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**EDUCATION**

**Ph.D In Biotechnology**Universite Montepellier 2 2001-2005  
**M.Sc In Chemical Engineering-Biotechnology**Sharif University of Technology 1994-1996  
**B.Sc In Chemical Engineering-Gas Process**Sharif University of Technology 1989-1994

**PUBLICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **4256** | **28** | **131** | **114** | **3** |
| Citations | h-Index | Article | Conference | Book |

***Articles***

**1.** A comparative study of the action mechanisms and development strategies of different ZnO-based nanostructures in antibacterial and anticancer applications. Ghaffari Seyed Behnam, Sarrafzadeh Mohammad Hossein, Salami Maryam, Alvandi Arvin (2024)., JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, 91(91), 105221.  
  
**2.** Cationic cellulose filter papers modified with ZnO/Ag/GO nanocomposite as point of use gravity-driven filters for bacterial removal from water. Ghaffari Seyed Behnam, Sarrafzadeh Mohammad Hossein (2023)., Scientific Reports, 13(1), 1-13.  
  
**3.** 2D-CFD Analysis of Diffusers used to Discharge Brine into Water Bodies. Moshiri tabrizi Iman, Sarrafzadeh Mohammad Hossein, Sotudeh Gharebagh Rahmat (2023)., Journal of Chemical and Petroleum Engineering, 57(2).  
  
**4.** Molecular insight into water desalination mechanism through g-C3N4 nano-slit membranes: Effect of slit sizes, terminal groups, and number of layers. Madhoush Mohammad-Reza, Sarrafzadeh Mohammad Hossein, Hosseinian Serajehloo Akram (2023)., JOURNAL OF MOLECULAR LIQUIDS, 392(12), 123532.  
  
**5.** Using an anti-fouling electro- (stainless-steel/ PVC) membrane reactor in electrocoagulation process for arsenic removal: Experimental study and mechanism development in multiphase media using CFD. Salmanipour Salar, Sokhansanj Amin, Sarrafzadeh Mohammad Hossein, Akbari Ali (2023)., Journal of Environmental Chemical Engineering, 11(6), 111168.  
  
**6.** Superparamagnetic 3-mercaptopropionic acid capped FePt nanoparticles as delivery carriers of curcumin and their preferential cytotoxic effect on MDA-MB-231 breast cancer cells. Ghaffari Seyed Behnam, Sarrafzadeh Mohammad Hossein (2023)., Journal of Food and Bioprocess Engineering, 6(2), 1-7.  
  
**7.** Optimizing Sulfate Radical Based Advanced Oxidation Process for Reducing Effluent Organic Matter of Pulp and Paper Mill Wastewater Using Response Surface Method. Tahmasebi Ali, Sarrafzadeh Mohammad Hossein, غفاری سید بهنام (2023)., Journal of water and wastewater science and engineering, 8(3), 47-58.  
  
**8.** Reducing freshwater consumption in pulp and paper industries using pinch analysis and mathematical optimization. Esmaeili Ali, Sarrafzadeh Mohammad Hossein (2023)., Journal of Water Process Engineering, 53(103646), 103646.  
  
**9.** A Comprehensive Review on Pulp and Paper Industries Wastewater Treatment Advances. Esmaeili Ali, Sarrafzadeh Mohammad Hossein, Zeighami Siavash, Kalantar Masoud, Ghasemzadeh Bariki Saeed, Fallahi Alireza, Asgharnejad Hashem, Ghaffari Seyedbehnam (2023)., INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 62(21), 8119-8145.  
  
**10.** Basic principles and effective parameters for microalgae–bacteria granulation in wastewater treatment: a mini review. Rezvani Fariba, Sarrafzadeh Mohammad Hossein (2023)., International Journal of Environmental Science and Technology, 20(3), 3371-3384.  
  
**11.** A backoff approach to design of optimally flexible water networks under uncertainty. Fathi Moghaddam Amir M., Sahlodin Ali Mohammad, Sarrafzadeh Mohammad Hossein (2022)., JOURNAL OF CLEANER PRODUCTION, 371(133396), 133396.  
  
**12.** Editorial: Artificial Intelligence in Environmental Microbiology. Sarrafzadeh Mohammad Hossein, Mansouri Seyed Soheil, Zahiri Javad, Mussatto Solange I., Asgharnejad Hashem (2022)., Frontiers in Microbiology, 13(944242).  
  
**13.** Integrated CO2 Capture and Nutrient Removal by Microalgae Chlorella vulgaris and Optimization Using Neural Network and Support Vector Regression. Haji Najaf Nima, Fallahi Alireza, Rabbani Yahya, Tavakoli Omid, Sarrafzadeh Mohammad Hossein (2022)., Waste and Biomass Valorization, 13(12), 4749-4770.  
  
**14.** Developing Water Source Diagram method for effective utilization of regeneration unit in water networks: Multiple-contaminant problems. Francisco Flavio S., Bavar Mostafa, Pessoa Fernando L.P, Queiroz Eduardo M., Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein (2022)., Journal of Water Process Engineering, 47(102758), 102758.  
  
**15.** Surface modification of thin-film nanocomposite forward osmosis membrane with super-hydrophilic MIL-53 (Al) for doxycycline removal as an emerging contaminant and membrane antifouling property enhancement. Samsami Shakiba, Sarrafzadeh Mohammad Hossein, Ahmadi Abas (2022)., CHEMICAL ENGINEERING JOURNAL, 431(2), 133469.  
  
**16.** Investigation of Techno-Economical Replacement of Solar Distillation Systems with Household Water Purifiers. Ahmadi Abas, Sarrafzadeh Mohammad Hossein, Razavi Seyed Mohammad, Abbasjoobi Mehran (2022)., Iranian Chemical Engineering, 20(119), 7-21.  
  
**17.** Foulant layer degradation of dye in Photocatalytic Membrane Reactor (PMR) containing immobilized and suspended NH2-MIL125(Ti) MOF led to water flux recovery. Ahmadi Abas, Sarrafzadeh Mohammad Hossein, Hosseinian Serajehloo Akram, Ghaffari Seyedbehnam (2022)., Journal of Environmental Chemical Engineering, 10(1), 106999.  
  
**18.** Circular economy in petroleum industries: implementing Water Closed Loop System. Sarrafzadeh Mohammad Hossein (2022).  
  
**19.** Economic Evaluation of Water Desalination and Power Generation Using Flare Gases of Assulyeh. Jafari Mostafa, Sarrafzadeh Mohammad Hossein, Deljoo Mohammad Shahab (2021)., Iranian Journal of Gas Engineering, 8(13), 7-17.  
  
