week

Research interests

Functional ecology, Seed ecology, Diversity, Ecosystem function, Phytochemistry, Functional foods, Ecophysiology, chemical ecology

Skills

Ecological modeling (GLM, GAM, Mixed models), R software

Teaching Experience:

Functional ecology	Tarbiat Modares University
Phytochemistry	Tarbiat Modares University
Ecological modeling	Tarbiat Modares University
Medicinal plant functional analysis	Tarbiat Modares University
Rangeland conservation	Tarbiat Modares University
Seed science and technology	Tarbiat Modares University
Plant ecophysiology	Tarbiat Modares University
Applied ecology and nature conservation	University of Regensburg
Rangeland ecology	Shahid Chamran University

Professional Affiliations and Activities:

Member of the Society of Restoration Ecology ([SER](#))

Member of the International Association for Vegetation Science ([IAVS](#))

Member of European Dry Grassland Group ([EDGG](#))

Publications

Google Scholar Citations [Profile](#)

WOS [Profile](#)

Academia [Profile](#)

Books

- 2013** **Poschlod P, Abedi M, Bartelheimer M, Drobnik J, Rosbakh S, Saatkamp A** Seed ecology and assembly rules in plant communities. *Vegetation Ecology* (eds van der Maarel, E. & Franklin, J.), pp: 164-202. John Wiley & Sons, Ltd., Chichester.
- 2015** **Arzani H, Abedi M,** Rangeland assessment: Survey and monitoring. University of Tehran Press.
- 2015** **Arzani H, Abedi M,** Rangeland assessment: Vegetation measurement. University of Tehran Press.

Peer-reviewed ISI Journals

- Q1 2026** Rahmanian, S., Eisenhauer, N., Huang, Y., Hejda, M et al. (2026) Abiotic and biotic controls of non-native perennial plant success in drylands. *Nature Ecology & Evolution*. In press
- Q1 2026** Jalali, M., **Abedi, M.**, Tabarsa, M., et al. (2025). Superior Phytochemical Composition and Antioxidant Potential of Wild Red-Fleshed Apples: A Comparative Analysis Across Humid and Dry Ecosystems. *LWT*, 239, 118950. 1-15
- Q1 2026** MacDougall, A. S., Vanzant, B., Sulik, J., et al. (2026). The global extent of the grassland biome and implications for the terrestrial carbon sink. *Nature Ecology & Evolution*. In press
- Q1 2025** Ohlert, T., Smith, M. D., Collins, S. L., et al. (2025). Drought intensity and duration interact to magnify losses in primary productivity. *Science*, In press
- Q1 2025** Smit, I. C., le Roux, P. C., Soliveres, et al. (2025). Plant Trait Matching Occurs in Facilitative Interactions Across Global Drylands. *Global Ecology and Biogeography*, 34(11), e70158.
- Q2 2025** Yousefi, E., **Abedi, M.**, Aghajanzadeh, T. A., et al. (2025). Caper bush (*Capparis spinosa* L.) minerals and trace elements composition as affected by harsh habitats in gypsum and non-gypsum drylands. *Food Science & Nutrition*, 13, e70755.1-10
- Q1 2025** Yousefi, E., **Abedi, M.**, Aghajanzadeh, T. A., et al. (2025). Caper bush (*Capparis spinosa* L.) bioactive compounds and antioxidant capacity as affected by adaptation to harsh soils. *Scientific Reports*, 15, 11893.
- Q1 2024** Ramzi, S., Noroozi, J., Hamzeh'ee, B., Asri, Y., Gholizadeh, H., Talebi, A., et al. (2024). IranVeg—the Vegetation Database of Iran: current status and the way forward. *Vegetation Classification and Survey* 5: 237–256.
- Q1 2024** Bashirzadeh, M., **Abedi, M.**, & Farzam, M. (2024). Plant-plant interactions influence post-fire recovery depending on fire history and nurse growth form. *Fire Ecology*, 20(1), 9.
- Q1 2024** Biancari, L., Aguiar, M. R., Eldridge, D. J., Oñatibia, G. R., Le Bagousse-Pinguet, Y., Saiz, H., Gross, N., Austin, A. T., Ochoa, V., & Gozalo, B. et al (2024). Drivers of woody dominance across global drylands. *Science Advances*, 10(41), eadn6007.
- Q1 2024** Díaz-Martínez, P., Maestre, F. T., Moreno-Jiménez, E., Delgado-Baquerizo, M., Eldridge, D. J., Saiz, H., Gross, N., Le Bagousse-Pinguet, Y., Gozalo, B., & Ochoa, V. et al. (2024). Vulnerability of mineral-associated soil organic carbon to climate across global drylands. *Nature Climate Change*, 14(9), 976–982.

