

Curriculum Vitae

Dr. Kamalodin Kor



Assistant Professor in **Analytical Chemistry**

E-mail: kamalodin.kor@inio.ac.ir



Academic Background

- Ph.D. in Analytical Chemistry, Damghan, Iran. (Spring 2011 to autumn 2015)
- M.S. in Analytical Chemistry, Damghan, Iran. (Autumn 2007 to spring 2010)
- B.Sc. in Applied Chemistry, Arak, Iran. (Winter 2000 to winter 2004)

Positions & Work Experiences & Memberships

- Faculty Member, Faculty of Marine Science, Iranian National Institute for Oceanography and Atmospheric Science, Iran
- Membership in International Association of Advanced Materials (IAAM), Sweden

Teaching Experiences

- Chemistry lecturer at Damghan University (2011-2014)
- Chemistry lecturer at Baharan non-profit non-government of higher education (2015-2016)
- Chemistry lecturer at Gorgan university of agricultural sciences and natural resources (2015-2016)
- Chemistry lecturer at Chabahar University of Maritime and Marine Sciences (2020-2023)

Research Activities

Research Interest

- Marine pollution
- Marine Chemistry
- Microplastics in marine environment
- Phosphorus cycling in marine sediments

2024:

- Ghazilou, A., Ershadifar, H., **Kor, K.**, 2024. Phallusia nigra-mediated vanadium removal from brine: Assessment and optimization. *Mar. Pollut. Bull.* 206, 116749.
- Ershadifar, H., Saleh, A., Koochaknejad, E., Kor, K., Agah, H., Hamzeh, M.A., Sharifinia, M., 2024. Suspended particulate matter in the Gulf of Oman: Spatial variations in concentration, bulk composition, and particulate metals controlled by physical and biogeochemical processes. *Sci. Total Environ.* 950, 175396.
- Ershadifar, H., Saleh, A., **Kor, K.**, Ghazilou, A., Hamzeh, M.A., 2024. Spatial and seasonal variations in suspended particulate matter concentration and composition in the Persian Gulf: From dust deposition and sediment resuspension to biological production in the regulation of the particulate trace elements. *Mar. Pollut. Bull.* 203, 116504.
- Ghazilou, A., Koochaknejad, E., **Kor, K.**, & Ershadifar, H. (2024). Aggressive shark displays: a quantitative analysis of its impact on shark tourism. *Journal of Ecotourism*, 1–14. <https://doi.org/10.1080/14724049.2024.2373293>

2023:

- Ershadifar, H., **Kor, K.**, Ghazilou, A., koochaknejad, E., Baskaleh, G., 2023. Evaluation of hydrochemical parameters in coastal waters of Chabahar: seasonal variations and diurnal fluctuations. *Journal of Environmental Science Studies* 8, 6456-6468.
- Ershadifar, H., Saleh, A., Koochaknejad, E., **Kor, K.**, Ghazilou, A., 2023. Spatial and seasonal distribution of particulate phosphorous and nitrogen in the Persian Gulf: Nitrogen enrichment ties to diazotroph bloom in stratified warm waters. *Mar. Chem.* 253, 104280.
- Ershadifar, H., Saleh, A., **Kor, K.**, Ghazilou, A., Baskaleh, G., Hamzei, S., 2023. Nutrients and chlorophyll-a in the Gulf of Oman: High seasonal variability in nitrate distribution. *Deep Sea Research Part II: Topical Studies in Oceanography* 208, 105250.
- **Kor, K.**, Jannat, B., Ershadifar, H., Ghazilou, A., 2023. Microplastic occurrence in finfish and shellfish from the mangroves of the northern Gulf of Oman. *Mar. Pollut. Bull.* 189, 114788.
- Rigi, N., Zare, R., **Kor, K.**, 2023. Occurrence and spatial distribution of microplastics in the intertidal sediments along the Oman Sea. *Mar. Pollut. Bull.* 194, 115360.