**20.** Studying Water Network Optimization Plans in a Process Industry to Reduce Water Consumption: Comparing Direct Reuse and Regeneration-Reuse Approaches. Bavar Mostafa, Sarrafzadeh Mohammad Hossein, Sarhadi Alireza (2021).  
  
**21.** Biomass quantification and 3-D topography reconstruction of microalgal biofilms using digital image processing. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein, Abhar shekofteh Omid, Khorshidi nazloo Ehsan, Oh Hee-mock (2021)., Algal Research-Biomass Biofuels and Bioproducts, 55(55), 102243.  
  
**22.** A coupled hydrodynamic‐biokinetic simulation of three‐phase flow in an oxidation ditch using CFD. Norouzi-firouz Hossein, Sarrafzadeh Mohammad Hossein, Zarghami Reza, Moshiri Tabrizi Iman (2021)., CANADIAN JOURNAL OF CHEMICAL ENGINEERING, 99(12), 1-14.  
  
**23.** Aquatic center sewage reclamation and water reuse, using an integrated system combining adsorption, RO membrane system, and TiO2/Fe3O4 photocatalytic oxidation. Izadpanah Maryam, Sarrafzadeh Mohammad Hossein, Rezaei-dashtarzhandi Masoud, صمد وجودی (2021)., Journal of Environmental Chemical Engineering, 9(1), 104957.  
  
**24.** EVALUATION OF PHOSPHATE AND AMMONIUM ADSORPTION DESORPTION OF SLOW PYROLYZED WOOD BIOCHAR. Rezaee Masood, Giti Pour Saeid, Sarrafzadeh Mohammad Hossein (2021)., Environmental Engineering and Management Journal, 20(2), 217-227.  
  
**25.** Simulation and economic evaluation of heat and power generation from flare gases in a combined cycle power plant. Jafari Mostafa, Sarrafzadeh Mohammad Hossein, Ghasemzadeh Kamran (2020)., Energy Equipment and Systems, 8(4), 307-322.  
  
**26.** Nitrate and Phosphate Removal Efficiency of Synechococcus elongatus Under Mixotrophic and Heterotrophic Conditions for Wastewater Treatment. Pishbin Mahsa, Sarrafzadeh Mohammad Hossein, Faramarzi Mohammad Ali (2020)., Iranian Journal of Science and Technology-Transactions of Civil Engineering, 12(9), 1-13.  
  
**27.** Recent advances in the treatment of dye-containing wastewater from textile industries: Overview and perspectives. Samsami Shakiba, MOHAMMADI MARYAM, Sarrafzadeh Mohammad Hossein, Rene Eldon Raj, Firoozbahr Meysam (2020)., PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, 143(143), 138-163.  
  
**28.** Cultivation of Mixed Microalgae Using Municipal Wastewater: Biomass Productivity, Nutrient Removal, and Biochemical Content. Fallahi Alireza, Haji Najaf Nima, Tavakoli Omid, Sarrafzadeh Mohammad Hossein (2020)., Iranian Journal of Biotechnology, 18(4), 88-97.  
  
**29.** Development of Digital Image Processing as an Innovative Method for Activated Sludge Biomass Quantification. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein (2020)., Frontiers in Microbiology, 11(9).  
  
**30.** Investigation on polysulfone blended NH2-MIL125 (Ti) membrane for photocatalytic degradation of Methylene Blue dye. Ahmadi Abas, Sarrafzadeh Mohammad Hossein, MOHAMMADI MARYAM, Mahdigholian Zeynab, Hosseinian Serajehloo Akram (2020)., Journal of Water and Environmental Nanotechnology, 5(3), 234-245.  
  
**31.** Autotrophic granulation of hydrogen consumer denitrifiers and microalgae for nitrate removal from drinking water resources at different hydraulic retention times. Rezvani Fariba, Sarrafzadeh Mohammad Hossein (2020)., JOURNAL OF ENVIRONMENTAL MANAGEMENT, 268(268), 110674.  
  
**32.** Enhancing the desalination performance of forward osmosis membrane through the incorporation of green nanocrystalline cellulose and halloysite dual nanofillers. Rezaei-dashtarzhandi Masoud, Sarrafzadeh Mohammad Hossein, Goh Pei Sean, Lau Woei Jye, Ahmad Fauzi Ismail, Wong Kar chun, Mohamed Mohamad Azuwa (2020)., JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, 95(9), 2359-2370.  
  
**33.** A pH-sensitive delivery system based on N-succinyl chitosan-ZnO nanoparticles for improving antibacterial and anticancer activities of curcumin. Ghaffari Seyed-behnam, Sarrafzadeh Mohammad Hossein, Salami Maryam, Khorramizadeh Mohammadreza (2020)., International Journal of Biological Macromolecules, 151(151), 428-440.  
  
**34.** Investigating the Potential of Swimming Pools Sullage Reuse for Landscape Irrigation, Case Study: Tehran City. Izadpanah Maryam, Sarrafzadeh Mohammad Hossein (2020)., Journal of water and wastewater, 31(1), 99-110.  
  
**35.** Investigation of gray water properties and its recovery methods. Rezaee Masoud, Sarrafzadeh Mohammad Hossein (2020)., The Journal of Environmental Science and Technology, 21(12), 89-108.  
  
**36.** Studying the Process of Sugar Extraction from Sugarcane and Proposing Solutions to Reduce Water Consumption through Water Reuse. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein (2020)., Journal of water and wastewater science and engineering, 4(3), 50-60.  
  
**37.** Approaches to decrease water consumption in process industries with an emphasis on the oil refining industry. Sarrafzadeh Mohammad Hossein (2020)., Farayadeno, 12(60), 66-84.  
  
**38.** Hydrogen producer microalgae in interaction with hydrogen consumer denitrifiers as a novel strategy for nitrate removal from groundwater and biomass production. Rezvani Fariba, Sarrafzadeh Mohammad Hossein, Oh Hee-mock (2020)., Algal Research-Biomass Biofuels and Bioproducts, 45(101747), 101747.  
  
**39.** Interaction between Chlorella vulgaris and nitrifying-enriched activated sludge in the treatment of wastewater with low C/N ratio. Sepehri Arsalan, Sarrafzadeh Mohammad Hossein, Avateffazeli Maryam (2019)., JOURNAL OF CLEANER PRODUCTION, 247(247), 119164.  
  
**40.** Different Pathways to Integrate Anaerobic Digestion and Thermochemical Processes: Moving Toward the Circular Economy Concept. Rezaee Masoud, Giti Pour Saeid, Sarrafzadeh Mohammad Hossein (2019)., Environmental Energy and Economic Research, 4(1), 57-67.  
  
