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Dr. Ahmad Khodadadi
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Tarbiat Modares University,
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Tehran, Iran



Dr Khodadadi Darban Ahmad

Affiliation: Full Professor of Geoenvironmental Engineering

Education: Ph.D. Civil Engineering, McGill University, Montreal, Canada

Business Address: Faculty of Engineering, Tarbiat Modares University, Tehran, Iran

Research and Professional Experience: Supervised over 100 Master and Ph. D. students and Published over 300 Research paper and 5 book in area of water and soil pollution and treatments

Professional Appointments: Chairing Modares Environmental Research Center (MERC) over 15 years

Education:

2019 Visiting Department of Chemical and Biological Engineering, University of British Columbia, Vancouver, Canada.

2018 Visiting Nanyang, Water and Environment Research Institute, Nanyang Technological University, Singapore.

- 00 Post-doctorate Fellowship, Geo-environmental Engineering, Department of Civil Engineering, Laval University Quebec, Québec, Canada.
- 98 *Ph.D. Program, Geo-environmental Engineering*, Department of Civil Engineering and Applied Mechanics, McGill University Montreal, Québec, Canada.
- 93 M. Eng., Transportation Engineering, Department of Civil and Environmental Engineering, Carleton University, Ottawa, Ontario, Canada.
- 🧝 91 B. Eng., Civil Engineering, Department of Civil Engineering, Ottawa University, Ottawa, Canada.
- 80 B. Eng., Mining Engineering, Department of Mining Engineering, Amir Kabir University, Tehran, Iran.
- **Teaching Assistant Experiences Canada:**
- in courses Soil Behavior, Static, Dynamics, Mechanics of Material, Soil Mechanic 1, Soil Mechanic 2, Steel structural design, Highway Materials, Transportation Engineering, Site Remediation, , Groundwater Hydrology Surface and Groundwater Pollution, Groundwater Modeling, Landfill Design, Geo-environmental Engineering. McGill University
- Teaching courses Tarbiat Modares University Civil Engineering Department, Mining Engineering Department and Engineering Geology Department.



- Soil Pollution, Groundwater and Surface Water Pollution, water resources management, Mineral Processing and Environment, Site Remediation, Environmental Geotechniques, Control and disposal of mine waste and wastewater. Soil Contaminant Transport. Mass Transfer in Porous Media. Geochemical Transport modeling. Environmental Geochemistry. Aqueous Chemistry, Environmental Impact assessment. Industrial Sustainable Development. Environmental Geology.
- Research Skills:
- Soil contamination and remediation, hazardous waste management and treatment, industrial waste water treatment, nano and bio application in for waste and wastewater treatment

Skills and Qualifications:

Skills with Finite Element and Finite Difference Software ground water quality and water resourses SEEP, SIGMA, SLOPE, ABAQUS and PATRAN Surface water modeling (SMS) water management system (WMS) Groundwater modelling (GMS) well known finite element programs, HydroGeoChem, GMS (Ground Water Contaminant Transport), Geostudio MOFLOW

HELP (Hydrological Evaluation of Landfill Performance)
MINTEQA2 PHREEQC (geo-chemical model)
BIOCHLOR (bio-transformation modeling) BOIPLUME, BIOSCREEN, UTCHEM (NAPLS Models)

