

RESUME

PERSONAL INFORMATION

Name: Bita Ayati, Ph.D., Associate Professor

Address: Environmental Eng. Division, Civil & Env. Eng. Faculty,
Tarbiat Modares Univ., P.O. Box 14115- 397, Tehran, Iran

Contacts: Tel: (98-21) 8288 3328, Fax: (98-21) 82 88 49 14

E-mail: ayati_bi@modares.ac.ir

Website: http://www.modares.ac.ir/~ayati_bi



EDUCATION

- Ph.D. in Civil (Environmental) Eng., Tarbiat Modares Univ., Sept.1999-March2004, Tehran, I.R.Iran.
- M.Sc. in Civil (Environmental) Eng., Sharif Univ. of Technology, 1996-1998, Tehran, I.R.Iran.
- B.Sc. in Chemical Engineering, Sharif University of Technology, 1992-1996, Tehran, I.R.Iran.

AWARDS

- Best University Professor, Tarbiat Modares Univ., Tehran, I.R. Iran, 2017
- Best University Researcher, Tarbiat Modares Univ., Tehran, I.R. Iran, 2016
- Best paper, International Conf. on Environmental Science, Engineering & Technology (CECET 2015), Tehran, I.R. Iran, 2015
- The 10th Annual Dr. Taghi Ebtekar Environmental Awards, Young Researcher, March 2015
- Best Paper, Tehran, I.R. Iran, WEDI 2014
- Nominated Best Book, IRDA2012, Tehran, I.R. Iran, 2012
- Best Book, Students' Book of the Year Award, Tehran, I.R. Iran, 2011
- Foundation Grant, Tarbiat Modares Univ., Tehran, I.R. Iran, 2011
- Best Paper, Then 1st National Conference of Water & Wastewater Science & Technology, Ahvaz, I.R. Iran, 2011
- Best Researcher, Tarbiat Modares Univ., Tehran, I.R. Iran, 2010
- Best Paper, CELCO, Tehran, I.R. Iran, 2007

- Better Thesis in Tarbiat Modares University (TMU), Tehran, I.R. Iran, 2005
- First Rank in Ph.D. in Environmental Engineering from Tarbiat Modares University, 2005
- First Rank Ph.D. Student amongst all Ph.D. Students of I.R.Iran in the year of 2004-2005
- Thematic Man and Biosphere (MAB) Young Scientist Awards on Ecosystem and Water, 2002, United Nations Educational, Scientific and Cultural Organization (UNESCO)
- First Rank in M.Sc. in Environmental Engineering from Sharif University of Technology, 1998
- Second Rank in M.Sc. in Civil Engineering from Sharif University of Technology, 1998
- First Rank in B.Sc. in Chemical Engineering from Sharif University of Technology, 1996

PROFESSIONAL EXPERIENCES

- Member of HSE committee, Tarbiat Modares University, Dec. 2012- Oct. 2016
- Head of Environmental Engineering Division, Tarbiat Modares University, March 2010- Dec. 2015
- Associate Professor, Civil & Env. Eng. Faculty, Tarbiat Modares University, Since Sept. 2010.
- Assistant Professor, Civil Eng. Dept., Tarbiat Modares University, July 2005-Sept. 2010.
- Head of Env. Eng. Laboratory, Tarbiat Modares University, Since 1999.
- Yekom Consulting Engineering, Literature Review of Environmental Assessment, 1996- 1997.

PROFESSIONAL SOCIETIES

- International Water Association (IWA)
- The Iranian Society of Environmentalists (IRSEN)
- Iranian Association of Water and Wastewater Experts (IAWWE)
- Alumni Association of Sharif University of Technology
- Iranian Society for Industry Academia Collaboration

Editorial Boards of:

- Journal of Applied Research in Water and Wastewater, Univ. of Razi
- Modares Civil Engineering Journal

RESEARCH INTEREST TOPICS

- Application of Nanotechnology in Wastewater Treatment

- Application of Advanced Oxidation Processes in Wastewater Treatment
- Polymer Application in Granulation
- Biological Industrial Wastewater Treatment
- Waste Minimization