**41.** Flower-like curcumin-loaded folic acid-conjugated ZnO-MPA- βcyclodextrin nanostructures enhanced anticancer activity and cellular uptake of curcumin in breast cancer cells. Ghaffari Seyed-behnam, Sarrafzadeh Mohammad Hossein, Fakhroieyan Zahra, Khorramizadeh Mohammadreza (2019)., Materials Science and Engineering: C, 103(-), 109827.  
  
**42.** Activity enhancement of ammonia-oxidizing bacteria and nitrite-oxidizing bacteria in activated sludge process: metabolite reduction and CO2 mitigation intensification process. Sepehri Arsalan, Sarrafzadeh Mohammad Hossein (2019)., Applied Water Science, 9(5).  
  
**43.** Development of novel thin film nanocomposite forward osmosis membranes containing halloysite/graphitic carbon nitride nanoparticles towards enhanced desalination performance. Rezaei-dashtarzhandi Masoud, Sarrafzadeh Mohammad Hossein, Goh Pei-sean, Law W.j, Fauzi Ismail Ahmad, Mohamed Mohamad Azuwa (2018)., Desalination, 447(-), 18-28.  
  
**44.** Water management methods in food industry: Corn refinery as a case study. Bavar Mostafa, Sarrafzadeh Mohammad Hossein, Asgharnejad Hashem, Norouzi-firouz Hossein (2018)., JOURNAL OF FOOD ENGINEERING, 238(-), 78-84.  
  
**45.** Variation of fatty acids composition in the hydrocarbon producer Botryococcus braunii BOT 22. Sadeghin Bahare, Sarrafzadeh Mohammad Hossein, Jin Jian, Dupre Catherine, Watanabe Makoto, Legrand Jack, Grizeau Dominique (2018)., BIOMASS & BIOENERGY, 119(-), 456-461.  
  
**46.** The impact of morphology and size of zinc oxide nanoparticles on its toxicity to the freshwater microalga, Raphidocelis subcapitata. Samei Mahya, Sarrafzadeh Mohammad Hossein, Faramarzi Mohammad Ali (2018)., Environmental Science and Pollution Research, -(-), -.  
  
**47.** Modeling of Fermentation Process of Bacillus Thuringiensis as a Sporulating Bacterium. Soleimani Soroush, Sarrafzadeh Mohammad Hossein, Mostoufi Navid (2018)., Chemical Product and Process Modeling, 0(0), 1-10.  
  
**48.** Cellulose acetate electrospun nanofibers for drug delivery systems: Applications and recent advances. Khoshnevisan Kamyar, Maleki Hassan, Samadian Hadi, Shahsavari Shadab, Sarrafzadeh Mohammad Hossein, Larijani Bagher, Abedin Dorkoosh Farid, Haghpanah Vahid, Khorramizadeh Mohammadreza (2018)., CARBOHYDRATE POLYMERS, 198(-), 131-141.  
  
**49.** Optimal strategies for bioremediation of nitrate-contaminated groundwater and microalgae biomass production. Rezvani Fariba, Sarrafzadeh Mohammad Hossein, Oh Hee-mock, Hyun Seob Seong (2018)., Environmental Science and Pollution Research, 25(27), 27471-27482.  
  
**50.** Batch adsorption/desorption for purification of scFv antibodies using nanozeolite microspheres. Mesgari Shadi Ali, Sarrafzadeh Mohammad Hossein, Divband Baharak, Barar Jaleh, Omidi Yadollah (2018)., MICROPOROUS AND MESOPOROUS MATERIALS, 264(264), 167-175.  
  
**51.** Effect of nitrifiers community on fouling mitigation and nitrification efficiency in a membrane bioreactor. Sepehri Arsalan, Sarrafzadeh Mohammad Hossein (2018)., Chemical Engineering and Processing-Process Intensification, 128(-), 10-18.  
  
**52.** Investigating the Effect of Multiple Reference Frame Approach on the Modelling of an Oxidation Ditch. Norouzi-firouz Hossein, Sarrafzadeh Mohammad Hossein, Zarghami Reza (2018)., International Journal of Environmental Research, 12(4), 429-437.  
  
**53.** Evaluation of Nutrient Removal and Biomass Production Through Mixotrophic, Heterotrophic, and Photoautotrophic Cultivation of Chlorella in Nitrate and Ammonium Wastewater. Babaei Azadeh, Mehrnia Mohammad Reza, Shaygan Jalal, Sarrafzadeh Mohammad Hossein, امینی الهام (2018)., International Journal of Environmental Research, 12(2), 167-178.  
  
**54.** Technical, economic and energy assessment of an alternative strategy for mass production of biomass and lipid from microalgae. Hanafizadeh Mohammadmatin, Sarrafzadeh Mohammad Hossein, Nabati Zahra, Tavakoli Omid, Feyzizarnagh Hamid (2018)., Journal of Environmental Chemical Engineering, 6(1), 866-873.  
  
**55.** Al2O3/poly acrylonitrile nanocomposite membrane: from engineering design of pores to efficient biological macromolecules separation. Ghezelgheshlaghi Saeid, Mehrnia Mohammad Reza, مریم همایونفال, Nabizadeh Ramin, Sarrafzadeh Mohammad Hossein (2017)., JOURNAL OF POROUS MATERIALS, 25(4), 1161-1181.  
  
**56.** Phosphorus optimization for simultaneous nitrate-contaminated groundwater treatment and algae biomass production using Ettlia sp.. Rezvani Fariba, Sarrafzadeh Mohammad Hossein, Mock Oh Hee, Lindby Anderson Katharina (2017)., BIORESOURCE TECHNOLOGY, 244(11), 785-792.  
  
**57.** Functionalization of ZnO nanoparticles by 3-mercaptopropionic acid for aqueous curcumin delivery: Synthesis, characterization, and anticancer assessment. Ghaffari Seyed-behnam, Sarrafzadeh Mohammad Hossein, Fakhroueian Zahra, Shahriari Shadab, Khorramizadeh Mohammad-reza (2017)., Materials Science and Engineering: C, 79(-), 465-472.  
  
**58.** Waste to Energy from Flue Gas of Industrial Plants to Biodiesel: Effect of CO2 on Microalgae Growth. Hanifzadeh Mohammadmatin, Nabati Zahra, Tavakoli Omid, Sarrafzadeh Mohammad Hossein (2017)., International Journal of Waste Resources, 7(3), 1-4.  
  
**59.** Osmotic conditions could promote scFv antibody production in the Escherichia coli HB2151. Mesgari Shadi Ali, Sarrafzadeh Mohammad Hossein (2017)., BioImpacts, 7(3), 199-206.  
  
