



**Mohammad Ali**

**Hamzeh  
PhD,  
Associate Professor**

Sedimentology &  
Sedimentary Petrology

23<sup>th</sup> Nov. 1977

Male and Married  
two sons

**CONTACT**

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Bandar Abbas, Iran

**EXPERTISE**

- Paleoclimate
- Paleoecology
- Paleoenvironment
- Paleotsunami
- Research cruise
- Fieldwork
- GIS
- Environmental geochemistry

**COMPUTER SKILLS**

office ●●●●●○  
 Graphic ●●●●●○  
 ArcGIS ●●●●●○

**LANGUAGES**

Persian ●●●●●●  
 English ●●●●●○



**EDUCATION**

- Dec. 2016 **PhD. Sedimentology and Sedimentary Petrology**, Department of Geology,  
 Sep. 2011 Ferdowsi University of Mashhad, Iran. PhD thesis: *Paleoenvironmental and paleoclimatic reconstruction of SE Iran, by using Holocene sedimentology of Hamoon lake.*
- Sep. 2006 **Master of Science, Environmental Geology**, Department of Geology, Shahid  
 Sep. 2003 Bahonar University of Kerman, Iran. *Thesis: Environmental geochemistry indicators in Kerman urban areas.*
- Feb. 2001 **Bachelor of Science, Geology**, Department of Geology, Shahid Bahonar  
 Dec. 1996 University of Kerman, Iran.



**POSITIONS**

- Now **Member of Scientific board**, Department of Marine Non-living Resources,  
 Jul. 2009 Iranian National Institute for Oceanography and Atmospheric Science (INIOAS)
- Jul. 2009 **CEO**, Consulting Engineers company "Pishgam Samane Shargh (GIS & RS)"  
 Jun. 2007 Kerman. Iran.



**COURSES TAUGHT**

- 2024 • Approximately 500 hours of teaching Geochemistry, Physical Geology, Remote  
 2006 Sensing and ArcGIS in Kerman and Chabahar Universities
- Advisor of 15 postgraduate students



**OCEANOGRAPHIC CRUISES**

- 2024 Participation as a principal investigator in 10 cruises of the Persian Gulf  
 2016 Explorer (PGE) by INIOAS (130 days).
- 2013 Participation in 2 cruises of the Persian Gulf and Gulf of Oman Oceanographic  
 2012 Study (PG-GOOS) by Iranian National Institute for Oceanography and Atmospheric Science (INIOAS) (26 days).



**INSTRUMENTATIONS**

Advanced skill in deploying the following fieldwork and oceanographic instrumentations: surface sediment samplers, core samplers (gravity, box, piston, peat, and vibro corer), multi-water sampler (Rosette), GPR, GPS, CTD and ...



