



Curriculum Vitae
Dr. S.M.Moosavirad

PERSONAL

Date of Birth: September 11, 1980
Nationality: Iran
Sex: Male

CURRENT POSITION

Associated Professor
Faculty of engineering
Department of Environment
Institute of Science and High Technology and Environmental Sciences
Graduate University of Advanced Technology
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EDUCATION

Ph.D., Mining Engineering, Environmental Geochemistry 2010
M.S., Mining Engineering, 2004

AWARDS

- 1) Award and Medal of Honor in Journal of Applied Geochemistry – Hyderabad for the best paper published in 2010
S. M. Moosavi Rad and M. Shankara, Extraction of REE (Y, CE and LA) from Uranium Leaching Solution of Yazd Saghand Area, Iran-A Case Study, Journal of Applied Geochemistry Vol. 12, No.2, 2010. (Supported by Indian Society of Applied Geochemistry)
- 2) Award of Competent student PhD student of the Vice Ministry of Science, Research and Technology
- 3) Patent of making pond of rapid mixing of fluids in the process of coagulation and flocculation for industrial and mining areas

REAEARCH PROJECT & GRANT

- 1) *Planning and making water purification system for turbidity removal in water-supply system in villages of Kerman province*, Support by research Management of Shahid Bahonar University of Kerman, Project Num: MP-328/41 (2014).
- 2) *Assessment and possibility of application Greywater with Maintaining the health and environmental criteria (case study Fanoood village - Srbysheh township)*, Support by Ministry of Energy Rural Water and Waste Water Company of Khorasan South Province, Project Num: MP-396/21 (2015).
- 3) *Facilities Finding Ways to Improve Water Quality by Using Local*, Support by Ministry of Energy Rural Water and Waste Water Company of Kerman Province, Project Num: MP-244/32 (2014).
- 4) *Assessment of pollution some potentially toxic elements on water resources and tailings of Kerman area and removal them by using ion exchange and solvent extraction methods*, Support by Iran national science foundation, Project Num: 90003738 (2013).
- 5) *Control and removal of water pollutions (Heavy metals or ray materials) in industrial and mine and also in water sources by using new methods*, Support by Kerman Science and technology Park, Project Num: MR. 211/44 (2012).
- 6) *Possibility of Using Raw Water in Pelletizing Plant*, Support by Golgohar Mining & Industrial Company in Iran, Project Num: MP-287/25 (2014).
- 7) *Nitrate removal of water resource in industrial scale by electrocoagulation method*, Support by Ministry of Energy Rural Water and Waste Water Company of Khorasan Razavi Province, Project Num: MP-211/21 (2017).
- 8) *Reduction of BOD, COD and heavy metal on an industrial scale by using electrocoagulation treatment in Kerman*, Support by Kerman Industrial Estates Company, Project Num: AS-117/1B (2017).

PAPERS PRESENTED IN JOURNAL

1. S.M. Moosavirad, *Treatment and Operation Cost Analysis of Grey Water by Electro-coagulation and Comparison with Coagulation*, Separation science and Technology, Taylor & Francies, (ISI index), Accepted, 2017.
2. S.M. Moosavirad, *Feasibility study of coagulation system for greywater treatment and comparison of economical effects with electrocoagulation in mining areas*, journal of advances in environmental health research, (ISC indexed), Vol.4 (4), pp. 212-220, 2017.
3. S.M. Moosavirad, M.R.Rahmani , *Increasing efficiency of thickener operation in concentrate plant of iron ore mine using coagulation-flocculation*, journal of advances in environmental health research, (ISC indexed), Vol.4 (3), pp. 146-154, 2017.
4. S.M. Moosavirad, S. Z. Mohammadi , R.Sarikhani, *Removal of some heavy metals from inorganic industrial wastewaters by ion exchange method*, Springer, (ISI index) , Journal of Water Chemistry and Technology, Springer, (ISI indexed), Vol.37 (4), pp. 191-199, 2015.
5. S.M. Moosavirad, M. R. Janardhana, Houshang Khairy, *Impact of anthropogenic activities on the chemistry and quality of groundwater: a case study from a terrain near Zarand city, Kerman Province, SE Iran*, Environmental Earth Sciences, Springer, (ISI indexed), Vol. 69 (7), pp 2451-2467, 2013.
6. S.M. Moosavirad, J. Rasouli, M. R. Janardhana, M. R. Moghadam and M. Shankar, *Petrographic, mineralogy, and geochemistry of coals of Pabedana, Kerman Province, Central Iran*, Arabian Journal of Geosciences, Springer, (ISI index), Vol. 6 (10), pp 3623–3634, 2013.
7. S.M. Moosavirad, M.R.Janardhana, M.S. Sethumadhav, M.R.Moghadam, M.Shankara *Geochemistry of Lower Jurassic Shales of Shemshak Formation, Kerman Province, Central Iran: Provenance, Source weathering and Tectonic setting*, , Chemie der Erde – Geochemistry journal, Elsevier, (ISI index), Vol.71 (3), pp. 279-288, 2011.
8. S.M. Moosavirad, M.R.Janardhana, M.S. Sethumadhav, M.Shankara *Geochemistry of Lower Jurassic Sandstones of Shemshak Formation, Kerman Basin, Central Iran: Provenance, Source weathering and Tectonic setting*, Journal of the Geological Society of India, Springer (ISI indexed), Vol.79 (2), pp. 483-496, 2012.
9. S.M. Moosavirad, M. Shankara and M.R. Janardhana. *Chemistry of coal washery effluents in Zarand region, Kerman province, South East of Iran*. Pollution Research, Vol.29 (4), pp.1-4, 2010.