- Q2 2024** Bahalkeh, K., **Abedi, M.**, Dianati Tilaki, G. A., & Michalet, R. (2024). Species-group responses improve our understanding of the effects of community dominants on subordinate species along a grazing gradient. *Applied Vegetation Science*, 27(2), e12789.
- Q1 2024** Eldridge, D. J., Ding, J., Dorrough, J., Delgado-Baquerizo, M., Sala, O., Gross, N., Le Bagousse-Pinguet, Y., Mallen-Cooper, M., Saiz, H., & Asensio, S. et al (2024). Hotspots of biogeochemical activity linked to aridity and plant traits across global drylands. *Nature Plants*, 10, 760–770.
- Q1 2024** Gross, N., Maestre, F. T., Liancourt, P., Berdugo, M., Martin, R., Gozalo, B., Ochoa, V., Delgado-Baquerizo, M., Maire, V., & Saiz, H. et al. (2024). Unforeseen plant phenotypic diversity in a dry and grazed world. *Nature*, 632(8026), 808–814.
- Q1 2024** Jalali, M., **Abedi, M.**, Tabarsa, M., & Moreno, D. A. (2024). Morphological and biochemical characteristics of wild red-fleshed apples (*Malus sieversii* f. *niedzwetzkyana*) in the North and Northeast of Iran. *BMC Plant Biology*, 24(1), 899.
- Q1 2024** Jalali, M., **Abedi, M.**, Memariani, F., & Ghorbani, A. (2024). Ethnobotanical study of wild edible plants in the mountainous regions of Semnan Province, Iran. *Journal of Ethnobiology and Ethnomedicine*, 20(1), 93.
- Q1 2024** Smith, M. D., Wilkins, K. D., Holdrege, M. C., Wilfahrt, P., Collins, S. L., Knapp, A. K., Sala, O. E., Dukes, J. S., Phillips, R. P., Yahdjian, L., et al. (2024). Extreme drought impacts have been underestimated in grasslands and shrublands globally. *Proceedings of the National Academy of Sciences*, 121(4), e2309881120.
- Q2 2023** Silveira, F. A. O., Fuzessy, L., Phartyal, S. S., Dayrell, R. L. C., Vandellook, F., Vázquez-Ramírez, J., Tavşanoğlu, C., **Abedi, M.**, Naidoo, S., & Acosta-Rojas, D. C. (2023). Overcoming major barriers in seed ecology research in developing countries. *Seed Science Research*, 33(3), 172–181.
- Q1 2023** Bashirzadeh, M., **Abedi, M.**, Shefferson, R. P., & Farzam, M. (2022). Post-fire recovery of plant biodiversity changes depending on time intervals since last fire in semiarid shrublands. *Fire*, 6(1), 103.
- Q1 2022** Lembrechts, J. J., van den Hoogen, J., Aalto, J., Ashcroft, M. B., De Frenne, P., Kemppinen, J., Kopecký, M., Luoto, M., Maclean, I. M. D., & Crowther, T. W. et al. (2022). Global maps of soil temperature. *Global Change Biology*, 28(9), 3110–3144.
- Q1 2022** Maestre, F. T., Le Bagousse-Pinguet, Y., Delgado-Baquerizo, M., Eldridge, D. J., Saiz, H., Berdugo, M., Gozalo, B., Ochoa, V., Guirado, E., García-Gómez, M., et al. (2023). Grazing and ecosystem service delivery in global drylands. *Science*, 378(6622), 915–920.
- Q1 2022** Omid, M., Heydari, M., **Abedi, M.**, Kohzadean, M., Valkó, O., & Prévosto, B. (2022). Evaluating the restoration potential of soil seed banks in degraded

