

Behrouz Zarei Darki

(1970)

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Tarbiat Modares University, Av. Emamreza, P.O.BOX: 64414-356 Noor,
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Academic qualifications:

Master's degrees: Biology,
2000-2002, V. N. Karazin Kharkiv National University
(Ukraine).

PhD: Biology,
2002-2005, M.G. Kholodny Institute of botany (Kiev),
NAS of Ukraine

Project title:

Thesis for degree of MS: Algae of the polytypic water bodies of the Central and North-West Iran.

Thesis for degree of PhD: Algae of the water bodies of Iran.

Current Employment and Teaching Experience:

Assistant Professor, Department of Marine Biology, Faculty of Natural Resources and Marine Sciences, Tarbiat Modares University, Tehran (from the year 2011).

Course title:- Biology of Phytoplankton,

- Advanced Marine Ecology,
- Biological characteristics of the Iranian Seas
- Biological characteristics of Regional Seas
- Biology of corals

Previous Employment Experience:

Lecture, Department of biology, Islamic Azad University, Falavarjan Branch, Esfahan, Iran (2007-2011).

Course title: -Tallophyta,

-Plant Biology,

-Algal Foundations

-General Ecology

-Marine Ecology

Member of Research Council and the Environmental Protection Office in Isfahan (from the year 2005)

Conference Papers Given:

1-The first data on algae diversity of continental water bodies of Iran. IX International Scientific Conference "Lomonosov" (Molodezh i nauka na rubezh, XXI veka) Moscow. April 12-15. 2000. P. 86.

2-The first data on algae of continental reservoirs of Iran. Mat. XI Congr. Ukr. Bot. Soc. Kharkov. Sept. 2001. P. 35-36.

۳-*Euglenophyta* as water quality indicators in the water bodies of Iran. International Scientific Conference "The rational use and conservation of water resources in changing environment, Yerevan. Armenia, July 10-15 (2003). P. 86-91.

4-Dinophyta of water bodies of Iran. The 3th International Conference (Actual problems of phycology of modern). Kharkov, Ukraine, April ۲۰-۲۳(۲۰۰۵). P. 62-63

- 5-Cryptophyta of water bodies of Iran. The 3th International Conference (Actual problems of phycology of modern). Kharkov, Ukraine. April 20-23(2005). P. 62-63.
- 6-Algae flora of rice fields of Iran. International Conference (Actual problems of botany, ecology and biotechnology). Kiev, Ukraine. September 27-30. 2006. P. 18-19.
- 7-Diatomic algae of lakes of Iran.** International Conference (Actual problems of phycology of modern). Kiev, Ukraine. October 17-21. 2007. P. 45.
- 8-The study of Chlorophyta in biological ponds of refineries of Isfahan. Second International Biology congress. Kiev.2009.
- 9-Distribution features of order of Chlorococcales (Chlorophyta) in the different water bodies of Iran . Yalta, Ukraine. 21-25 September 2010. P. 99.
- 10- Study of seasonal dynamics of Euglenophyta in the biological ponds of Shahin-shahr sewage treatment works (Iran). Yalta, Ukraine. 21-25 September 2010.P.100.
- 11-The first data on lichen diversity of Mooteh and Karkas protected areas (Esfahan Province, Iran) Botany and mycology: problems and perspectives for 2011-2020 years (Materials of All Ukrainian Scientific Conference, Kyiv, 6-8 April 2011)/ Eds. I.A.Dudka & S. Ya. Kodratyuk.-Kyiv: M.H. Kholodny Institute of Botany. p. 191-193.
- 12-On study of lichen diversity of protected area of Esfahan province (Iran). The 7th IAL Symposium 2012. Lichens: from genome to ecosystems in a changing world.9th – 13th January 2012, Chaophya Park Hotel, Bangkok, Thailand.65-66.

- 13-Molecular phylogeny and recent taxonomy of Asian *Rusavskia elegans* complex and closely related gasparrinioid lichens (Teloschistaceae, lichen-forming fungi). The 7th IAL Symposium 2012. Lichens: from genome to ecosystems in a changing world. 9th – 13th January 2012, Chaophya Park Hotel, Bangkok, Thailand. 74-75.
- 14- Estimation of ecological state by indicated species in the Zayandehrud River. *ADVANCES IN MODERN PHYCOLOGY* , 23-25 May 2012. P.84-85.
- 15- Study of Blue-Green Algae in the biological ponds of Esfahan sewage treatment works (Iran). *ADVANCES IN MODERN PHYCOLOGY* , 23-25 May 2012. P. 86-87.