10. S.M. Moosavi Rad, M. Shankara, Seyed Hamed Moosavi Rad, Behzad Shahmoradi, *The Influence of Time in Absorbing Rare Earth Elements by Ion Exchange Method*, Journal of Ultra Chemistry, Vol. 5, No.1, 2009.
11. S.M. Moosavirad, M. Shankara and M.R. Janardhana. *Assessment of the relationship between raw coal and effluent quality of Zarand washery plant, Kerman province, south east of Iran*. Nature and environment and pollution technology journal, Vol.10, No.2, 2011.
12. S.M. Moosavi Rad and M. Shankara, *Extraction of REE (Y, CE and LA) from Uranium Leaching Solution of Yazd Saghand Area, Iran-A Case Study*, Journal of Applied Geochemistry Vol. 12, No.2, 2010. (Supported by Indian Society of Applied Geochemistry)
13. S.M. Moosavi Rad, Z. Izadkhah, S.H. Moosavi Rad, *Effect of the Amount of Resin on Absorbing Rare Earth Elements from Leaching in Saghand's Uranium Mine in Iran*, Journal of Environmental Research and Development, Vol.3, No.1, 2008.
14. Behzad Shahmoradi and Seyed Morteza Moosavi Rad “*Investigation the People Knowledge, Attitude and Operation to the Municipal Solid Wastes Management (MSWM) in Sanandaj City*” Nature Environment and Pollution Technology, Vol. 8, No.3, 2009.
15. S.M. Moosavi Rad and Z. Izadkhah, *The Improvement of the Environmental and Methods of Arsenic Control in Mining Industry*, International Journal of Applied Engineering Research (IJAER), Vol. 4, No. 5, 2009.
16. S.M. Moosavirad, B. Behnia , *Rehabilitation of mined land with vegetation cover in Number one of Gol-e-Gohar Iron Ore Mine of Sirjan*, Iranian Journal of Mining Engineering, (ISC index), Vol.22 (9), pp. 2-14, 2012.
17. S.M. Moosavirad, B. Behnia , *Rehabilitation of mined land using natural processes in Number one of Gol-e-Gohar Iron Ore Mine of Sirjan*, Golegohar Iron Mine and Research Institute, Vol.8, pp. 31-39, 2012.
18. A. Asadi, M. Eskandarinasab, S.M. Moosavirad, *Assessment of gradient separation efficiency and high intensity magnetic separation in tailings second line of Hematite plant of Golgohar*, Golegohar Iron Mine and Research Institute, Vol.10, pp. 12-17, 2013.
19. 20. M. Karbakhsh, M. Eskandarinasab, S.M. Moosavirad, *Assessment of consumption rate Flocculants to stop being one of the inflows to Tickner hematite tailings plant*, Golegohar Iron Mine and Research Institute, Vol.11, pp. 19-23, 2013.

20. S.M. Moosavirad, *Impact of hydrometallurgical method to remove of potentially toxic metals from the aqueous phase of industrial wastewater*, Iranian journal of chemistry and chemical engineering, (ISC indexed), Vol.33 (4), pp. 76-83, 2013.
21. S.M. Moosavirad, M. Abaspour, *Investigation on Electrocoagulation methods to reduce total suspended solids, turbidity and hardness of hematite Tickner of Golegozar Iron Mine*, Iranian Journal of Mining Engineering, (ISC index), Vol.11 (32), pp. 47-57, 2017.