semi-arid oak forests: Influence of canopy cover types and fire-related cues on seed germination. *Forest Ecology and Management*, 524, 120534.

- Q1 2022** Kooch, Y., Amani, M., & **Abedi, M.** (2024). The effect of shrublands degradation intensity on soil organic matter-associated properties in a semi-arid ecosystem. *Science of the Total Environment*, 853, 158664.
- Q1 2022** Mašková, T., Phartyal, S. S., **Abedi, M.**, Bartelheimer, M., & Poschlod, P. (2022). Soil moisture level and substrate type determine long-term seed lifespan in a soil seed bank. *Plant and Soil*, 2, 475–485.
- Q1 2022** Kooch, Y., Amani, M., & **Abedi, M.** (2022). Vegetation degradation threatens soil health in a mountainous semi-arid region. *Science of The Total Environment*, 830, 154827.
- 2022** Matinzadeh, Z., López-Angulo, J., Escudero, A., Palacio, S., **Abedi, M.**, & Akhani, H. (2024). Functional structure of plant communities along salinity gradients in Iranian salt marshes. *Plant-Environment Interactions*, 3(1), 16–27.
- Q2 2022** Ahmadian, N., **Abedi, M.**, Escudero, A., Sohrabi, M., & Luzuriaga, A. (2024). *Artemisia sieberi* dominated landscapes of Northeastern Iran host great diversity in lichen and annual plant species. *Flora*, 288, 1–9.
- Q2 2022** **Abedi, M.**, Omidipour, R., Bahalkeh, K., Hosseini, S. V., & Gross, N. (2022). Fire disturbance effects on plant taxonomic and functional β -diversity mediated by topographic exposure. *Ecology and Evolution*, 12(1), 1–13.
- Q1 2021** Bahalkeh, K., **Abedi, M.**, Dianati Tilaki, G. A., & Michalet, R. (2021). *Artemisia sieberi* shrubs have contrasting specific effects on understory species in Iranian steppes. *Journal of Vegetation Science*, 32(4), e13067.
- Q2 2021** Bahalkeh, K., **Abedi, M.**, Dianati Tilaki, G. A., & Michalet, R. (2021). Fire slightly decreases the competitive effects of a thorny cushion shrub in a semi-arid mountain steppe in the short term. *Applied Vegetation Science*, 24(2), e12575.
- Q2 2021** Zaki, E., **Abedi, M.**, & Naqinezhad, A. (2021). How fire history affects germination cues of three perennial grasses from the mountain steppes of Golestan National Park. *Flora*, 28, 151835.
- Q3 2021** Ahmadian, N., **Abedi, M.**, Sohrabi, M., & Rosbakh, S. (2021). Contrasting seed germination response to moss and lichen crusts in *Stipa caucasica*, a key species of the Irano-Turanian steppe. *Folia Geobotanica*, 56, 205–213.
- Q1 2020** Kattge, J., Bönisch, G., Díaz, S., Lavorel, S., Prentice, I. C., Leadley, P., Tautenhahn, S., Werner, G. D. A., Aakala, T., **Abedi, M.**, et al. (2020). TRY plant trait database – Enhanced coverage and open access. *Global Change Biology*, 26(1), 119–188.