**60.** Investigating and Proposing a Proper Treatment System for Washing Machine Wastewater. Sarrafzadeh Mohammad Hossein, Shirouei Nargess, Tavakoli Omid (2017)., Journal of water and wastewater science and engineering, 2(2), 14-23.  
  
**61.** Nitrate removal from drinking water with a focus on biological methods: a review. رضوانی فریبا, Sarrafzadeh Mohammad Hossein, Ebrahimi Sirous, Mock Oh Hee (2017)., Environmental Science and Pollution Research, -(-), -.  
  
**62.** Technical and Economic Aspects of Water Desalination Worldwide. Rashidi Hamidreza, Sarrafzadeh Mohammad Hossein, Asgharnejad Hashem (2017)., Journal of water and wastewater science and engineering, 2(1), 28-37.  
  
**63.** Experimental optimization of SC-CO2 extraction of carotenoids from Dunaliella salina. Pour Hosseini Seyed Reza, Tavakoli Omid, Sarrafzadeh Mohammad Hossein (2017)., JOURNAL OF SUPERCRITICAL FLUIDS, 121(2017), 89-95.  
  
**64.** MBR technology: A practical approach for petrochemical wastewater treatment. Nabizadeh Ramin, Mehrnia Mohammad Reza, Bahadori Mohammad Bagher, Sadeghi Fatemeh, Sarrafzadeh Mohammad Hossein (2017)., PETROLEUM SCIENCE AND TECHNOLOGY, 35(3), 222-228.  
  
**65.** Potential for biodiesel production and carbon capturing from Synechococcus Elongatus: An isolation and evaluation study. Mashayekhi Maryam, Sarrafzadeh Mohammad Hossein, Tavakoli Omid, Soltani Neda, Faramarzi Mohammad-ali (2017)., Biocatalysis and Agricultural Biotechnology, 9(2017), 230-235.  
  
**66.** A Study on Opportunities and Drawbacks of Water Reuse in Urban Applications, Case Study of Tehran Metropolis. Rezayee Masoud, Sarrafzadeh Mohammad Hossein (2016)., Iran-Water Resources Research, 12(4).  
  
**67.** Reuse of Produced Water in Oil and Gas Fields. Sarrafzadeh Mohammad Hossein, Rezaei Bijan, Nakhaee Ali (2016)., Farayadeno, 10(54), 5-15.  
  
**68.** Comparison of different trophic cultivations in microalgal membrane bioreactor containing N-riched wastewater for simultaneous nutrient removal and biomass production. Babaie Azadeh, Mehrnia Mohammad Reza, شایگان جلال الدین, Sarrafzadeh Mohammad Hossein (2016)., PROCESS BIOCHEMISTRY, 1(1), 1-15.  
  
**69.** Biodegradation of Phenol by Using Conventional Activated Sludge Process. Darvishi Samira, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2016)., Journal of Chemical and Pharmaceutical Research, 8(5), 792-803.  
  
**70.** Microbial Community from MTBE-Contaminated Soil for Aerobic Biodegradation of MTBE. Montazeri Bahare, Sarrafzadeh Mohammad Hossein (2016)., Journal of Geoscience and Environmental Protection, 04(01), 93-99.  
  
**71.** Evaluation of different techniques for microalgal biomass quantification. Sarrafzadeh Mohammad Hossein, Joon Lab Hyun, Hyun Seob Seong, Asgharnejad Hashem, Mock Oh Hee (2015)., JOURNAL OF BIOTECHNOLOGY, 216(11), 53-58.  
  
**72.** Evaluation of Environmental Impact of Oil Leak from Pipe Corrosion in Arctic Area. Ansari Omid, Sarrafzadeh Mohammad Hossein, Tavakoli Omid (2015)., Corrosion Magazine, 15(60), 37-42.  
  
**73.** A review on EU municipal and industrial wastewater management action. Pour Hemati Hossein, Sarrafzadeh Mohammad Hossein (2015)., Iran-Water Resources Research, یازدهم(1), 97-106.  
  
**74.** Quality of Rainwater Collected from the Roof and Its Treatment Methods. Sarrafzadeh Mohammad Hossein, Rezayee Masoud (2014)., Iranian Journal of Rainwater Catchment Systems, 4(4), 41-53.  
  
**75.** Fabrication of magnetic nanocomposite membrane for separation of organic contaminant from water. Homayoonfal Maryam, Mehrnia Mohammad Reza, Shariaty Niassar Mojtaba, اکبری احمد, Sarrafzadeh Mohammad Hossein, اسماعیل احمد فوزی (2014)., Desalination and Water Treatment, 54(13), 1-7.  
  
**76.** Aeration effects on metabolic events during sporulation of Bacillus thuringiensis. Sarrafzadeh Mohammad Hossein, Galindo Sabine, La Hyun-joon, Oh Hee-mock (2014)., JOURNAL OF MICROBIOLOGY, 52(7), 597-603.  
  
**77.** Determination of ozone adsorption in activated sludge system and its effect on sludge properties. Ghandehari Sara, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, محمدی احمدرضا, Pajoum-shariati Farshid (2014)., Desalination and Water Treatment, 54(13), 1-7.  
  
**78.** Investigation of Sporulation Phase in a Biosurfactant Producing Culture for Application in Microbial‐Enhanced Oil Recovery. Sarrafzadeh Mohammad Hossein, Abi Akram, Mehrnia Mohammad Reza (2014)., CHEMIE INGENIEUR TECHNIK, 86(9), 1484.  
  
**79.** Effect of clinoptilolite addition on nutrient removal in a membrane bioreactor. Rezaie Maryam, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, Aroon Mohammad Ali (2014)., Desalination and Water Treatment, 1(1), 1-8.  
  
**80.** Microalgae biomass quantification by digital image processing and RGB color analysis. Sarrafzadeh Mohammad Hossein, La Hyun-joon, Oh Hee-mock, Hyun Cho Dae, Yoon Shin Sang, Mock Oh Hee, Jin Kim Woo (2014)., JOURNAL OF APPLIED PHYCOLOGY, 27(3), 205-209.  
  
**81.** Assessment of in situ bioremediation of oil contaminated soil and groundwater in a petroleum refinery : A laboratory soil column study. Zargar Masoumeh, Sarrafzadeh Mohammad Hossein, Bahram Teheri, A Keshavarz (2014)., PETROLEUM SCIENCE AND TECHNOLOGY, 32(6), -1553-1561.  
  
**82.** biofuel by microalgae. Salehi Bahereh, Sarrafzadeh Mohammad Hossein, Oh Hee-mock (2013).  
  
**83.** Dielectric monitoring and respirometric activity of a high cell density activated sludge. Pajoum-shariati Farshid, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Sarzana Gabriele, گمید شارل, Grasmick Alain, Heran Marc (2013)., ENVIRONMENTAL TECHNOLOGY, 35(4), 1-7.  
  