MAHamzeh



Mohammad\_Hamzeh

**Peer-reviewed International Journals (English) (28)**

1. Ershadifar, H., Saleh, A., Koochaknejad, E., Kor, 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*. *Science of the Total Environment*. 175396.
2. **Hamzeh, M.A.**, Naderi-Beni, M., AK Lahijani, H., Afarin, M. 2024. Mid-Holocene climate variability deduced from environmental shifts in an estuarine on Makran coast, north of Arabian Sea. *Palaeogeography, Palaeoclimatology, Palaeoecology*. Xx.
3. Manbuhi, A., Rahnama, R., Taheri, M., **Hamzeh, M.A.**, Hamzehpour, A., 2024. Antibiotics in surface waters of the south Caspian Sea: Occurrence, spatial distribution and ecological risks. *Environmental Research*, 119709.
4. 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. *Marine Pollution Bulletin* 203: 116504.
5. **Hamzeh, M.A.**, Naderi-Beni, M., AK Lahijani, H., Mehdinia, A., Aghadadashi, V., Koochaknejad, E. 2024. Reconstruction of the sedimentary environment of Nayband Bay during the last 1600 years; implications for relative sea level and climate change in Northern Persian Gulf. *Marine Micropaleontology* 186, 102321.
6. Taheri, M., Yazdani Foshtomi, M., **Hamzeh, M.A.**, Manbohi, A. and Rahnama Haratbar, R. 2024. Effects of discarded garbage bags on intertidal free living nematode community. *Aquatic Ecology*. 10109-2
7. Marriner, N., Amjadi, S., Lahijani, H., Mahmoudi-Gharaie, M.H., Kaniewski, D., Lak R., Pourkerman, M., Shah-Hosseini, M., **Hamzeh, M.A.** 2023. The impacts of late Holocene oceanographic currents and summer monsoon variability on precipitation in the Arabian Sea. *Quaternary International* XX.
8. Sepahvand, V., Momtazi, F., Maghsoudlou, A. Salahi, M., **Hamzeh, M.A.** 2023. Evaluation of the environmental drivers shaping the distribution of the ghost shrimps. *Marine Environmental Research* 191: 106165.
9. **Hamzeh, M.A.** Azizi, N. 2023. Estimating blue carbon storage in the mangrove forest of Gaz-Harra wetland, Strait of Hormoz. *Regional Studies in Marine Science* 66: 103142.
10. Pourkerman M., Marriner N., Amjadi, S., Lak, R., **Hamzeh, M.A.**, Mohammadpor, Gh. Lahijani, H., Tavakoli, M., Morhange, C., Shah-Hosseini, M., 2023. *The impacts of Persian Gulf water and ocean-atmosphere interactions on tropical cyclone intensification in the Arabian Sea*. *Marine Pollution Bulletin* 114553.
11. Pourali, M., Sepehr, A., Hosseini, Z. and **Hamzeh, M.A.** 2023. *Geochemistry, and geomorphology of a dry-lake playa, NE Iran: implications for paleoenvironment*. *Carbonates Evaporites* 38, 9.
12. Pourkerman, M., Marriner, N., **Hamzeh, M.**, Mohammadpor, G., Lahijani, H., Tavakoli, M., Morhange, C., Amjadi, S. and Lak, R., 2022. *Global warming and tropical cyclones in the Arabian Sea and the Gulf of Oman*. *Research Square* doi.org/10.21203/rs.3.rs-1553580/v1
13. Lahijani, H.A., Azizpour, J., Arpe, K., Abtahi, B., Rahnama, R., Ghafarian, P., **Hamzeh, M.A.**, Hamzehpour, A., Penchah, M.M. and Mahmoudof, S.M., 2022. Tracking of sea level impact on Caspian Ramsar sites and potential restoration of the Gorgan Bay on the southeast Caspian coast. *Science of The Total Environment*, p.158833.
14. Pourkerman, M., Marriner, N., **Hamzeh, M.A.**, Lahijani, H., Morhange, C., Amjadi, S., Vacchi, M., Maghsoudi, M., Shah-Hosseini, M., and Afarin, M. 2022. *Socioeconomic impacts of environmental risks in the western Makran zone (Chabahar, Iran)*, *Natural Hazards* 110.
15. **Hamzeh, M.A.**, A.K. Lahijani, H., 2021. *Soil and vegetative carbon sequestration in Khuran Estuary mangroves, Strait of Hormoz, during the last 18 centuries*. *Estuaries and Coasts* 45. 1583-1595.
16. **Hamzeh, M.A.** 2021. *Environmental implications of the distribution and physical characteristics of surface sediments in the northern Persian Gulf*. *Geo-marine Letters* 41. No.45.
17. **Hamzeh, M.A.** Koochaknejad, E., Hamzei, S. 2021. *Historical eutrophication and pollution records off Bandar Abbas coast (North of Strait of Hormuz) using benthic foraminiferal ecology and geochemistry of trace elements from a sediment core*. *Regional Studies in Marine Science* 47, 101929.
18. **Hamzeh, M.A.** Khosravi, M., Carton, X., Yarahmadi, D., Safarkhani, E. 2021. *Paleoceanography of the Strait of Hormoz and its link to paleoclimate changes since the mid-Holocene*. *Continental Shelf Research* 226, 104507.

