



CV

Lobat Taghavi

Full Professor of the Environmental Sciences Department
Science and Research Branch
Islamic Azad University (IAU), Tehran, Iran

Personal Details:

Surname: Taghavi

First name: Lobat

Nationality and citizenship: Iranian

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Degrees:

- **Doctor of Philosophy (Ph.D.),** Ph.D. in Environmental Pollution, Institut National Polytechnique de Toulouse (INPT), Toulouse, France, Oct 2006 – Sep 2010
Title of Thesis: Transfer dynamic of pesticides during storm runoff events in Gascon agricultural watersheds.
Supervisors: Dr. [Jean-Luc Probst](#) and Dr. [M. Georges Merlina](#)
- **Master of Science (M.Sc.),** Natural Resources Engineering and Environmental Sciences Department, Science and Research Branch, Islamic Azad University (IAU), Ahwaz, Iran, Oct 2003 – Jan 2006
Title of Thesis: Impact assessment of urban sewage in oil industry residential districts using macrobenthic communities as bioindicators
Supervisor: Dr. [Seyed Mohammad Bagher Nabavi](#)
- **Bachelor of Science (B.Sc.),** Natural Resources Engineering and Environmental Sciences Department, Islamic Azad University (IAU), Ahwaz, Iran, Oct 1999 – June 2003
Title of Thesis: Identification of benthic macroinvertebrate species
Supervisor: Dr. [Seyed Mohammad Bagher Nabavi](#)

Languages Skills:

Mother Tongue (Native Language): *Persian (Farsi)*

Other languages	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
French	C1	C1	C1	C1	B2
English	B2	C1	B2	B2	C1

Current Employment:

- Professor, Department of Environmental Science, Faculty of Natural Resources and Environment, Science and Research Branch, Islamic Azad University (IAU), Tehran, Iran, 2024 – present

Previous Work Experience:

- Associate Professor, Department of Environmental Science, Faculty of Natural Resources and Environment, Science and Research Branch, Islamic Azad University (IAU), Tehran, Iran, 2017 – 2024

- Assistant Professor, Department of Environmental Science, Faculty of Natural Resources and Environment, Science and Research Branch, Islamic Azad University (IAU), Tehran, Iran, 2011 – 2017
- Head of environment pollution group, 2014 – 2016
- Head of environmental science and engineering group, 2016 – 2018
- Head of environmental and forest sciences group, 2019 – 2021
- Head of the Department of Natural Resources and Environment, 2015 – present
- Vice-chairman of the board of Iran National Environment Fund (NEF), 2019 – 2022
- Advisor to the chairman of the commission of agriculture, water, natural resources, and environment in the Parliament of the Islamic Republic of Iran, 2020 – present
- Advisor to the president of the urban environment committee of the Islamic Council of Qom, 2017 – 2020
- Pro bono Senior Environmental Advisor to the Canadian Institute of International Legal Experts (CI FILE), 2021 – present
- Advisor and Scientific Research Member of DOE, Khorasan Province, 2024 – present
- Chairman of the board of Zist Negar Kohan Co. (ZNK), 2014 – 2017
- Researcher of “Aguafash” project, a joint venture of France, Spain, and Greece, 2009 – 2011
- Advisor of Mahab Ghodss Consulting Engineering Co., 2011
- Executive manager of Green Economy research project and IEG, 2011 – 2012
- Executive manager of more than 20 workshops, 2012 – 2013

Research Funding and Grants:

Role: Principal investigator (PI)

- **Project Title:** “Assessment and Study of Advanced Solid Waste Management Systems (SWMS).” *Client: Gol-E-Gohar Mining and Industrial Company*, 2025 – Present. (PI)
- **Project Title:** “Monitoring and Identification of Pollutant Sources in the Mighan International Wetland.” *Client: Iran Mineral Salts Company (IMSC)*, 2023. (PI)
- **Project Title:** “Application of Bio-flocculation in Freshwater Microalgae Separation for Enhancing Water Treatment Processes.” *Client: Zarbin Water, Soil, and Energy Co.*, 2022. (PI)
- **Project Title:** “Neighborhood Empowerment and Implementation of Small-Scale Urban Projects.” *Client: Tehran Municipality (District 9)*, 2020. (PI)
- **Project Title:** “Design, Construction, Installation, and Commissioning of a Sanitary Wastewater Treatment Package.” *Client: Parand Mapna Power Generation Company*, 2018 – 2020. (PI)
- **Project Title:** “AGUAFLASH: Study of Pesticide and Sediment Transport During Flash-Flood Events in Agricultural Catchments.” *Client: French National Research Agency (ANR) / CNRS (France)*, 2009 – 2012. Role: PhD researcher

Research output:

Peer-reviewed Journal Publications:

- 1 Zadehan S.P.K., Hosseini S.A., **Taghavi L.**, Yengejeh R.J. (2026). Optimization of Photocatalytic Ozonation Process Using g-C₃N₄/NH₂-MIL-125(Ti)/TiO₂ Nanocomposite for the Degradation of Microplastics in Aquatic Environments. *International Journal of Environmental Research*, 20(4), 182.
- 2 Abedi V., **Taghavi L.**, Farahani H., Panahi H.A., Larijani K. (2026). Adsorptive evaluation of a functionalized silica aerogel composite for phenol removal: comprehensive isotherm and thermodynamic analysis. *International Journal of Environmental Science and Technology*, 23(4), 273.
- 3 Abedi V., **Taghavi L.**, Farahani H., Panahi H.A., Larijani K. (2026). FeCl₃-Decorated Silica Aerogel-rPET Biosorbent for Toluene Removal: Characterization and Optimization. *Water, Air, and Soil Pollution*, 237(2), 111.