**84.** Performance of membrane bioreactor in presence of flocculants. Nouri Niloufar, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, نبی زاده رامین (2013)., Desalination and Water Treatment, 52(16-18), 1-6.  
  
**85.** Surveying of soil and groundwater pollution in a petroleum refinery and potential of bioremediation for oil decontamination. Zargar Masoumeh, Sarrafzadeh Mohammad Hossein, Taheri Bahram, Tavakoli Omid (2013)., PETROLEUM SCIENCE AND TECHNOLOGY, 31(24), 1-11.  
  
**86.** Biomass characterization by dielectric monitoring of viability and oxygen uptake rate measurements in a novel membrane bioreactor. Pajoum-shariati Farshid, Heran Marc, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Sarzana Gabriele, Ghommidh Charls, Grasmick Alain (2013)., BIORESOURCE TECHNOLOGY, 140(5), 357-362.  
  
**87.** Fouling mitigation in membrane bioreactors using multivalent cations. Mehrnia Mohammad Reza, Azami Hamed, Sarrafzadeh Mohammad Hossein (2013)., COLLOIDS AND SURFACES B-BIOINTERFACES, 109 (109 ), 90– 96.  
  
**88.** An adsorption diffusion model for removal of copper ( II ) from aqueous solution by pyrolytic tyre char. Sarrafzadeh Mohammad Hossein, Ali Shahtalebi, Gordon Mckay (2013)., Desalination and Water Treatment, -(---), -.  
  
**89.** Fouling in a novel airlift oxidation ditch membrane bioreactor ( AOXMBR at diffrent high organic loading rate ). Mehrnia Mohammad Reza, Farshid Pajoum Shariati, Sarrafzadeh Mohammad Hossein, Sara Rezaee, Alain Grasmick, Marc Heran (2013)., SEPARATION AND PURIFICATION TECHNOLOGY, 105(---), 69-78.  
  
**90.** Soluble microbial products ( SMPs ) release in activated sludge systems : a review. Sarrafzadeh Mohammad Hossein, Hamed Azami, Mehrnia Mohammad Reza, Sara Mafirad, M Nedaie (2012)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 9(1), 9-30.  
  
**91.** Nutritional Requirements of Bacillus thuringiensis During Different Phases of Growth, Sporulation and Germination Evaluated by Plackett-Burman Method. Sarrafzadeh Mohammad Hossein (2012)., IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION, 31(4), 131-136.  
  
**92.** The comparision of Coprinus cinereus peroxidase enzyme and TiO2 catalyst for phenol removal. Reza Sarkhanpoura, Tavakoli Omid, Sarrafzadeh Mohammad Hossein, Hamid Reza Kariminia (2012)., JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, 48(3), 300-307.  
  
**93.** Treatment of Synthetic Olefin Plant Wastewater at Various Salt Salt Conceentrations in a Membrane Bioreactor. Fatemeh Sadeghi, Mehrnia Mohammad Reza, Ramin Nabizadeh, Sarrafzadeh Mohammad Hossein (2012)., CLEAN-Soil Air Water, 40(4), -.  
  
**94.** Performance of An Airlift Membrane Bioreactor Under Different Aeration Rates. Mahsa Kazemzadeh Afshar, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2012)., Journal of Membrane and Separation Technology, 5(1), 154-145.  
  
**95.** Low - cost monofilament mesh filter used in memberane bioreactor process : Filtration characteristics and resistance analysis. Amir Ali Poostchi, Mehrnia Mohammad Reza, Fariba Rezvani, Sarrafzadeh Mohammad Hossein (2012)., Desalination, 286(---), 435-429.  
  
**96.** NUTRITIONAL REQUIREMENTS OF BACILLUS THURINGIENSIS DURING DIFFERENT PHASES OF GROWTH , SPORULATION AND GERMINATION EVALUATED BY PLACKETT - BURMAN METHOD. Sarrafzadeh Mohammad Hossein (2012)., IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING-INTERNATIONAL ENGLISH EDITION, 31(4), 131-136.  
  
**97.** Infl uence of sludge rheological properties on the membrane fouling in submerged membrane bioreactor. Mehrnia Mohammad Reza, Hamed Aazami, Sarrafzadeh Mohammad Hossein (2011)., Desalination and Water Treatment, 34(1-3), 117-122.  
  
**98.** Fouling in membrane bioreactors with various concentrations of dead cells. Hamed Azami, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2011)., Desalination, 278(1,3), 373-380.  
  
**99.** Effects of biofilm formation on membrane performance in submerged membrane bioreactors. Mafirad S, Mehrnia Mohammad Reza, Hamed Azami, Sarrafzadeh Mohammad Hossein (2011)., BIOFOULING, 27(5), 477-485.  
  
**100.** Phenol Removal from Synthetic Wastewater by Alcaligenes Faecalis : Online Monitoring. M Manafi, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2011)., international journal of chemical and environmental engineering, 2(2), 103-107.  
  
**101.** Optimization of the production of biosurfactant from Iranian indigenous bacteria for reduction of surface tension and enhanced oil recovery. Hossein Amani, Haghighi Manouchehr, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, F Shahmirzade (2011)., PETROLEUM SCIENCE AND TECHNOLOGY, 29(78), 301-311.  
  
**102.** APPLICATION OF NANOFILTRATION MEMBRANE IN THE SEPARATION OF AMOXICILLIN FROM PHARMACEUTICAL WASTEWATER. Ali Shahtalebi, Sarrafzadeh Mohammad Hossein, Mohamad Montazer Rahmati (2011)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 8(2), 106-110.  
  
**103.** COMPARISON BETWEEN DIFFERENT MODELS FOR RHEOLOGICAL CHARACTERIZATION OF ACTIVATED SLUDGE. A H Khalili Garakani, Mostoufi Navid, Fateme Sadeghi, Mostafa Hosseinzadeh, Homan Fatourechi, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2011)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 8(3), 255-264.  
  
**104.** Comparative study of biosurfactant producing bacteria in MEOR applications. Haghighi Manouchehr, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, حسین امانی (2010)., Geoenergy Sicence and Engineering, 75(1-2), 209-214.  
  
**105.** Dynamic membrane formation on synthetic fabric cloths. امیرعلی پوستچی, هومن فتوره چی, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2010)., filter media, 4(2), 1-9.  
  
**106.** . حامد اعظمی, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, سارا مافی راد, مهسا کاظم زاده, سید سیاوش مدائنی (2010)., Journal of Chemical and Petroleum Engineering, 44(1), 8-1.  
  