19. Safarkhani, E., Yar-Ahmadi, D., Sharafi, S., **Hamzeh, M.A.**, 2021. Reconstruction of the Persian Gulf SST variability over the last five millennia. *Quaternary International* 642: 93-102.
20. **Hamzeh, M.A.**, Farahi Ghasre aboonasr, S. 2020. *Palaeoenvironmental changes in the Khuran Estuary of SE coastal Iran during the last two millennia, based on the analysis of a sediment core*. *Palaeogeography, Palaeoclimatology, Palaeoecology* 542. 109563
21. Shah-Hosseini, M., Ghanavati, E., Morhange, C., Naderi Beni, A., Alizadeh Lahijani, H., **Hamzeh, M.A.** 2018. *The evolution of Chabahar beach ridge system in SE Iran in response to Holocene relative sea level changes*, *Geomorphology* 318, 139–147.
22. **Hamzeh, M.A.**, Mahmudy Gharai, M.H., A.K. Lahijani, H., Moussavi Harami, R., Djamali, M. 2016. *Paleolimnology of Lake Hamoun (E Iran): implication for past climate changes and possible impacts on human settlements*, *PALAIOS* 31(12), 616-629.
23. **Hamzeh, M.A.**, Mahmudy Gharai, M.H., A.K. Lahijani, H., Djamali, M., Moussavi Harami, R. 2016. *Holocene hydrological changes in SE Iran, a key region between Indian Summer Monsoon and Mediterranean winter precipitation zones, as revealed from a lacustrine sequence from Lake Hamoun*. *Quaternary International* 408, 25-39.
24. Okal, E.A., Fritz, H.M., **Hamzeh, M.A.**, Ghasemzadeh, J. 2015. *Field Survey of the 1945 Makran and 2004 Indian Ocean Tsunamis in Baluchistan, Iran*. *Pure and Applied Geophysics*, 1-14.
25. Kakar, D., G. Naeem, A. Usman, H. Hasan, H. Lohdi, S. Srinivasalu, V. Andrade, C. Rajendran, A. Beni, **M.A. Hamzeh**, G. Hoffmann, N. Al Balushi, N. Gale, A. Kodijat, H. Fritz, and B. Atwater. 2014. *Elders recall an earlier tsunami on Indian Ocean shores*, *Eos Trans. AGU* 95(51), 485–486.
26. **Hamzeh, M.A.**, Shah-Hosseini, M., Naderi Beni, A. 2013. *Effect of fishing vessels on trace metal contamination in sediments of three harbours along Iranian Oman Sea coast*, *Environmental Monitoring and Assessment* 185 (2), 1791-1807.
27. Shah-Hosseini, M., Morhange, C., Naderi Beni, A., Marriner, N., Lahijani, H., **Hamzeh, M.A.**, Sabatier, F. 2011. *Coastal boulders as evidence for high-energy waves on the Iranian coast of Makran*. *Marine Geology* 290, 17-28.
28. **Hamzeh, M. A.**, Aftabi, A. & Mirzaei, M., 2011. *Assessing Geochemical influence of traffic and other vehicle-related activities on heavy metal contamination in urban soils of Kerman, using a GIS-based approach*, *Environmental Geochemistry and Health*, 33, 577-594.