- 4 Ghafghazi L., **Taghavi L.**, Rasekh B., Farahani H., Safa M. (2025). Soil Responses to Nano-enhanced Bioremediation Technique: The Synergistic Effects of Vermicompost and Fe₃O₄ Nanoparticles Against Phthalate Contamination. *Bionanoscience*, 15(4), 563.
- 5 Nosrati Sakol R., Monavari S.M., **Taghavi L.**, Bakpour S., Zamani F. (2025). Modeling and optimizing criteria in hazardous waste site selection with an integrated approach of GIS, ANP, and genetic algorithms. *Modeling Earth Systems and Environment*, 11(6), 428.
- 6 Fallahi F., **Taghavi L.**, Panahi H.A., Jozi S.A. (2025). Eco-friendly nanoadsorbent for sustainable removal of cefixime from water: Dendrimer-modified graphene quantum dots with response surface optimization. *Environmental Technology and Innovation*, 40, 104647.
- 7 Hosseinlou A.H., Mansouri N., Mahmoudkhani R., **Taghavi L.** (2025). Peroxymonosulfate activation by assistance of Co₃O₄/g-C₃N₄ nanocomposite and UVC for efficient microplastic photodegradation. *Desalination and Water Treatment*, 324, 101471.
- 8 Taleshpur S., **Taghavi L.**, Farahani H.F., Rasekh B., Bazgir S. (2025). Oil pollution removal using g-C₃N₄/PEG nanocomposite in the presence of bacterial consortium isolated from contaminated areas: optimization Study. *International Journal of Environmental Science and Technology*, 22(9), 100613.
- 9 Soltaninia S., Eskandaripour M., Golmohammadi M.H., **Taghavi L.**, Mehboodi A. (2025). Nitrate pollution in urban runoff: A comprehensive risk assessment for human and ecological health. *International Journal of Environmental Science and Technology*, 22(9), 100613.
- 10 Hazratian L., Ahmad Panahi H., **Taghavi L.**, Moniri E., Nouri H. (2025). Comparison of Phenolic Contaminants Removal from Aqueous Solution by Grafting of Allyl Glycidyl Ether-Allyl Alcohol onto Zinc Sulfide Nanoparticles. *Journal of Polymers and the Environment*, 33(3).
- 11 Mobasheri M., **Taghavi L.**, Valinassab T., Nasrollahzadeh Saravi H. (2025). Microplastic ingestion by *Psettodes erumei* in the northern Oman Sea. *Iranian Journal of Fisheries Sciences*, 24(1).
- 12 Nakhlestani N., **Taghavi L.**, Dehghani Ghanatghestani M., Ahmad Panahi H. (2025). Application of a magnetic graphene nanocomposite modified with 5-aminoisophthalic acid amine group for chromium (VI) adsorption from aqueous solutions: kinetic and thermodynamic studies. *International Journal of Environmental Analytical Chemistry*, 105(18).
- 13 Khazaei A., Abbaspour M., Babaei S.K., **Taghavi L.**, Rashidi Y. (2025). Modeling the spatiotemporal dynamics of metropolitan urban heat islands and predicting the future situation (Tehran metropolis). *International Journal of Environmental Science and Technology*, 22(2). 933-950.
- 14 Nakhlestani N., **Taghavi L.**, Dehghani M., Ahmad Panahi H. (2024). Efficient Removal of Pb (II) and Cd (II) Ions from Aqueous Solutions Using a 5-Aminoisophthalic Acid Polymerized Magnetic Graphene Oxide Composite. *Iranian Journal of Chemistry and Chemical Engineering*, 43(7).
- 15 Hazratian L., Mansouri N., Ahmad Panahi H., **Taghavi L.**, Moniri E. (2024). Synthesis of Layer-By-Layer Decorated Graphene Oxide with Bismuth Telluride Nanoparticles-modified Dendrimer: Application for Nonylphenol Removal from Aqueous Solutions. *Chemistryselect*, 9(4), e202302776.
- 16 Ghafghazi L., **Taghavi L.**, Rasekh B., Farahani H., Hassani A.H. (2024). Application of compost assisted by Fe₃O₄ nanoparticles in di (2-ethylhexyl) phthalate-contaminated soil remediation: Biostimulation strategy, Soil responses, and RSM/CCD Optimization. *Science of the Total Environment*, 908, 168029.
- 17 Hazratian L., Mansouri N., Ahmad Panahi H., **Taghavi L.**, Moniri E. (2024). Non-Linear Regression Analysis for Removal of Bisphenol A from Aqueous Solution Using Graphene Oxide-Layered Bismuth Telluride. *Journal of Cluster Science*, 35(1).
- 18 Selahvarzi M., Sobhan Ardakani S., Hemmasi A.H., **Taghavi L.**, Ghoddousi J. (2024). Analysis, spatial distribution and ecological risk assessment of heavy metals in surface soils, the case of Khorramabad, Iran. *International Journal of Environmental Analytical Chemistry*, 104(20).
- 19 Zandi-Mehri E., **Taghavi L.**, Moeinpour F., Khosravi I., Ghasemi S. (2024). Facile application of OH-ended triazinic dendrimer/halloysite nanotube for removal of methylene blue with a high capacity. *International Journal of Environmental Analytical Chemistry*, 104(16).