**107.** . محمدرضا صعودی, شقایق نصر, بهاره عطاران, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2010)., Biological Science Promotion, 23(2), 172-178.  
  
**108.** Scale up and application of biosurfactant from Bacillus subtilis in enhanced oil recovery. Amani H, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, Haghighi Manouchehr, Soudi Mr (2010)., APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, 162(2), 510-523.  
  
**109.** Membrane bioreactor for treatment of pharmaceutical wastewater containing acetaminophen. Sarrafzadeh Mohammad Hossein, Christelle Wisniewski, Marc Heran, Bahreh Madadkhah Salmasi, Mehrnia Mohammad Reza, Farshid Pajoum Shariati (2010)., Desalination, 250(2), 798-800.  
  
**110.** AN INVESTIGATION ON THE NITROGEN CONTENT OF A PETROLEUM REFINERY WASTEWATER AND ITS REMOVAL BY BIOLOGICAL TREATMENT. Rasouli Kenari Hannaneh, Sarrafzadeh Mohammad Hossein, Tavakoli Omid (2010)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 7(5), 391-394.  
  
**111.** Flow characteristics in an airlift membrane bioreactor. Amirhossein Khalili, Mehrnia Mohammad Reza, Mostoufi Navid, Sarrafzadeh Mohammad Hossein (2009)., Chemical Product and Process Modeling, 4(5), -.  
  
**112.** Flow Characteristics in an Airlift Membrane Bioreactor. Amirhossein Khalili, Mr Mehrnia, Navid Mostoufi, Sarrafzadeh Mohammad Hossein (2009)., Chemical Product and Process Modeling, 4(5), -.  
  
**113.** . حنانه رسولی کناری, Sarrafzadeh Mohammad Hossein, محمدرضا مهرنیا, منوچهر وثوقی (2009).  
  
**114.** . اعظم نجف لو, Gerami Abbas, Sarrafzadeh Mohammad Hossein (2009)., University, 42(8), 1025-1034.  
  
**115.** Investigating the growth quantity of Streptomyces clavuligerus. Hamedi Javad, حمید مقیم, Sarrafzadeh Mohammad Hossein, Kaffashi Babak (2009).  
  
**116.** Use of cheap media to enhance glucose oxidase production during batch cultivation of Aspergillus niger. Sarrafzadeh Mohammad Hossein, Jafari Ali (2009)., Pak. J. Biotechnol, 2(3), -.  
  
**117.** Characterization of novel biosurfactant producing strains of Bacillus spp . isolated from petroleum contaminated soil. S Nasr, Mohammad Reza Soudi, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2009)., Iranian Journal of Microbiology, 1(2), 54-61.  
  
**118.** . حنانه رسولی کناری, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, زینب صالحی (2008)., Iranian Chemical Engineering, 7(36), 42-53.  
  
**119.** Enzymatic treatment of alphacellulose fibers by using a commercial cellulase. Sarrafzadeh Mohammad Hossein, محمدصالح شفیعیان (2008)., JOURNAL OF BIOTECHNOLOGY, s136(136), -.  
  
**120.** Factors affecting the biological nitrogen removal from wastewater in simultaneous nitrificationdenitrification process. حنانه رسولی کناری, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2008)., JOURNAL OF BIOTECHNOLOGY, 136(1), 647-677.  
  
**121.** Treatment of high strength wastewater containing nitrogenous compounds in an anaerobic multistage biofilter. سعید غنی یاری, Sarrafzadeh Mohammad Hossein, مهدی یادگاری (2008)., JOURNAL OF BIOTECHNOLOGY, 136(136), -.  
  
**122.** Statistical analysis of oxygen effect on the culture of Bacillus thuringiensis. Sarrafzadeh Mohammad Hossein, Gerami Abbas, J Biotechnol (2008)., JOURNAL OF BIOTECHNOLOGY.  
  
**123.** Enhanced Degumming of Soyabean Oil and its Influences on Degummed Oil and Lecitin. Parvin Eshratabadi, Sarrafzadeh Mohammad Hossein, Fatemi Seyed Hasan, Mehrdad Ghavami, N Gholipour Zanjani (2008).  
  
**124.** . Sarrafzadeh Mohammad Hossein, سمیرا شمایی, الهه لونی, نرگس قاضی (2007)., Iranian Food Science and Technology, -(---), -.  
  
**125.** . پروین عشرت آبادی, Fatemi Seyed Hasan, مهرداد قوامی, Sarrafzadeh Mohammad Hossein, زهره سالاروند (2007)., Iranian Food Science and Technology, -(---), 65-71.  
  
**126.** Simple indicators of plasmid loss during fermentation of Bacillus thuringiensis. Sarrafzadeh Mohammad Hossein, Fredric Bigey, Bernard Capariccio, Mehrnia Mohammad Reza, Joseph Pierre Guiraud, Jean Marrie Navarro (2007)., ENZYME AND MICROBIAL TECHNOLOGY, 5(40), 1052-1058.  
  
**127.** Effect of Stirrer Speed and Aeration Rate on the Production of Glucose Oxidase by Aspergillus niger. Ali Reza Jafari, Sarrafzadeh Mohammad Hossein, Iran Alemzadeh, Manoochehr Vosoughi (2007)., JOURNAL OF BIOLOGICAL SCIENCES, 7(2), 270-275.  
  
**128.** Changes in physiological properties as a criterion for detection of loss of plasmid in Bacillus thuringiensis. Sarrafzadeh Mohammad Hossein, Fredric Bigey, Jean Marie Navarro (2006)., Iranian Journal of Biotechnology, 4(4), 217-223.  
  
**129.** The effect of oxygen on the sporulation endotoxins synthesis and toxicity of Bacillus thuringiensis H14. Sarrafzadeh Mohammad Hossein (2006)., WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, 22(3), 305-310.  
  
**130.** Growth, sporulation endotoxins synthesis and toxicity during culture of Bacillus thuringiensis H14. Sarrafzadeh Mohammad Hossein, Joseph P Guiraud, Christophe Lagneau, Bruno Gaven, Alexandre Carron, Jeanmarie Navarro (2005)., CURRENT MICROBIOLOGY, 51(2), 75-81.  
  
**131.** Dielectric monitoring of the growth and sporulation of Bacillus thuringiensis. Sarrafzadeh Mohammad Hossein, Belloy L, Esteban G, Navarro Jm, Ghommidh C (2005)., BIOTECHNOLOGY LETTERS, 27(7), 511-517.

***Books***

**1.** Functional Hybrid Nanomaterials for Environmental Remediation. Samsami Shakiba, Sarrafzadeh Mohammad Hossein, Ahmadi Abas (2021).  
  
