



Dr. A. Khodadadi, Visiting Professor of Environmental Engineering, NEWRI.

25 July 2018

Dr. A K. Darban

Visiting Scholar at NERRI (**Nanyang Environment & Water Research Institute**)

1 Cleantech Loop, CleanTech One #06-08, Singapore 637141
(Off Nanyang Avenue/Cleantech View)
T 65-65923015 and Mobile and what up No. Phone: +6598686590

Education:

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 Experiences:

- ❖ in courses *Soil Behavior, 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*

❖ Research Skills:

- ❖ *Soil contamination and remediation, hazardous waste management and treatment, industrial waste water treatment, nano and bio application in for waste wastewater treatment*

Skills and Qualifications:

Skills with Finite Element and Finite Difference Software ground water quality and water resources

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
Mike II	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 water quality	Flexible, 3-D finite difference model, designed to simulate flow, and sediment and contaminant transfer in stream catchments.
HSPF	Stream hydrology and water quality	Integrated modeling system to simulate runoff and water quality (e.g. nutrients, pesticide, sediments) 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 quality	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 quality	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 and geochemistry	Suite of models providing capability to simulate groundwater recharge and flow and solute transport.
Mike-SHE	Stream and groundwater hydrology and water quality	Advanced, integrated modeling system for simulating hydrological processes in linked surface and groundwater systems, including evapotranspiration, runoff, discharge, groundwater recharge and 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)

Ultraviolet 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 publed over 350 National and International conference and Journal papres

Most of International Journal publication 2017

, B., 2012, Nano, bio adsorption of uranium by iron oxide coated on sugar cane



Dr. A. Khodadadi, Visiting Professor of Environmental
Engineering, NEWRI.

Int. Proceeding Conf. papers.

1. Darban, A. K., Yong R. N., Mohamed, A. M. O, (1995). Multi Component Contaminant Transport Of Heavy Metals in Clay Barrier System, Second Civil Engineering Graduate Students Society, CEGSS Conference at McGill University. March 16, 1995.
 2. Hart, J., Darban A. K., Logrange, J., Hadjinicolaou J., (1995). An Environmental Audit of a Deinking Plant: Regulatory Issue”, CEGSS Conference at McGill University, March 16, 1995.
 3. Hart, J., Darban, A. K., Logrange, J., Hadjinicolaou , J., (1995). Proposed Fixed Crossing Linking Prince Edward Island and New Brunswick Across the Northumberland Strait EIA Risk-Scoring Methodology, CEGSS Conference at McGill University, March 16, 1995.
 4. Darban A. K., Yong, R N., and Mohamed, A. M., (1997). The Role of Organic and Inorganic Complexing Agents on the Heavy Metals Partitioning in Clay Barrier, Fourth CEGSS conference at McGill University, April 14, 1997.
 5. Darban A. K., Yong, R N., and Mohamed, A. M., (1997). Migration of Multi-Component Contaminants of Heavy Metals in a Landfill Bottom Liner, 19th Canadian Waste Management Conference in St. John’s Newfoundland, September 15-18, 1997.
 6. Yong, R. N., Darban, A. K., (1998). Modeling Complexation Influence on Heavy Metals Transport In Clay Barrier, International Conference on Computer Applications in Environmental Engineering 29-30 September 1998, Selagor, Malaysia
 7. Darban, A. K. , Foriero, A. K., Yong, R. N., (1999). The Influence of Clay Mineralogy on the Retention of Heavy Metals in Acidic Environments, Mineralogy and Environment conference, 7–8 January 1999, University of Aberdeen, U. K.
 8. Darban A. K., L, Halim, A. O., and Haas, (1996). Long Term Performance of Asphalt Concrete Pavement Presented in CCEISC Conference, Montreal, July 20, 1996, pp 379-386.
 9. Darban A. K., Yong, R. N., and Mohamed, A. M., (1997). Prediction of Multi-Component Radioactive Waste Migration in Clay Barrier Via Coupled Solute Transport and Chemical Equilibrium Speciation”, 22d CAN/CNS Annual Student Conference, March 13-15 New Brunswick, Canada, pp 91-96.
 10. Darban, A. K., Foriero, A. and Yong, R. N., (2000). The Effect of Soil Composition, Moisture Content on Dry density and Hydraulic Conductivity of Clayey Soils, ASTM, STP 1384, Constructing and Controlling Compaction of Earth Fills, Edited by D W Shanklin 336 pages., 2000.
 11. Darban, A. K., Foriero, A., and R.N. Yong (2000). Concentrations Effects of EDTA and Chloride On Retention of trace Metals in Clays , Engineering Geology Journal, Elsevier Publication, Volume 57, Issue 1-2, June 2000 pp 81 - 94.
-