- 20 Taghavi Kalajahi S., Rezazadeh Mofradnia S., Yazdian F., Neshati J., **Taghavi L.** (2023). Computational evaluation of multifunctional nanostructured inhibitors to control microbiologically influenced corrosion: DFT calculations and MD simulations. *Journal of Applied Electrochemistry*, 53(12).
- 21 Golrizkhatami F., **Taghavi L.**, Nasseh N., Panahi H.A. (2023). Synthesis of novel $\text{MnFe}_2\text{O}_4/\text{BiOI}$ green nanocomposite and its application to photocatalytic degradation of tetracycline hydrochloride: (LC-MS analyses, mechanism, reusability, kinetic, radical agents, mineralization, process capability, and purification of actual pharmaceutical wastewater). *Journal of Photochemistry and Photobiology A Chemistry*, 444, 114989.
- 22 Javanmirpourshirzadi Z., Zamani Hargalani F., Robati M., **Taghavi L.** (2023). Removal of lead (II) from aqueous solutions using β -cyclodextrin functionalized magnetic graphene oxide nanocomposite, performance, and optimization with response surface methodology. *Journal of Nanoparticle Research*, 25(7), 131.
- 23 Sajedi Sabegh S., Mansouri N., **Taghavi L.**, Mirzahosseini S.A. (2023). Pollution status, origin, and health risk assessment of toxic metals in deposited indoor and outdoor urban dust. *International Journal of Environmental Science and Technology*, 20(3).
- 24 Nozari M., Esmaili-sari A., Moradi A.M., Bahramifar N., **Taghavi L.** (2023). Contamination, ecological, and health risk assessment of heavy metals and organophosphorus pesticides in single, double, and ratoon cropping of rice: a case study in Mazandaran, North of Iran. *Environmental Monitoring and Assessment*, 195(3), 376.
- 25 Hosseini K., **Taghavi L.**, Ghasemi S., Dehghani Ghanatghehstani M. (2023). Health risk assessment of total petroleum hydrocarbons and heavy metals in groundwater and soils in petrochemical pipelines. *International Journal of Environmental Science and Technology*, 20(2).
- 26 Karimi S.R., Mansouri N., **Taghavi L.**, Moeinaddini M. (2023). Receptor modeling and health risk assessment of suspended heavy metal particles in Tehran's District 21. *International Journal of Environmental Science and Technology*, 20(1).
- 27 Soltaninia S., **Taghavi L.**, Hosseini S.A., Motamedvaziri B., Eslamian S. (2023). The effects of antecedent dry days and land use types on urban runoff quality in a semi-Arid region. *International Journal of Urban Sciences*, 27(2).
- 28 Akbari H., **Taghavi L.**, Hossaini S.K.E., Gholami-Fesharaki M., Mirzahosseini S.A.H. (2023). Effects of Radio Waves on the Immune System of an Animal Model. *Trauma Monthly*, 28(4).
- 29 Zadehdabagh N., Monavari S.M., Kargari N., **Taghavi L.**, Pirasteh S. (2022). Sustainability of agroecosystems by indices: A comparative study between indicators of ecological footprint sustainability and emergy analysis; a case study in Dez catchment, Iran. *Ecological Modelling*, 474, 110165.
- 30 Soltaninia S., **Taghavi L.**, Hosseini S.A., Motamedvaziri B., Eslamian S. (2022). The effect of land-use type and climatic conditions on heavy metal pollutants in urban runoff in a semi-arid region. *Water Reuse*, 12(4).
- 31 Mohebian M., Sobhanardakani S., **Taghavi L.**, Ghoddousi J. (2022). Optimization of phytoremediation of contaminated soil with heavy metals and petroleum hydrocarbons using SEM and MCDM techniques. *International Journal of Environmental Science and Technology*, 19(10).
- 32 Zandi-Mehri E., **Taghavi L.**, Moeinpour F., Khosravi I., Ghasemi S. (2022). Removal of nonylphenol from aqueous solutions using 4-aminoantipyrine grafted $\text{Bi}_2\text{Te}_3/\text{GO}$ with high-performance liquid chromatography with fluorescence detector. *Desalination and Water Treatment*, 269.
- 33 Zandi-Mehri E., **Taghavi L.**, Moeinpour F., Khosravi I., Ghasemi S. (2022). Designing of hydroxyl terminated triazine-based dendritic polymer/halloysite nanotube as an efficient nano-adsorbent for the rapid removal of Pb (II) from aqueous media. *Journal of Molecular Liquids*, 360, 119407.
- 34 Shajari M., Rostamizadeh K., Shapouri R., **Taghavi L.** (2022). Enhanced Antibacterial Activity of Eugenol-Loaded mPEG-PCL Nanoparticles in Eliminating Resistant Bacteria from Wastewater. *Nano*, 17(9), 225006.