EXPERIENCIES

- Teaching university courses: Water Treatment, Wastewater Treatment, Industrial Wastewater Treatment, Wastewater Reuse, Physicochemical Water & Wastewater Processes, Air Pollution Control and Analytical Chemistry
- Teaching in 13 scientific workshops: sanitary & industrial wastewater treatment, waste minimization methods in industries, water consumption reduction, ...
- Supervisor of 3 research projects (2 Finished)
- Full cooperation in 16 research projects
- Publication of 1 book and 143 papers in scientific national and ISI Journals
- Presentation of more than 100 presented papers at national and international conferences
- Supervisor of 5 Ph.D. thesis (Finished)
- Supervisor of 2 Ph.D. thesis (in process)
- Advisor of 10 Ph.D. thesis (Finished)
- Advisor of 1 Ph.D. thesis (in process)
- Supervisor of 38 M.Sc. thesis (Finished)
- Supervisor of 3 M.Sc. thesis (in process)
- Advisor of 34 M.Sc. thesis (Finished)
- Advisor of 1 M.Sc. thesis (in process)

WORKSHOPS (AS TEACHER)

- Environmental Management, Fars Province, Shiraz, March 2011
- Nano technology in Water and Wastewater Treatment, Rural Water and Wastewater Company, Gilan Province, Anzali, Jan. 2011
- Recognition of Wastewater Treatment Methods in Tropical Regions, Water and Wastewater Company, Bushehr Province, Bushehr, May 2010
- Water, Life and Methods of Water consumption saving and wastewater generation minimization

- Water and Wastewater Company, Bushehr Province, Bushehr, Feb. 2009
- Importance of Wastewater Treatment ..., Rural Water and Wastewater Company, Gilan Province, Anzali, March 2009
- New Treatment Methods in Wastewater Treatment, Water and Wastewater Company, East Azarbaijan Province, Tabriz, Nov. 2009
- Methods of Saline Wastewater Treatment: Biological Systems of SBR & MBBR, Water and Wastewater Company, Hormozgan Province, Bandar Abbas, Sept. 2009
- Wastewater Treatment in Small Communities, Rural Water and Wastewater Company, Gilan Province, Rasht, Feb. & March 2008
- Environmental Impact Assessment of World Bank Projects, Water and Wastewater Company, Gilan Province, Nov. 2007 & Dec. 2008
- Rain Water Analysis, Meteorological Organization, Tehran, 2003
- Waste Minimization Methods in industry- Wood Fiber Co., 2002
- Water Consumption Minimization Methods, Water and Wastewater Company, Sistan & Baloochestan Province, Zahedan, 2001
- Microbiology in Water and Wastewater, Iranian Training Center of Industries, Tehran, Oct. 2001.

PROFESSIONAL TRAINING

- Middle East and North Africa Group Invitation Program, Japan Foundation, 26 February- 7 March 2017, Japan
- International Visitor Leadership Program on "Management of Wetlands and Marshes", 14 March- 1 April 2016, USA
- EABRN-UNESCO Training Workshop on Remote Sensing & GIS for Biosphere Reserve Management, 11-22 April 2011, Beijing, China
- The Middle East Group Study (MEGS) Program 2009, Japan Foundation, 1-21 Nov. 2009, Japan
- Workshop on Strategies for Clean Air in Tehran, Meteorological Organization (IRIMO), 10-12 June 2006, Tehran, I.R. Iran
- Workshop on PCBs Inventory Plan, 1 Dec. 2004, Department of Environment (DOE) and United Nations Develop Program (UNDP), Tehran, I.R. Iran.
- Workshop on E-learning, 11-12 March 2004, TMU, Tehran, I.R. Iran.
- Workshop on Use of Internet in Education, February 2004, TMU, Tehran, I.R. Iran.
- Workshop on Rain Water Analysis, Organized by Organization of Metrological Research and Tarbiat Modares University, 9-10 December 2003, Tehran, I.R. Iran.
- Workshop on Green Productivity (GP) for Curriculum Developers, Organized by Organization Research and Planning (OERP) with support from Asian Productivity Organization (APO), DOE, and National Iranian Productivity Organization (NIPO), 30 November - 4 December 2003, Tonkabon, Mazandaran Province, I.R. Iran.

