

CURRICULUM-VITAE

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Positions:

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| 1999-2010 | Assistant Professor, Department of Natural Resources, Isfahan University of Technolgy, Isfahan, Iran |
| 2001-2003 | Head of Environment Division, Department of Natural Resources, Isfahan University of Technology |
| 2003-2011 | Graduate Coordinator, Department of Natural Resources, Isfahan University of Technology |
| 2010-present | Associate Professor, Department of Natural Resources, Isfahan University of Technolgy, Isfahan, Iran |

Education:

Ph.D., Geoscience and Environment, INPL, Nancy, France, 1999

M.Sc, Geoscience, University of Louis Pasteur, Strasbourg, France, 1994

B.Sc., Geology, Tabriz University, Tabriz, Iran, 1991

Teaching experiences:

Undergraduate:

Water and soil pollution

Solid waste management

Agriculture and environment

Graduate:

Industrial pollution

Waste recycling

Trace elements in environment

Research interests:

Environmental pollution monitoring

Waste recycling

Production of adsorbents from solid wastes

Use of adsorption/biosorption processes for water and wastewater treatment

Thesis advisor:

30 MSc students and 4 PhD students

Publications:

1. Jazini R., Soleimani M., & **Mirghaffari N.**, Characterization of barley straw biochar produced in various temperatures and its effect on lead and cadmium removal from aqueous solutions, *Water and Environment Journal*, 2017, 1-9.
2. Yaghoobi Rahni S., Rezaei B., **Mirghaffari N.**, Bentonite surface modification and characterization for high selective phosphate adsorption, *Journal of Water Reuse and Desalination*, from aqueous media and its application for wastewater treatments, 07.2, 2017, 175-186.
3. Shokri Khoubestani R., **Mirghaffari N.**, & Farhadian O., Removal of Three and Hexavalent Chromium from Aqueous Solutions Using a Microalgae Biomass-Derived Biosorbent, *Environmental Progress & Sustainable Energy*, 34 (4), 2015, 949-956.
4. Mohammadi S., & **Mirghafari N.**, Optimization and Comparison of Cd Removal from Aqueous Solutions Using Activated and Non-activated Carbonaceous Adsorbents Prepared by Pyrolysis of Oily Sludge, *Water, Air Soil Pollution*, 2015, DOI 10.1007/s11270-014-2237-x.
5. **Mirghaffari N.**, Moeini E., & Farhadian O., Biosorption of Cd and Pb ions from aqueous solutions by biomass of the green microalga, *Scenedesmus quadricauda*, *Journal of Applied Phycology*, 27, 2015, 311-320.
6. Mohammadi S., & **Mirghafari N.**, A preliminary study of the preparation of porous carbon from oil sludge for water treatment by simple pyrolysis or KOH activation, *New Carbon Materials*, 30 (4), 2015, 310-318.
7. Razavi Z., **Mirghafari N.**, Rezaei B., Performance Comparison of Raw and Thermal Modified Rice Husk for Decontamination of Oil Polluted Water. *Clean-Soil, Air, Water*, 43 (2), 2015, 182-190.
8. Razavi Z., **Mirghafari N.**, Rezaei B., Adsorption of crude and engine oils from water using raw rice husk, *Water Science and Technology*, 69.5, 2014, 947–952.
9. Yaghoobi Rahni S., **Mirghaffari N.**, Rezaei B., & Ghaziaskar S. H., Removal of Phosphate from Aqueous Solutions Using a New Modified Bentonite-Derived Hydrogel, *Water, Air Soil Pollution*, 2014, DOI 10.1007/s11270-014-1916-y.
10. Chavoshi E., Afyuni, M., Hajabbasi M. A., Khoshgoftarmanesh A. H., Abbaspour K. C., Shariatmadari H. and **Mirghafari N.**, Health Risk Assessment of Fluoride Exposure in Soil, Plants, and Water at Isfahan, Iran, *Human and Ecological Risk Assessment*, 17, 2011, 414–430.
11. Nemati Varnosfaderany M., Ebrahimi E., **Mirghaffari N.** and Sofyanian A.R., Biological assessment of the Zayandeh Rud River, using benthic macroinvertebrates, *Limnologica* 40, 2010, 226-232.
12. Nemati Varnosfaderany M., **Mirghaffari N.** Ebrahimi E. and Sofyanian A.R., Water quality assessment in an arid region using a water quality index, *Water Science and Technology-WST*, 60.9, 2010, 2319-2327.