Publications:

1. Dogadina T.V., **Zarei Darki B.**, Gorbulin O.S. 2002. Vodorosli bolota Enzeli (Iran). *Algologia*. Volume 12, № 4, P 445-450 (Russ.).
2. **Zarei Darki B.** 2002. Algae of biological ponds (Esfahan province, Iran). *Bull. of Kharkiv Natinal Agrarian University*. Volume 9, № 1. P. 96-101.
3. **Zarei Darki B.** 2003. Zolotistie vodorosli of polytypic water bodies of Iran. *Algologia*. Volume 13, № 4. P. 381-388.
4. Dogadina T.V., **Zarei Darki B.**, Gorbulin O.S. 2002. Algae of Anzali Swamp (Iran). *International Journal on Algae*. Volume 4, № 4. P. 81-87.
5. Dogadina T.V., **Zarei Darki B.**, Gorbulin O.S. 2003. Euglenophyta as water quality indicators in the water bodies of Iran. Yerevan. 86-91.
6. **Zarei Darki B.** 2004 Chrysophyta of water bodies of Iran. *International Journal on Algae*. Volume 6, № 1. P. 12-20.

٧. Gorbulin O.S., **Zarei Darki B.** 2005. Yellow-green algae (Xanthophyta incl. Eustigmatophyta) in algal flora of Iran. *Algologia*. Volume 15, № 1. P. 48-53 (Rus.).

٨. **Zarei Darki B.** 2006. Bacillariophyta of water bodies of Iran. *Algologia*. Volume 16, № 2. P. 246-260.

٩. **Zarei Darki B.**, Dogadina T. V. 2007. A specific diversity and taxonomic structure of phytoplankton in water bodies of Iran. *The journal of V.N. Karazin's Kharkov National University Series: Biology*. Vol. 6. N, 788. pp. 29-33.

١٠. Dogadina T.V., Gorbulin O.S., **Zarei darki B.**, Raida O.V. 2008. Materials to Cryptophyta flora of Ukraine // *Bull. Kharkiv Nat. Agrar. Univ. Ser. Biology*. Vol.3 (15). – P. 114–119.

١١. **Zarei Darki B.** 2009. The sea species in algal flora of the Anzali wetland (Iran). *Russian Journal of Marine Biology*. Volume 35, № 3: pp. 200-205.

12. **Zarei Darki B.** 2009. Algal flora of rivers in Iran. *International Journal on Algae*. Volume 11, № 2: pp. 310-320

13. **Zarei-Darki B.** 2009. Taxonomic structure of the algal flora of Iran. *Bangladesh J. Plant Taxon*. 16 (2): pp. 185-194.

14. **Zarei-Darki B.** 2011. Comparative Characteristics of Phytoplankton of Different Water Bodies of Iran. *Hydrobiological Journal* 47(3): 48-56

15. **Zarei-Darki B.** 2011. Cyanophyta from Different Water Bodies of Iran. *International Journal on Algae*, 13(1): 52-62

16. **Zarei Darki B.** 2011. Species composition and ecology of diatoms in the Gavkhuni wetland (Iran). *Visnik Kharkov National agriculture of University Series Biology*.1 (22): 10-117

17. **Zarei-Darki B.** 2012. Distribution features of order of Chlorococcales (Chlorophyta) in the different water bodies of Iran. *International Journal on Algae*, 17(2): 323-330.

18. Kondratyuk S.Y., **Zarei-Darki B.** & S.J. Khajeddin. 2012. Two new *Zwackhiomyces* (Xanthopyreniaceae, Ascomycota) species of lichenicolous fungi from Esfahan province, Iran. *The Ukrainian Botanical Journal*, 68(6):833-842.

19- Kondratyuk S.Y, Lökös L., **Zarei-Darki B.**, Hur J.-S. 2012. New and Rediscovered *Caloplaca* (TELOSCHISTACEAE, ASCOMYCOTA) species from Asia. *Acta Botanica Hungarica* 54(3–4), 313–339.

20- Kondratyuk S.Y., **Zarei-Darki B.**, Khajeddin S.J. 2012. new species and combinations in the genus *protoparmeliopsis*. *Ukrayinskyi Botanichnyi Zhurnal*. 96(6): 869-879.

21-Kondratyuk S. Y., Lökös L., **Zarei-Darki B.**, Haji Moniri M., Tchabanenko S. I., Galanina I., Yakovchenko L., Hooshmand F., Ezhkin A. K., Hur J.-S. 2013. Five new *Caloplaca* species (TELOSCHISTACEAE, ASCOMYCOTA) from Asia. *ACTA BOTANICA HUNGARICA*. *Acta Botanica Hungarica* 55(1–2), pp. 41–60, 2013

22. **Zarei Darki B.**, Zarei Darki L., Akkafi H.R., Mirzai M. 2013. Taxonomic Composition of Algae and Its Indicator Role in the Ecosystem of the Zayandehrud River, Iran. *Inland Water Biology*, 6(4). 285–293.