Skills with Finite Element and Finite Difference Software in soil and Water



(WASP7)	Stream water quality	Water Quality Analysis Simulation Program
(WASE/)	ынгат жаг дашу	
	Stream hydrology	Advanced, watershed model that simulates runoff and stream hydrology; can be linked to range of
		other modeling systems (see Mike-SHE below)
SHETRAN	Stream hydrology and	Flexible, 3-D finite difference model, designed to simulate flow, and sediment and
	water quality	contaminant transfer in stream catchments.
HSPF	Stream hydrology and	Integrated modeling system to simulate runoff and water quality (e.g. nutrients, pesticide, sediments)
	water quality	from agricultural and urban sources.
AGNPS	Stream hydrology and water quality	Modeling system to estimate pollution loads from agricultural watersheds; simulates surface water
		runoff, nutrients, sediments, chemical oxygen demand, and pesticides from point and nonpoint
		sources of agricultural pollution.
INCA	Stream water quality	Suite of flow, water quality and ecological models, designed to simulate dynamics and in stream
		biogeochemical and hydrological processes in stream systems; used to assess a wide range of
		environmental change issues including land use change, climate change and changing
		pollutant loads.
SPARROW	Stream water auality	Non-linear, regression-based model for estimating and predicting pollutant concentration and
		transport, on basis of monitored concentration data and information on catchment characteristics.
QUAL2K	Stream water auality	Ecologically-focused model that simulates daily water quality, as either steady-state or dynamic
		system. Includes estimation of biological oxygen demand, nitrogen, phosphorus, coliforms and pH.
Modflow	Groundwater hydrology	Suite of models providing capability to simulate groundwater recharge and flow and solute
	and geochemistry	transport.
Mike-SHE	Steam and groundwater	Advanced, integrated modeling system for simulating hydrological processes in linked surface and
	hydrology and water	groundwater systems, including evapotranspiration, runoff, discharge, groundwater recharge and
	quality	environmental fate of contaminants.
EPANET	Drinking water systems	Network model for simulating hydraulics in water distribution systems, and movement and fate of
		reactive and non-reactive materials within the system (e.g. disinfection by-products).

Book Authored

Geosynthetic application in engineering projects in (Persian)
Microbiological processes of wastewater treatments in (Persian)
The application of flotation to environmental engineering (Persian)
Ultraviolent Light in Water and Wastewater Sanitation (Persian)
Cost Estimating Manual for water Treatment Facilities (Persian)
Principles of Transport of Contaminants in Surface Water (Persian)

Supervised Over 100 Master and Ph D. Graduate students in Environmental Engineering in Mining and Civil Engineering Departments and published over 350 National and International conference and Journal papers



International Publications from the Last 7 Years:

Most of Int. Journal publication 2023

A Shahedi, AK Darban, A Jamshidi-Zanjani, M Homaee, F Taghipour, 2024, Effect of ozonation and UV-LED combination on simultaneous removal of toxic elements during electrocoagulation Environmental Science and Pollution Research 31 (4), 5847-5865

A Saedi, A Jamshidi-Zanjani, M Mohseni, AK Darban, 2023, Mechanical activation for sulfidic tailings treatment by tailings: Environmental aspects and cement consumption reduction, Case Studies in Construction Materials 19, e02632

A Khodadadi Darban, M Moshtagh, 2023, The leachability of heavy metals from bauxite mine waste, Journal of Advanced Environmental Research and Technology 1 (2), 69-84

A Saedi, A Jamshidi-Zanjani, M Mohseni, AK Darban, 2023, Effect of mechanochemical activation on hydration properties of lead-zinc sulfide tailings for concrete construction, Case Studies in Construction Materials 18, e01996.

A Shahedi, AK Darban, A Jamshidi-Zanjani, M Homaee, 2023, An overview of the application of electrocoagulation for mine wastewater treatment, Environmental Monitoring and Assessment 195 (4), 522

E Nabavi, K Pourrostami Niavol, GA Dezvareh, A Khodadadi Darban, 2023, A combined treatment system of O3/UV oxidation and activated carbon adsorption: emerging contaminants in hospital wastewater Journal of Water and Health 21 (4), 463-490

P Karimi, Z Mansourpour, A Khodadadi Darban, 2023, Simulation of magnetic separation process in wet low intensity magnetic separator using DPM-CFD Method, Journal of Advanced Environmental Research and Technology 1 (1), 59-73

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GA Dezvareh, E Nabavi, M Shamskilani, AK Darban, 2023, Water salinity reduction using the phytoremediation method by three plant species and analyzing their behavior Water, Air, & Soil Pollution 234 (2), 90