- 35 Far H.A., Hassani A.H., **Taghavi L.**, Fazeli M., Mehrabadi A.R. (2022). Electro dialysis reversal (EDR) performance for reject brine treatment of reverse osmosis desalination system. *Plos One*, 17(8 August), e0273240.
- 36 Bakhtiari H., **Taghavi L.**, Mirbagheri S.A., Rajaei T., Ramezani M. (2022). Effective harvesting of the microalgae *Cyclotella* via autoflocculation and bioflocculation. *International Journal of Environmental Science and Technology*, 19(7).
- 37 Kalajahi S.T., Mofradnia S.R., Yazdian F., Rasekh B., Neshati J., **Taghavi L.**, Pourmadadi M., Haghirosadat B.F. (2022). Inhibition performances of graphene oxide/silver nanostructure for the microbial corrosion: molecular dynamic simulation study. *Environmental Science and Pollution Research*, 29(33).
- 38 Shaabani Z., Esmaili-sari A., Moradi A.M., **Taghavi L.**, Farsad F. (2022). Possible health risk assessment for heavy metal concentrations in water, sediment, and fish species and Turkmen pregnant women's biomonitoring in Miankaleh Peninsula, Iran. *Environmental Science and Pollution Research*, 29(25).
- 39 Mohammadi A., Alambeigi A., Lopez-Bao J.V., **Taghavi L.**, Kaboli M. (2022). Living with wolves: Lessons learned from Iran. *Conservation Science and Practice*, 4(5), e12667. *Conservation Science and Practice*, 4(5), e12667.
- 40 Hajighasemkhan A., **Taghavi L.**, Moniri E., Hassani A.H., Panahi H.A. (2022). Adsorption kinetics and isotherms study of 2,4-dichlorophenoxyacetic acid by 3dimensional/graphene oxide/magnetic from aquatic solutions. *International Journal of Environmental Analytical Chemistry*, 102(5).
- 41 Fekri R., Mirbagheri S.-A., Fataei E., Ebrahimzadeh-Rajaei G., **Taghavi L.** (2022). Green synthesis of CuO nanoparticles using *Peganum harmala* extract for photocatalytic and sonocatalytic degradation of reactive dye and organic compounds. *Main Group Chemistry*, 21(4).
- 42 Nouri-Mashiran M., **Taghavi L.**, Fataei E., Ebrahimzadeh-Rajaei G., Ramezani M. (2022). Green synthesis of ZnO nanoparticles and comparison of 2,4-dinitrophenol removal efficiency using photocatalytic, sonocatalytic, and adsorption processes. *Main Group Chemistry*, 21(2).
- 43 Vakili F., Rashidi A., **Taghavi L.**, Mansouri N. (2021). Conversion of biomass to N, S co-doped porous graphene as an adsorbent for mercury vapor removal: optimization and DFT study. *Journal of Environmental Health Science and Engineering*, 19(2).
- 44 Javadi E., **Taghavi L.**, Baghdadi M., Panahi H.A. (2021). Fixed bed column investigation for the adsorption of 4-nonylphenol using graphene oxide chitosan aerogel beads. *Journal of Environmental Engineering, United States*, 147(11), 04021051.
- 45 Hamidi M., Nassiri P., Panahi H.A., **Taghavi L.**, Bazgir S. (2021). Synthesis of a multicomponent silica aerogel-containing nanocomposite for efficient sound absorption properties. *Polymers and Polymer Composites*, 29.
- 46 Mohebian M., Sobhanardakani S., **Taghavi L.**, Ghoddousi J. (2021). Analysis and potential ecological risk assessment of heavy metals in the surface soils collected from various land uses around Shazand Oil Refinery Complex, Arak, Iran. *Arabian Journal of Geosciences*, 14(19).
- 47 Vakili F., Rashidi A., **Taghavi L.**, Mansouri N. (2021). Single-step synthesis of N, S co-doped waste-derived nanoporous carbon sorbent for mercury vapor removal. *Environmental Science and Pollution Research*, 28(14).
- 48 Soltaninia S., **Taghavi L.**, Eslamian S. (2021). The effect of urban development on runoff volumes in the London Borough Barking and Dagenham. *International Journal of Hydrology Science and Technology*, 11(2).
- 49 Kalajahi S.T., Rasekh B., Yazdian F., Neshati J., **Taghavi L.** (2021). Corrosion behaviour of X60 steel in the presence of sulphate-reducing bacteria (SRB) and iron-reducing bacteria (IRB) in seawater. *Corrosion Engineering Science and Technology*, 56(6).
- 50 Taghavi Kalajahi S., Rasekh B., Yazdian F., Neshati J., **Taghavi L.** (2021). Graphene oxide/silver nanostructure as a green anti-biofouling composite toward controlling the microbial corrosion. *International Journal of Environmental Science and Technology*, 18(1).