23. Korol O.N., **Zarei Darki B.**, Gevorgiz R.G. 2013. Assessment of extreme productivity of microalgae cultivated in the open air around neighborhoods of Isfahan City. *Iranian Journal of Fisheries Sciences* 12(3). 629-638.

24. **Zarei Darki B.** 2014a. Algal flora of Reservoirs of Iran. International Journal on Algae. 16(2). 97-106.

25. **Zarei Darki B.** 2014b. Recognition of continental Dinoflagellates of Iran. Iran J. Bot. 20 (1). 130-142.

26. Kheirfam H., Sadeghi H.R., Homae M., **Zarei darki B.** 2014. Role of microorganisms in soil and water loss control. Extension and Development of Watershed Management. 2 (5). 19-26.

27. **Zarei Darki B.** 2015. Spatial Distribution of *Asterionella formosa* Hassall, *Cyclotella ocellata* Pantocsek and *Fragilaria crotonensis* Kitton in the Zayandehrud Reservoir Dam, Iran. Ecopersia. 3 (3), 1119-1132.

28. Kondratyuk S. Y., J.A. Kim, Yu N.-H., Jeong M.-H., Jang S.H., Kondratiuk A.S., **Zarei-Darki B.**, Hur J.-S. 2015. Zeroviella, a new genus of Xanthorioid lichens (TELOSCHISTACEAE, ASCOMYCOTA) proved by three gene phylogeny. Ukrayinskyi Botanichnyi Zhurnal. 72(6): 574—585.

29. Fayazi S., **Zarei Darki B.**, Seyfabadi J. 2016. Study on the Effect of Culture Media on Cell Density and Specific Growth Rate of *Scenedesmus obliquus*. Journal of Oceanography. 6(24). 31-38.

30. Sadeghi S.H., Kheirfam H. Homae M., **Zarei Darki B.** 2016. Improvability of Water Infiltration in an Erosion-Prone Soils under Laboratorial Conditions through Artificial Increasing of Soil Microorganisms Population. 47 (4): 797-805.

31- Asadi Y., Doudi M., **Zarei Darki B.** 2016. An In-Vitro Investigation of the Antibacterial Effects of the Acetone and Ethanol Extracts and the Supernatant of the Algae *Chlorella vulgaris* CCATM- 210-1 on Some of the Gram-Negative Bacterial Foodborne Pathogens. International Journal of Advanced Biotechnology and Research. 7: 278-287

- 32-, Kheirfam H., **Zarei Darki B.**, Sadeghi S.H., Homae M. 2016. Identification and proliferation of soil microorganisms in Marzanabad regio with capability in applying for soil and water conservation. Journal of Agroecology. 6(1); 213-226
33. Kheirfam H., Sadeghi S.H., **Zarei Darki B.**, Homae M. 2017. Controlling rainfall-induced soil loss from small experimental plots through inoculation of bacteria and cyanobacteria. CATENA. 152. 40-46.
34. Kheirfam H., Sadeghi S.H., Homae M., **Zarei Darki B.** 2017. Quality improvement of an erosion-prone soil through microbial enrichment. SOIL & TILLAGE RESEARCH. 165: 230-238

Book:

Algae of the water bodies of Iran, 2011 (In Persian).

Research Project:

As a supervisor:

- Reducing water pollution wastewater treatment using algae on the Sepahanshahr waste water treatment (2007)
- Preparation of the permanent slides of microscopic algae (2009)
- Study of flora and fauna as water pollution indicator in the Zayandehrud River (2010-2011)
- Light and salinity effects on growth and carotenoid content of *Dunaliella salina* from Lake Urmia (2011)
- Assessment of ecological status of the Zayandehrud Reservoir using hydro chemical and hydro biological indicators (2011-2013)

-Food capability of *Scenedesmus obliquus* isolated from south of Caspian Sea (2013)

As an advisor:

-Preparation of the Plant Atlas in Karkas Mountain and Mooteh area National Nature Reserve (2012)

Current Research Project:

-Ecological assessment of the Caspian Sea on the coast of Noor City by the Phytoplankton structure

-Identification of *Stichodactyla*'s algal symbionts from the eastern coast of the Hormoz Island (Persian Gulf)

Journal's Referee:

Iranian Journal of Botany

Rostaniha

Iranian Journal of Applied Ecology

Journal of Aquatic Ecology

Journal of Ecopersia

Biological Journal of Microorganism

Persian Gulf

Oceanography

Additional skills:

The dive instructor 2** of CEDIP