E Nabavi, M Shamskilani, GA Dezvareh, AK Darban, 2023, ANN-Based Modeling of Combined O3/H2O2 Oxidation, and Activated Carbon Adsorption Treatment System: Forest Polluting Site Leachate, Water, Air, & Soil Pollution 234 (2), 86

A Saedi, A Jamshidi-Zanjani, M Mohseni, AK Darban, H Nejati, 2023, Mechanical activation of lead–zinc mine tailings as a substitution for cement in concrete construction. Construction and Building Materials 364, 129973

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GA Dezvareh, E Nabavi, A Khodadadi Darban, 2022, Study of different microbial corrosion mechanisms in sewer pipes network made by sulfur concrete with focus on strength and durability analysis Environmental Energy and Economic Research 6 (4), 1-13

SM Hosseini, F Vakilchap, M Baniasadi, SM Mousavi, AK Darban, 2022, Green recovery of cerium and strontium from gold mine tailings using an adapted acidophilic bacterium in one-step bioleaching approach, Journal of the Taiwan Institute of Chemical Engineers 138, 104482

S Alizadeh, M Abdollahy, AK Darban, M Mohseni, 2022, Theoretical and experimental comparison of rare earths extraction by [P6, 6, 6, 1, 4][Decanoate] bifunctional ionic liquid and D2EHPA acidic extractant, Minerals Engineering 180, 107473

S Alizadeh, M Abdollahy, AK Darban, M Mohseni, 2022, Theoretical and experimental comparison of rare earths extraction by [P6, 6, 6, 1, 4][Decanoate] bifunctional ionic liquid and D2EHPA acidic extractant, Minerals Engineering 180, 107473.

Most of Int. Journal publication 2021

R Aram, M Abdollahi, P Pourghahramani, M Mohseni, 2021, Characterization of Leaching Feed and Residue of Mechanically Activated Sphalerite, Journal of Mining and Environment 12 (4), 1029-1040

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Zeinab Piervandia, Ahmad Khodadadi Darban*, Seyyed Mohammad Mousavi, Mahmoud Abdollahya, Gholamreza Asadollahfardi, Valerio Funari, Enrico Dinell, 2019, Minimization of metal sulphides bioleaching from mine wastes into the aquatic environment, Ecotoxicology and Environmental Safety 182,109443.

E Tavasoli, G Asadollahfardi, AK Darban, M Asadi, 2019, Simulation of cyanide oxidation using calcium and sodium hypochlorite in the Moteh Gold Mine Tailing Dam, Iran, Desalination and water treatment, 145, 273-279.

B Eyvazi, A Jamshidi-Zanjani, AK Darban, 2019, Immobilization of hexavalent chromium in contaminated soil using nano-magnetic MnFe2O4, Journal of hazardous materials, 365, 813-819.

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H Shadi Naghadeh, M Abdollahy, A Khodadadi Darban, ..., 2019, Mechanical activation of phosphate concentrates to enhance dissolution efficiency of rare earth elements from a kinetic viewpoint, journal of Mining and Environment,

Y Kianinia, MR Khalesi, M Abdollahy, A Khodadadi Darban, 2019, Leaching of gold ores with high cyanicides: a physicochemical modeling approach, journal of Mining and Environment, 10, 87-94.

AK Darban, RD Webster, HH, Yarhosseini, B Malekmohammadi AR Yavari and Arabyarmohammadi, 2019, Environmental Impact Assessment (EIA) of a gold mine tailing through the multi-criteria decision making tool, Journal of Civil Engineering and Environmental Sciences, DOI: http://dx.doi.org/10.17352/jcees.