12. Darban, A. K, Foriero, A. K., Yong, R. N., (1999). Evaluation of EDTA and Sodium Acetate to Remediate Different Clay Compacted Soil Contaminated with Lead, Canadian Geotechnical Conference, Saskatewan, 23-26 Oct.1999, pp 709-717.
 13. Darban, A. K. , Foriero, A. K., Yong, R. N., (1999). Hydro-Thermal and Geo-Chemical Mass Transport of Heavy Metals in Groundwater, NRC Water Conference, Sep. 1999, Toronto, Canada.
 14. Darban, A. K., Foriero, A. K., Yong, R. N. (1999). Modelling the Transport of Multi-component Contaminants in Groundwater, International Conference on Calibration and Reliability in Groundwater Modelling Coping with uncertainty, September 20-23, 1999, Swiss Federal Institute of Technology Zürich (ETH), Switzerland.
 15. Foriero A., Darban, A. K. A, Yong, R. N. (1999). Modeling the Complexation Effect on the Transport of Lead through Compacted Clay Soils, Hazard Assessment and Control of Environmental Contaminants, Ecohazard 99, 3rd IAWQ Specialized Conference, 5-8 December 1999, Shiga, Japan.
 16. Darban, A. K., Foriero, A. and Yong, R. N., (2000). Environmental Effects of Sodium Chloride on De-icing of Pavement Surfaces, SNOW 2000, Transportation Research Board, TRB Symposium, Sep. 2000.
 17. Khodadadi, A. Kheradmand & R.N. Yong Manganese and Iron Removal from Groundwater Thorough Aeration : Water Pollution 2003, 18 - 20 June 2003, Cadiz, Spain.
 18. A.K. Darban, and R.N. Yong (2002), Remediation of Lead-contaminated Compacted Clays, Proceeding of Oman International Conference on Waste Management, Muscat, Oman, Dec 16-18.
 19. Darban, A. K, Yong, R. N., 2003, Remediation of lead contaminated compacted clays, Masqat, Oman, pp 1-8
 20. A.Khodadadi, and A.Hajati, and M Koeini, 2003, The Study of Degree of Liberation of Zinc and Iron Oxide Minerals from Tailing of Goshfil Mine in Iran, Proceeding of International Seminar on Mineral Processing Technology, Goa, India, pp 74-80.
 21. Gonbadi, Taheri, Khodadadi, 2004, Assessing Changing in Permeability and pH of Sand Mixed Due to Oil Contamination, Proceedings of Int. Conf. of Geotechnical and Geoenviromental Eng. Sharejeh, United Arab Emirates.
 22. Darban, A. K. Yong, R., 2004, Prediction of Multi-Component Radioactive Waste Migration in Clay Barrier via Coupled Solute Transport and Chemical Equilibrium Speciation, Proceedings of Int Conf. Of low Radioactive Waste, Cordoba, Spain. pp 71-75.
 23. Khodadadi., M. Abdlahi, P. Teimuri, 2005 Cyanide removal from the wastewater of Muteh gold processing plant using hydrogen peroxide, World Mining Cong.,Tehran, 7-11 Nov. 2005, pp 137-140.
 24. Khodadadi, A. Shojaosadati, A. Yarghi, 2005 Recovery of Zinc from Low-grade Ores by Aspergillus Niger, World Mining Cong.,Tehran, 7-11 Nov. 2005, pp 813-817.
-

