

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) 82883328, Fax: (98-21) 82884914

E-mail: ayati_bi@modares.ac.ir

Website: http://www.modares.ac.ir/pro/academic_staff/ayati_bi



EDUCATION

- Ph.D. in Civil (Environmental) Eng., Tarbiat Modares Univ., Sept.1999-March 2005, 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.

PROFESSIONAL EXPERIENCES

- Head of Environmental Engineering Division, Tarbiat Modares University, June 2023 till now
- Head of Environmental Engineering Division, Tarbiat Modares University, March 2020- March 2022
- 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.

AWARDS

- Best University Professor, Tarbiat Modares Univ., Tehran, I.R. Iran, 2023
- Best University Professor, Tarbiat Modares Univ., Tehran, I.R. Iran, 2017
- Best University Researcher, Tarbiat Modares Univ., Tehran, I.R. Iran, 2016

- The 10th Annual Dr. Taghi Ebtekar Environmental Awards, Young Researcher, March 2015
- 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 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 SOCIETIES

- International Water Association (IWA)
- Iranian Nanotechnology Society (ISN)
- 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
- Sharif Journal of Science and Technology
- Iran Water & Wastewater Association (IWWA)

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 4 research projects (Finished)
- Full cooperation in 16 research projects
- Publication of 1 book, 1 chapter of book and 210 papers in scientific national and ISI Journals
- Presentation of more than 100 presented papers at national and international conferences
- Supervisor of 3 Ph.D. thesis (in process)
- Supervisor of 3 M.Sc. thesis (in process)
- Supervisor of 8 Ph.D. thesis (Finished)
- Supervisor of 61 M.Sc. thesis (Finished)
- Advisor of 12 Ph.D. thesis (Finished)
- Advisor of 36 M.Sc. thesis (Finished)

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

- Plastics: Impacts and Action, 25 hours Professional Development Online Course, Cornell University, 17 May- 20 June 2021
- Water Initiative South Asia (WISA), 18- 20 June 2018, Istanbul, Turkey
- Matchmaking Workshop between the Leibniz Association and Iranian Researchers, 9-10 Oct. 2017, Berlin, Germany.
- Middle East and North Africa Group Invitation Program, Japan Foundation, 26 Feb.- 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, Feb. 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 Nov. - 4 Dec. 2003, Tonkabon, Mazandaran Province, I.R. Iran.
- Green Productivity in Iran Khodro Company (IKCo), Organized by IKCo and NIPO, 28-29 Oct. 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, Nov. 2002, Tehran, I.R. Iran.
- Advanced Workshop on Green Productivity for Educators, Organized by APO, DOE and NIPO, 1-5 Sept. 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

- Rapid Detection Technologies and Instruments Development of Oil-Contaminated Water Based on Artificial Intelligence and Multispectral Analysis, INSF, 2024-...
- 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 (BOOKS & JOURNALS)

BOOK

- B. Ayati, H. Ganjidoust, M. Delnavaz, Application of Moving Bed Biofilm Reactor (MBBR) in Sanitary & Industrial Wastewater Treatment, Tarbiat Modares Univ. Pub., Feb. 2011 (in Persian)
- Sh. Taghipour, B. Ayati, Chapter 5: Petroleum Wastewater Treatment using Granular Sequencing Batch Reactor: Physical Characteristics and Capabilities of the Aerobic Granules, “Editor: Adriana Magdalena, Wastewater Treatment: Processes, Uses and Importance”, Novapublishers, Oct. 2019

JOURNALS

1. S. Ezati, H. Ganjidoust, B. Ayati, Evaluation of Tetracycline Degradation by Electro-Fenton Process with MIL-100(Fe) Catalyst and Persulfate: Role of Radicals and Performance of Scavengers, Accepted for Publication in Advanced Environmental Sciences
2. S. Ezati, H. Ganjidoust, B. Ayati, Degradation of Tetracycline Using an Electro-Fenton System with MIL-100(Fe) Catalyst and Persulfate, Accepted for Publication in Modares Civil Engineering Journal
3. S. Entezari, H. Ganjidoust, Y. Yamini, B. Ayati, A Peak Comparison Index Approach for Robust Microplastic Analysis Across Environmental Matrices: Validation Using Meat Products, Accepted for Publication in Scientific Reports, 2025

4. H. Rahimisadegh, B. Ayati, A.H. Sayyadi, Facile synthesis of sustainable and novel polymer-supported COF for high-efficiency dye photodegradation, *Inorganic Chemistry Communications*, 116096, 2025
5. M. Kouhfallah, B. Ayati, H. Younesi, H. Shekari, Claus Waste-Derived TiO₂ Coupled with UiO-66 for an S-Scheme Heterojunction with Enhanced Photocatalytic Activity, *Scientific Reports*, 15(1), 38544, 2025
6. M. Mohsenzadeh, B. Ayati, Electrode configuration engineering in a photocatalytic fuel cell for enhanced dye removal and electricity generation, *Journal of Electroanalytical Chemistry*, 119412, 2025
7. A. SaadatiSehri, B. Ayati, Environmentally friendly, cellulose-based hydrogel with underwater superoleophobicity for high flux oil/water separation under harsh environments (acidic, alkaline, and saline), *Environmental Challenges*, 101329., 2025
8. E. DoustMohammadian, B. Ayati, Role of raw ilmenite nanoparticles in rhodamine B degradation using peroxymonosulfate and graphitic carbon nitride, *Scientific Reports*, 15(1), 9023, 2025
9. S. Hooshmand, B. Ayati, Efficiency enhancement of dark heterogeneous Fenton process for acid blue 25 removal using graphene oxide-coated zero-valent iron nanoparticles with energy and iron consumption reduction, *Journal of Environmental Engineering*, 151(7), 04025031, 2025
10. F.A. Mirniyam, B. Ayati, Using the modified photo-electro-Fenton in a novel electrode baffled reactor by Al foam/TiO₂/CNT photocathode and graphite anode for dye wastewater treatment, *Nanotechnology for Environmental Engineering* 10 (1), 1-15, 2025.
11. Z. Pouramini, B. Ayati, A. Babapoor, Performance optimization of new basket-shaped TiO₂ photoelectrodes in a photocatalytic fuel cell utilizing the response surface method: Dye elimination and energy generation *Indian Chemical Engineer*, 67(5), 668-686, 2025
12. A.A. Najafzadeh, B. Ayati, Improvement of electro-Fenton process by using heterogeneous Fe-MIL-88B nanocatalyst and simultaneous rotation of cathode and anode for dye removal, *Scientific Reports*, Vol. 14, 24038 (2024), 10.1038/s41598-024-74655-3
13. L. Emadinezhad, B. Ayati, Surface-coated PVDF@TAPEG selective ultrafiltration membranes: An investigation on membranes' hydrophilicity and antifouling characteristics for effective humic acid removal from wastewater, *Applied Water Science*, 14(10), 226, 2024
14. S. Naseri, B. Ayati, Using green nanocomposite containing eggshell in the electroperoxone process in a baffled reactor to remove the emerging tetracycline pollutant, *Environmental Research*, 262, 119969, 2024.
15. M.G. Rahimi, Removal of petroleum hydrocarbons from wastewater using photolysis- moving bed biofilm reactor hybrid system, Accepted for Publication in *Journal of Advanced Environmental Research and Technology*
16. R. Hariryan Javan, M. Seyyedi, B. Ayati, Evaluation of treatment and energy efficiencies of an advanced electrochemical system for Chlorella removal equipped with aluminum, graphite, and RGO nanoparticle-coated cathodes, *Journal of Water Science and Engineering*, January 2024, 10.1016/j.wse.2023.12.004
17. S. Gan, Y. Meng, Z. Lin, C. Zheng, A. Zhu, H. Ganjidoust, B. Ayati, and A. Huo, Efficient Removal of Antimony (V) from Antimony Mine Wastewater by Micrometer Zero-Valent Iron. *Langmuir*. 39, 42, 14945–14957, Oct. 2023, 10.1021/acs.langmuir.3c01787
18. H. Sadati, B. Ayati, Using A Promising Biomass-Based Biochar in Photocatalytic Degradation: Highly Impressive Performance of RHB/SnO₂/Fe₃O₄ for Elimination of AO7, *Journal of Photochem*