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M Mohamadiun, B Dahrazma, SF Saghravani, AK Darban, 2018, Removal of cadmium from contaminated soil using iron (III) oxide nanoparticles stabilized with polyacrylic acid, Journal of Environmental Engineering and Landscape Management 26 (2), 98-106

E Darezereshki, A khodadadi Darban, M Abdollahy, 2018, synthesis of magnetite nanoparticles from iron ore tailings using a novel reduction-precipitation method, Journal of Alloys and Compounds 749, 336-343



Koohestani, AK Darban, P Mokhtari, 2018, A comparison between the influence of superplasticizer and organosilanes on different properties of cemented paste backfill, Construction and Building Materials 173, 180-188.

- B Koohestani, AK Darban, E Yilmaz, P Mokhtari, I Ganetri, 2018 Influence of amine and vinyl functional groups of silanes on total performance of thermoplastic-based composites Construction and Building Materials 172, 98-105
- H Arabyarmohammadi, AK Darban, M Abdollahy, R Yong, B Ayati, 2018 ,Utilization of a novel chitosan/clay/biochar nanobiocomposite for immobilization of heavy metals in acid soil environment, Journal of Polymers and the Environment 26 (5), 2107-2119.
- Y Kianinia, L Hnedkovsky, G Senanayake, C Akilan, MR Khalesi, A. K. Darban, 2018, Heat Capacities of Aqueous Solutions of K4Fe(CN)6, K3Fe(CN)6, K3Co(CN)6, K2Ni(CN)4, and KAg(CN)2 at 298.15 K, Journal of Chemical & Engineering Data 63 (5), 1773-1779
- M Eskandari, MZ Khatir, AK Darban, M Meshkini, 2018 Decreasing Ni, Cu, Cd, and Zn heavy metal magnetite-bentonite nanocomposites and adsorption isotherm study, Materials Research Express 5 (4), 045030
- B Koohestani, AK Darban, E Darezereshki, P Mokhtari, E Yilmaz 2018, The influence of sodium and sulfate ions on total solidification and encapsulation potential of iron-rich acid mine drainage in silica gel, Journal of Environmental Chemical Engineering 6 (2), 3520-3527.
- M Mohammadiun, B Dahrazma, SF Saghravani, A Khodadadi Darban, 2018, Using selective sequential extraction techniques to evaluate tendency of soil fractions in Cd removal by Fe3O4 nanoparticles in continuous flow system, Journal of Mining and Environment 9 (2), 473-484
- Y Kianinia, MR Khalesi, M Abdollahy, G Hefter, G Senanayake, A K. Darban, 2018, Predicting cyanide consumption in gold leaching: A kinetic and thermodynamic modeling approach, Minerals 8 (3), 110
- H Arabyarmohammadi, AK Darban, SE van der Zee, M Abdollahy, B Ayati, 2018, Fractionation and leaching of heavy metals in soils amended with a new biochar nanocomposite, Environmental Science and Pollution Research 25 (7), 6826-6837
- B Koohestani, AK Darban, P Mokhtari, E Yilmaz, E Darezereshki, 2018 Comparison of different natural fiber treatments: a literature review, International Journal of Environmental Science and Technology, 1-14
- M Mohammadiun, B Dahrazma, SF Saghravani Ahmad Khodadadi Darban, 2018 Using Selective Sequential Extraction Techniques to Evaluate the Tendency of Soil Fractions in Cd Removal by Fe3O4 Nanoparticles in Continuous Flow System,… Journal of Mining and Environment,

Hoda Arabyarmohammadi, Ahmad Khodadadi Darban, Mahmoud Abdollahy, Bita Ayati, 2018, Simultaneous immobilization of heavy metals in soil environment by pulp and paper derived nanoporous biochars, Journal of Environmental Health Science and Engineering, 16, 109-119.