25. Khodadadi., M. Abdlahi, P. Teimuri, 2005 Cyanide removal from the wastewater of a gold processing plant using calcium and sodium hypochlorite, Int. Conf. Gold Processing, Calgary, Canada, 23-27 Sep. 2005.
 26. K. Darban, A. Moradkhani, M. Moghadam, R. Gheitasi, (2006) Production of ZnO powder using precipitation transformation method, International Congress on Nanoscience and Nanotechnology in Iran (ICNN2006) Congress Proceedings.
 27. Darban, A. K, Yosefi, D, 2006, Bioremediation of TPH Contaminated Soils with Urban Sewage Sludge, Malaysia.
 28. Darban, A. K, Rahmani, A. Koleini, J., 2007, A Study on Leaching Behavior of Copper Oxide Ore f Sarcheshmeh Mine, MPT congress, Mumbai, India.
 29. Abdolahi, M., Darban, A.K., Karmi, A., 2007, Optimization of Roasted Sphalerite Concentrate Leaching Conditions to Dissolve Maximum Amount of Indium, MPT congress, Mumbai, India.
 30. Farzanegan, A., Darban, A.K., Azami, M, 2007, Calculation and Scale Up of Breakage and Selection Functions of Sangam Iron Ore From a Laboratory Ball Mill, MPT congress, Mumbai, India.
 31. Darban, A.K., Rabieh, A., 2007, Mathematical Modeling of Oxide Copper Heap Leaching, MPT congress, Mumbai, India.
 32. Salari, M, Darban, A.K., Prediction of AMD Using Kinetic Methods in Songon Mine, MPT congress, Mumbai, India.
 33. Darban, A.K, Erfani, A., 2008, Nanoclay for the Removal of Heavy Metals from Aqueous Solutions, Int. cong. On Env. Eng. Girson, Turkey.
 34. Ebadi, T., Andalib A., and Darban, A.K., 2008, Effect of a non-ionic surfactant solution on removal of Naphthalene, 1-Methylnaphthalene and 1Ethyl naphthalene from artificially crude oil, Int. cong. On Env. Eng. Girson, Turkey.
 35. K. Darban, Salehi, Kokabi, Hassani, (2008), The effect of nano clay on long term performance of asphalt, Paper published TRA 2008 conference in April 2008 in Ljubljana, Slovenia.
 36. Darban, A.K, Ganjidout, H., Habibi, M., 2008, The effect of Tehran oil refineries on groundwater pollution in the Vicinity area, Int. cong. On Env. Eng. Girson, Turkey.
-

37. Darban, A.K, Partani, S., 2008, Assessment of sample frequency for surface water quality evaluation using water framework directive, Int. cong. On Env. Eng. Girson, Turkey.
 38. Darban, A.K., Salehian, E., 2008- Remediation of Diesel Contaminated Soils Using Anionic Surfactantse, Int. cong. On Env. Eng. Girson, Turkey.
 39. Darban. A.K., Ahamdi, M., 2010, Heavy Metal Removal from Waste Waters by Ion Flotation, 15th ICHMET, Poland.
 40. Sedaght B., Darban, AK., Moradkhani, J., Kolehini, S.J. 2010, Study of the Effective Parameters to Transport of Heavy Metals from Zinc Leaching Plant Residue to the Environment, 15th ICHMET, Poland.
 41. A.Shahbazi, A.K. Darban, S. J. Kolehini and H. Shadi 2015 , Use of Coated Magnetic Nanoparticles with Cyanex272 for Heavy Metal Removal Extraction from Wastewater
International Conference on Chemical, Environmental and Biological Sciences (CEBS-2015) March 18-19, 2015
Dubai UAE. pp 186.190.
-

International Journal Publications

Darban, A. K., Foriero, A., Yong, R. N., 2000, Concentrations effects of EDTA and chloride on retention of trace metals in clay, *Engineering Geology Journal* 57, pp 81-94, Elsevier Publication.

S. Ghasemi- A Khodadadi and M. Mohamed, 2002, Recycling of Heavy Metals from Wastewater through Bacteria Reduction, *Modares Technical and Engineering*, No. 9 University pp 71-77.