19. M.G. Rahimi, B. Ayati, R.D. Webster, Removal of Petroleum Hydrocarbons from Wastewater using Photolysis- Moving Bed Biofilm Reactor Hybrid System, Journal of Advanced Environmental Research and Technology, Vol. 1, No. 3, pp. 25- 34, Summer 2023
20. M.A. Mousavian, S. Hosseini, B. Ayati, Bioelectricity Generation and Decolorization of Reactive Blue 221 Using a Modified Cathode Dual-Chamber Microbial Fuel Cell, Water, 15 (1), 101, 2023, 10.3390/w15010101
21. S. Entezari, M. Abdullah Al, A. Mostashari, H. Ganjidoust, B. Ayati & J. Yang, Microplastics in urban waters and its effects on microbial communities: A critical review, Environmental Science and Pollution Research, 29 (59):88410-88431., Dec. 2022, 10.1007/s11356-022-23810-2
22. M. Ghalebizade, B.Ayati, Modeling, Optimization and Kinetic Investigation of Acid Orange 7 Degradation using Ozonation in A Cylindrical Reactor with Recirculation Flow with RSM, Modares Civil Engineering Journal, Vol. 22, No. 4, pp. 19-31, 2022 (in Persian).
23. M. Seyyedi, B. Ayati, Design and Optimization of a Sequential and Hybrid AOP System using RSM, Applied Water Engineering and Research Vol. 11, No. 3, pp. 381- 393, 2023 10.1080/23249676.2022.2125092.
24. F. Habibi, M. Seyyedi, B. Ayati, Synthesis and Application of Reusable and Magnetic RGO/Fe₃O₄ Nanocomposites in BR46 Removal from an Aqueous Solution; Future Prospects of an Efficient Adsorption Platform, J. Mater. Environ. Sci., Vol. 13, Issue 8, pp. 900-913, 2022.
25. Z. Pouramini, B. Ayati, A. Babapoor, Enhancing PFC Ability to Dye Removal and Power Generation Simultaneously via Conductive Spheres in the Anodic Chamber, Journal of Electroanalytical Chemistry, Vol. 917, 15 July 2022, 116410
26. N. Taheri Ashtiani, B. Ayati, Using Chitosan-Based Heterogeneous Catalyst for Degradation of Acid Blue 25 in the Effective Electro-Fenton Process with Rotating Cathodes, Journal of Electroanalytical Chemistry, Volume 905, 15 Jan. 2022, 115983, 10.1016/j.jelechem.2021.115983
27. A.R. Arhami Dolatabad, H. Ganjidoust, B. Ayati, Application of Waste-Derived Activated Red Mud/Base Treated Rice Husk Composite in Sulfate Adsorption from Aqueous Solution, International Journal of Environmental Research, 16(1), pp.1-16., 2022, 10.1007/s41742-021-00381-7
28. P. Zanganeh Ranjbar, B. Ayati, H. Ganjidoust, Textile Dye Degradation in a Novel Photocatalytic Baffled Reactor Using Immobilized TiO₂ Nanoparticles, International Journal of Environment and Waste Management (IJEWM), Vol. 29, No. 3, pp. 241-261, 2022, 10.1504/IJEWM.2022.10035241
29. M.A. Ahangarnokolaie, B. Ayati, and H.Ganjidoust, 2021. Simultaneous and Sequential Combination of Electrocoagulation and Ozonation by Al and Fe Electrodes for DirectBlue71 Treatment in a New Reactor: Synergistic effect and Kinetics Study, Chemosphere, 285, p.131424.
30. R. Nayeibi Gavgai, B. Ayati, H. Ganjidoust, Degradation of AB113 using Combined Photocatalysis and Biological Processes: Economic Choice and Enhanced Removal of Aromatic Compounds, Journal of Biological Environment and Pollution, Vol. 1, No. 2, pp.76-88, 2021, 10.31763/bioenvipo.v1i2.484
31. S. Hooshmand, B. Ayati, Optimization of Effective Parameters in Removal of Acid Blue 25 by Fenton Process with the aim of Reducing Iron Consumption, Journal of Environmental Science and Technology (JEST), Vol 23, No. 4, July, 2021, 10.22034/jest.2021.37319.4362 (in Persian).
32. M.M. Bakhshi, B. Ayati, H. Ganjidoust, Soil Stabilization by Nano Polymer Polylatice (Case Study: Hossein Abad Area of Qom Province, Amirkabir Journal of Civil Engineering, Vol. 52, Issue 12, March 2021, pp. 3237-3248, 10.22060/ceej.2019.16402.6211 (in Persian).