- Q1 2019** Matinzadeh, Z., Akhiani, H., **Abedi, M.**, & Palacio, S. (2019). The elemental composition of halophytes correlates with key morphological adaptations and taxonomic groups. *Plant Physiology and Biochemistry*, *141*, 259–278.
- Q1 2019** Tabarsa, M., You, S., **Abedi, M.**, Ahmadian, N., Li, C., & Talapphet, N. (2019). The activation of RAW264.7 murine macrophage and natural killer cells by glucomannogalactan polysaccharides from *Tornabea scutellifera*. *Carbohydrate Polymers*, *210*, 368–377.
- Q1 2019** Kiani-Harchegani, M., Sadeghi, S. H. R., Singh, V. P., Asadi, H., & **Abedi, M.** (2019). Effect of rainfall intensity and slope on sediment particle size distribution during erosion using partial eta squared. *Catena*, *176*, 65–72.
- Q1 2018** Naseri, B., Tabari, M., Phartyal, S., & **Abedi, M.** (2021). Deep physiological dormancy in seeds of Balkan maple (*Acer hyrcanum*): A rare tree in the Hyrcanin Mountain forests of Iran. *Seed Science and Technology*, *46*, 1–10.
- Q1 2018** Adroit, B., Rajaei, H., Terral, J. F., Malekhosseini, M., **Abedi, M.**, Wappler, T., & Girard, V. (2018). Changes in pattern of plant-insect interactions on the Persian ironwood (*Parrotia persica*, Hamamelidaceae) over the last 3 million years. *Review of Palaeobotany and Palynology*, *258*, 22–35.
- Q1 2018** Henry, H. A., **Abedi, M.**, Alados, C. L., Beard, K. H., Fraser, L. H., Jentsch, A., Kreyling, J., Kulmatiski, A., Lamb, E. G., Sun, W., & Vankoughnett, M. R. et al.(2018). Increased soil frost versus summer drought as drivers of plant biomass responses to reduced precipitation: Results from a globally coordinated field experiment. *Ecosystems*, 1–3.
- Q3 2017** Heydari, M., Omidipour, R., **Abedi, M.**, & Baskin, C. (2022). Effects of fire disturbance on alpha and beta diversity and on beta diversity components of soil seed banks and aboveground vegetation. *Plant Ecology and Evolution*, *150*(3), 1–10.
- Q2 2018** **Abedi, M.**, Zaki, E., Erfanzadeh, R., & Naqinezhad, A. R. (2018). Germination patterns of the scrublands in response to smoke: The role of functional groups and the effect of smoke treatment method. *South African Journal of Botany*, *115*, 231–236.
- Q1 2014** **Abedi, M.**, Bartelheimer, M., & Poschlod, P. (2014). Effects of substrate type, moisture and its interactions on soil seed survival of three *Rumex* species. *Plant and Soil*, *374*, 485–495.
- Q1 2013** **Abedi, M.**, Bartelheimer, M., & Poschlod, P. (2013). Aluminium toxic effects on seedling root survival affect plant composition along soil reaction gradients: A case study in dry sandy grasslands. *Journal of Vegetation Science*, *24*, 1074–1085.