- 51 Nasseh N., Barikbin B., **Taghavi L.** (2020). Photocatalytic degradation of tetracycline hydrochloride by FeNi₃/SiO₂/CuS magnetic nanocomposite under simulated solar irradiation: Efficiency, stability, kinetic and pathway study. *Environmental Technology and Innovation*, 20, 101035.
- 52 Kalajahi S.T., Rasekh B., Yazdian F., Neshati J., **Taghavi L.** (2020). Green mitigation of microbial corrosion by copper nanoparticles doped carbon quantum dots nanohybrid. *Environmental Science and Pollution Research*, 27(32).
- 53 Javadi E., Baghdadi M., **Taghavi L.**, Ahmad Panahi H. (2020). Removal of 4-nonylphenol from Surface Water and Municipal Wastewater Effluent Using Three-Dimensional Graphene Oxide–Chitosan Aerogel Beads. *International Journal of Environmental Research*, 14(5).
- 54 Khodabakhsh S., Alaie E., **Taghavi L.**, Samiee L. (2020). Comparing nanocomposites of TiO₂/SBA-15 and TiO₂/GO for removal of phenol out of aqueous solutions. *Iranian Journal of Chemistry and Chemical Engineering*, 39(5).
- 55 Abdollahi A.A., Babazadeh H., Yargholi B., **Taghavi L.** (2020). Zoning the Rate of Pollution in Domestic River Using Spatial Multi-Criteria Evaluation Model. *Civil and Environmental Engineering*, 16(1).
- 56 Shajari M., Rostamizadeh K., Shapouri R., **Taghavi L.** (2020). Eco-friendly curcumin-loaded nanostructured lipid carrier as an efficient antibacterial for hospital wastewater treatment. *Environmental Technology and Innovation*, 18, 100703.
- 57 Hajighasemkhan A., **Taghavi L.**, Moniri E., Hassani A.H., Panahi H.A. (2020). Removal of 2,4-dichlorophenoxyacetic acid and 4-chloro-2-methyl phenoxyacetic acid herbicides from aquatic environments by a novel polymer magnetic nanoparticles. *Iranian Journal of Health and Environment*, 13(1).
- 58 Akbari H., Gholami M., Akbari H., Adibzadeh A., Hayati B., **Taghavi L.**, Hayati B., Nazari S. (2020). Poly (amidoamine) generation 6 functionalized Fe₃O₄@SiO₂/GPTMS core-shell magnetic NPs as a new adsorbent for Arsenite adsorption: Kinetic, isotherm, and thermodynamic studies 03 Chemical Sciences 0306 Physical Chemistry (incl. Structural). *Journal of Environmental Health Science and Engineering*, 18(1).
- 59 Darvish M., Dehaghi M., Shahram, **Taghavi L.**, Karbassi A.R. (2020). Removal of nitrate using synthetic nano composite zno/organoclay: Kinetic and isotherm studies. *Iranian Journal of Chemistry and Chemical Engineering*, 39(1).
- 60 Eghbal N., Nasrabadi T., Karbassi A.R., **Taghavi L.** (2019). Investigating the pattern of soil metallic pollution in urban areas (case study: a district in Tehran city). *International Journal of Environmental Science and Technology*, 16(11).
- 61 Dashtbozorg M., Riyahi Bakhtiari A., Shushizadeh M.R., **Taghavi L.** (2019). Quantitative evaluation of n-alkanes, PAHs, and petroleum biomarker accumulation in beach-stranded tar balls and coastal surface sediments in the Bushehr Province, Persian Gulf (Iran). *Marine Pollution Bulletin*, 146.
- 62 Nasseh N., **Taghavi L.**, Barikbin B., Nasser M.A., Allahresani A. (2019). FeNi₃/SiO₂ magnetic nanocomposite as an efficient and recyclable heterogeneous Fenton-like catalyst for the oxidation of metronidazole in neutral environments: Adsorption and degradation studies. *Composites Part B Engineering*, 166.
- 63 Malekzadeh M., Kardar S., Saeb K., Shabanlou S., **Taghavi L.** (2019). A Novel Approach for Prediction of Monthly Ground Water Level Using a Hybrid Wavelet and Non-Tuned Self-Adaptive Machine Learning Model. *Water Resources Management*, 33(4).
- 64 Ghoochian M., Panahi H.A., Sobhanardakani S., **Taghavi L.**, Hassani A.H. (2019). Synthesis and application of Fe₃O₄/SiO₂/thermosensitive/PAMAM-CS nanoparticles as a novel adsorbent for removal of tamoxifen from water samples. *Microchemical Journal*, 145.
- 65 Nasseh N., Barikbin B., **Taghavi L.**, Nasser M.A. (2019). Adsorption of metronidazole antibiotic using a new magnetic nanocomposite from simulated wastewater (isotherm, kinetic, and thermodynamic studies). *Composites Part B Engineering*, 159.
- 66 Eghbal N., Nasrabadi T., Karbassi A.R., **Taghavi L.** (2019). Evaluating the potential of plants

- (leaves) in removal of toxic metals from urban soils (case study of a district in Tehran city). *Pollution*, 5(2).
- 67 Mehrdad S., Saeb K., **Taghavi L.**, Ghane M. (2019). Evaluation of the biodegradation of petroleum contaminants by *Pseudomonas aeruginosa* in the Caspian Sea coastline waters. *Iranian Journal of Toxicology*, 13(3).
 - 68 Nasseh N., **Taghavi L.**, Barikbin B., Nasser M.A. (2018). Synthesis and characterizations of a novel FeNi₃/SiO₂/CuS magnetic nanocomposite for photocatalytic degradation of tetracycline in simulated wastewater. *Journal of Cleaner Production*, 179.
 - 69 Hariri M., Mirvaghefi A., Farahmand H., **Taghavi L.**, Shahabinia A.-R. (2018). In situ assessment of Karaj River genotoxic impact with the alkaline comet assay and micronucleus test, on feral brown trout (*Salmo trutta fario*). *Environmental Toxicology and Pharmacology*, 58.
 - 70 Goharrizi R.S., **Taghavi L.**, Sarrafi A., Karbasi A., Dehaghi S.M. (2018). Preparation and characterization of magnetite-bentonite nano composites from native bentonite mines of Kerman, Iran. *Journal of Magnetism*, 23(2).
 - 71 Nasseh N., **Taghavi L.**, Barikbin B., Harifi-Mood A.R. (2017). The removal of Cr (VI) from aqueous solution by almond green hull waste material: Kinetic and equilibrium studies. *Journal of Water Reuse and Desalination*, 7(4).
 - 72 Nasseh N., **Taghavi L.**, Barikbin B., Khodadadi M. (2017). Advantage of almond green hull over its resultant ash for chromium (VI) removal from aqueous solutions. *International Journal of Environmental Science and Technology*, 14(2).
 - 73 Khoshnood R., Jaafarzadeh N., Jamili Sh., Farshchi P., **Taghavi L.** (2017). Acute toxicity of TiO₂, CuO, and ZnO nanoparticles in brine shrimp, *Artemia franciscana*. *Iranian Journal of Fisheries Sciences*, 16(4).
 - 74 Nassiri P., Karimi E., Monazzam M.R., Abbaspour M., **Taghavi L.** (2016). Analytical comparison of traffic noise indices—a case study in district 14 of Tehran city. *Journal of Low Frequency Noise Vibration and Active Control*, 35(3).
 - 75 Emadzadeh M., Pazouki M., Sharghi E.A., **Taghavi L.** (2016). Experimental study on the factors affecting hexavalent chromium bioreduction by *Bacillus cereus*. *International Journal of Engineering Transactions B: Applications*, 29(2).
 - 76 Monazzam M.R., Karimi E., Nassiri P., **Taghavi L.** (2015). School-reopening impact on traffic-induced noise level at different land uses: a case study. *International Journal of Environmental Science and Technology*, 12(10).
 - 77 Monazzam M.R., Karimi E., Abbaspour M., Nassiri P., **Taghavi L.** (2015). Spatial traffic noise pollution assessment - A case study. *International Journal of Occupational Medicine and Environmental Health*, 28(3).
 - 78 **Taghavi L.**, Amani T., Nosrati M. (2015). A comprehensive study on autothermal thermophilic aerobic digestion process of waste activated sludge in a continuous stirred digester. *International Journal of Environment and Waste Management*, 15(2).
 - 79 Abbaspour M., Karimi E., Nassiri P., Monazzam M.R., **Taghavi L.** (2015). Hierarchical assessment of noise pollution in urban areas - A case study. *Transportation Research Part D Transport and Environment*, 34.
 - 80 Monazzam M.R., Karimi E., Nassiri P., **Taghavi L.**, Karbalaei S. (2014). Outdoor noise pollution mapping case study: A district of Tehran. *Fluctuation and Noise Letters*, 13(4), 145002.
 - 81 Boithias L., Sauvage S., **Taghavi L.**, Merlina G., Probst J.-L., Sanchez Perez J.M. (2011). Occurrence of metolachlor and trifluralin losses in the Save River agricultural catchment during floods. *Journal of Hazardous Materials*, 196.
 - 82 **Taghavi L.**, Merlina G., Probst J.-L. (2011). The role of storm flows in concentration of pesticides associated with particulate and dissolved fractions as a threat to aquatic ecosystems Case study: The agricultural watershed of Save River (Southwest of France). *Knowledge and Management of Aquatic Ecosystems*, (400), 06.