Darban, A. K. 2005, The Influence of soil composition on permeability and transport of lead and zinc, *Modares Engineering Journal*, pp -12, Tehran, Iran.

K. Darban and M. Salary, 2005, The Influence of Clay Mineralogy on the Retention of Heavy Metals in Acidic Environments, No. 18 Winter 2005, *Modares Technical and Engineering Journal*, pp 124-128.

Khodadadi., M. Abdlahi, P. Teimuri, (2005), Detoxification of Cyanide in a Gold Processing Plant Tailings Water Using using hydrogen peroxide, *Iranian Journal of Environmental Health Science and Engineering*, Vol. 2, pp 177-182.

Khodadadi, M. Fakhri and H.R. Amiri, Hosseini, 2005, The effes of Geosynthetics on Fatigue Life of Asphalt Pavements, *Iranian Journal of Transportation Research*, Vol 2. No. 2 2005, pp 137-145.

Sabzali, A. Khodadadi, A., 2006, Chemical Denitrification of Nitrate from Groundwater via Sulfamic Acid and Zinc Metal, *Iranian Journal of Environmental Health Science and Engineering*, 141-148.

Yousefi, D. Khodadadi, A., Badkoubi, A., 2006, Bioremediation of TPH-contaminated soil with municipal compost, *Environmental Engineering and Management Journal* 5, 1313-1324 .

Khodadadi., M. Abdlahi, P. Teimuri, (2007), Detoxification of Cyanide in a Gold Processing Plant Tailings Water Using Calcium and Sodium Hypochlorite, *Min Water, Technical Communication, Springer*, pp. 52-55.

Khodadadi, Farzanegan, Azami, M., 2007, A study on the specific rate of breakage of iron ore of Sangan mine in a laboratory ball mill, *Iranian Journal of Materials Science and Engineering* 57, pp 1-5.

Taheri, E., Yong, R., Khodadadi, A., 2007, Evaluation of Remediation Methods for Soil Contaminated with Benzo Pyrene, *Int .J. Environmental Research*, pp 341-348, ISI Journal.

Khodadadi, A. Monjezi, A., Mehrpoya, A., Dehgani, 2008, Geochemical modeling of cyanide in tailing dam gold processing plant, *Environment Geology*, Springer, , *Environ Geol* (2009) 58:1161–1166.

Khodadadi A., Yousefi, D. and Ganjidoost, 2009, Isolation and characterization of a novel native *Bacillus* strain, *Int . J. of science and technology (IJEST)*, vol 6. pp 1-10.

Fardi, A. G., Khodadadi, A., Garaylo, R., 2009, The Assessment of Effective Factors on Anzali Welland pollution Using Artificial Neural Networks, *Asain Journal of Water, Environment and pollution*, vol 7., pp 23-30.

Khodadadi, A, Amiri, H., 2009, The Effect of Geosynthetic Reinforcement On Damage Propagation Rate of Asphalt Pavements, *Iranica Scientia* 16, pp 26-33.

Asadollahfardi Gh, Khodadadi Darban A, Gharayloo R, 2009, Assessment of Effective factors on Anzali Wetland Pollution Using Artificial Neural Network, *Asian Journal of Water Environment and Pollution*, 2(7), 23-30.

Usefi Kebria D, Khodadadi Darban A, Ganjidoost H, Badkooei A, Amoozgar M. A., 2009, Isolation and characterization of a novel native *Bacillus* strain capable of degrading diesel fuel, *International journal of environmental science and technology*, 3(6), 435-442.

Siadi, A. R. Khodadadi A., Partani. S., 2009, Environmental Impact Assessment of Gotvand Hydro-Electric Dam on the Karoon River Using ICOLD Technique, WASAT 54, pp1-8.

Khodadadi A., Shojaosadati A., Yaraghi, A., 2009, Recovery of metal from low grade oxide minerals by using aspergillus niger, Mineral processing and Extractive Metallurgy 118, pp.110-121.