### **Peer-reviewed National Journals (23)**

1. **Hamzeh, M.A.**, Taheri, M. 2024. Investigating the history of the establishment and evolution of Sirik mangrove and its relationship to climate change and relative sea level. *Quaternary Journal of Iran (Persian)*.
2. **Hamzeh, M.A.** 2024. Assessment of the total area and distribution of mangrove forests on the southern coasts of Iran, *Environment and Development Journal (Persian)*.
3. Afarin, M., Rezaei, P., **Hamzeh, M.A.**, Jooybari, A. 2023. Investigating the effects of monsoon on the textural characteristics of sediments in the Iranian part of the northern Oman Sea continental plateau (Chabahar to Pasabandar). *Applied Sedimentology* 23: (Persian).
4. **Hamzeh, M.A.**, Koochaknejad, E., Hamzei, S. 2023. Blue carbon sequestered in the mangrove forests of Gowatr Bay; Iranian coasts of the Oman Sea. *Journal of Oceanography* 11 (44): 16-27 (Persian).
5. **Hamzeh, M.A.**, 2022. Assessing the blue carbon sequestration in the mangrove forests of Bushehr province (Nayband and Melgonze). *Journal of Natural Environment* 75 (Special Issue 1): 7-21 (Persian).
6. Hamzei, S., **Hamzeh, M.A.**, Khosravi M. 2022. *Investigating the effect of Nakhel Nakhda Jetty construction on stratification of the water column and current on the east coast of Bandar Abbas*. *Amphibious Science and Technology* 3(3): 14-28 (Persian).
7. **Hamzeh, M.A.**, Hamzei, S. 2021. *Variation in the diversity and abundance of benthic foraminifera on the Bandar Abbas coasts; an indicator for influence of wastewater effluent to the coastal ecosystem during the last century*. *Aquatic Ecology* 12(1): 80-94 (Persian).
8. Afarin, M., **Hamzeh, M.A.** 2021. *The Effects of Monsoon waves on Sedimentological Characteristics in the Chabahar Bay sediments*. *Applied Sedimentology* 18(9): 34-50 (Persian with English extended abstract).
9. Afarin, M., **Hamzeh, M.A.** 2016. *Sedimentological and Geomorphological Classification of Chabahar Coastal Area (Chabahar-Gawater)*. *Journal of Persian Gulf* 6(21), 51-64 (English).
10. Afarin, M., Boomeri, M., Mahboubi, A., Gorgij, M.N., **Hamzeh, M.A.** 2016. *Sedimentology and geochemistry of siliciclastic sediments (Tertiary-Quaternary) in the Eastern coasts of Chabahar, SE Sistan and Baluchistan*. *Journal of Earth Sciences* 96, 85-96 (Persian).
11. **Hamzeh, M.A.**, Mahmudy Gharai, M.H., A.K. Lahijani, H., Moussavi Harami, R., Djamali, M. 2015. *Aeolian sediments deposited in Lake Hamoun; the proxy of frequency and severity of dust storms in Sistan since the late glacial*. *Stratigraphy and Sedimentology Researches* 33 (1), 1-24.