- 2025** Jalali, M., Abedi, M., Ghorbani, A., & Memariani, F. (2025). Investigating the diversity and traditional knowledge of forest and pasture by-products. *Journal of Plant Ecosystem Conservation*, 13(26), 88-103.
- 2025** Bahalkeh, K., **Abedi, M.**, Palacio, S., Luzuriaga, A. L., & Escudero, A. (2025). Study of Gypsum Ecosystems Species Adaptation in Northeastern Iran (Case study: Khorasan Razavi Province). *Journal of Plant Ecosystem Conservation*, 13(26), 1-12.
- 2024** Jalali, M., **Abedi, M.**, Ghorbani, A., & Memariani, F. (2024). Identification and investigation of ethnobotanical plants of rangeland wild edible plants in Shahrud (Stakeholders of Rangelands of Bastam district in the northeast of Semnan province). *Iranian Journal of Range and Desert Research*, 31(2), 107–128.
- 2024** Bahalkeh, K., **Abedi, M.**, Palacio, S., Luzuriaga, A., & Escudero, A. (2024). Changes in the biotic interactions of *Artemisia diffusa* Krasch. ex Poljakov along the altitude gradient of gypsum ecosystems (case study: Semnan Province). *Iranian Journal of Range and Desert Research*, 31(3), 248–265.
- 2023** Amani, M., Kooch, Y., & **Abedi, M.** (2023). Effect of degradation intensity of wooded rangelands on root characteristics and soil ecochemical activities of Mirkola Region of Nowshahr. *Journal of Rangeland*, 17(1), 82-96.
- 2022** Gholipour Soloshi, M., Dianati Tilaki, G. A., & **Abedi, M.** (2022). Comparison of vegetation characteristics under three management treatments (heavy grazing, exclosure, and exclosure with restoration practices) in Kiasar Chardange. *Iranian Journal of Applied Ecology*, 11, 61–76.
- 2021** Abassnasab, Z., **Abedi, M.**, & Sadati, S. E. (2021). Effect of biochar on some morphological and physiological traits in *Medicago sativa* and *Bromus tomentellus*. *Plant Process and Function*, 10(41), 145–156.
- 2020** Khoshyari, F., Dianati Tilaki, G. A., & **Abedi, M.** (2020). The effect of some land administrations on soil fertility characteristics (Case study: Rangelands of Kohneh Lashak, Kojur, Mazandaran). *Journal of Rangeland*, 14(1), 25–36.
- 2019** Abassnasab, Z., **Abedi, M.**, & Sadati, S. E. (2019). Effects of dust on some morphological and physiological parameters in *Bromus tomentellus* and *Medicago sativa*. *Iranian Journal of Range and Desert Research*, 26(1), 214–225.
- 2019** Abdoli, H., & **Abedi, M.** (2019). Effect of temperature fluctuation and cold stratification on germination of four dominant grass species (Case study: Golestan National Park). *Journal of Seed Research*, 29, 56–66.
- 2019** Ahmadian, N., **Abedi, M.**, & Sohrabi, M. (2019). Comparison of Moss, Cyanobacteria, and Artemisia shrub in soil moisture conservation and soil temperature modifications. *Iranian Journal of Range and Desert Research*, 26(2), 451–460.
- 2019** Naseri, B., Tabari, M., **Abedi, M.**, & Phartyal, S. (2019). Effect of seed moisture content and storage temperature on viability of *Acer hyrcanum* Fisch & Meyer seed. *Forest and Wood Products*, 2(1), 1–8.