Darban A. K., Ayati, B., Yong, R.N. and Kiaee Arash., 2009, Enhanced Electrokinetic Remediation of Mercury-Contaminated Tailing Dam Sediments, 2010 Journal of ASTM International (JAI), Volume 6, Issue 5, pp. 1-11.

Sayadi A, Khodadadi Darban A, Partani S, 2009, Environmental impact assessment of gotvand hydro-electric dam on the karoon river using icold technique, World Academy of Science Engineering and Technology.

Darban, A. K., Yong R. N., and Ravaj, A., (2010), Coupled chemical speciation-solute transport model for prediction of solute transport in clay buffers, Applied Clay Science 47 (2010) 127–132.

Asadollahfardi Gh, Khodadadi Darban A, Gharayloo R, 2010, The Assessment of Effective Factors on Anzali Wetland Pollution Using Artificial Neural Networks, Asian Journal of Water Environment and Pollution, 2 (7), 23-30.

Hajati A, Khodadadi Darban A, Koleini S. M. J., 2010, Flotation of zinc oxide minerals from low-grade tailings by oxine and dithizone using the Taguchi approach, MINERALS METALLURGICAL PROCESSING, 3(27), 158-165.

Shirgir B, Hasani A, Khodadadi Darban A, 2011, Experimental Study on Permeability and Mechanical Properties of Nano-Modified Porous Concrete, TRANSPORTATION RESEARCH RECORD.

Khodadadi Darban A, Usefi K, Ganjidoost H, Yari M, 2011, Bioremediation of diesel-contaminated soil using Bacillus sp. (strain TMY-2) in soil by uniform and non-uniform electro kinetic technology field, Journal of Toxicology and Environmental Health Sciences, 15(3), 376-384.

Ahmad Khodadadi Darban Mokhtar Aazami, Angel M. Meléndez, Mahmood Abdollahy, Ignacio Gonzalez 2010, Electrochemical study of orpiment (As₂S₃) dissolution in NaOH Solution, Hydrometallurgy 105, pp 296-303.

Khodadadi Darban A, Azami M, Melendez A. M., Abdollahi M, Gonzalez G, 2011, Electrochemical study of orpiment (As₂S₃) dissolution in a NaOH solution, Hydrometallurgy, 3-4 (105), 296-303.

Khodadadi Darban A, Ganjidoost H, Seyed Razavi S. N., 2012, Treatment of crude-oil contaminated soil using biosurfactants, Journal of Petroleum and Gas Engineering, 6(3), 92-98.

Asadollahfardi Gh, Khodadadi Darban A, Peykani B, Samadi U, Asadollahfardi R, 2012, Application of multivariate statistical analysis to define water quality in Jajrud river, Asian Journal of Water Environment and Pollution, 4(9), 1-10.

Javanshir S, Abdollahi M, Abolghasemi H, Khodadadi Darban A, 2012, The effect of kinetics parameters on gold extraction by lewis cell comparison between synthetic and leach solution, Iranian journal of chemistry chemical engineering-international english edition,

A. Khodadadi, D. Yousefi, H. Ganjidoost¹ and M. Yari, 2011, Bioremediation of diesel-contaminated soil using Bacillus sp. (strain TMY-2) in soil by uniform and non-uniform electro kinetic technology field Journal of Toxicology and Environmental Health Sciences Vol. 3(15), pp. 376-384.

AH Andalib, H Ganjidoost, B Ayati, A Khodadadi, 2011, Investigation of Amount and Effective Factors on Trihalomethane Production in Potable Water of Yazd Iranian Journal of Health and Environment 4 (2), pp.137-148.

Behrooz Shirgir , Abolfazl Hassani , Ahmad Khodadadi, 2011, Experimental Study on Permeability and Mechanical Properties of Nanommodified Porous Concrete, .Transportation Research Record: Journal of the Transportation Research Board, 2011, Vol.2240 (-1), pp.30-35.

Asadollahfardi, G., Kodadadi, A and Yaghobi, F. (2011). Simulation of MTBE movement of groundwater in north of Tehran (fuel station) using Bioscreen model. Journal of water resources, Iran.