33. M.R. Khaksar, H. Ganjidoust, B. Ayati, Photocatalytic Oxidation of Waste Activated Sludge Using a Backlight Photocatalytic Reactor, *Desalination & Water Treatment*, Vol. 235, pp. 117-126, 2021, 10.5004/dwt.2021.27657
34. M.M. Seyyedi, B. Ayati, Treatment of Petroleum Wastewater using a sequential Hybrid System of Electro-Fenton and NZVI Slurry Reactors, *Future Prospects for an Emerging Wastewater Treatment Technology*, *International Journal of Environment and Waste Management*, Vol. 28, No. 3, pp. 328-348, 2021, 10.1504/IJEW.2021.10035651.
35. M. Alimohammadi, B. Ayati, Remarkable Phosphate Removal from Saline Solution by using a Novel Trimetallic Oxide Nanocomposite, *Water Reuse*, Vol. 11, No. 3, pp. 410-424, Sep. 2021, 10.2166/wrd.2021.007
36. E. Ghate, H. Ganjidoust, B. Ayati, The thermodynamic, kinetic, and isotherms of Sulfamethoxazole adsorption using magnetic activated carbon nanocomposite and its reusability potential, *Nanotechnology for Environmental Engineering*, Vol. 6, No. 32, June 2021, 10.1007/s41204-021-00127-y
37. M. Ghalebizade, B. Ayati, Mass Transfer Phenomenon in Baffled Reactor using Electro-Peroxone Process: Effects of Electrode Arrangement and Flow Rate, *Journal of Electroanalytical Chemistry*, Vol. 891, 15 June 2021, 115258, 10.1016/j.jelechem.2021.115258
38. M. A. Ahangarnokolaei, B. Ayati, H. Ganjidoust, Novel Baffled Configuration of Electro-Coagulation-Flotation Process for Treatment and Fate of Direct Blue 71: Sludge Characteristics and Process Optimization, *Environmental Technology & Innovation*, Vol. 22, May 2021, 101459, 10.1016/j.eti.2021.101459.
39. R. Rahmati, B. Nayeibi, B. Ayati, Investigating the Effect of Hydrogen Peroxide as an Electron Receptor in Increasing the Capability of Slurry Photocatalytic Process in Dye Removal, *Water Science and Technology*, Vol. 83, No. 10, pp. 2414- 2423, 2021, 10.2166/wst.2021.136
40. B. Ayati, Z. Ghorbani, Enhancement of the electro-activated persulfate process in dye removal using graphene oxide nanoparticle, *Water Science and Technology*, Vol. 83, No. 9, pp. 2169–2182, 2021, 10.2166/wst.2021.128
41. B. Nayeibi, B. Ayati, The Degradation of Emerging Amoxicillin Compound from Water using the Electro-Fenton Process with An Aluminum Anode, *Water Conservation Science and Engineering*, Vol. 6, No. pp. 45–54, 2021, 10.1007/s41101-021-00101-4
42. M. Ghalebizade, B. Ayati, Investigating Electrode Arrangement and Anode Rule on Dye Removal Efficiency of Electro- Peroxone as an Environmental Friendly Technology, *Separation and Purification Technology*, Volume 251, 15 Nov. 2020, 117350, 10.1016/j.seppur.2020.117350.
43. Ahmadi Zahrani, B. Ayati, Improving Fe-based Heterogeneous Electro-Fenton Nano Catalyst using Transition Metals in a Novel Orbiting Electrodes Reactor, *Chemosphere*, Vol. 256, Oct. 2020, 127049, 10.1016/j.chemosphere.2020.127049.
44. Ahmadi Zahrani, B. Ayati, Using heterogeneous Fe-ZSM-5 nanocatalyst to improve the electro Fenton process for acid blue 25 removal in a novel reactor with orbiting electrodes, *Journal of Electroanalytical Chemistry*, Vol. 873, 15 Sept. 2020, 114456, 10.1016/j.jelechem.2020.114456.
45. Z. Ghorbani, B. Ayati, Performance Comparison of Fe²⁺ Activated Persulfate and Electro-Persulfate Process in Acid Blue 25 Removal from Aqueous Solution: Operating Conditions and Reaction Velocity, *Amirkabir Journal of Civil Engineering*, Vol. 52, No. 7, pp. 1729-1742, 2020, 10.22060/ceej.2019.15641.5979 (in Persian).
46. S. Ataei, B. Ayati, Capability of New Biochar/ZnO/SnO₂ Nanocomposite in Removing Acid Orange 7 Solution, *Modares Civil Engineering Journal*, Vol. 20, No. 3, pp. 25-40, 2020 (in Persian).

47. P. Arbab, B. Ayati, M.R. Ansari, Optimization and Comparison of Single and Combined Processes using Hydrodynamic Cavitation for Dye Removal, J. of Water and Wastewater, Vol. 31, No. 2, pp. 24-42, 2020 (in Persian).
48. M.R. Khaksar, H. Ganjidoust, B. Ayati, Solubilisation of Waste Activated Sludge by Ultrasonic Bath Pre-treatment, Modares Civil Engineering Journal, Vol. 19, No. 5, pp. 111-121, 2019 (in Persian).
49. M. Nazari, B. Ayati, Removing Sodium Dodecyl Benzene Sulfonate Using a Hybrid Electrocoagulation/Flotation and Photocatalytic System, Journal of Water and Environmental Nanotechnology, Vol. 4, No. 3, pp. 236-243, Summer 2019, 10.22090/jwent.2019.03.006.
50. Vakili Tajareh, H. Ganjidoust, B. Ayati, Synthesis of $\text{TiO}_2/\text{Fe}_3\text{O}_4/\text{MWCNT}$ Magnetic and Reusable Nanocomposite with High Photocatalytic Performance in the Removal of Colored Combinations from Water, Journal of Water and Environmental Nanotechnology, Vol. 4, No. 3, pp. 198- 212, Summer 2019, 10.22090/jwent.2019.03.003
51. M. Ghalebizade, B. Ayati, Acid Orange 7 Treatment and Fate by Electro-Peroxone Process using Novel Electrode Arrangement, Chemosphere, Vol. 235, pp. 1007-1014, Nov. 2019, 10.1016/j.chemosphere.2019.06.211.
52. M. Keramati, B. Ayati, Petroleum wastewater treatment using a combination of electrocoagulation and photocatalytic process with immobilized ZnO nanoparticles on concrete surface, Process Safety and Environmental Protection, Vol. 126, pp. 356-365, June 2019, 10.1016/j.psep.2019.04.019
53. S. Irankhah, A. Abdi Ali, M. Mallavarapu, M.R. Soudi, S. Subashchandrabose, S. Gharavi, B. Ayati, Ecological Role of *Acinetobacter Calcoaceticus* GSN3 in Natural Biofilm Formation and its Advantages in Bioremediation, Biofouling: The Journal of Bioadhesion and Biofilm Research, Vol. 35, Issue 4, pp. 377- 391, 2019, 10.1080/08927014.2019.1597061
54. Vakili Tajareh, H. Ganjidoust, B. Ayati, Photocatalytic Removal of Azo Dye Acid Red 14 from Water by Magnetic Nanocomposite $\text{TiO}/\text{FeO}/\text{CNT}$, Journal of Color Science & Technology, Vol. 13, Issue 1, Spring 2019, pp. 75-87 (in Persian).
55. P. Zanganeh Ranjbar, B. Ayati, H. Ganjidoust, Kinetic Study on Photocatalytic Degradation of Acid Orange 52 in a Baffled Reactor using TiO_2 Nanoparticles, Journal of Environmental Sciences, Vol. 79, pp. 213-224, May 2019, 10.1016/j.jes.2018.06.012
56. P. Arbab, B. Ayati, M.R. Ansari, Application of Hydrodynamic Cavitation Process for Dye Removal and Optimization based on Energy Consumption, J. of Environmental Sciences, Vol. 16, No. 3, pp. 119- 134, Autumn 2018.
57. H. Kalhor, H. Ganjidoust, B. Ayati, H. Statistical Analysis of Simultaneous Removal of Salinity and Organic Loading from Wastewater using Phytoremediation Process, Modares Civil Engineering Journal, Vol. 18, Issue 3, pp. 207- 220, Autumn 2018 (in Persian).
58. P. Arbab, B. Ayati, M.R. Ansari, Reducing the Use of Nanotitanium Dioxide by Switching from Single Photocatalysis to Combined Photocatalysis-Cavitation in Dye Elimination, Process Safety and Environmental Protection, Vol. 121, pp. 87-93, Jan. 2019, 10.1016/j.psep.2018.10.012
59. S. Irankhah, A. Abdi Ali, M.R. Soudi, S. Gharavi, B. Ayati, Highly Efficient Phenol Degradation in A Batch Moving Bed Biofilm Reactor: Benefiting from Biofilm-Enhancing Bacteria, Journal of Microbiology and Biotechnology, Vol. 34, No. 164, Online: Oct. 2018, 10.1007/s11274-018-2543-3.
60. M. Keramati, B. Ayati, Petroleum Wastewater Treatment and Optimization of Effective Parameters using Electrocoagulation Process, Modares Civil Engineering Journal, Vol. 18, Issue 5, pp. 177- 187, Summer 2019 (in Persian).
61. H. Arabyarmohammadi, A. Khodadadi Darban, M. Abdollahy, B. Ayati, Simultaneous