2022:

- Oladi, M., Ghazilou, A., Rouzbehani, S., Zarei Polgardani, N., **Kor, K.**, Ershadifar, H., 2022. Photographic application of the Coral Health Chart in turbid environments: The efficiency of image enhancement and restoration methods. *J. Exp. Mar. Bio. Ecol.* 547, 151676.
- Koochaknejad, E., Ghazilou, A., **Kor, K.**, Ershadifar, H., 2022. A survey on aquatic animal keeping practices for home aquariums during the COVID-19 pandemic. *Vlaams Diergeneeskundig Tijdschrift* 91.
- Ghazilou, A., Ershadifar, H., **Kor, K.**, 2022. A glance at the chemistry of calicoblastic epithelioma in *Acropora valida*. *Thalassas: An International Journal of Marine Sciences*.

2021:

- **Kor, K.**, Ershadifar, H., Ghazilou, A., Koochaknejad, E., 2021. Seasonal variations, potential bioavailability, and ecological risk of phosphorus species in the coastal sediments of the Makran. *Mar. Pollut. Bull.* 173, 113125.
- Ershadifar, H., **Kor, K.**, Koochaknejad, E., Ghazilou, Baskaleh, G. (2021). A Study on the effects of Monsoon phenomenon on physicochemical parameters, nutrients and Chl.a in Chabahar Bay. *Environmental Sciences*, 19(1), doi: 10.29252/envs.29321
- Ershadifar, H., Ghazilou, A., **Kor, K.**, 2021. A study on chemical composition of caudal spines in stingray *Hemitrygon bennettii* aimed to hydroxyapatite extraction. *Aquatics Physiology and Biotechnology* 8, 37-54.

2020

- **Kor, K.**, Ghazilou, A., Ershadifar, H., 2020. Microplastic pollution in the littoral sediments of the northern part of the Oman Sea. *Mar. Pollut. Bull.* 155, 111166.
- **Kor, K.**, Ghazilou, A., Ershadifar, H., koochaknejad, E., 2020. Use of regression tree to investigate the effective parameters on algal bloom in the southeastern coasts of Iran. *Journal of Environmental Science Studies* 5, 3086-3095.
- Koochaknejad, E.G., A.; Sharifinia, M.; Ershadifar, H.; **Kor, K.**, 2020. Short-term temporal variation of mangrove fish assemblage in Chabahar Bay. *Iranian Journal of Ichthyology* 7, 338-351.
- koochaknejad, E., Ghazilou, A., Sharifinia, M., Loghmani, M., **Kor, K.**, 2020. A Performance Appraisal of a Well-Established Environmental Symposium. *Journal of Environmental Science Studies* 5, 2952-2961.
- Ershadifar, H., Koochaknejad, E., Ghazilou, A., **Kor, K.**, Negarestan, H., Baskaleh, G., 2020. Response of phytoplankton assemblages to variations in environmental parameters in a subtropical bay (Chabahar Bay, Iran): Harmful algal blooms and coastal hypoxia. *Regional Studies in Marine Science* 39, 101421.
- Nassiri, M., Ziyaadini, M., **Kor, K.**, 2020. Seasonal alteration in distribution and concentration of Phthalate esters in Chabahar Bay. *Journal of Marine Science and Technology* 19, 109-120.
- **Kor, K.**, Mehdiinia, A., 2020. Neustonic microplastic pollution in the Persian Gulf. *Mar. Pollut. Bull.* 150, 110665.
- Ghazilou, A., **Kor, K.**, Ershadifar, H., Kouchaknejad, E. and Oladi, M., 2020. Environmental correlates of plankton assemblages in a hypersaline lagoon (Lipar Lagoon, northern Gulf of Oman). *Environmental Sciences*. 17(4): 107-120.