G. Asadollahfardi, A. Khodadadi, A. Azimi, M. Jafarnejad, M Shahoruzi, 2012, Multiple Criteria Assessment of Water Quality Monitoring System Karoon River, J. Int. Environmental Application & Science, Vol. 6 (3): 434-442

S Javadi, N Kavehkar, K Mohammadi, A Khodadadi, R Kahawita, 2011, Calibrating DRASTIC using field measurements, sensitivity analysis and statistical methods to assess groundwater vulnerability Water International 36 (6), 719-732.

S Javanshir, M Abdollahy, H Abolghasemi, AK Darban, 2011, Kinetics of Au (III) extraction by DBC from hydrochloric solution using Lewis cell International Journal of Mineral Processing 98 (1), 42-47

Khodadadi Darban. A, Ganjidoust, Razavi S., 2012, Treatment of oil contaminated soil using bio surfactants, Journal of Petroleum and Gas Engineering, vol. 3, No. 6, pp 92-98.

Darban, A. K., Yong R. N., and Marzban, M., (2012), Study of leachability of heavy metals from zinc flotation plant tailing , contaminant sediment STP of America, Vol. 5, No. 2, pp 275-283.

K Barani, SMJ Koleini, B Rezai, A Khodadadi, 2012, Effect of Sample Geometry and Placement on Iron Ore Processing by Microwave, Advanced Materials Research 488, 841-846.

A Akhondi, A Khodadadi Darban, H Ganjidoust, 2012, The effectiveness of electro coagulation process for the removal of cadmium from water, J water and wastewater 2, 85-92.

A Khodadadi, H Ganjidoust, H. Ibadpanah, 2012, Treatment and Kinetic of Synthetic Wastewater Containing β -naphthol by Nano Titanium Oxide Coated on Activated Carbon
Iranian Journal of Health and Environment 4 (4), 401-410

AM., Damuchali, G Asadollahfardi, A Khodadadi, 2012, Effective Parameter Predictions in Metals Transport from the Zanjan Zinc Mine Tailings using PHREEQ, Mine Water and the Environment 31 (4), pp.339-343.

Samadzade M, Tavakoli M, Khodadadi Darban A, 2013, Predicting arsenic behavior in the wastewater of Mouteh Gold Plant geochemical modeling, Journal Of Mining And Environment, 1(4), 57-65.

Ahmadi R, Khodadadi A, 2013, Modeling and Optimization of Nano-bubble Generation Process Using Response Surface Methodology, International Journal Of Nanoscience And Nanotechnology, 3(9), 151-162.

AK Darban, Y Kianinia, E Taheri-Nassaj, 2013, Synthesis of nano-alumina powder from impure kaolin and its application for arsenite removal from aqueous solutions J Environ Healt Sci Eng, pp. 11-19.

A.K. Darban, H Ganjdoust, E Salehian, A Khodadadi, 2013, Factors Affecting Site Remediation of diesel contaminated soils using surfactants, OIDA International Journal of Sustainable Development 6 (5), 39-46.

Asadollahfardi, G., Kodadadi, A and Yaghobi, 2013, UTCHEM Model Application for Prediction of Crude Oil Removal from Contaminated Sand Columns, *Journal of Geological Society of India* Vol.82, December 2013, pp.712-718, Iran.

Hooshmandfar A, Khodadadi Darban A, 2014, Using GeoStudio Model For Assessment of Leachate Migration through soil in Hoshanabad Azizbad Landfill of Tehran, *Journal of Middle East Applied Science and Technology*, 8(3), 371-374.

Alishahi S, Khodadadi Darban A, Abdollahi M, 2014, Prediction of recovery of gold thiosulfate on activated carbon using artificial neural networks, *Journal Of Mining And Environment*.

Tavakoli M, Khodadadi Darban A, Tjvidi E, 2014, Geochemical modelling of mercury in tailing dam of gold processing plant, *Journal of Mines Metals and Fuels*, 4 (26), 105-111.