- immobilization of heavy metals in soil environment by pulp and paper derived nanoporous biochars, *Journal of Environmental Health Science and Engineering*, Vol. 16, Issue 2, pp. 109–119, Dec. 2018, 10.1007/s40201-018-0294-6
62. S. Ghobadian, H. Ganjidoust, B. Ayati, N. Soltani, The Growth and Quality Optimization of *Spirulina* Biomass by Changing the Dilution of Medium and Using the Aeration Cycle, *Modares Journal of Biotechnology*, Vol. 9, Issue 3, Summer 2018, pp. 385- 393 (in Persian)
 63. M. Nazari, B. Ayati, Investigation of Anionic Surfactant Removal using Unipolar Electro-Flotation and Electro-Coagulation, *J. of Water and Wastewater*, Vol. 29, Issue 3, July and Aug. 2018, pp. 54-65, 10.22093/wwj.2017.72005.2316 (in Persian)
 64. H. Arabyarmohammadi, A.K. Darban, M. Abdollahy, R. Yong, B. Ayati, A. Zirakjou, S. E. A. T. M. van der Zee, Utilization of a Novel Chitosan/Clay/Biochar Nanobiocomposite for Immobilization of Heavy Metals in Acid Soil Environment, *Journal of Polymers and the Environment*, Vol. 26, Issue 5, pp. 2107–2119, May 2018, 10.1007/s10924-017-1102-6
 65. 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, *Environmental Science and Pollution Research*, Vol. 25, Issue 7, pp. 6826–6837, March 2018, 10.1007/s11356-017-0976-0
 66. S. Ghobadian, H. Ganjidoust, B. Ayati, N. Soltani, The Innovative Engineered Photobioreactor to Optimize the Amount of Microalgae *Spirulina* Biomass, *Nova Biologica Reperta*, Vol. 5, Issue 1 , pp. 13-25, 2018
 67. 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, *Sharif J. of Science and Technology*, Vol. 34.2, Issue 1 & 2, pp. 25- 33, Spring 2018 (in Persian)
 68. P. Zanganeh Ranjbar, B. Ayati, H. Ganjidoust, Modeling of a Photocatalytic Baffled Reactor to Degrade Colored Wastewater using Response Surface Methodology, *Modares Civil Engineering Journal*, Vol. 18, No. 1, pp. 113-122, Spring 2018 (in Persian)
 69. M. A. Ahangarnokolaie, H. Ganjidoust, B. Ayati, Optimization of Parameters of Electrocoagulation/ Flotation Process for Removal of Acid Red 14 with Mesh Stainless Steel Electrodes, *Journal of Water Reuse and Desalination*, Vol. 8, No., 2, pp.278-292, 2018, 10.2166/wrd.2017.091
 70. Sh. Taghipour, B. Ayati, M. Razaei, Study of the SBAR Performance in COD Removal of Petroleum and MTBE, *Modares Civil Engineering Journal*, Vol. 17, Issue 4, pp. 27- 37, Winter 2017 (in Persian).
 71. H. Amiri, B. Ayati, H. Ganjidoust, Elimination of Dye-Containing Material in Photocatalytic Process using Photocatalytic Cascade Disc Reactor Coated with ZnO Nano-Particles, *Modares Civil Engineering Journal*, Vol. 17, No. 2, pp. 11-20, Summer 2017 (in Persian).
 72. 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)
 73. A.H. Sayyazadeh, 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, 10.22093/wwj.2016.40798 (in Persian)
 74. 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, 10.5004/dwt.2017.20779

75. 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, 10.22067/civil.v29i1.42661 (in Persian)
76. 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)
77. 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, 10.1061/(ASCE)EE.1943-7870.0001092
78. S.N. Larimi, B. Ayati, An investigation on Removal Efficiency of Direct Blue 71 by ZnO Nanoparticles and Activated Carbon Produced from Agricultural Wastes, *Iranica Journal of Energy & Environment*, Vol. 8, No.2, pp. 118- 126, Spring 2017.
79. 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, 10.5004/dwt.2017.20164
80. 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, 10.1016/j.cep.2017.03.004
81. S. 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, 10.1007/s11164-016-2740-3
82. 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)
83. 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)
84. 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)
85. 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)
86. Ayati, M. Razaeei, 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, Dec. 2016 (in Persian)
87. 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, 10.1080/15567036.2016.1156196
88. 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)
89. 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, 10.1002/ep.12407