- Green Productivity in Iran Khodro Company (IKCo), Organized by IKCo and NIPO, 28-29 October 2003, Tehran, I.R. Iran.
- The First National Workshop on Industrial Hazardous Waste Management, Organized by Ministry of Industries and Mines: Environmental Office, Brandenburg Technical University (BTU): Chair of Chemical Engineering & Hazardous Wastes, Department of Environment: Water & Soil Pollution Office, 19-21 July 2003, Tehran, I.R. Iran.
- Workshop on Water and Wastewater Treatment in Urban Areas, November 2002, Tehran, I.R. Iran.
- Advanced Workshop on Green Productivity for Educators, Organized by APO, DOE and NIPO, 1-5 September 2002, Tehran, I.R. Iran.
- Workshop on GP in Petrochemical Industries Organized by APO, DOE, National Petrochemical Company (NPC) and Poly Acryl Company (PAC), 16-18 July 2002, Isfahan, I.R. Iran.
- Technical Workshops on Modern Measurement Instruments Organized by Azerbaijan Water and Electricity Complex Research Center, 5-6 March 2000, Tabriz, Azarbaijan Province, I.R. Iran.
- Technical Workshops Organized by Air Quality Control Company & Japan Int. Cooperation Agency (JICA) in the areas of Air Pollution/Quality Measurement, Mobile Sources, Traffic & Driving Cycle, Stationary Sources & Emission Inventory, Air Pollution Modeling & Simulation, 12-15 Oct. 1997, Tehran, I.R. Iran.

Projects

- Use of Biological and Nano Technology Advanced Methods in Removing Hard- Biodegradable Pollutants, 2008- 2014
- Control and Minimization of *Azolla* in Anzali Wetland, UNESCO, 2008
- Investigation of Sanitary and Industrial Wastewater Effects on Siah Keshim Reserved Area, 2006-2008
- Preparation of Information Bank for Municipal Wastewater Researches and Projects, 2003-2004, Tehran Sewage Company.
- Investigation of Sanitary and Industrial Wastewater Effects on Anzali Reserved Wetland, 2002-2003, United Nations Educational, Scientific and Cultural Organization (UNESCO).
- Preparation of Discharge Criteria of Non Municipal Wastewater to the Great Tehran Sewage Net Work System, 2001-2003, Tarbiat Modares University (TMU) and Tehran Sewage Company.
- Green Productivity Demonstration Project (GPDP) in Iran Khodro Company, 2000-2001, APO & NIPO.
- Investigating of Wastewater Reduction and Minimization from the Source Point in Main Iranian Industries, 1998-2001, Tarbiat Modares University.
- Investigating of the Produced Pollution (Water, Air, Solid Waste) and its Impact Assessment and Minimizations in Automobile, Machinery, and Foundry Industries, 1998.
- Biological Treatment of Iran Wood Fiber Wastewater by Sequencing Batch Reactors (SBRs), 1997-1998, Sharif University of Technology and Tarbiat Modares University.
- Physicochemical Treatment of Iran Wood Fiber Wastewater, 1997- 1998 Sharif University of Technology and Tarbiat Modares University.

- Full Scale Wastewater Treatment Plant Having Physicochemical, Anaerobic and Aerobic Treatment Processes Studies of Wood Fiber Wastewater Industries at Iran Wood Fiber Company, 2004-..., I.R. Iran.
- Investigating of Wastewater Reduction and Minimization from the Source Point in Main Iranian Industries, 1998-2001, Tarbiat Modares University.
- Biological Treatment of Iran Wood Fiber Wastewater by Sequencing Batch Reactors (SBRs), 1997-1998, Sharif University of Technology and Tarbiat Modares University.
- Physicochemical Treatment of Iran Wood Fiber Wastewater, 1997- 1998 Sharif University of Technology and Tarbiat Modares University.
- Investigation of Sanitary and Industrial Wastewater Effects on Siah-Keshim Reserved Area, 2004-2007.
- Preparation of Practical Guideline Manual for Rain Water Analysis, 2003-2004, Organization of Metrological Research.
- Preparation of Information Bank for Municipal Wastewater Researches, 2003-2004, Tehran Sewage Company.