2019:

- Aliabad, M.K., Nassiri, M., **Kor, K.**, Microplastics in the surface seawaters of Chabahar Bay, Gulf of Oman (Makran Coasts). *Mar. Pollut. Bull.* 143 (2019) 125-133.
- Ghazilou, A., Koochaknejad, E., Ershadifar, H., Negarestan, H., **Kor, K.**, Baskaleh, G., 2019. Infestation biology of *Phallusia nigra* (Tunicata, Phlebobranchia) on hard corals in a subtropical bay. *Marine Ecology Progress Series* 626, 135-143.
- **Kor, K.**, Ghazilou, A., Ershadifar, H., Koochaknejad, E., Baskaleh, G., Investigation of Physicochemical Parameters, Nutrients and Chlorophyll a in Makran Coastal Waters. *Journal of Oceanography* (2019) DOI: 10.29252/JOC.2019.10.11991.

2017:

- Azzouzi, Sawsen, Mak, Wing Cheung, **Kor, Kamalodin**, Turner, Anthony P. F., Ali, Mounir Ben, & Beni, Valerio. An integrated dual functional recognition/amplification bio-label for the one-step impedimetric detection of Micro-RNA-21. *Biosensors and Bioelectronics*, 92 (2017) 154-161.
- A. Ghazilou, E. Koochaknejad, H. Ershadifar, **K. Kor**, H. Negarestan, Autumnal algal bloom succession in Northern coasts of Gulf of Oman, *Harmful algae news* No. 56/ 2017.
- Baskaleh, G., Ghazilou, A., Ershadifar, **H., Kor**, K., Salari Fanodi, M.R., 2017. Sub-decadal trends in sea surface physicochemical parameters of Daryabozorg station (Northern Gulf of Oman, Iran). *Journal of the Persian Gulf (Marine Science)* 8, 1-10.

2016:

- **Kamalodin Kor**, Anthony P.F. Turner, Kobra Zarei, Morteza Atabati, Valerio Beni, Wing Cheung Mak, Structurally responsive oligonucleotide-based single-probe lateral-flow test for detection of miRNA-21 mimics, *Analytical and Bioanalytical Chemistry*, 408 (2016) 1475-1485.
- **K. Kor**, K. Zarei, Development and characterization of an electrochemical sensor for furosemide detection based on electropolymerized molecularly imprinted polymer, *Talanta*, 146 (2016) 181-187.

2015:

- K. Zarei, L. Fatemi, **K. Kor**, Stripping Voltammetric Determination of Nicardipine Using β -Cyclodextrin Incorporated Carbon Nanotube-Modified Glassy Carbon Electrode, *Journal of Analytical Chemistry*, 70 (2015) 615-620.

2014:

- K. Zarei, M. Atabati, **K. Kor**, Bee Algorithm and Adaptive Neuro-Fuzzy Inference System as Tools for QSAR Study Toxicity of Substituted Benzenes to *Tetrahymena pyriformis*, *Bul. Environ. Contam. Toxicol.*, 92 (2014) 642-649.
- **K. Kor**, K. Zarei, Electrochemical determination of chloramphenicol on glassy carbon electrode modified with multi-walled carbon nanotube–cetyltrimethylammonium bromide–poly(diphenylamine), *J. Electroanal. Chem.*, 733 (2014) 39-46.
- K. Zarei, E. Teymori, **K. Kor**, Very sensitive differential pulse adsorptive stripping voltammetric determination of 4-nitrophenol at poly (diphenylamine)/multi-walled carbon nanotube- β -cyclodextrin-modified glassy carbon electrode, *Int. J. Environ. Anal. Chem.*, 94 (2014) 1407-1421.

2013:

- **K. Kor**, K. Zarei, β -Cyclodextrin Incorporated Carbon Nanotube Paste Electrode as Electrochemical Sensor for Nifedipine, *Electroanalysis*, 25 (2013) 1497-1504.