- 83 **Taghavi L.**, Probst J.-L., Merlina G., A.-L. Marchand, Durbe G., Probst A. (2010). Flood event impact on pesticide transfer in a small agricultural catchment (Montoussé at Auradé, southwest France). *International Journal of Environmental Analytical Chemistry*, 90(3-6)

	Research output:	Conference Presentations:
1	Hayeri Yazdi, S., Taghavi, L. , 2021. A review of modeling the effects of climate change (CC) on the quality and quantity of groundwater, 4 th International New York Conference On. Evolving Trends in Interdisciplinary Research & Practices. USA.	
2	Ghasemi, F. and Taghavi, L. , The Composition and source of aerosols particles: Effects on human's health and environment, 32 nd national and the 1 st international Geosciences congress, Tehran, Iran, 2014, (Poster Presentation).	
3	Pourhashemi, S.A., Taghavi, L. , and Poushaneh, N. "An overview of the international legal regime for the protection of the Persian Gulf's environment". 1 st International Conference on the Environment and the Geopolitics of the Persian Gulf, Qeshm, Iran, 2012, (Poster Presentation).	
4	Taghavi, L. and Mohammad Shafiee, M.R. "The Practical Behavior of Fatemeh Zahra (as), the E model of Generation". International Congress on Culture and Religious Thought. Qom, Iran, 2013.	
5	Shahabinia. A.R., Moattar, F., Nabavi, S.M.B., Taghavi, L. "Investigation of solar UV radiation and climate change effects on phytoplankton". 3 rd International Conference on Environmental Planning and Management, Tehran, Iran, 2013.	
6	Ghaleh, S., Mastoureh Khosravi, S.G., Shalbafm B, Taghavi, L. , Yousefi, H., and Moharamnejad, N. "Environmental, Health and Safety Management in Cement Factory". The 1 st International Conference on Environmental Crisis and its Solutions, Kish Island, Iran, 13-14 Feb, 2013.	
7	Shahabinia, A.R., Moattar, F., Nabavi, S.M.B. and Taghavi, L. "Study on the effect of solar radiation and temperature on the dynamics of phytoplankton communities in Gorigollake". International Conference on Sustainable Development, Strategies, and Challenges, with a focus on agriculture, natural resources, environment, and tourism, Tabriz, Iran, 2015. (Poster Presentation).	
8	Dabiri, F., Taghavi, L. , Pourhashemi, S.A. and Zarei, A. "Comparative Study of the Legal Aspects of the Development and Use of Renewable Energy Inefficiently in Iran and Selected Countries". 28 th International Power System Conference, Tehran, Iran, 2013, (Oral Presentation).	
9	Taghavi, L. and Mostafaei, M. "Probable effects of Bushehr earthquake on the Persian Gulf environment". 2 nd International Conference on the Environment and the Geopolitics of the Persian Gulf, Kish, Iran, 2013, (Poster Presentation).	
10	Poorhashemi, S.A., Taghavi, L. , and ParandehMotlagh, A. "Role of regional cooperation in the Persian Gulf security and environmental protection". 2 nd International Conference on the Environment and the Geopolitics of the Persian Gulf, Kish, Iran, 2013, (Oral Presentation).	
11	Taghavi, L. and Abbaspour, M. "Water desalination and its impact in Persian Gulf Region". 2 nd International Conference on the Environment and the Geopolitics of the Persian Gulf, Kish, Iran, 2013, (Oral Presentation)	
12	Tayebi, S., Taghavi, L. , and Taghizadeh Diva, S.A. "International responsibility to protect the environment of the Persian Gulf". 2 nd International Conference on the Environment and the Geopolitics of the Persian Gulf, Kish, Iran, 2013, (Oral Presentation).	
13	Taghavi, L. and Abbaspour, M. "Determinant factors for modeling and managing red tide in the Persian Gulf". 1 st International Conference on the Environment and the Geopolitics of the Persian Gulf, Qeshm, Iran, 2012, (Oral Presentation).	
14	Barikbin, B., Taghavi, L. , HarifiMoud, A. and Nasseh, N. "Removal of Hexavalent Chromium by using of Adsorption onto Almond Green Hull". The 1 st International Conference on Environmental Crisis and its solutions, Kish Island, Iran, 13-14 Feb 2013 (Poster Presentation).	
15	Abbaspour, M. and Taghavi, L. Oloomi M, "Environmental and Ecological Concerns of artificial Islands (Case Study: ROPME Sea Area)", International Conference on Environmental Challenges in the ROPME Sea Area, Kish Island, Iran, 3-6 March 2013, (Oral Presentation).	
16	Mohamadshafiee, M.R. and Taghavi, L. "Health Effects of Trihalomethanes as Chlorinated	