Komeilian H, Ganjidoost H, Khodadadi Darban A, 2014, Parametric Analysis for Dust Plumes Modeling using MODIS Data over Khuzestan Province Iran, *Journal of Middle East Applied Science and Technology*.

H. Ijadpanah-Saravi, S Dehestaniathar, A Khodadadi, M Safari, 2014, Optimization of photocatalytic degradation of β -naphthol using nano TiO₂-activated carbon composite, *Desalination and Water Treatment*, pp.1-12.

S Alishahi, A Darban, M Abdollahi, 2014, Prediction of recovery of gold thiosulfate on activated carbon using artificial neural networks, *Journal of Mining and Environment* 5 (1), 55-66.

SA Milani, B Rahnama, AK Darban, 2014, Adsorptive Removal and Recovery of U (VI) from Single Component Aqueous Solutions by Sugarcane Bagasse Impregnated with Magnetite Nanoparticles, *Journal of Nuclear Science and Technology*, Number 1 (67); pp. 49-62.

R Ahmadi, DA Khodadadi, M Abdollahy, M. Fan, 2014 Nano-microbubble flotation of fine and ultrafine chalcopyrite particles, *International Journal of Mining Science and Technology* 24 (4), pp.559-566.

B Rahnama, AK Darban, S Milani, 2014, Magnetic nano-biosorption of heavy metal from aqueous solutions using sugarcane bagasse, *Iranian Journal of Science and Technology. Transactions of Civil Engineering*, Vol. 38, Issue C1, page 137.

H Ijadpanah-Saravy, M Safari, A Khodadadi-Darban, A Rezaei, 2014, Synthesis of Titanium Dioxide Nanoparticles for Photocatalytic Degradation of Cyanide in Wastewater *Analytical Letters* 47 (10), 1772-1782.

G Asadollahfardi, A Ghanbari, P Esmaily, SAA Hosseini, 2014, Application of the Cylindrical Model to Predict Subsidence at Ngatamariki Geothermal Plant, *New Zealand Journal of Engineering Geology* 8 (1), 1917.

B. Rahnama, AK Darban, S Milani, 2014, Magnetic nano bio sorption of heavy metals from aqueous solution using sugarcane bagasse, *Iranian journal of Science and Technology, Transaction of civil Engineering*, Vol. 38, 137-146.

H Ijadpanah-Saravi, M Zolfaghari, A Khodadadi, P Drogui, Synth Synthesis, characterization, and photocatalytic activity of TiO₂-SiO₂ nanocomposites esis, characterization, and photocatalytic activity of TiO₂-SiO₂ nanocomposites, *Desalination and Water Treatment*, 1-9, 2015.

MG Rahimi, A Khodadadi, B Ayati, 2015, Investigation of Moving Bed Biofilm Reactor Capability in Treating Wastewater Containing Petroleum and Gas oil., *Modares Journal of Civil Engineering* 15 (2).

A Kiayee, MMR Tavakoli, A Khodadadi, 2015, Investigation of electrokinetic method efficiency in the removal of mercury from contaminated clayey soil, *Journal of Tethys: Vol. 1, No. 4*, 266-281.

N Nosrati, AK Darban, M Abdollahi, 2015, Antimony Adsorption from Zarshouran Gold Mineral Processing Plant Wastewater by Nano Zero Valent Iron Coated on Bentonite, *Water Wastewater* 26 (1), 46-56.

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*.

M Hasani, SMJ Koleini, A Khodadadi, 2016, Kinetics of Sphalerite Leaching by Sodium Nitrate in Sulfuric Acid, *Journal of Mining and Environment* 7 (1), 1-12.

Kiani nia Y, Khodadadi Darban A, Taheri Nasaj E, Rahnaie Moghadam B, Forootan A, 2015, Synthesis of Nano Sized Mesoporous Gama Al₂O₃ Powder from Domestic Hamedan Kaolin, *Iranian Journal Of Materials Science And Engineering*, 1 (12), 59-65.

Khodadadi Darban A, Darabi H, Shahverdi M. R., Khodadadi A, 2015, Possibility of sodium cyanide elimination from a flotation process, *Advances in Environmental Accounting and Management*, 1(1), 189- 193.