90. 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, 10.1080/19443994.2015.1130652
91. M. Ghalebizadeh, B. Ayati, Investigation of Dye Removal Efficiency of the Photoelectrocatalytic System using Graphite and Stainless Steel as Electrodes, J. of Water and Wastewater, Vol. 27, Issue 4, pp. 26-35, Sept. and Oct. 2016 (in Persian)
92. 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, 10.1016/j.psep.2016.07.009
93. 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, 10.1007/s11356-016-6408-8
94. 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, 10.1680/jenes.16.00005
95. 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)
96. 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, 10.2166/wst.2016.013
97. 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)
98. 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)
99. 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, 10.1080/19443994.2015.1046946
100. 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)
101. 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)
102. 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)
103. 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)

104. M. Taherzadeh, 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)
105. 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, Feb. 2016, 10.17795/jhealthscope-26479
106. 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, Feb. 2016
107. 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, Jan. 2016, 10.2166/wst.2015.477
108. 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
109. 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, Dec. 2015 (in Persian)
110. 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
111. 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, 10.1039/C5RA09771A
112. A.H. Sayyazadeh, 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)
113. 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)
114. 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)
115. 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)
116. 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)
117. 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)

118. F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamoori, 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)
119. 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)
120. 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)
121. 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)
122. 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)
123. F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamoori, 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)
124. 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)
125. Rezaei, M. Safari, 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)
126. 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).
127. F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamoori, 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)
128. 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, 10.1007/s11164-013-1279-9
129. 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)
130. F. Qaderi, B. Ayati, H. Ganjidoust, R. Sarraf Mamoori, 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)
131. M. Panbehkar, B. Ayati, Comparing the Capability of NaIO₄ and NaBrO₃ Oxidants on Improving UV/TiO₂ Photocatalytic Process in Removal of Direct Blue 70 Dye, Sharif J. of Science and Technology, Vol. 30.2, Issue 4-1, pp. 57- 65 (in Persian)

132. A.H. Sayyazadeh, H. Ganjidoust, B. Ayati, Optimization of Activated Carbon Production from Almond Shell for Adsorption of Soluble Oil Contaminants, *J. of Water and Wastewater*, Vol. 25, No. 5, pp. 108- 116, Winter 2015 (in Persian)
133. Z. Minaei Zangi, H. Ganjidoust, B. Ayati, Photocatalytic Degradation of Dye using Dopping Titanium Dioxide Nano-particles and its Kinetic Study, *Journal of Color Science and Technology*, Vol. 8, No. 3, pp. 203- 211, Autumn 2014 (in Persian)
134. N. Mokhtarani, S. Khodabakhshi, B. Ayati, UV-TiO₂ Photocatalytic Degradation of Compost Leachate, *Modares Civil Engineering Journal*, Vol. 14, Special Number, pp. 137- 146, Summer 2014 (in Persian)
135. S.N. Larimi, B. Ayati, Use of Walnut and Peanut Shells Activated Carbon in Direct Blue71 Removal: Kinetic and Isotherm, *Modares Civil Engineering Journal*, Vol. 14, No. 2, pp. 27- 37, Summer 2014 (in Persian)
136. P. Hassanzadeh, H. Ganjidoust, B. Ayati, Degradation of Oxytetracycline by Nano Zero Valent Iron under UV-A Irradiation: Chemical Mechanism and Kinetic, *Advances in Environmental Research*, Vol. 3, No. 1, pp. 29- 43, 2014
137. M. Safari, A. Rezaei, B. Ayati, A. Joneidi Jafari, Autohydrogenotrophic Denitrification by a Bioelectrochemical Process: A Viability Study, *Iranian Journal of Health, Safety & Environment*, Vol. 1, No. 2, pp. 53- 58, 2014 (in Persian)
138. M. Safari, A. Rezaei, B. Ayati, A. Joneidi Jafari, Bio-electrochemical Reduction of Nitrate utilizing MWCNT Supported on Carbon Base Electrodes: A Comparison Study, *Journal of the Taiwan Institute of Chemical Engineers*, Vol. 45, Issues 5, pp. 2212- 2216, 2014
139. H. Zamankhan Malayeri, B. Ayati, H. Ganjidoust, Photocatalytic Phenol Degradation by Immobilized Nano ZnO: Intermediates & Key Operating Parameters, *Water Environment Research*, Vol. 86, No. 9, Sept. 2014, pp. 771-778(8), 10.2175/106143014X13975035526301
140. M. Tafazzoli, H. Ganjidoust, B. Ayati, Study of Phytoremediation Capability in Sulfate Removal from Water, *J. of Water and Wastewater*, Vol. 25, No. 3 (91), pp. 48- 56, Fall 2014 (in Persian)
141. R. Nayebi Gavgani, B. Ayati, H. Ganjidoust, Efficiency of Immobilized Nano-TiO₂ on Concrete Surface in AB113 removal, *J. of Water and Wastewater*, Vol. 25, No. 2 (90), pp. 99- 107, Summer 2014 (in Persian)
142. F. Qaderi, B. Ayati, Comparison of MBBR and SBAR in Treating Toxic Formaldehyde Wastewater, *Journal of Civil & Environmental Engineering*, University of Tabriz, Vol. 44.1, Issue 74, pp. 99-106, Summer 2014 (Research Note in Persian)
143. M. Panbehkar, B. Ayati, The Effect of Na₂S₂O₈ Oxidant on Improving the Efficiency of Photocatalytic Process of Nano-TiO₂ Immobilized on Concrete in DB71 Removal, *Iran. J. Health & Environ.*, Vol. 7, No. 1, pp. 105- 114, Spring 2014 (in Persian)
144. M. Delnavaz, B. Ayati, H. Ganjidoust, S. Sanjabi, Optimization and Prediction of Photocatalytic Process of Nano Titania Immobilized on Concrete Surface for Treating Phenolic Water, *Iran Water Resources Research (IR-WRR)*, Vol. 9, No. 3, pp. 75-87, Winter 2014
145. S. Pashazanousi, B. Ayati, H. Ganjidoust, Investigation of Tubifex Worms Potential in Mass and Volume Reduction of Sludge Wastewater Treatment Plants in Laboratory Scale, *J. of Water and Wastewater*, Vol. 24, No. 88, pp. 59- 65, Winter 2014 (in Persian)
146. L. Moradipasand, B. Ayati, Study of Reactive Blue 171 Dye Degradation in Hybrid System of UV/H₂O₂ & SBAR, *Iran. J. Health & Environ.*, Vol. 6, No. 3, pp. 393- 406, Fall 2014 (in Persian)