**2.** Activated Sludge Models. Sarrafzadeh Mohammad Hossein, Poorhemati Hossein (2018).  
  
**3.** International Summit on Water, Sustainable Development and Healthy LIfe. Sarrafzadeh Mohammad Hossein (2016).

***Conferences***

**1.** Data-Driven Modeling of Integrated Fenton-UV-TiO2 Process for Wastewater Treatment Using Artificial Neural Networks. [] [], Sarrafzadeh Mohammad Hossein (2023)., The 12 International Chemical Engineering Congress & Exhibition (IChEC 2023), 20-22 December, Tehran, IRAN.  
  
**2.** Study on the Fenton methods for amine compounds removal from wastewater. [] [], Sarrafzadeh Mohammad Hossein (2023)., The 12 International Chemical Engineering Congress & Exhibition (IChEC 2023), 12-15 December, Tehran, Iran.  
  
**3.** Fabrication of a novel thin-film nanocomposite membrane for brackish water reverse osmosis desalination. Hajilou Mersad, Sarrafzadeh Mohammad Hossein, Bayandori Moghaddam Abdolmajid, Ghaffari Seyed-behnam (2023)., The 12 International Chemical Engineering Congress & Exhibition (IChEC 2023), 12-15 December, Tehran, IRAN.  
  
**4.** Efficacy of blending g-C3N4 positioning in the polysulfone support layer on the performance of FO membrane for removal of Dexamethasone. Asayesh Ardakani Elham, Sarrafzadeh Mohammad Hossein, Madhoush Mohammad-Reza (2023)., 9th International Biennial Conference on Ultrafine Grained and Nanostructured Materials, 14-15 November, Tehran, IRAN.  
  
**5.** Water-Energy Nexus: Exploring the Interdependence of Water and Energy Systems for Sustainable Resource Management. Azadmanjiri Mohammad, Rahimshirvani Mohammadreza, Sarrafzadeh Mohammad Hossein (2023)., Annual Clean Energy Conference (ACEC2023) h 8, 2-4 May, Babol, IRAN.  
  
**6.** Recent studies on UV-based disinfection methods for ballast water management: A review. nejadmoghadam amin, آرمان ذاکر, Sarrafzadeh Mohammad Hossein, Khalil Arjmandi Javad (2023)., The 5th National Conference on Environmental Engineering and Management, 1 May, sari, IRAN.  
  
**7.** Persistent conductive membrane in an electro-membrane reactor for nitrate removal in the electrocoagulation process. Salmanipour avval Salar, Sarrafzadeh Mohammad Hossein, Akbari Ali (2023)., 17th Annual Electrochemistry Seminar of Iran, 1-3 March, Tehran, IRAN.  
  
**8.** Investigating the Types of Electrodes in the Electrooxidation Process of Industrial Wastewater Treatment. Baghani Mohammad, Sarrafzadeh Mohammad Hossein (2023)., 4th International Conference on the New Technologies in the Oil, Gas and Petrochemical Industries, 20-21 February, Tehran, IRAN.  
  
**9.** A Highly Water-Efficient Corn Refinery: Design of a Water Network with a Treatment Unit. Fathi Moghaddam Amir M., Ali M Sahlodin, Sarrafzadeh Mohammad Hossein (2022)., 4th Iran Water & Wastewater Science & Engineering Congress, 22-24 November, Qom, IRAN.  
  
**10.** Permeate Flux and Antifouling Properties of the PSf Membrane Significantly Enhanced by Incorporation of Carboxylate ZnO/RGO Nanocomposites. Alvandi Arvin, Sarrafzadeh Mohammad Hossein, Ghaffari Seyedbehnam (2022)., 16th Nanoscience and Nanotechnology Conference (NanoTR-16), 5-8 September, Ankara, Turky.  
  
**11.** A Novel Antibacterial and Low-cost Ceramic Membrane Coated with Ni-doped ZnO Nanoparticles for Water Purification. Alvandi Arvin, Sarrafzadeh Mohammad Hossein, Ghaffari Seyedbehnam, Hadian Ali Mohammad (2022)., 16th Nanoscience and Nanotechnology Conference (NanoTR-16), 5-8 September, Ankara, TURKEY.  
  
**12.** Development of the Novel Thin-Film Nanocomposite Forward Osmosis Membranes Modified with ZnO/Ag/chitosan Towards Enhanced Water Flux and Antifouling Properties. Zeighami Siavash, Sarrafzadeh Mohammad Hossein, Ghaffari Seyedbehnam (2022)., 16th Nanoscience and Nanotechnology Conference (NanoTR-16), 5-8 September, Ankara, Turky.  
  
**13.** Industrial waste generation and characterization in Iran: a circular economy approach. Vali asil Issa, Sarrafzadeh Mohammad Hossein, Tavakoli Omid, Ghaffar seyed behnam (2022)., 9th International Conference on Sustainable Solid Waste Management, 15-18 June, GREECE.  
  
**14.** Nutrient recovery from wet biomass in hydrothermal carbonization as an innovative approach toward the circular economy. Zare Saeeid, Sarrafzadeh Mohammad Hossein, Rezaee Masood, Tavakoli Omid (2022)., 9th International Conference on Sustainable Solid Waste Management, 15-18 June, Greece.  
  
**15.** application of modified ion exchange resins for nitrate removal from water. nejadmoghadam amin, Sarrafzadeh Mohammad Hossein, Ghaffari Seyedbehnam (2022)., Proceeding of the 5 th Conference of Separation Science and Engineering, 11-12 May, Zahedan, IRAN.  
  
**16.** Reduce of water consumption and waste water production in oil industry by Water Cloosed Loop System(WCLS). Rezaee Mohammad amin, Sarrafzadeh Mohammad Hossein (2022)., 3rd International Conference on the new tech in the Oil, Gas, and Petrochemical Industries, 22-23 February, Tehran, Iran.  
  
**17.** Modeling electro-coagulation for water treatment with CFD. Salmanipour avval Salar, Sarrafzadeh Mohammad Hossein, Akbari Ali (2021)., Water, Quality, Consumption, Conference, 30 November-2 December, Tehran, Iran.  
  
**18.** Discharge of dense effluents containing suspended solids: A CFD analysis. Moshiri Tabrizi Iman, Sarrafzadeh Mohammad Hossein, Sotudeh Gharebagh Rahmat (2020)., 3rd International Biennial Conference on Oil, Gas, and Petrochemical Engineering. Persian Gulf University, 28-30 December, Bushehr, IRAN.  
  
**19.** Water Quality Indicators and Need to define a Quality Indicator In the field of Wastewater and Graywater. Khosroabadi Amir Hossein, Sarrafzadeh Mohammad Hossein (2019)., The 2nd National Conference on Water Consumption Management, 10-12 December, Tehran, Iran.  
  