PAPERS PRESENTED IN SEMINAR & CONFERENCE

1. Seyed Morteza Moosavirad, Mohammad Reza Moghadam, Maysam Bagheri, M.R. Janardhana, *Assessment of groundwater quality for irrigation purposes in near Zarand city, Kerman province, SE Iran*, 4th International Conference on Sustainable Irrigation and Drainage: Management, Technologies and Policies, Australia, 2012.
2. S.M.Moosavirad, M.R. Janardhana, M.R.Moghadam, M.Shankara, *Assessment of Groundwater Quality around of Zarand Coal Washing Plant, Kerman Province, Southeast of Iran*, Sixth international multi-disciplinary conference: Knowledge in New Millennium, 2011, Mysore, India. (English, Oral)
3. S.M.Moosavi Rad, M. Shankara and S.M.M.Mousavi nasab “*Determination of Appropriate Solid Phase for separating Yttrium from Leaching Solution of Saghand Uranium Mine in Iran*”, 13th International Conference Environment and Mineral Processing, University of Ostrava, UK, 2009.
4. S. M. Moosavi Rad and M. Shankara “*Extraction of REE(Y, CE and LA) from Uranium Leaching Solution of Yazd Saghand Area, Iran-A Case Study*” National Conference on Applied Geochemistry in Mineral Exploration (Mineral, Water& Fuels), Department of Studies in Earth Science, University of Mysore, India, 2009. (English, Oral)
5. S.M. Moosavi Rad, Z. Izadkhah, “*A Survey of Seasonal Diversity in Absorbing Heavy Metals in Soil for Medicinal Plant Aloe Vera of India Mysore Area*” 4th National Conference on Environment, Islamshar Islamic Azad University, Iran, 2009. (Persian, Oral)
6. S.M. Moosavi Rad, M. Shankara and S.M.M.Mousavi nasab “*Environmental Effects on Absorption of Rare Earth Elements by Ion Exchange Method (in Saghand’s Uranium Mine of Iran)*” National Conference on Current Trends in Environmental Science & Sustainable Development (NCESD-2009), Bangalore, India, 2009. (English, Poster)

7. Seyed Morteza Moosavi Rad, M.Shankara , Reza Rahmannedjad, and Mohamad Reza Moghadam, *Study of Hydrology Problems on Dam Axis of the Ravar Ghadrooni, Kerman, Iran*, International multi-disciplinary conference on “ current research trends” (IMCRT 2009), Mysore, India. (English, Oral)
8. S.M. Moosavi Rad and R. Rahmannedjad “*Importance of permeability of Rocks in Selection of Ghadrooni (Ravar – Kerman) Dam Location* ” Eighth Academic Seminar of The Iranian Researchers in India on Arts & Science, Mysore, India, 2008. (Persian, Oral)
9. Z. Izadkhah and S.M. Moosavi Rad “*Cyst Nematodes and Assessment Control Methods in bio-Environment*” Eighth Academic Seminar of the Iranian Researchers in India on Arts & Science, Mysore, India, 2008. (Persian, Oral)
10. B. Behnia , S.M. Moosavirad, V. Akbari, *The impact of increasing the height of the chimney to control air pollution emissions for factories, the first national conference on environmental protection and environmental planning* ", Islamic Azad University of Hamedan, Iran, 2012
11. S.M. Moosavirad, J. Saeid, M.J. Bahrami, A. Arabzadeh, M. Azizkarimi, *The quality of raw water pelletizing plant flowers of Golegohar Iron Ore Complex*, First National Conference on Water Crisis ", Islamic Azad University of Isfahan, Iran, 2012.
12. S.M. Moosavirad, P. Zinosalhi, J. Saeid, M. Malakootian, *Quality of drinking water in rural Khanmakan Kuhbanan, Meymand Vameghi-e Babak of Kerman province*, the first national conference on the water crisis, Islamic Azad University of Isfahan, Iran, 2012.
13. S.M. Moosavirad, E. Shahsavani, S.Z. Mohamadi, A. Khosravan, R. Sarikhani, *Study of remove some heavy metals from industrial wastewater of Kerman province by solvent extraction method* ", First National Conference on New Technologies in Chemistry and Chemical Engineering, Tehran International Conference Center, Iran, 2012.
14. S.M. Moosavirad, M. Poursagari, M.J. Bahrami, M. Azizkarimi, *Impact of raw water treated on quality of pellets in Golegohar pelletizing plant*, Second International Conference and Seventh Joint Meeting casting, Iran, 2012.
15. B. Behnia , S.M. Moosavirad, H. Naghavi, A. Abkar, *Assesment of potential vegetation cover through the studies of benches water quality of Golegohar iron ore mine* ", Proceedings of the First International Conference on Mining and the Environment in Zanzan, Iran, 2012.
16. B. Sabzehzari, S.M. Moosavirad, B. Behnia, M. Ahmadi, *Application of analyzing process the restrictive conditions in the reclamation of Golegohar iron ore mine*,

Second National Conference on Environmental Protection and Planning , Hamedan, Iran, 2012.