12. Moore, F., Nematollahi, M.J., Keshavarzi, B., **Hamzeh, M.A.** 2014. *Surficial and vertical distribution of heavy metals in marine and intertidal sediments in the Iranian sector of Gowatr bay*. Journal of Marine Science and Technology 13, 1-16 (Persian).
13. Amini Yekta, F., **Hamzeh, M.A.**, et al., 2014. *Distribution of Subtidal Benthic Invertebrates in Chabahar Bay and Surrounding Waters with Emphasis on Effect of Environmental Factors*. Journal of Oceanography 18, 29-37 (Persian).
14. Keshavarzi, B., Ebrahimi, P., Moore, F., **Hamzeh, M.A.** 2013. *Geochemistry and distribution of heavy metals in coastal and marine sediments of Chabahar Bay*. Journal of Advanced Applied Geology 7, 74-81 (Persian).
15. Pakzad Toochoae, S., Safahieh, A., Ronagh, M.T., Archangi, B., **Hamzeh, M.A.** 2013. *Effect of Monsoon on concentration of heavy metals (Cd, Cu, Ni and Zn) in the coastal sediments from Govatr to Pozm bays*. Journal of Marine Science and Technology 12, 15-25 (Persian).
16. **Hamzeh, M. A.**, Mahmoudi Gharaei, M.H., and Baskaleh, G. 2013. *Geochemical investigation on the sources and influences of heavy metal pollution in fishing harbours of Ramin and Beris*. Journal of Oceanography 17, 21-31 (Persian).
17. Pakzad Toochoae, S., Safahieh, A., Ronagh, M.T., Archangi, B., **Hamzeh, M.A.** 2012. *Patterns of heavy metal accumulation in soft tissue of Oyster *Saccostrea cucullata* during monsoon in Iranian coast of Makran sea*. Journal of Animal Environment 4, 15-24 (Persian).
18. **Hamzeh, M. A.**, Bumeri, M., Rezaei, H., and Baskaleh, G. 2012. *Environmental Geochemistry of heavy metals in coastal sediments of Gawatr bay, southeast extreme of Iran*. Journal of Oceanography 8, 11-20 (Persian).
19. Hassanzadeh, R., Abbasnejad, A. & **Hamzeh, M. A.**, 2011. *Assessment of groundwater pollution in Kerman urban areas*, Environmental Studies 36 (56), 101-110 (Persian).
20. **Hamzeh, M. A.** and Zarisfi, A.R. 2011. *Concentration and mobilization of some toxic elements in sewage of Zarand coal-washing plant and remediation strategies*. Applied Geology 3, 182-194 (Persian).
21. **Hamzeh, M. A.** Mirzaei, M., and Mozafari, H. 2009. *Concentrations and distributions of Pb, Zn, Cu and Cd in the Urban Environment of Kerman, Iran*. Environmental Science and Technology 11(3), 161-177 (Persian).
22. **Hamzeh, M. A.**, Hassanzadeh, R., 2009. *Study of soil pollution in the Kerman urban areas with trace toxic elements, using GIS-based approach*. Environmental Studies 49, 41-52 (Persian).
23. **Hamzeh, M. A.** and Zarisfi, A. R. 2008. *Environmental geochemistry of some major, minor and trace elements in Kerman urban areas*. Applied Geology 2, 108-120 (Persian).

#### **International Conferences (4)**

1. Hamzei, S., Koochaknejad, E., **Hamzeh, M.A.** Investigation of the effect of temperature and sea currents on the red tide distribution of species *Margalefidinium polykrikoides* in the Strait of Hormuz, the Persian Gulf and the Sea of Oman using MODIS sensor data. (Persian). The second International congress on Oceanography for West Asia, 16-17 Sept. 2020. Tehran, I.R. Iran (Persian).
2. Afarin, M., **Hamzeh, M.A.**, Negarestan, H. *Effect of Monsoon seasonal variations on Sediment Characteristics in Chabahar*. First International congress on Oceanography for West Asia, 30-31 Oct. 2017. Tehran, I.R. Iran (Persian).
3. **Hamzeh, M.A.**, Jokar, R., Baskaleh, G. *Classification of Iranian Oman Sea coasts, based on sedimentology and geomorphology (Chabahar bay to Gawatr bay)*. 32<sup>nd</sup> National and 1<sup>st</sup> international geosciences congress, 19-20 Feb. 2014. Chabahar Maritime University, I.R. Iran (Persian).
4. Safahieh, A., Pakzad Toochoae, S., TaghiRonagh, N., Archangi, B., **Hamzeh, M.A.** 2011. *Comparison between patterns of heavy metal accumulation in sediment and soft tissue of oyster *Saccostrea cucullata* in pre monsoon's season in Northern coasts of the Oman sea (along the Pozm to Guatr)*, International Congress on Applied Biology, 1-2 Sep. 2011. Ferdowsi University of Mashhad, I.R. Iran (Persian).