Most of International Journal Publication 2017

TMI

Dr. A. Khodadadi, Geoenvironmental Professor

M Shahverdi, A Khodadadi Darban, M Abdollahy, 2017 Investigation of effect of sulfate ion on xanthate consumption in galena flotation based on thermodynamic diagrams... - Journal of Mining and Environment

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M Rahimi, A Khodadadi, B Ayati, 2017, Photolysis system performance in petroleum hydrocarbons removal from wastewater and its modeling, Journal of civil engineering (journal of school of engineering) 28 (216), 1-8

M Hasani, A Khodadadi, SMJ Koleini, AH Saeedi, AM Meléndez, 2017, Simultaneous leaching of Pt, Pd and Rh from automotive catalytic converters in chloride-containing solutions, Journal of Physics: Conference Series 786 (1), 012042

M Hasani, A Khodadadi, SMJ Koleini, AH Saeedi, Y Pérez-Pacheco, 2017 Platinum leaching from automotive catalytic H Arabyarmohammadi, AK Darban, SE van der Zee, 2017, Fractionation and leaching of heavy metals in soils amended with a new biochar nanocomposite ··· - Environmental Science and Pollution Research, pp 1-12.

M Shahverdi, A Khodadadi Darban, M Abdollahy, 2017 Investigation of effect of sulfate ion on xanthate consumption in galena flotation based on thermodynamic diagrams... - Journal of Mining and Environment

H Ijadpanah- Saravi, M Safari, B Noruzi- Masir, AK Darban, P Bakhshi, 2017 Intelligent tools to model photocatalytic degradation of beta- naphtol by titanium dioxide nanoparticles

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FI Tameh, G Asadollahfardi, AK Darban, 2017, Mathematical model for reactive transport of heavy metals in soil column: Based on PHREEQC and HP1 simulators, Advances in environmental research-an international journal 6 (1), 67-81

B Safavi1a, G Asadollahfardi, A khodadadi Darban, 2017 Cyanide removal simulation from wastewater in the presence of titanium dioxide nanoparticles, Advances in nano research 5 (1), 27-34

H Arabyarmohammadi, AK Darban, M Abdollahy, R Yong, B Ayati, 2017 Utilization of a Novel Chitosan/Clay/Biochar Nanobiocomposite for Immobilization of Heavy Metals in Acid Soil Environment, Journal of Polymers and the Environment, 1-13.

G Asadollahfardi, M Nasrollahi, M Rezaee, AK Darban, 2017, Nickel removal from low permeable kaolin soil under unenhanced and EDTA-enhanced electrokinetic process, Advances in Environmental Research 6 (2), 147-158

M Rahimi, A Khodadadi, B Ayati, 2017, Photolysis system performance in petroleum hydrocarbons removal from wastewater and its modeling, Journal of civil engineering (journal of school of engineering) 28 (216), 1-8

M Hasani, A Khodadadi, SMJ Koleini, AH Saeedi, AM Meléndez, 2017, Simultaneous leaching of Pt, Pd and Rh from automotive catalytic converters in chloride-containing solutions, Journal of Physics: Conference Series 786 (1), 012042

M Hasani, A Khodadadi, SMJ Koleini, AH Saeedi, Y Pérez-Pacheco, 2017 Platinum leaching from automotive catalytic converters with aqua regia, Journal of Physics: Conference Series 786 (1), 012043converters with aqua regia, Journal of Physics: Conference Series 786 (1), 012043

Most of International Journal Publication 2016



G S Saeidnia, G Asadollahfardi, AK Darban, M Mohseni, 2016, Simulation of antimony adsorption on nano-zero valent iron and kaolinite and analyzing the influencing parameters, Water Science and Technology.

A Hooshmandfar, B Ayati, AK Darban, Optimization of material and energy consumption for removal of Acid Red 14 by simultaneous electrocoagulation and electroflotation Water Science and Technology 73 (1), pp. 192-202. S Saeidnia, Asadollahfardi AK Darban, 2016, Simulation of adsorption of antimony on zero-valent iron nanoparticles coated on the industrial minerals (kaolinite, bentonite and perlite) in mineral effluent, Desalination and Water Treatment.

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F Jafari, S Javadi, G Golmohammadi, K Mohammadi, A Khodadadi, 2016, Groundwater risk mapping prediction using mathematical modeling and the Monte Carlo technique, Environmental Earth Sciences 75 (6), 491

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