Ijadpanah Saravi H, Khodadadi Darban A, 2015, Synthesis characterization and photocatalytic activity of TiO₂ SiO₂ nanocomposites, *Desalination and water treatment*, 31 (57), 14647- 14655.

Ijadpanah Saravi H, Dehestani A. S., Khodadadi Darban A, Zolfaghari M, Saeedzade S, 2015, Photocatalytic decomposition of cyanide in pure water by biphasic titanium dioxide nanoparticles, *DESALINATION AND WATER TREATMENT*, 1-8.

Most of International Journal Publication 2016

74.G Asadollahfardi, AK Darban, N Noorifar, M Rezaee, 2016, Mathematical simulation of surfactant flushing process to remediate diesel contaminated sand column, *Advances in Environmental Research* 5 (4), 213-224

S Saeidnia, G Asadollahfardi, A Khodadadi 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* 57 (47), 22321-22328

76.H Ijadpanah-Saravi, S Dehestaniathar, A Khodadadi-Darban, 2016, Photocatalytic decomposition of cyanide in pure water by biphasic titanium dioxide nanoparticles, *Desalination and Water Treatment* 57 (43), 20503-20510

77.H Ijadpanah-Saravi, M Zolfaghari, A Khodadadi, P Drogui, 2016, Synthesis, characterization, and photocatalytic activity of TiO₂-SiO₂ nanocomposites, *Desalination and Water Treatment* 57 (31), 14647-14655

78.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* 73 (10), 2493-2500

79 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

80. H Ijadpanah-Saravi, S Dehestaniathar, A Khodadadi, M Safari, 2016, Optimization of photocatalytic degradation of β -naphthol using nano TiO₂-activated carbon composite, *Desalination and Water Treatment* 57 (10), 4708-4719

81. A Hooshmandfar, B Ayati, AK Darban, 2016, Optimization of material and energy consumption for removal of Acid Red 14 by simultaneous electrocoagulation and electroflotation *Water Science and Technology* 73 (1), 192-202
82. M Moshtagh, A Khodadadi, MJ Kalini, H Arabyarmohammadi, 2016 , Transfer of heavy metals from the tailings dam and its reduction using activated carbon plant, bauxite Jajarm, Iranian journal of mining engineering (IRJME) 10 (29), 31-39
83. AK Darban, H Arabyarmohammadi, M Abdollahy, B Ayati, 2016, The Role of Nanoporous Biochars Functional Groups for Immobilization of Heavy Metals in Aqueous Solution, *Materials Science Forum* 860, 43-46
- M Hasani, SMJ Koleini, A Khodadadi, 2016 , Kinetics of sphalerite leaching by sodium nitrate in sulfuric acid, *Journal of Mining and Environment* 7 (1), 1-12
84. 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.
85. 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*
86. H Ijadpanah-Saravi, M Safari, B Noruzi-Masir, AK Darban, P Bakhshi, 2017 Intelligent tools to model photocatalytic degradation of beta-naphthol by titanium dioxide nanoparticles
Journal of Chemometrics 31 (9)
87. 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
88. 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
89. 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.
90. 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
91. 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
92. 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
93. 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), 012043

Most of Journal **Publication 2018**

94. 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
-

95. 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
96. B 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.
97. 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
98. 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.
99. Y Kianinia, L Hnedkovsky, G Senanayake, C Akilan, MR Khalesi, A. K. Darban, 2018, Heat Capacities of Aqueous Solutions of $K_4Fe(CN)_6$, $K_3Fe(CN)_6$, $K_3Co(CN)_6$, $K_2Ni(CN)_4$, and $KAg(CN)_2$ at 298.15 K, *Journal of Chemical & Engineering Data* 63 (5), 1773-1779
100. 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
101. 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.
102. 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 Fe_3O_4 nanoparticles in continuous flow system, *Journal of Mining and Environment* 9 (2), 473-484
103. 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
104. 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
105. 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
106. 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 Fe_3O_4 Nanoparticles in Continuous Flow System,... - *Journal of Mining and Environment*,
-