#### **National Conferences (12)**

1. **Hamzeh, M. A.**, Afarin, M., Hamzei, S. Investigating the unique environmental conditions of the Persian Gulf and its role on the sedimentology of the bed. 8<sup>th</sup> Symposium of Sedimentological Society of Iran. 31 Jan. – 1 Feb. 2024.
2. Afarin, M., **Hamzeh, M. A.**, Rezaei, P. Sedimentology of the Strait of Hormuz and its relationship with the bottom current. 8<sup>th</sup> Symposium of Sedimentological Society of Iran. 31 Jan. – 1 Feb. 2024.
3. **Hamzeh, M. A.**, Farahi, S., Taheri, M., *Environmental changes on coastal areas of Bandar Abbas during recent decades and role of Human activities*. National Conference on Climate Change and Aquatic Ecosystems At: Persian Gulf and Oman Sea Ecological Research Institute, Bandar Abbas. 15th and 16th May, 2018 (Persian Abstract).
4. Farahi, S., **Hamzeh, M. A.**, Jokar, R., Taheri, M., Hamzei, S. *Paleoclimate study and interaction of climate, human and environment in the northern coasts of Strait of Hormuz*. National Conference on Climate Change and Aquatic Ecosystems At: Persian Gulf and Oman Sea Ecological Research Institute, Bandar Abbas. 15th and 16th May, 2018 (Persian Abstract).

5. Hamzei, S., Khosravi, M., Taheri, M., **Hamzeh, M. A.** *Monitoring, tracking and spreading form of the red tide in the Persian Gulf and the Sea of Oman with the help of data from oceanographic satellite sensors.* National Conference on Climate Change and Aquatic Ecosystems At: Persian Gulf and Oman Sea Ecological Research Institute, Bandar Abbas. 15th and 16th May, 2018(Persian Abstract).
6. Taheri, M., **Hamzeh, M.A.**, Hamzei, S., Khosravi, M., Farahi, S., Yazdani\_Foshtomi, M., Jokar, R. *Evaluation of abundance and composition of wastes in the beach of the Velayat Park, Bandar Abbas Province, north of the Persian Gulf.* National Conference on Climate Change and Aquatic Ecosystems At: Persian Gulf and Oman Sea Ecological Research Institute, Bandar Abbas. 15th and 16th May, 2018(Persian Abstract).
7. Taheri, M., Yazdani\_Foshtomi, M., **Hamzeh, M.A.**, Bastami, k. *List of macrobenthose species present in Iranian waters of Mazandaran Sea.* National Conference on Climate Change and Aquatic Ecosystems At: Persian Gulf and Oman Sea Ecological Research Institute, Bandar Abbas. 15th and 16th May, 2018(Persian Abstract).
8. **Hamzeh, M. A.**, Ghasemzadeh, J., Okal, E.A., Baskaleh, G., *Effect of Pakistan 1945 sunami on Iranian Makran Coasts (in Persian).* First National Conference on Makran Coast Developement, Chabahar Maritime Univrsity, Chabahar, IR Iran, 16-19 Feb. 2013.
9. **Hamzeh, M. A.**, Shahrbaaf, A., Baskaleh, G., *Investigation on seawater intrusion into groundwater in Chabahar region (in Persian).* National Conference on seawater utilization, International Center for Science and High Technology and Environmental Sciences, 3-4 Jan. 2012.
10. **Hamzeh, M. A.**, Baskaleh, G., *Assessment of heavy metals pollution in Ramin and Beris harbors along the Oman Sea coast, Southeast Iran (in Persian),* 8<sup>th</sup> conference of Iranian Society of Environmentalists, Islamic Azad University of Tehran, 26-27 Feb. 2011.
11. **Hamzeh, M.A.**, Rezaei, H., and Bumeri, M., *Assessing heavy metal pollution in coastal sediments of Gavater bay, SE Iran (in Persian).* 1<sup>st</sup> conference of Biological Sciences of Makoran Sea, Chabahar Maritime University, 5-7 Dec. 2010.
12. **Hamzeh, M.A.**, Aftabi, A., 2006. *Environmental geochemistry aspects of karstification in Kerman city and its effect on infrastructures (in Persian),* 10<sup>th</sup> conference of Geological society of Iran, Tarbiat Modares university of Tehran, Iran, pp2060-2072.