- 2019** Bahalkeh, K., **Abedi, M.**, Dianati Tilaki, G. A., & Ghorbanalizadeh, A. (2019). Effect of shrub death on competitions of grasslands species in Golestan National Park. *Journal of Plant Researches*, *32*, 366–378.
- 2018** Ahmadian, N., **Abedi, M.**, & Sohrabi, M. (2018). Effects of lichens on germination of *Bromus tectorum* L, *Melica ciliata* L, *Stipa caucasica* Schmalh, and *Taeniatherum caput-medusae* (L.) Nevski in steppe rangelands of Golestan National Park. *Rangelands*, *12*, 223–231.
- 2018** Ahmadian, N., **Abedi, M.**, & Sohrabi, M. (2018). The effect of *Tortella tortuosa* (Hedw.) Limpr moss on germination of five dominant grass species in rangelands of Golestan National Park. *Journal of Seed Research*, *8*(2), 21–30.
- 2018** Ahmadian, N., **Abedi, M.**, & Sohrabi, M. (2018). The protective effect of lichen in maintaining moisture and modulating the temperature fluctuations of soil susceptible to wind erosion. *Journal of Environmental Erosion Research*, *31*, 71–86.
- 2018** Bahalkeh, K., **Abedi, M.**, & Dianati Tilaki, G. A. (2018). Competitive effects of *Onobrychis cornuta* changes between exposures and fire (Case Study Golestan Natural Park). *Rangeland*, *11*, 342–352.
- 2018** Bahalkeh, K., **Abedi, M.**, & Dianati Tilaki, G. A. (2018). Effect of fire on biotic interaction of *Onobrychis cornuta* in mountain grasslands of Golestan National Park. *Iranian Journal of Range and Desert Research*, *25*(1), 140–151.
- 2017** Zaki, E., **Abedi, M.**, Naqinezhad, A. R., & Erfanzadeh, R. (2017). Response of different plant functional groups to aerosol and smoke and smoke water. *Journal of Plant Researches*, *30*(4), 803–814.
- 2017** Bashmaghi, M., Erfanzadeh, R., & **Abedi, M.** (2017). Effect of fire intensity on soil seed bank density of plant functional groups (case study: Golestan national park). *Range and Watershed Management*, *70*(1), 43–55.
- 2017** Tayefi, H., Erfanzadeh, R., & **Abedi, M.** (2017). Changes in chemical soil characteristics in confronting with fire and its severity. *Journal of Water and Soil*, *31*(1), 302–311.
- 2017** Zaki, E., & Abedi, M. (2017). Germination study of three perennial grasses *Stipa caucasica*, *Festuca valesiaca*, and *Poa densa* to smoke and heat treatments. *Journal of Rangeland*, *10*(4), 474–482.
- 2017** Bahalkeh, K., **Abedi, M.**, & Dianati Tilaki, G. A. (2017). The effect of seasons and exposures on microhabitat modifications of *Onobrychis cornuta* cushions. *Environmental Erosion Research*, *6*(4), 68–80.
- 2017** Bahalkeh, K., **Abedi, M.**, & Dianati Tilaki, G. A. (2017). Microclimate changes of cushion species *Onobrychis cornuta* affected by fire in Golestan National Park Grasslands. *Ecohydrology*, *3*(4), 623–630.
- 2016** Naseri, B., Tabari, M., **Abedi, M.**, & Phartyal, S. (2016). Effect of warm stratification, GA3, and H2O2 on seed germination of Caucasian maple (*Acer monspessulanum* subsp. *Ibericum* M.B.). *Iranian Journal of Forest*, *8*(1), 23–34.



- 2016** Mohebi, S., Dianati Tilaki, G. A., & **Abedi, M.** (2010). Assessment of functionality of vegetation patches in different management treatments (Case study Kojor Noshahr). *Range and Watershed Management*, 69(1), 187–199.
- 2010** Ahmadi, Z., Heshmati, G. A., & **Abedi, M.** (2010). Investigation of the improvement operations' effect on ecological indexes of rangeland health (Jahan Nama Garden, Golestan province). *Iranian Journal of Range and Desert Research*, 16, 55–65.
- 2009** Toranjzar, H., Ahmadi, A., **Abedi, M.**, & Ahmadi, Z. (2009). Assessment of rangeland conditions (health) in Meyghan desert, Arak. *Rangeland*, 2, 259–271.
- 2007** Mahdavi, M., Arzani, H., Farahpour, M., Malekpour, B., Jouri, H., & **Abedi, M.** (2007). Efficiency investigation of rangeland inventory with rangeland health method. *Journal of Agricultural Science and Natural Resources*, 14(1), 158–165.
- 2007** **Abedi, M.**, Arzani, H., Shahriary, E., Tongway, D., & Aminzadeh, M. (2007). Assessment of patch structure and function in arid and semi-arid rangelands. *Journal of Environmental Studies*, 40, 117–126.
- 2007** Arzani, H., **Abedi, M.**, Shahriari, E., & Ghorbani, M. (2007). Investigation of soil surface indicators and rangeland functional attributes by grazing and land cultivation (case study: Orazan-Taleghan). *Journal of Iranian Range and Desert Research*, 14, 68–79.
- 2006** Arzani, H., & **Abedi, M.** (2006). Investigation of management effects on rangeland health attributes and indicators. *Journal of Iranian Range and Desert Research*, 13, 141–161.
- 2006** Jamshidi, A. M., Aminzadeh, M., Azarnivand, H., & **Abedi, M.** (2006). Evaluation for quality and quantity of essential oil for *Thymus kotschyanus* (Damavand-Tar). *Journal of Medicinal Plants*, 18, 17–22.