13. Kelishadi R., **Mirghaffari N.**, Poursafa P. & Gidding S. S., Lifestyle and environmental factors associated with inflammation, oxidative stress and insulin resistance in children, *Atherosclerosis*, 203, 2009, 311–319.
14. Asadi F., Shariatmadari H. and **Mirghaffari N.**, Modification of rice hull and sawdust sorptive characteristics for remove heavy metals from synthetic solutions and wastewater, *Journal of Hazardous Materials*, 154, 2008, 451-458.
15. **Mirghaffari N.** and Khajeddin S. J., Lead, zinc and cadmium uptake by plant species grown on metalliferous mine waste in the semiarid region of central Iran, *Recycling and waste treatment in mineral and metal processing: technical and economic aspects*, Vol. 2, 16-20 Juin 2002, Luleå, Sweden, 283-291.
16. Gaballah I., Haussard M., **Mirghaffari N.**, Joussemet R. et Kilbertus G., Dépollution des effluents par des échangeurs d'ions naturels, *IM Environment*, n° 7, 1999, pp. 7-12.
17. Haussard M., Chape P., **Mirghaffari N.**, Gaballah I. and Mourey A., Lipid removal from effluent by grafted bark, *Pathway and Consequence of the Dissemination of Polluants in the Biosphere*, 21-23 Mai 1998, Prague.
18. Haussard M., **Mirghaffari N.**, Gaballah I. et Mourey A., Elimination des graisses contenus dans les effluents par déchets forestiers, 7^{ème} Séminaire du L.E.M. (Laboratoire Environnement Minéralurgie), Vandoeuvre les Nancy, France, 10 et 11 Mars 1998, pp. 80-88.
19. Gaballah I., Haussard M., Kilbertus G., **Mirghaffari N.** and Reddy B.R., Use of Natural by-products or wastes for Effluent decontamination, *Global Metals Environment 99 (GME 99)*, Beijing, China, May 1999.
20. Reddy B.R., **Mirghaffari N.** and Gaballah I., Removal of bivalent Cu, Cd, Hg and Pb ions from synthetic solutions using Indian modified bark, 6^{ème} Vandoeuvre les Nancy, France, 7 et 8 Avril 1998, pp. 14-19.
21. Reddy B.R., **Mirghaffari N.** and Gaballah I., Removal and recycling of copper from aqueous solutions using treated Indian barks, *Resources Conservation and Recycling*, 21, 1997, pp. 227-245.
22. **Mirghaffari N.**, Gaballah I. and Kilbertus G., Utilisation des résidus agricoles pour chélater les métaux lourds présents dans les effluents industriels, 7^{ème} Séminaire du L.E.M. (Laboratoire Environnement Minéralurgie), Vandoeuvre les Nancy, France, 10 et 11 Mars 1998, pp. 88-92.
23. **Mirghaffari N.**, Chennouf S., Gaballah I., Utilisation des déchets organiques pour l'extraction des métaux lourds contenus dans les effluents, 6^{ème} Séminaire du L.E.M. (Laboratoire Environnement Minéralurgie), Vandoeuvre les Nancy, France 7 et 8 Avril 1997, pp. 78-82.
24. **Mirghaffari N.**, Chennouf S., Gaballah I. and Kilbertus G., Use of agricultural wastes for eliminating heavy metals ions from synthetic solutions, *Global Symposium on Recycling, Waste Treatment and Clean Technology (REWAS 99)*, Septembre 5 – 9, 1999, Spain.

Research projects:

- 1- Production of zeolite from stone cutting wastes and its application for wastewater treatment
- 2- Production of activated carbon from oily sludge of petroleum refinery
- 3- Use of rice hull for removal of heavy metal from industrial wastewater
- 4- Use of blast furnace slag as sorbent in water and wastewater treatment
- 5- Determination of waste generation rate in the industrial towns
- 6- Determination of heavy metal concentration in some natural plant species around Irankouh lead and zinc mine in Isfahan
- 7- Investigation on the use of saline wastewater of Zobahan factory for greenbelt irrigation
- 8- Determination of fluoride concentrations in water, soil and some of crops in Isfahan-Iran
- 9- Investigation of heavy metal pollution in water, soil and plants around Ahangaran lead and zinc mine in Malayer-Iran
- 10- Solid waste and environmental pollution management in the gas stations and distribution network of Isfahan city-Iran