#### BOOKS (4)

1. Saleh, A., **Hamzeh, M.A.**, et al. 2024. *Oceanographic Atlas of the Persian Gulf and Gulf of Oman. Results of the research cruises PGE2102 (Sep. 2021) and PGE2201 ((Jan-Feb. 2022).* Iranian National Institute for Oceanography and Atmospheric Science (INIOAS). 73p.
2. **Hamzeh, M.A.**, Naderi-Beni, A.M. *Paleoenvironment of the SE Iran; the environmental changes experienced by human societies during the Holocene.* In: Archaeology of the southeastern Iranian Plateau between the Neolithic and Achaemenid periods. Brepols Publishers (in Press).
3. Lahijani, H.A.K., **Hamzeh, M.A.**, Yakushev, E.V., Rostamabadi, A. (2021). Salt Load Impact on Lake Urmia Basin Volume. In: Ghaffari, P., Yakushev, E.V. (eds) Lake Urmia. The Handbook of Environmental Chemistry, vol 123. Springer, Cham. [https://doi.org/10.1007/698\\_2021\\_808](https://doi.org/10.1007/698_2021_808)
4. Remembering the 1945 Makran Tsunami. Interviews with Survivors Beside the Arabian Sea. 2015. Published in 2015 by United Nations Educational, Scientific and Cultural Organization (UNESCO), for its Intergovernmental Oceanographic Commission (IOC), 7 Place de Fontenoy, 75 352 Paris 07 SP, France.



#### Research Projects (23)

1. **Hamzeh, M.A.**, Saleh, A. 2024. Measuring the geo-acoustic parameters of the seabed in the Strait of Hormuz. No: 64136.
2. Saleh, A., **Hamzeh, M.A.**, Azizpour, J. 2024. Investigating the change caused by physical (and chemical) changes on underwater sound propagation in the Strait of Hormuz. 64134.
3. Gerivan, H. **Hamzeh, M.A.**, et al. 2024. Gas hydrate resource identification studies in the Oman Sea-Phase I. Iranian Oil Industry Research Institute. No: 31643108.
4. **Hamzeh, M.A.**, et al. 2024. Assessing the health conditions of mangrove forests in the Persian Gulf and the Sea of Oman. Iranian National Environment Fund. 9310/1020571
5. **Hamzeh, M.A.**, et al. 2024. Evaluation of lithological and sedimentological characteristics of the Persian Gulf and the Sea of Oman. Iranian National Environment Fund. 9310/1020571
6. Hashtrudi, M., Sheijuni, N., Rahmanpour, Sh., **Hamzeh, M.A.**, 2024. Assessment of cyclic aromatic hydrocarbons (PAHs) pollution in the surface sediment of the Persian Gulf and Sea of Oman. Iranian National Environment Fund. 9310/1020571.