Conferences

- 2025** **Abedi M**, Seven Hazards, One Region: Toward a Unified Climate Response in ECO Countries Case Studies from the Caspian Sea Crisis and Dryland Degradation. 2nd International conference on climate change and disaster risk. Beijing.
- 2022** **Yousefi E, Abedi M, Aghajanzadeh T A.** Biochemical responses of *Capparis spinosa* L. in gypsum and non-gypsum soil. 3rd International workshop Gypworld. University of Almeria.
- 2020** **Abedi M**, Iran nature: diverse and in danger. Rey Juan Carlos University, Spain
- 2019** **Abedi M**, Functional ecology of arid lands: microhabitats explain vegetation and lichens compositions. II GYPWORLD conferences. (Keynote speaker). Reggio Calabria, Italy.

- 2015** **Abedi M**, Trait-based approach and its application in rangelands ecological interpretation. *6th National Range Management* (keynote speaker)
- 2013** **Abedi M, Bartelheimer M, Poschlod P (2013)**. Aluminium-tolerance of species as an independent trait to support Ellenberg indicator value (EIV) for soil reaction (R). *1st conference in linking vegetation and plant trait databases*. Leipzig. P:33
- 2011** **Abedi M, Bartelheimer M, Poschlod P (2011)** Germination Ecology of Dry Sandy Grassland Species along a pH-Gradient. *41thmGFÖ conferences*. Oldenburg. P:31
- 2010** **Abedi M, Bartelheimer M, Krall R, Poschlod P (2010)** Germination Ecology of Dry Sandy Grassland Species along a pH-Gradient Simulated by Different Aluminum Concentrations. *IV Seed ecology conferences*. Utah. P:1
- 2008** **Ahmadi Z, Heshmati G.A, Abedi M (2008)** Investigation the improvement operations affections on ecological indexes of rangeland health in rangelands of Golestan province, Iran. *XXI International Grassland Congress and the VIII International Rangeland Congress*. China.
- 2005** **Dianati H, Abedi M, Shahryari E, Arzani H (2005)** Comparison of the biometric method with clipping and weighting method for estimation *artemisia siebri* yield (case study Zarand save region). *XX International Grassland Congress*.Dublin. P:437
- 2005** **Abedi M, Arzani H (2005)** Grazing intensity effects on patches structure in Taleghan. *8th international conference on the development of dry lands*.China (P:24)
- 2005** **Abedi M, Arzani H (2005)** Improving rangeland health in relict dry farming in grassland type. *8th international conference on the development of dry lands*. China. P: 28.

Research project

Title	Responsibility	Country	Year	
GYPWORLD	Coordinator of Iran	EU	2018	
BIODESERT	Contribution	EU	2017	
Promoting research on gypsum ecology in Iran and Turkey .	Coordinator	Spain	2017	
Effect of climate change and fire on ecosystem function. Golestan National Park	Coordinator	France	2017	

- 2019** **Abedi M, Ahmadian, N, Sohrabi M, Khormali, F.** Effect of biological soil crust in rangeland conservation and restoration and soil conservation (Case Study: Golestan National Park). INSF. (Coordinator)
- 2005** **Arzani H, Abedi M. Tongway D** "Investigation of rangeland health attributes and indicators in shrub land and grassland". University of Tehran (Principal investigator)
- 2006** **Toranjzar H. Abedi M.**" Investigation of vegetation patches on rangeland function. University of Arak, Iran (Principal investigator)
- 2006** "National assessment program in different climatic regions". National Range and Forest Research Institute (co-investigator)
- 2006** "Determination of forage quality of rangeland plants and determination of animal unit". University of Tehran (co-investigator)