PUBLICATIONS (JOURNALS & PROCEEDINGS)

Book

Application of Moving Bed Biofilm Reactor (MBBR) in Sanitary & Industrial Wastewater Treatment, Tarbiat Modares Univ. Pub., Feb. 2011 (in Persian)

Journals

- 143- H. Arabyarmohammadi, A. Khodadadi Darban, S. E. A. T. M. van der Zee, M. Abdollahy, B. Ayati, Fractionation and leaching of heavy metals in soils amended with a new biochar nanocomposite, Accepted for publication in J. of Environmental Science and Pollution Research, <https://doi.org/10.1007/s11356-017-0976-0>
- 142- M. Nazari, B. Ayati, Investigation of anionic surfactant removal using unipolar electro-flotation and electro-coagulation, Accepted for publication in J. of Water and Wastewater (in Persian).**
- 141- M.A. Ahangar, H. Ganjidoust, B. Ayati, Optimization of Parameters Depended on the Electrode in the Dye Treatment by Use of the Electro-Coagulation-Flotation Process, Accepted for publication in Sharif J. of Science and Technology (in Persian).**
- 140- Sh. Thaghipour, B. Ayati, Optimization of parameters of Electrocoagulation/ Flotation Process for Removal of Acid Red 14 with Mesh Stainless Steel Electrodes, Accepted for publication in Journal of Water Reuse and Desalination, DOI: 10.2166/wrd.2017.091
- 139- P. Hassanzadeh, H. Ganjidoust, B. Ayati, Oxytetracycline Removal with Nano Zero Valent Iron by Photo-oxidation Process and Optimization of Comparative Ions, Accepted for publication in J. of Water and Wastewater (in Persian).**
- 138- M.A. Ahangar, H. Ganjidoust, B. Ayati, Colored Wastewater Treatment Using Electro-coagulation-flotation Method with Mesh Stainless Steel Electrode, Journal of Environmental Sciences, Vol. 43, Issue 2, Summer 2017, pp. 195- 206 (in Persian).**
- 137- A.H. Sayyahzadeh, H. Ganjidoust, B. Ayati, Removal Mechanisms Involved in the Petroleum**

Refinery Wastewater Treatment by MBBR System, J. of Water and Wastewater, Volume 28, Issue 3, pp. 87- 96, DOI:10.22093/wwj.2016.40798 (in Persian).

136- Sh. Taghipour, B. Ayati, Cultivation of aerobic granules through synthetic petroleum wastewater treatment in a cyclic aerobic granular reactor, Journal of Desalination and Water Treatment, Vol. 76, pp. 134–142, May 2017, doi:10.5004/dwt.2017.20779

135- F. Soroush, H. Ganjidoust, B. Ayati, Removal of Petroleum Hydrocarbons from Contaminated Waters using a Solar Photocatalytic Process, Journal of Ferdowsi Civil Engineering, Vol. 29, No.1, pp. 37-48, Spring 2017, DOI: 10.22067/civil.v29i1.42661 (in Persian).

134- M.J. Zoqi, H. Ganjidoust, N. Mokhtarani, B. Ayati, Effect of Inorganic Material and Non-uniform Electrokinetic on Solidification/Stabilization of Lead, Zinc and Arsenic, Sharif J. of Science and Technology, Vol. 33.2, Issue 1.2 - pp. 79- 89, Spring 2017 (**in Persian**).

133- H. Amiri, B. Ayati, H. Ganjidoust, Textile Dye Removal using a Photocatalytic Cascade Disc Reactor Coated by ZnO Nanoparticles: The Effects of Hydraulic Parameters, ASCE's Journal of Environmental Engineering, Vol. 142, Issue 6, June 2017, [https://doi.org/10.1061/\(ASCE\)EE.1943-7870.0001092](https://doi.org/10.1061/(ASCE)EE.1943-7870.0001092)