2012:

- **K. Kor**, K. Zarei, M. Atabati, Shuffling multivariate adaptive regression splines for QSPR correlation of the melting point of pyridinium bromides, potential ionic liquids, *Rev. Roum. Chim.*, 57 (2012) 615-622.
- Soleymanpour, B. Shafaatian, **K. Kor**, A. Hasaninejad, Coated wire lead(II)-selective electrode based on a Schiff base ionophore for low concentration measurements, *Monatshefte für Chemie - Chemical Monthly*, 143 (2012) 181-188.

Projects

- Structurally responsive oligonucleotide-based single-probe lateral-flow test for detection of miRNA-21, Linköping University, Linköping, Sweden (2014-2015).
- Investigating the Relationship Between Changes in Nutrient Concentration and Physicochemical Parameters of Water with Algal Blooms in the Makran Region (Pasabandar and Bris Coasts). National Institute of Oceanography.
- Examining the Role of Fish in Preventing the Replacement of Seaweed by Algae in the Coral Reef Environments of Chabahar Bay. National Institute of Oceanography .
- Analyzing the Correlation between Nutrient Levels and the Abundance of Phytoplankton in the Makran Coast (Ramin Port to Konarak Port). National Institute of Oceanography .
- The Role of Mangrove Trees and Seaweed in the Species Richness of Fish in the Coral Reefs of Chabahar Bay. National Institute of Oceanography .
- Investigating the Impact of the Monsoon on Changes in the Concentration of Different Forms of Phosphorus and Their Bioavailability as Nutrients in Surface Sediments of the Northern Coast of the Sea of Oman (Pasabandar-Konarak). National Institute of Oceanography .
- Comparing the Growth of Acropora Coral in Natural and Laboratory Environments. National Institute of Oceanography .
- Investigating the Benthic Diatom Flora in Chabahar Bay. National Institute of Oceanography
- Examining the Distribution and Abundance of Microplastics in Sediments and Surface Waters of Chabahar Bay. Chabahar Maritime and Marine Sciences University.
- Macrofauna Associated with Debris in the Coral Reefs of Chabahar Bay .
- Distribution of Nutrient Concentration and Chlorophyll-a in the Northern Sea of Oman: Results from Research Cruises PGE 1803, PGE 1804 and PGE 1901 .
- Different Forms of Phosphorus and their Bioavailability in Surface Sediments of the Persian Gulf and the Sea of Oman (Using Samples from PGE-1901 Cruise).
- Study of Vanadium Pre-concentration Using *Phallusia nigra* for Extraction from Desalination Plant Brines (Iran Mineral Development and Renovation Organization (IMIDRO) - Execution: (2020-2021)
- Studies for Rapid Assessment and Basic Understanding of Options for the New Makran Petrochemical Port (Execution: 2017-2021)
- Evaluation of Ecological Effects of Desalination Plant Wastewater on Benthic and Planktonic Communities in Laboratory and Field Conditions
- Assessment of the Halal Status of Certain Aquatic Species with Concentrations of Toxic Substances
- Potential of Shark Tourism in the Waters around Chabahar
- Analysis and Evaluation of Water Quality and Pollution Parameters in Protected Areas and Coastal Swimming Zones of Sistan and Baluchestan Province
- Seasonal Evaluation of Total Nitrogen and Phosphorus Speciation in Surface Sediments of the Persian Gulf and the Sea of Oman
- Study of Biogeochemistry of Suspended Particles in the Water Column in the Persian Gulf and the Strait of Hormuz
- Seasonal Evaluation of Hydrochemistry of Water in the Sea of Oman and Chemistry of Suspended Particles in the

Persian Gulf and the Sea of Oman

- Monitoring of Coral Reefs and Sea grasses

Workshops

- Gaussian workshop, Damghan University, Damghan, Iran, 2015
- Modeling and simulation of bio-nano systems, Shahid Beheshti University, Iran, 2012
- Scientific writing, National talent foundation, Semnan, Iran, 2012.
- Computer programming, National technical training institute, Iran, 1997.