- disinfection by products: A review Article, International Conference on Agricultural, Biosystems, Biotechnology and Biological Engineering, Malaysia, 2012, (Oral Presentation).
- 17 **Taghavi L.** and Hedayat, N., “Challenges of irrigation water supply in croplands of arid regions and their environmental consequences – A case study in the Dez and Moghan command areas of Iran” International Conference on Agricultural, Biosystems, Biotechnology and Biological Engineering; Paris/France. 27-29 July 2011 (Oral Presentation).
 - 18 **Taghavi, L.**, Merlina, G. and Probst, J.L.” Role of different stream flow components in pesticides transfer during storm events in an agricultural watershed (Save – south west of France)”. International Conference on Agricultural, Biosystems, Biotechnology and Biological Engineering; Paris/France. 27-29 July 2011 (Oral Presentation).
 - 19 **Taghavi, L.**, Merlina, G. and Probst, J.L. “Dynamique de transfert des pesticides en périodes de crue sur le bassin versant de la Save (Sud-Ouest de la France) : approche par découpage des hydrogrammes de crue. C, 26-28 May 2010, Banylus-sur-Mer, (Oral Presentation).
 - 20 Boithias, L., **Taghavi, L.**, Oeurng, C., Polard, T., Ferrant, S., Jean, S., Probst, J.L, Merlina, G., Sauvage, S., and Sanchez-Poerez, J.M. Modeling pesticide transfer during flood events in an agricultural catchment using the SWAT model. Geophysical Research, Vol. 12, EGU2010-8258-1, 2010. EGU General Assembly 2010, Vienna/Austria, April 2010, (poster).
 - 21 **Taghavi, L.**, Merlina, G. and Probst, J.L. “Pesticide transfer dynamic in an agricultural watershed (Save-South west of France): contribution of the flood flows to the total fluxes; 6th European conference on pesticides and related organic micropollutants in the environment and 12th symposium on chemistry and fate of modern pesticides; Matera/ Italy. 8-10 September 2010 (Awarded to Roland W. Frei Diploma).
 - 22 **Taghavi, L.**, Merlina, G. and Probst, J.L. “Contribution of the different stream flow components to the transfer of pesticides in an agricultural watershed (Save, south west of France); 6th European conference on pesticides and related organic micropollutants in the environment and 12th symposium on chemistry and fate of modern pesticides; Matera / Italy. 8-10 September 2010 (Oral Presentation).
 - 23 **Taghavi, L.**, Marchand, A.L., Merlina, G., Durbe, G., Probst, A., and Probst, J.L. “Pesticide transfers in a small agricultural catchment during flood flows /south west of France; 5th European conference on pesticides and related organic micropollutants in the environment and 11th symposium on chemistry and fate of modern pesticides; Marseille / France. 21-24 Oct. 2008, (Poster Presentation), [Awarded the best prize for posters].
 - 24 **Taghavi, L.**, Merlina, G., Probst, A., Pinelli, E. and Probst, J.L. “Dynamique de transfert des pesticides en périodes de crue sur le bassin versant de la Save / Sud-Ouest de la France ; 39th French National Conference on Pesticides, 13-15 May 2009, Toulouse, France (Oral Presentation).

Presented over 40 scientific papers in prestigious international and national conferences

Research output:	Book:
• Muhamad Reza Shafiyi, Lobat Taghavi, and Reyhaneh Asgarpoor. Water contamination (the remediation notions and methods with an emphasis on phytoremediation and nanofiltration in water treatment), Talab Publications, Spring 2013. • Lobat Taghavi, Hussein Yousefi, and Qolamreza Aqa Moradi. Research method in environmental studies. Talab Publications, Tehran, 2014, republished • Lobat Taghavi and Negin Naseh. Ecotourism and the related areas (with the support of the Cultural Heritage, Handicrafts, and Tourism Organization of South Khorasan Province), winter 2016 • Environmental Nanotechnology (2018). M.H.Fulekar and Bhawana Pathak, Translated by: Taghavi, L. (2022). Published by: Science and Research Branch of Islamic Azad University. • Nasseh N., Taghavi, L. (2022). Introduction to Waste Management. Published by: Birjand University of Medical Sciences. • Taghavi, L., Soltaninia, S, Sakhaei, S. (2024). Quantitative and qualitative sustainable management of urban flooding. Published by: Qome Municipality. • Taghavi L., Mohammad Saeed Khademolhosseini, Seyed Mohammad Shahidi, (2026). Application of	

AI in water management (2025). Published by: Unesco National Commission (In Press).

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Citation indices	All	Since 2021
Citations	2726	2058
h-index	27	23
i10-index	64	57

Leadership Experience:

- Head of the Department of Natural Resources and Environment, Islamic Azad University, Science and Research Branch (2025)
- Vice-Chairman of the Board, Iran National Environment Fund (NEF) (2019 – 2022)
- Advisor to the Chairman, Commission of Agriculture, Water, Natural Resources, and Environment, Parliament of the Islamic Republic of Iran (2020 – Present)
- Head of Environmental Science & Engineering Groups (Successive terms from 2014 to 2021)
- Chairman of the Board, Zist Negar Kohan Co. (ZNK) (2014 – 2017)
- Executive Manager, Green Economy Research Project and IEG (2011 – 2012)
- Executive Manager, over 20 specialized environmental workshops (2012 – 2013)
- Advisor to the President, Urban Environment Committee of the Islamic Council of Qom (2017 – 2020)

Supervision of Student Projects:

“I have supervised over 50 Ph.D. candidates and numerous M.Sc. students in the fields of Environmental Pollution, Nanotechnology, and Water Security at Islamic Azad University (IAU), Iran”