132- Z. Minaei Zangi, H. Ganjidoust, B. Ayati, Analysis of Photocatalytic Degradation of Azo Dyes under Sunlight with Response Surface Method, Journal of Desalination & Water Treatment, Vol. 63, pp. 262-274, Feb. 2017, DOI: 10.5004/dwt.2017.20164

131- H. Amiri, B. Ayati, H. Ganjidoust, Mass Transfer Phenomenon in Photocatalytic Cascade Disc Reactor: Effects of Artificial Roughness and Flow Rate, Chemical Engineering & Processing: Process Intensification, Vol. 116, pp. 48- 59, June 2017, DOI: 10.1016/j.cep.2017.03.004

130- M.G. Rahimi, B. Ayati, A. Rezaei, Optimization of Reaction Parameters for the Sonophotocatalytic Degradation of Hydroquinone, Research on Chemical Intermediates, Vol. 43, Issue 3, pp. 1935–1956, March 2017, DOI: 10.1007/s11164-016-2740-3.

129- B. Ayati, M. Rezaei, Modified Sequencing Batch Airlift Reactor Capability in MTBE Removal, Iranica Journal of Energy & Environment, Vol. 8, No.1, pp. 26- 30, 2017 (Research Note).

128- M. Niksefat, B. Ayati, Synthesis of Bimetallic Nanoparticles Fe-Ni and Investigation of their Performance in AR14 Dye Removal from Aqueous Solutions, Sharif J. of Science and Technology, Vol. 32.2, Issue 4.2, pp. 33-44, Winter 2017 (**in Persian**).

127- M.G. Rahimi, A. Khodadadi Darban, B. Ayati, Photolysis System Performance in Petroleum Hydrocarbons Removal from Wastewater and its Modeling, Journal of Ferdowsi Civil Engineering, Vol. 28, No. 2, pp. 1- 8, Winter 2017 (in Persian).

126- P. Nazirian, Bi. Ayati, H. Ganjidoust, **Comparing the Capability of Photocatalyst Nano Zinc Oxide Process by Two Slurry and Immobilized Methods in Dye Acid Orange 7 Removal, J. of Environmental Studies, Vol. 42, Issue 4, pp. 855- 867, Winter 2017 (in Persian).**

125- B. Ayati, M. Razaee, SBAR Capability in Methyl Tert Butyl Ether Removal: Characteristics of the Bio-granules, J. of Water and Wastewater, Vol. 27, Issue 6, pp. 50- 58, December 2016 (in Persian).

124- S.M.S. Mousavi, B. Ayati, H. Ganjidoust, Phenol Removal and Bio-electricity Generation using a Single-chamber Microbial Fuel Cell in Saline and Increased- Temperature Condition, Journal of Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, Volume 38, Issue 22, pp. 3300-3307, Oct. 2016, <http://dx.doi.org/10.1080/15567036.2016.1156196>.

123- H. Kalhor, H. Ganjidoust, B. Ayati, Simultaneous Removal of Salinity and Organic Loading Rate using Phytoremediation, J. of Environmental Studies, Vol. 42, Issue 3, pp. 531- 550, Autumn 2016 (in Persian).