7. Koochaknejad, E., **Hamzeh, M.A.**, et al. 2024. Analysis and evaluation of water and sediment quality and pollution parameters in protected areas and coastal swimming pools of Hormozgan province. Iranian National Environment Fund. 9310/1020571.
8. Maghsudlu, A., **Hamzeh, M.A.**, et al. 2024. Evaluation of biological parameters of coastal and offshore areas (corals) of the Persian Gulf and Sea of Oman. Iranian National Environment Fund. 9310/1020571.
9. **Hamzeh, M.A.**, Naderi-Beni, A.M., Alizadeh Lahijani, H. 2024. *The history of appearance and evolution of Iranian mangroves since the Mid-Holocene and its link to the climate and sea-level change*. Iranian National Science Foundation (INSF). no: 99017678.
10. Mehdinia, A., Aghadadashi, V., Alizadeh Lahijani, H., **Hamzeh, M.A.** 2024. Investigation of source of Blue Carbon in Sediments of Mangroves of the Persian Gulf. Iranian National Science Foundation (INSF). Code: 99026110.
11. Alizadeh, H., **Hamzeh, M.A.**, Habibi, P., Hoseindust, Pourvahid, M. 2024. Integrated management of the coastal areas of the northern provinces of the country (Guilan, Mazandaran and Golestan provinces). Darya-Bandar Consulting Engineers. No: 103/80295.
12. Alizadeh Lahijani, H. Naderi Beni, A., **Hamzeh, M.A.** 2024. Habibi, P., Hoseindust, M. 2024. *Sedimentary Atlas of the northern half of the Persian Gulf*. Iranian National Science Foundation (INSF). no: 99001588.
13. Saleh, A., **Hamzeh, M. A.**, Koochaknejad, E., Arabzadeh, A., Jahedi, D., Hamzehpoor, A., Amini Yekta, F. 2024. *Determination of ecological characteristics of seawater in the Persian Gulf with emphasis on coral habitats*. Iranian National Science Foundation (INSF). no: 98021269.
14. Bagheri, H., **Hamzeh, M.A.**, Amini, A. 2024. *The Study of Late Quaternary Paleoclimate Changes in the Southeastern of the Caspian Sea Coasts and Environmental Interactions*. Iranian National Science Foundation (INSF). Code: 97024765.
15. **Hamzeh, M. A.**, Farahi Ghasre Aboonasr, S. 2023. *Assessing historical trends on dissolved oxygen variations in coastal waters of Bandar Abbas, using biogeochemical proxies*. Iranian National Institute for oceanography (INIOAS). No: 369-012-01-04-04.
16. Alizadeh Lahijani, H., Abtahi, B., Mehdinia, A., Azizpour, J., Jamshidi, S., Farjami, H., Manbuhi, A., **Hamzeh, M.A.**, Kabiri, K., Ghaffarian, P., Mahmudov, S., Bagheri, H. 2021. *Gorgan Bay rescue studies through integrated management and related basin*. Provincial Government of Golestan.
17. Agah, H., **Hamzeh, M. A.** et al. 2019. Environmental survey of the Oman Sea and field assessment of the eastern coast of Makran. Iranian National Institute for Oceanography and Atmospheric Science (INIOAS). No: 390-021-01.
18. **Hamzeh, M. A.**, Farahi Ghasre Aboonasr, S. 2019. *Paleoenvironmental study in Northern coasts of Hormoz Strait; interactions between climate, anthropogenic activities and the environment*. Iranian National Science Foundation (INSF). Code: 96005229.
19. Naderi-Beni, A., Alizadeh, H., Jokar, R., Bagheri, H. Pourkerman, M., Afarin, M., Molavi-Arabshahi, M., Ghaffarian, P., **Hamzeh M.A.**, Hosseindust, M. 2016. Collecting and inferring evidence related to marine and atmospheric natural disasters in Iran and through examining historical documents and reconstructing them. Iranian National Institute for Oceanography and Atmospheric Science (INIOAS). Code: 393-012-06.
20. **Hamzeh, M. A.**, Alizadeh Lahijani, H., Naderi Beni, M. 2013. *Paleoenvironmental and paleoclimatic reconstruction of SE Iran, by using Holocene sedimentology of Hamoon lake*. Iranian National Institute for oceanography (INIOAS).
21. Aghah, H., Chegini, V., Saleh, A., Mehdinia, A., Azimi, A., Vajed\_samiee, J., Akhiani, M., Nuranian, M., Ghaffari, H., **Hamzeh, M. A.**, Baskaleh, G., Einali, A. 2012. *Environmental survey of the Oman Sea and field assessment of the eastern coast of Makran (chemistry, biology and geology)*. Iranian National Institute for Oceanography and Atmospheric Science (INIOAS). Code: 392-021-01.
22. Rezaei, H. & **Hamzeh, M. A.**, 2011. *Evaluating the Source of Environmental Pollution in Gavater Bay by Geochemistry of sediments*. Iranian National Institute for Oceanography and Atmospheric Science (INIOAS).
23. **Hamzeh, M. A.**, Rezaei, H., Baskaleh, G. Habibi, P., 2010. *Geochemical Investigation on Sediments of Oman Sea coasts, using Geographical Information System*. Iranian National Institute for Oceanography and Atmospheric Science (INIOAS). Code: 390-021-01.