147. Allafipour, H. Ganjidoust, B. Ayati, Determination of Nitrate and Phosphate Optimal Ratio in Phytoremediation Process (Case Study: Pampas Grass and Bamboo VtIndy), Environmental Sciences, Vol. 11, No. 3, pp. 15-24, Autumn 2013 (in Persian)
148. M. Ghodsian, B. Ayati, H. Ganjidoust, Determination of Optimum Amounts of Effective Parameters in Reactive Dyes Removal using Photocatalytic Reactions by Immobilized TiO₂ Nano Particles on Concrete Surface, J. of Water and Wastewater, Vol. 24, No. 87, pp. 45- 53, Fall 2013 (in Persian)
149. F. Khalil Aria, B. Ayati, Application of Artificial Neural Networks for Predicting COD Removal Efficiencies of Rotating Disks and Packed-cage RBCs in Treating Hydroquinone, Iranian Journal of Science And Technology (IJST), Vol. 37, No. C2, pp. 325- 336, Aug. 2013.
150. P. Hassanzadeh, H. Ganjidoust, B. Ayati, Optimum Condition of Removal Oxy Tetracycline Aqueous Solutions by Nano Zero Valent Iron in Oxidation and Photo-oxidation Processes, Iranian Journal of Chemistry & Chemical Engineering (IJCCE), Vol. 32, No. 1, pp. 25- 33, Spring 2013 (in Persian)
151. Dehnavi, H. Ganjidoust, B. Ayati, G. Emtiazi, Abrupt Cold Temperature Shock Effect on Nitrification Rate, Sharif Civil Engineering Journal, Vol. 29, Issue 1, pp. 65- 72, Spring 2013 (in Persian)
152. H.R. Babaei, H. Ganjidoust, B. Ayati, Lead Removal from Wastewater by Adsorption using Ash and Sawdust, Modares Civil Engineering Journal, Vol. 13, Supplement, pp. 17- 26, Spring 2013 (in Persian)
153. A. Khodadadi, B. Ayati, F. Bineshian, Bacteriological Modeling of Semnan Drinking Water Distribution, Modares Civil Engineering Journal, Vol. 12, No. 4, pp. 91- 98, Winter 2012 (in Persian)
154. B. Ayati, P. Hassanzadeh, R. Nayeibi Gavvani, Comparison of Electro-Coagulation and Photo-Oxidation UV/O₃ Processes in Removal of Acid Blue 113, J. of Water and Wastewater, Vol. 23, No. 84, pp. 88-96, Winter 2013 (in Persian)
155. H. Zamankhan, B. Ayati, H. Ganjidoust, Photocatalytic Degradation of Phenol by Immobilized Nano ZnO on Concrete Surface, Iranian Journal of Chemistry & Chemical Engineering (IJCCE), Vol. 31, No. 3 & 4, pp. 9- 19, Fall & Winter 2013 (in Persian)
156. L. Siroos Rezaei, B. Ayati, H. Ganjidoust, Cultivation of Aerobic Granules in a Novel Configuration of Sequencing Batch Airlift Reactor, J. of Environmental Technology, Vol. 33, No. 20, pp. 2273- 2280, Oct. 2012, 10.1080/09593330.2012.665490
157. F. Khalil Aria, B. Ayati, H. Ganjidoust, Comparison of Conventional and Packed-Cage RBC in Hydroquinone Removal, Modares Civil Engineering Journal, Vol. 12, No. 3, pp. 11-20, Fall 2012 (in Persian)
158. M. Delnavaz, B. Ayati, H. Ganjidoust, S. Sanjabi, Kinetics Study of Photocatalytic Process for Treatment of Phenolic Wastewater by TiO₂ Nano Powder Immobilized on Concrete Surfaces, Toxicological & Environmental Chemistry, Vol. 94, No. 6, July 2012, pp. 1086- 1098
159. Dehnavi, H. Ganjidoust, B. Ayati, G. Emtiazi, Partial and Complete Nitrification Comparison in order to Use Side Stream Processes, J. of Water and Wastewater, Vol. 23, No. 82, pp. 9-21, Summer 2012 (in Persian)
160. M. Shakeri, H. Ganjidoust, B. Ayati, Possibility of Nitrogen Removal by USBF System & Determination of Its Optimum Detention Time, J. of Environmental Sciences, Vol. 9, No. 3, pp. 15- 26, Spring 2012 (in Persian)