- 122- M. Niksefat, B. Ayati, Reduction and Reuse of Fe-Ni Bimetallic Nanoparticles Oxide and Evaluating Its Ability In Acid Red 14 Removal, Environmental Progress & Sustainable Energy, Vol. 35, No. 6, pp. 1646- 1656, Nov. 2016, DOI: 10.1002/ep.12407.**
- 121- N. Mokhtarani, S. Khodabakhahi, B. Ayati, Optimization of Photocatalytic Post-Treatment of Composting Leachate using UV/TiO₂, Desalination and Water Treatment, Vol. 57, Issue 47, pp. 22232-22243, 2016, DOI:10.1080/19443994.2015.1130652**
- 119- M. Ghalebizadeh, B. Ayati, Solar Photoelectrocatalytic Degradation of Acid Orange 7 with ZnO/TiO₂ Nanocomposite Coated on Stainless Steel Electrode, Process Safety and Environmental Protection Journal, Vol. 103, pp. 192- 202, Sept. 2016, DOI: 10.1016/j.psep.2016.07.009
- 118- S. Rahimi, B. Ayati, A. Rezaei, Kinetic Modeling and Determination Role of Sono/Photo Nanocatalyst-Generated Radical Species on Degradation of Hydroquinone in Aqueous Solution, Environmental Science and Pollution Research, Vol. 23, Issue 2, pp. 12185- 12198, · June 2016, DOI: 10.1007/s11356-016-6408-8
- 117- M.J. Zoghi, H. Ganjidoust, N. Mokhtarani, B. Ayati, Solidification Optimization of Electroplating Sludge, Journal of Environmental Engineering and Science, Vol. 11, Issue JS2, pp. 33- 43, June 2016, DOI: <http://dx.doi.org/10.1680/jenes.16.00005>
- 116- M. Niksefat, A. Hooshmandfar, B. Ayati, Synthesis of Bimetallic Fe-Ni Nano-Particles and using them to Improve Electrochemical Treatment of Wastewater, Iranian Journal of Mining Engineering Journal, Vol. 11, Issue 31, Autumn 2016, pp. 81-89 (in Persian).
- 115- A.H. Sayyahzadeh, H. Ganjidoust, B. Ayati, MBBR System Performance Improvement for Petroleum Hydrocarbon Removal using Modified Media with Activated Carbon, Water Science and Technology, Vol.73, No. 9, pp. 2275-83, May 2016, doi: 10.2166/wst.2016.013.
- 114- R. Asgari, B. Ayati, Role of Electron Scavengers in Direct Blue 71 Removal by Nano-TiO₂ Immobilized on Cementitious Bed, Journal of Environmental Studies, Vol. 42, Issue 1, pp. 1-17, Spring 2016 (in Persian).**
- 113- M. Mohammadizad, H. Ganjidoust, B. Ayati, Determining the Optimum Conditions for Photocatalytic Dye Removal by Polyaniline/Graphene Nano-Composite Under Visible Light Irradiation, Journal of Color Science and Technology, Vol. 10, No. 1, pp. 31- 42, Spring 2016 (in Persian).**
- 112- H. Hossini, A. Rezaei, B. Ayati, A.H. Mahvi, Optimizing Ammonia Volatilization by Air Stripping from Aquatic Solutions using Response Surface Methodology (RSM), Desalination and Water Treatment, Vol. 57, Issue 25, pp. 11765-11772, May 2016, doi: 10.1080/19443994.2015.1046946.**
- 111- M. Ghalebizadeh, B. Ayati, Analysis of Degradation of Acid Orange 7 by Electro-Fenton Process with Graphite Cathode Coated by Carbon Nanotubes, Modares Civil Engineering Journal, Vol. 16, Issue 1, pp. 117-126, Winter 2016 (in Persian).
- 110- M. Niksefat, B. Ayati, Determine the Optimum Conditions for Acid Red 14 Removal by Iron Nanoparticles Modified with Nickel in a Slurry System, J. of Water and Wastewater, Vol. 27, Issue 1, pp. 29- 39, March and April 2016 (in Persian).**
- 109- R. Asgari, B. Ayati, Scavengers Effect on Accelerating Photocatalytic Removal of Direct Blue 71 Dye with Nano TiO₂ Immobilized on Cementitious Bed, Sharif J. of Science and Technology, Vol. 31.2, Issue 4.2, pp. 25- 35, Winter 2016 (in Persian).**
- 108- M. Ghalebizadeh, B. Ayati, Analysis of Effective Parameters on Electro Fenton System with Stainless Steel and Graphite Electrodes for Removing Acid Orange 7, J. of Environmental Studies, Vol. 41, Issue 4, pp. 855-865, Winter 2016 (in Persian).
- 107- M. Taheri, **H. Ganjidoust, B. Ayati**, Experimental Improvement Ways for Hydraulic Performance of Lab- Scale Stabilization Pond, Iranian Chemical Engineering Journal, Vol. 14, No. 82, pp. 30- 38, Winter

2016 (in Persian).