17. B. Behnia, S.M. Moosavirad, V. Arabparizi, *Study of soil to mine reclamation, Goleghar iron ore mine*, Second National Conference on Environmental Protection and Planning , Hamedan, Iran, 2012.
18. B. Behnia, S.M. Moosavirad, H. Naghavi, A. Abkar, *Study of air pollution and impact on mine reclamation and restoration, Goleghar iron ore mine*, Proceedings of the First International Conference on Environment, Zanjan , Iran, 2012.
19. B. Behnia, S.M. Moosavirad, H. Naghavi, A. Abkar, *Influence assessment of heavy metal on vegetation cover, Goleghar iron ore mine*, Proceedings of the First International Conference on Environment, Zanjan , Iran, 2012.
20. S.M. Moosavirad, P. Zinosalhi, J. Saeid, M. Malakootian, *Design of settling pond without the use of mixers, to remove turbidity of river water of Vamegh Abad village of Kerman*, Proceedings of the Symposium on Civil Engineering and sustainable development with a focus on disaster risk reduction, Iran, 2012.

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43. S.M. Moosavirad, A. Afzalnia, A. Iranmanesh, M. Malakootian, *Evaluation of the utilization of poly aluminum chloride (PAC), aluminum sulfate and iron chloride coagulants on TSS removal in graywater*, Second International Conference on Environmental Engineering, Iran, 2016.

Guidance of Dissertations

(25 Bachelor and 20 M.S. as advisor or co-advisor)

Invention

Making fluid fast mixing pond in the process of coagulation and flocculation for industrial and mineral areas

TEACHING

Lecture Courses

Semester	Class	Title	Course Level
Fall	M- 23	Mineral Processing and Environmental	MSc (Master of Science)
Fall	M21	Waste Recycling Management	MSc (Master of Science)
Spring	M20	Control of Waste Disposal and Wastewater	Ph.D

Fall	M- 23	Groundwater Science	Bachelor of Science
Fall	M25	Safety and environment in Mines	Bachelor of Science
Spring	M22	Drainage in Mines	Bachelor of Science
Fall	M21	Environmental Science in Mines	Bachelor of Science
Spring	M25	Geological Engineering	Bachelor of Science
Fall	M22	Environmental Engineering	Bachelor of Science

Laboratory Course

Semester	Class	Title
Spring	M25	Water Sampling & Analysis

Workshops held

Research methods and presentation of scientific papers, Water and Waste Water Company of Kerman Province, Kerman, 2013.

How to provide technical and administrative texts, Golgohar Mining & Industrial Company in Iran, 2013.

Environment and the green government, Department of Roads and Urban Development of Kerman Province, 2014.

Investigating the methods of wastewater treatment of mineral processing plants, University of Shahid Bahonar Kerman, 2015.

Coal processing technology, University of Shahid Bahonar, Kerman, 2016.

Workshop participant

1. *User Awareness Programmer on Access to e-Resources of UGC – INFONET Digital Library Consortium*, University of Mysore, India, October 2008.

2. *Awareness Programmer on ISO 9001: 2000*, JSS Collage of Engineering Science & Technology, Mysore, India, November 2008.

3. *Internal Auditors Training in ISO 9001: 2000*, Science & Technology Entrepreneurs Park, JSS Technical Institutions Campus, Mysore, India, November 2008.

4. *International Workshop on TQM in Action – For Global Competency in Industrial Scenario*, Total Quality Management School, Mysore, India, November 2008.

5. 2nd International Workshop on *Research Methodology* Organized by Sai Ram Institute of Management Studies, Sai Leo Nagar, West Tambaram, Chennai, India, December 2008.
6. National Workshop on *Rooftop Rainwater Harvesting and Groundwater Recharge*, Department of Studies in Earth Science, Manasagangotri, University of Mysore, Mysore, India, February 2009.
7. National Workshop on *Applied Geochemistry in Mineral Exploration (Mineral, Water & Fuels)*, Indian Society of Applied Geochemists Hyderabad, Department of Studies in Earth Science, Manasagangotri, University of Mysore, Mysore, India, February 2009.
8. *National Workshop on Geology and Environmental Science*, Department of Studies in Earth Science, University of Mysore, Mysore, India, March 2009.
9. *National workshop on Fundamentals of GIS, MapInfo, Arcview 3.2a*, in Centre for Information Science and Technology (CIST), Senate Bhavan, Manasagangotri, Mysore, May 2010.