161. N. Barzegar Marvasti, B. Ayati, H. Ganjidoust, Effect of Food Wastes on Sludge Dewatering Capability, Journal of Food Science and Technology, Vol. 9, No. 34, pp. 1-11, Spring 2012 (in Persian)
162. F. Fallahi, B. Ayati, H. Ganjidoust, Lab Scale Study of Nitrate Removal by Phytoremediation, J. of Water and Wastewater, Vol. 23, No. 1, p. 57- 65, Spring 2012 (in Persian)
163. M. Goshayeshi, B. Ayati, H. Ganjidoust, Management of Solid Waste Recycle in Semnan Industrial Estate, Human and Environment, Vol. 19, No. 1, pp. 49-56, Winter 2012 (in Persian)
164. Kh. Javadi, B. Ayati, H. Ganjidoust, Comparison of Moving Bed Biofilm and Sequencing Batch Reactors in Salty Wastewater Treatment of Food Industries, Journal of Food Science and Technology, Vol. 8, No. 33 (1, pp.67-76), Winter 2012 (in Persian).
165. F. Qaderi, B. Ayati, H. Ganjidoust, Comparing the Efficiency of MBBR and SBR in Treating Wastewater Containing Formaldehyde, Vol. 43, No. 2, pp. 43-50, Winter 2012 (in Persian)
166. F. Qaderi, B. Ayati, H. Ganjidoust, Role of Moving Bed Biofilm Reactor and Sequencing Batch Reactor in Biological Degradation of Formaldehyde Wastewater, Iran. J. Environ. Health Sci. Eng., Vol. 8, No. 4, pp. 295-306, Winter 2011
167. Z. Kafi, H. Ganjidoust, B. Ayati, Study of Dye Removal from Aqueous Solution using Sawdust and Clay, Modares Civil Engineering Journal, Vol. 11, No. 3, pp. 67-76, Autumn 2011 (in Persian)
168. A.H. Andalib, H. Ganjidoust, B. Ayati, A. Khodadadi, Investigation of Amount and Effective Factors on Tri Halo-Methane Production in Potable Water of Yazd, Iran. J. Health & Environ., Vol. 4, No. 2, pp. 137- 148, Summer 2011 (in Persian)
169. N. Sharifzadeh, B. Ayati, H. Ganjidoust, Survey on Soft-Wares and Introducing Emission Model for SO₂ & H₂S in the Ground Level, J. of Environmental Sciences, Vol. 8, No. 4, pp. 29-42, Summer 2011 (in Persian)
170. M. Delnavaz, B. Ayati, H. Ganjidoust, S. Sanjabi, Comparison Between Epoxy and Waterproof Sealers in TiO₂ Immobilization on Concrete Surface for Treating Phenolic Wastewater, Modares Civil Engineering Journal, Vol. 11, No. 2, pp. 17-28, Summer 2011 (in Persian)
171. Sh. Shafipour, B. Ayati, H. Ganjidoust, Reuse of Sewage Sludge for Agricultural Soil Improvement (Case Study: Kish Island), J. of Water and Wastewater, Vol. 22, No. 2, pp. 85- 93, Summer 2011 (in Persian)
172. H. Raftari, H. Moazzemi, H. Ganjidoust, B. Ayati, Effects of Natural Absorbents on Copper and Lead Removal, J. of Environmental Sciences, Vol. 8, No. 3, pp. 97- 108, Spring 2011 (in Persian)
173. M. Pakzad Shahabi, B. Ayati, H. Ganjidoust, Effect of Natural Polymer in Accelerating Granule Formation in Anaerobic Baffled Reactor, Iranian Journal of Chemistry & Chemical Engineering (IJCCE), Vol. 29, No. 4, pp. 9-16, Winter 2011 (in Persian)
174. S. Fartoos, H. Ganjidoust, B. Ayati, Determining the Optimized Hydraulic Retention Time in the USBF Reactor for Biological Phosphorus Removal, Iranian Journal of Chemistry & Chemical Engineering (IJCCE), Vol. 29, No. 4, pp. 1-8, Winter 2011 (in Persian)
175. M. Meschi Nezami, H. Ganjidoust, N. Mokhtarani, B. Ayati, Investigation of PHA Polymer Production from Sludge of Municipal Wastewater Treatment Plant and Its Effect on Sludge Volume Reduction, Iran. J. Health & Environ., Vol. 3, No. 4, pp.451-460, Winter 2011 (in Persian)
176. S.H. Mousavi, B. Ayati, H. Ganjidoust, Study of RBC Efficiency in Aniline Removal with Increasing Contactors Specific Surface, J. of Water and Wastewater, Vol. 21, No. 4, pp. 20- 27, Winter 2010 (in Persian)

177. L. Siroos Rezaei, B. Ayati, H. Ganjidoust, Effect of Polymer & Reactor on Aerobic Granulation in SBAR for Wastewater Treatment, *Civil & Environmental Engineering Journal*, Vol. 40, No. 3, pp. 99- 105, Autumn 2010 (in Persian).
178. H. Ganjidoust, N. Mokhtarani, B. Ayati, M. Gafarpour, Production of PHAs by Activated Sludge using Municipal Wastewater, *Iranian Journal of Chemistry & Chemical Engineering (IJCCE)*, Vol. 29, No. 3, pp. 169-177, Autumn 2010 (in Persian)
179. M. Delnavaz, B. Ayati, H. Ganjidoust, S. Sanjabi, Optimization of Photo-Catalytic Process by TiO₂ Nano Powder Immobilized on Concrete Surface for Treatment of Phenolic Wastewater, *Environmental Engineering and Management Journal*, Vol. 10, No. 10, pp. 1459- 1466, Oct. 2011
180. M. Shakerkhatibi, H. Ganjidoust, B. Ayati, E. Fatehifar, Performance of Aerated Submerged Fixed-Film Bioreactor for Treatment of Acrylonitrile-Containing Wastewater, *J. of Environ Health Sci. Eng., Iran. J. Health & Environ.*, Vol. 7, No. 4, pp. 327-336, 2010
181. R. Vagheei, H. Ganjidoust, A.A. Azimi, B. Ayati, Removal of Nitrate from Drinking Water and Food Processing Water in a Hydrogenised Biofilter, *Journal of Food Science and Technology*, Vol. 7, No. 2, pp. 85- 93, Summer 2010 (in Persian)
182. M. Shakerkhatibi, H. Ganjidoust, B. Ayati, E. Fatehifar, R. Saffarian, Akrylovnytryl Removal from Synthetic Wastewater using Laboratory Scale ASFFR, *Journal of Civil & Environmental Engineering, University of Tabriz*, Vol. 40, No. 1 (Serial 61), pp. 21-31, Spring 2011 (in Persian)
183. R. Vagheei, H. Ganjidoust, A.A. Azimi, B. Ayati, Treatment of Nitrate-Contaminated Drinking Water by Autotrophic Denitrification in A Hydrogenised Biofilter, *J. of Water and Wastewater*, No.1, pp. 34-39, Spring 2010 (in Persian)
184. M. Delnavaz, B. Ayati, H. Ganjidoust, Prediction of Moving Bed Biofilm Reactor (MBBR) Performance for Treatment of Aniline using Artificial Neural Networks (ANN), *Journal of Hazardous Materials*, Vol. 179, pp. 769-775, 2010
185. R. Vagheei, H. Ganjidoust, A.A. Azimi, Nitrate Removal from Drinking Water in a Packed- Bed Bioreactor Coupled by a Methanol Based Electrochemical Gas Generator, *Environmental Progress & Sustainable Energy*, Vol. 29, No. 3, pp. 278- 285, Oct. 2010, 10.1002/ep.10404
186. M. Delnavaz, B. Ayati, H. Ganjidoust, S. Sanjabi, Feasibility of Immobilized Concrete by Nano TiO₂ for the Treatment of Phenolic Wastewater, *Journal of Civil & Environmental Engineering, University of Tabriz*, Vol. 39, No. 4 (Serial 60), pp. 13-22, Winter 2010 (in Persian)
187. M. Eshraghi, B. Ayati, H. Ganjidoust, Investigating of Nitrogen Removal Efficiency from Wastewater using Modified Anaerobic Baffled Reactor (MABR), *Iran. J. Health & Environ.*, Vol. 2, No. 4, pp.284-295, Winter 2010 (in Persian)
188. M. Zebardast, H. Ganjidoust, B. Ayati, USBF Performance in Nitrogen Removal and Determination of Reactor Optimum Conditions, *J. of Civil & Environmental Engineering Journal, University of Tabriz*, Vol. 39, No. 3 (Serial 59), pp. 1-9, Autumn 2009 (in Persian)
189. M. Mirabi, H. Ganjidoust, A. Rashidi Mehrabadi, B. Ayati, Use of Particle Counting to Optimize Water Treatment Plants Operation, *J. of Civil & Environmental Engineering, University of Tabriz*, Vol. 39, No. 2 (Serial 58), pp. 55-67, Summer 2009 (in Persian)
190. A.K. Darban, B. Ayati, N. Yong, A. Khodadadi, A. Kiaee, Enhanced Electro-Kinetic Remediation of Mercury-Contaminated Tailing Dam Sediments, *Journal of ASTM International (JAI)*, Vol. 6, No. 5, 2009, 10.1520/stp48916s