- ۱۰۶- H. Hossini, A. Rezaee, B. Ayati, A.H. Mahvi, Off-gas Treatment of Ammonia using a Diffused Air Stripper: A Kinetic Study, *Health Scope*, Vol. 5, No. 1, pp. 26479-26485, February 2016, DOI: 10.17795/jhealthscope-26479
- 105- S.M. Raeisi, M. Tabatabaei, B. Ayati, A. Ghafari, S. Haghigi Mood, A Novel Combined Pretreatment Method for Rice Straw Using Optimized EMIM [Ac] and Mild NaOH, *Waste and Biomass Valorization*, Vol. 7, Issue 1, pp. 97- 107, February 2016
- 104- A. Hooshmandfar, B. Ayati, A. Khodadadi Darban, Optimization of Material and Energy Consumption for Removal of Acid Red 14 by Simultaneous Electro-coagulation and Electro-flotation, *Water Science & Technology*, Vol. 73, No. 1, pp. 192-202, January 2016, DOI:10.2166/wst.2015.477.
- 103- A. Dahnavi, H. Ganjidoust, B. Ayati., G. Emtiazi, Using Excess Biomass Sludge Acclimated in Side Stream Partial Nitrification to Evaluation Partial Nitrification and Abrupt Cold Shock Effect in Main Stream, *Iranian Journal of Environmental Technology*, Vol. 1, No. 2, pp. 53- 64, Autumn 2015 & Winter 2016.
- 102- P. Hassanzadeh, H. Ganjidoust, B. Ayati., Oxytetracycline Removal with Nano Zero Valent Iron Using the Photo-oxidation Process and Optimization of Comparative Ions, *J. of Water and Wastewater*, Vol. 26, Issue 5, pp. 65-74, December 2015 (in Persian).
- ۱۰۷- H. Hossini, A. Rezaee, B. Ayati, A.H. Mahvi, R. Barati Poshvanlou, Optimization of Temperature and Supporting Electrolyte for Ammonium Removal using Bioelectrochemical Systems, *Journal of Advances in Environmental Health Research*, Vol. 3, No. 1, pp. 62- 70, Winter 2015.
- ۱۰۸- H. Hossini, A. Rezaee, B. Ayati, A.H. Mahvi, Simultaneous Nitrification and Denitrification using Polypyrrole/Microbial Celluloses Electrode in a Membraneless Bio-Electrochemical System, *RSC Advances*, Vol. 5, pp. 72699-72708, 2015, doi: 10.1039/C5RA09771A
- 99- A.H. Sayyahzadeh, H. Ganjidoust, B. Ayati, Removal of Petroleum Hydrocarbons from Oil Refinery Wastewater using Natural Adsorbents: Isotherm and Kinetics Study, Sharif J. of Science and Technology, Vol. 31.2, Issue 3.2, Autumn 2015, pp. 41- 48 (in Persian).**
- 98- S. Ghobadian, H. Ganjidoust, B. Ayati, Evaluation of the Effects of Aeration Cycle and Culture Medium Concentration on Biomass Qualitative and Quantitative Indices in Microalga Spirulina as Candidate for Wastewater Treatment, Aquatic Ecology, Vol. 5, No. 2, pp. 87- 99, Autumn 2015 (in Persian).**
- 97- G.A. Dezvareh, H. Ganjidoust, B. Ayati, Evaluation of Kinetic Models in Water Salinity Reduction by Phyto-remediation Method with Three Halophyte Plants, Modares Civil Engineering Journal, Vol. 15, No. 3, pp. 63- 72, Fall 2015 (in Persian).**
- 96- Sh. Taghipour, B. Ayati, Study of SBAR Capability in Petroleum Wastewater Treatment, *Water Reuse*, Vol. 2, Issue 2, pp. 119-128, Summer 2015 (in Persian).
- 95- Sh. Rezamand, B. Ayati, H. Ganjidoust, Comparison of Phosphorus Removal Efficiency in Reed, Bamboo & Cyperus, *Modares Civil Engineering Journal*, Vol.15, pp. 89-96, Summer 2015 (Supplementary Issue) (in Persian).