- 1 Sahابه Taleshpour, Oil pollution removal using polyethylene-functionalized graphitic carbon nitride in the presence of a bacterial consortium isolated from contaminated areas. Department of Environmental Science, Defense Date: March 2025
- 2 E Zandi-Mehri, Efficiency of triazine-based dendrimeric nano-adsorbents in the removal of heavy metals and dyes from textile industry wastewater. Department of Environmental Science, Defense Date: September 2025
- 3 N Nakhlestani, Investigation into the efficiency of organic polymer-functionalized graphene oxide for the removal of heavy metals from aqueous environments. Department of Environmental Science, Defense Date: October 2025
- 4 L Ghadghazi, Application of magnetite nanoparticle-enriched compost for the removal of Di(2-ethylhexyl) phthalate (DEHP) from contaminated soils. Department of Environmental Science, Defense Date: July 2025
- 5 M Mobasheri, Occurrence of microplastics in selected commercial fish species from the Sea of Oman and its impact on human health. Department of Environmental Science, Defense Date: October 2025
- 6 A Ghafari, Evaluation of the insecticidal potential of Lavandula, Eucalyptus, Thymus, and Rosmarinus essential oils as eco-friendly pesticides. Department of Environmental Science, Defense Date: September 2025
- 7 F Golrizkhatami, Photocatalytic efficiency of MnFe₂O₄/BiOI green magnetic nanocomposite in the degradation of tetracycline antibiotic from aqueous solutions. Department of Environmental Science, Defense Date: September 2023
- 8 H Bakhtiari, Investigation of bioflocculation application in the harvesting of freshwater microalgae to improve the water treatment process. Department of Environmental Science, Defense Date: January 2022
- 9 H Ataei Far, Efficiency comparison of electrodialysis and reverse osmosis methods (integrated with electrocoagulation and microfiltration processes) in the treatment of brackish water desalination system's reject brine. Department of Environmental Science, Defense Date: June 2022
- 10 F Vakili, Synthesis of modified graphene-based nano-adsorbents for mercury removal from natural

gas. Department of Environmental Science, Defense Date: June 2021

- 11 E Javadi, Removal of 4-nonylphenol from contaminated water using chitosan-graphene nanosheet-based aerogels, Department of Environmental Science, Defense Date: March 2021

Teaching Experiences:

Department:

- Environmental Science, Faculty of Agriculture, Natural Resources and Environment
- Chemistry, Faculty of Basic Science

Universities:

- Islamic Azad University (IAU), Tehran, Iran. (2010 – Present)
- Payam-e-Noor University (PNU), Tehran, Iran. (2015 – 2017)

Graduate and undergraduate courses, laboratory instruction, student project supervision, and professional training workshops

Courses Offered:

- Environmental knowledge and protection
- Environmental pollutions
- Research methods
- Trace elements in the environment
- Surface and groundwater contamination
- Sustainable development in environmental management
- Decontamination techniques

Awards and Honors:

- Top student of the undergraduate course, Islamic Azad University, Ahvaz branch (2003)
- Top student of the postgraduate course, Islamic Azad University, Science and Research Branch, Ahvaz (2006)
- Award for the best-presented poster at the 5th international conference of pesticides and organic pollutants of the environment (Marseille, France) (2008)
- Winner of the Rolan W. Frei diploma at the 6th international conference on pesticides and organic pollutants of the environment, Matera, Italy (2010)
- The chosen referee of the Journal of Environmental Science and Technology (JEST)
- Selected at the 4th national festival of Women and Science, winner of the Prof. Maryam Mirzakhani Award (under the age of 40)
- Outstanding professor award in the science and research branch of Islamic Azad University in 2022
- Selected as the Top Translation Book Winner at the 10th Farhikhtegan Festival of Islamic Azad University in 2022
- Award for Women's leading activities in the environmental action branch (research). This award is held under the supervision of the Islamic World Educational, Scientific and Cultural Organization – ICESCO - in cooperation with the Ministry of Environment, Water, and Agriculture of the Kingdom of Saudi Arabia in 2023
- Outstanding researcher award in the science and research branch of Islamic Azad University in 2024
- Recipient of the COMSTECH Best Research Paper Award in Biology, 2025

Memberships:

- Member of the Man and the Biosphere (MAB) Working Group, Iranian National Commission for UNESCO (2026 – Present)
- Senior Environmental Advisor (Pro bono), Canadian Institute of International Legal Experts [CI FILE]

(2021 – Present)

- Advisor & Scientific Research Member, Department of Environment [DOE], Khorasan Province (2024 – Present)
- Member of the Board, Iranian Society of Environmentalists [IRSEN] (2016 – 2020)
- Scientific Committee Member, Environmental Assessment Committee, Tehran Municipality (14th District)
- Advisor, Mahab Ghodss Consulting Engineering Co. (2011)
- Faculty Educational Council Member, Faculty of Environment and Energy (2014 – 2017)
- Professional Member, Khuzestan Construction Engineering Organization (2006 – 2010)
- Selected Referee, Journal of Environmental Science and Technology (JEST)

Computer Skills:

QUAL2K, SimaPro, ArcGIS, SigmaPlot, EndNote, SPSS, AutoCAD, Microsoft Office, Statistical and environmental modeling software

Research Interests:

- Environmental pollution and remediation
- Sustainable development
- Environmental and hydrological modelling
- Environmental nanotechnology

Scientific References:

“Supervisors and Referees”

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The Board Member of Sharif Energy, Water and Environment (SEWEI), Sharif University of Technology, Iran

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Dr. Issa Kalantari

Secretary – General of the Farmers’ House

Former Vice President of Iran and Head of The Department of Environment (DOE) of Iran

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