191. M. Mohammadiun, B. Ayati, H. Ganjidoust, Effect of Chitosan and Poly-Acryl Amid on Accelerating Granule Formation Rate in UASB Reactor, J. of Civil & Environmental Engineering, University of Tabriz, Vol. 39, No. 1 (Serial 57), pp.45-52, Spring 2009 (in Persian)
192. H. Ganjidoust, B. Ayati, H. Khara, S.H. Khodaparast, A. Akbarzadeh, T. Ahmadzadeh Layeghi, Sh.A. Nezami, K. Zolfinezhad, Investigation of Environmental Pollution in Shiah Keshim Wetland, J. of Environmental Sciences, Vol. 6, No. 3, pp.117-132, Spring 2009 (in Persian)
193. M. Delnavaz, B. Ayati, H. Ganjidoust, Reaction Kinetics of Aniline Synthetic Wastewater Treatment by Moving Bed Biofilm Reactor, Iran. J. Health & Environ., Vol. 2, No. 1, pp. 76-87, Spring 2009 (in Persian)
194. M. Ahmadi, H. Ganjidoust, B. Ayati, USBF Performance in Treating Sugar Industries Wastewater, Iran. J. Health & Environ., Vol. 1, No. 2, pp.113-120, Winter 2008 (in Persian)
195. M. Shakerkhatibi, H. Ganjidoust, B. Ayati, E. Fatehifar, Isolation and Identification of an Acrylonitrile-degrading Bacterial Strain from a Petrochemical Wastewater Treatment System Activated Sludge and Its Efficiency in Acrylonitrile Removal, J. of School of Public Health & Institute of Public Health Research, Vol. 6, No. 3 & 4, pp. 118-129, Autumn & Winter 2008 (in Persian)
196. M. Delnavaz, B. Ayati, H. Ganjidoust, Treatment of Wastewater Containing Aniline using a Moving Bed Biofilm Reactor (MBBR), J. of Water and Wastewater, Vol. 19, No. 68, pp. 9-18, Summer 2008 (in Persian)
197. R. Noori, B. Ayati, H. Ganjidoust, Investigation of Surfactant Removal using Moving Bed Biofilm Reactor (MBBR), J. of Environmental Sciences, Vol. 5, No. 4, pp. 123-134, Summer 2008 (in Persian)
198. M. Delnavaz, B. Ayati, H. Ganjidoust, Biodegradation of Aromatic Amine Compounds using Moving Bed Biofilm Reactors, Iranian J. of Environ Health Sci. Eng., Vol. 5, No. 4, 243-250, 2008
199. S. Partani, B. Ayati, S.A. Mousavi Naeini, Introduction of Productive Systems in Use of Marin Energy Considering International Experiences, J. of Civil & Water, No. 13, pp. 8-13, Summer 2008 (in Persian)
200. Ayati, H. Ganjidoust, M. Mirfattah, Degradation of Aromatic Compounds using Moving Bed Biofilm Reactors, Iranian J. of Environ Health Sci. Eng., Vol. 4, No. 4, pp. 107-112, 2007
201. H. Ganjidoust, B. Ayati, Use of Hybrid Reactor in Treating Cellulose Wastewater, J. of Environment and Pollution, Vol. 31, No. 1-2, pp. 210-218, 2007, 10.1504/IJEP.2007.015676
202. Ayati, H. Ganjidoust, Comparing the Efficiency of UAFF, UASB with Hybrid Reactor in Treating Wood Fiber Wastewater, The Iranian J. of Environmental Health Sci. & Eng., Vol. 3, No. 1, Winter 2006
203. B. Ayati, S. Fartoos, M. Delnavaz, Investigation of New Technologies in Environmental Engineering (Water and Wastewater Treatment), J. of Civil & Water, No. 3-4, pp. 25-29, Winter 2005 & Spring 2006 (in Persian)
204. H. Ganjidoust, B. Ayati, Natural and Synthetic Polymers Effect on Rate of Granulation in UASB System, J. of Polymers, Vol. 18, No. 1, pp. 29-35, Autumn 2005 (in Persian)
205. H. Ganjidoust, M. Borghei, A. Badkoubi, B. Ayati, Design of Hybrid Reactors in Wood Fiber Wastewater Treatment, Modares Civil Engineering Journal, No. 21, pp. 49-57, Autumn 2005 (in Persian)

206. H. Ganjidoust, B. Ayati, Use of Sequencing Batch Reactors (SBRs) in Treatment of Wood Fiber Wastewater, Iranian J. of Environmental Health Sci. & Eng., Vol. 1, No. 2, pp. 91- 96, Autumn 2004
207. H. Ganjidoust, B. Ayati, Water and Wastewater Minimization Plan in Food Industries, Water Science and Technology, Volume 45, Number 12, pp. 361-365, 2002
208. H. Ganjidoust, M. Vosoughi, B. Ayati, Treatment of the Cellulose Wastewater by Sequencing Batch Reactor, International J. of Engineering Sciences, Vol. 12, No. 2, pp. 87-98, Summer 2001 (in Persian)
209. B. Ayati, Y. Tanha, Biomass: Renewable Energy, Mechanic Letter of Sharif, Vol. 3, No. 8, pp. 71-81, Summer 2000 (in Persian)
210. H. Ganjidoust, M. Vosoughi, B. Ayati, The Effect of Polymers on the Cellulose Wastewater Treatment and Their Comparison with Chemical Coagulants, J. of Polymers, Vol. 13, No.1, pp. 37-43, Spring 2000 (in Persian)

THESIS

- Ph.D. Thesis: Determination of Mathematical Model in Treating Cellulosic Wastewater, under Supervision of Prof. H. Ganjidoust & Prof. M. Borghei, 2002-2005
- M.Sc. Thesis: Effect of Synthetic and Natural Polymers and Chemical Coagulants on Color, Turbidity Removal and Efficiency of Biological Treatment of Industrial Wastewaters, under Supervision of Prof. H. Ganjidoust & Prof. M. Vosughi, 1997-1998
- B.Sc. Project: Design of Penicillin G Production Unit, under supervision of Dr. A. Kheiolomum & Eng. A. Kazemi, 1995-1996