- 94- M.J. Zoqi, H. Ganjidoust, N. Mokhtarani, B. Ayati, Optimization of Solidification and Cement Stabilization of Electroplating Sludge by Response Surface Methodology and Artificial Neural Network Methods, Iranian Journal of Chemistry & Chemical Engineering (IJCCE), Vol. 34, No. 2, pp. 97- 109, Spring 2015 (in Persian).
- 93- F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamooory, Acid Orange 7 Removal by Ozonation/ Improved Photocatalytic Processes System, Iranian Journal of Chemistry & Chemical Engineering (IJCCE), Vol. 34, No. 2, pp. 47- 61, Spring 2015 (in Persian).**
- 92- A. Hooshmandfar, B. Ayati, A. Khodadadi, Electrochemical Treatment of Textile Wastewater Containing Acid Red 14 by Aluminum Electrodes, J. of Environmental Studies, Vol. 41, Issue 2, pp. 397-308, Summer 2015 (in Persian).**
- 91- S. Pashazanousi, B. Ayati, H. Ganjidoust, Investigating the Capability of Ultrasonic Method in Sludge Mass and Volume Reduction from Wastewater Treatment Plants, J. of Civil Engineering and Environment, Vol. 45.2, Issue 79, pp. 99- 105, Summer 2015 (in Persian).
- 90- P. Khoshbakht, H. Ganjidoust, B. Ayati, Performance Evaluation of Different Advanced Oxidation Processes Removing of Acid Red 14 dye from Aqueous Solution, J. of Water and Wastewater, Vol. 26, No. 4, pp. 22-31, Summer 2015 (in Persian).**
- 89- M.G. Rahimi, A. Khodadadi, B. Ayati, Investigation of Moving Bed Biofilm Reactor Capability in Treating Wastewater Containing Petroleum and Gas oil, Modares Civil Engineering Journal, Vol. 15, No. 2, pp. 13- 22, Summer 2015 (in Persian).
- 88- F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamooory, Investigation of Kinetic and Intermediate Products of Acid Orange 7 Removal by Hybrid Ozonation/Photocatalytic Processes, Modares Civil Engineering Journal, Vol. 15, No. 2, pp. 79- 89, Summer 2015 (in Persian).
- 87- S.N. Larimi, B. Ayati, Optimum Conditions and Kinetics Studies of Direct Blue 71 Removal from Aqueous Solutions with a Photocatalytic Process using ZnO Nano Particles, J. of Environmental Sciences, Vol. 13, No. 1, pp.25- 32, Spring 2015 (in Persian)**
- 86- M. Safari, A. Rezaei, B. Ayati, A. Joneidi Jafari, Bio-electrochemical Reduction of Nitrate from Wastewater using Graphite- Coated Multi-Walled Carbon Nanotubes, Modares Civil Engineering Journal, Vol. 15, No. 1, pp. 57- 65, Spring 2015 (in Persian).
- 85- R. Asgari, B. Ayati, Using the EDTA Hole Scavenger to Accelerate Decolorization in the Immobilized Photocatalytic Process, J. of Water and Wastewater, Vol. 27, No. 3, pp. 19-27, Fall 2016 (in Persian).
- 84- F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamooory, Treatment of Wastewater Containing Acid Orange 7 using Ozonation Process and Determination of Produced By-products, J. of Water and Wastewater, Vol. 26, No. 2, pp. 13-22, Spring 2015 (in Persian).
- 83- M. Safari, A. Rezaei, B. Ayati, A. Joneidi Jafari, Simultaneous Removal of Nitrate and its Intermediates by use of Bipolar Electrochemistry, Research on Chemical Intermediates, Vol. 41, pp. 1365- 1372, 2015, DOI: 10.1007/s11164-013-1279-9
- 82- P. Hassanzadeh, H. Ganjidoust, B. Ayati, Kinetic Study of Oxytetracycline Removal in Aqueous Solutions using Nanoscale Zero Valent Iron, Sharif J. of Science and Technology, Vol. 30.2, Issue 4.2, pp. 13- 20, Winter 2015 (in Persian).
- 81- F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamooory, Effect of Ozonation Pretreatment on Immobilized- Suspended Photocatalytic Process in Dye Wastewater Treatment and Determination of Its Optimum Conditions, Sharif J. of Science and Technology, Vol. 30.2, Issue 4.1, pp. 129- 136, Winter 2015 (in Persian).**
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