**20.** Simulation and economic evaluation of power and desalinated water generation using flare gases. Jafari Mostafa, Sarrafzadeh Mohammad Hossein (2019)., The 2nd National Conference on Water Consumption Management, 10-12 December, Tehran, Iran.  
  
**21.** Investigation of water consumption in urea producing petrochemical plants with special attention to Lordegan Petrochemical. Vali asil Issa, Sarrafzadeh Mohammad Hossein (2019)., The 2nd National Conference on Water Consumption Management, 10-12 December, Tehran, Iran.  
  
**22.** Investigation of water and wastewater network of a polypropylene production unit and comparison of its water efficiency with similar units in other countries. Zeighami Siavash, Sarrafzadeh Mohammad Hossein (2019)., The 2nd National Conference on Water Consumption Management, 10-12 December, Tehran, Iran.  
  
**23.** Investigation of Replacement of Solar Distillation Systems with Household Water Purifiers. Ahmadi Abbas, Sarrafzadeh Mohammad Hossein, Lavasani Mitra (2019)., The 2nd National Conference on Water Consumption Management, 10-12 December, Tehran, Iran.  
  
**24.** Photocatalytic performance of NH2-MIL125(Ti)/Polysulfone for methylene blue degradation from aqueous solution under dark, visible and UV light irradiation. Ahmadi Abbas, Sarrafzadeh Mohammad Hossein, Mohammadi Maryam, Mahdigholian Zeynab (2019)., 6th MEMTEK International Symposium On Membrane Technologies And Applications, 18-20 November, İSTANBUL, Turky.  
  
**25.** CFD- assisted design of dense effluent discharge systems. Sarrafzadeh Mohammad Hossein, Moshiri Tabrizi Iman, Sotudeh Gharebagh Rahmat (2019)., 6th MEMTEK International Symposium On Membrane Technologies And Applications, 18-20 November, İSTANBUL, Turky.  
  
**26.** A Review of Membrane Fouling in Forward Osmosis processes for Application in Wastewater Treatment. Samsami Shakiba, Sarrafzadeh Mohammad Hossein, Mohammadi Maryam, Moshiri Tabrizi Iman (2019)., 6th MEMTEK International Symposium On Membrane Technologies And Applications, 18-20 November, İSTANBUL, Turky.  
  
**27.** A Review on Application of Ceramic Membrane in Photocatalytic Membrane Reactor (PMR) for Dye Removal: Modification, Mechanism and Challenges. Mahdigholian Zeynab, Sarrafzadeh Mohammad Hossein, Ahmadi Abbas (2019)., 6th MEMTEK International Symposium On Membrane Technologies And Applications, 18-20 November, İSTANBUL, Turky.  
  
**28.** Studying the effective parameters on high-efficiency harvesting of high nutritious microalgae using autoflocculation in order to produce in industrial scales. Khorshidi nazloo Ehsan, Sarrafzadeh Mohammad Hossein, Asgharnejad Hashem (2019)., 3rd International and 26th National Iranian Food Science and Technology Congress, 17-19 September, Tehran, Iran.  
  
**29.** Nature-based solutions to remove pollutants from the environment using microalgae. Sarrafzadeh Mohammad Hossein (2019)., 3rd International and 11th National Iranian Biotechnology Science Congress, 1-3 September, Tehran, Iran.  
  
**30.** Determination of optimal discharge system for dense wastewater from an environmental perspective through modeling. Moshiri Tabrizi Iman, Sarrafzadeh Mohammad Hossein, Sotudeh Gharebagh Rahmat (2019)., 1st International Conference on Water, Energy and Environment Nexus (WEEN-2019), 1-2 September, İSTANBUL, Turky.  
  
**31.** ZnO nanostructures: Promising nanoplatforms for the development of non-spherical drug delivery systems for cancer therapy. Ghaffari Seyed-behnam, Sarrafzadeh Mohammad Hossein, Fakhroieyan Zahra, Khorramizadeh Mohammadreza (2019)., 3rd International and 11th National Iranian Biotechnology Science Congress, 1-3 September, Tehran, Iran.  
  
**32.** Reducing water consumption and wastewater generation in a corn refinery using water pinch technology. Bavar Mostafa, Sarrafzadeh Mohammad Hossein, Asgharnejad Hashem, Zirakzadeh Pouria (2019)., 3rd International and 26th National Iranian Food Science and Technology Congress, 1-2 September, Tehran, Iran.  
  
**33.** A non-spherical Functionalized ZnO-based nanostructured system for targeted delivery of curcumin. Ghaffari Seyed-behnam, Sarrafzadeh Mohammad Hossein, Fakhroieyan Zahra, Khorramizadeh Mohammadreza (2019)., 3rd International and 11th National Iranian Biotechnology Science Congress, 1-3 September, Tehran, Iran.  
  
**34.** Investigation on antibacterial activity of some important nanomaterial used in tiles' surface. Mohammadi Maryam, Sarrafzadeh Mohammad Hossein, Ahmadi Abbas (2019)., International Conference on Biotechnology, Bioengineering, Biorefinery and Pollution Prevention, 1-2 August, Bangkok, Thailand.  
  
**35.** Optimal operating strategies of hydrogentrophic denitrification and alga biomass production in nitrate contaminated groundwater. Rezvani Fariba, Samsami Shakiba, Sarrafzadeh Mohammad Hossein (2019)., 1st International Conference on Biotechnology, Bioengineering, Biorefinery and Pollution Prevention, 1-2 August, Bangkok, Thailand.  
  
**36.** A novel approach of nitrate removal from drinking water by using granule of microalgae and hydrogen consumer denitrifier. Rezvani Fariba, Sarrafzadeh Mohammad Hossein (2019)., 1st International Conference on Biotechnology, Bioengineering, Biorefinery and Pollution Prevention, 1-2 August, Bangkok, Thailand.  
  
**37.** An overall view on dye removal from wastewaters by different technologies. Samsami Shakiba, Sarrafzadeh Mohammad Hossein (2019)., 1st International Conference on Biotechnology, Bioengineering, Biorefinery and Pollution Prevention, 1-2 August, Bangkok, Thailand.  
  
**38.** Water Desalinators Brine Water: An environmental Challenge or an opportunity for mineral resource recovery. Nouri Hamed, Sarrafzadeh Mohammad Hossein (2019)., The 16th Iranian National Congress of Chemical Engineering, 19-21 January, Tehran, Iran.  
  
**39.** Water Desalination using recovered energy from flare. Jafari Mostafa, Sarrafzadeh Mohammad Hossein (2019)., The 16th Iranian National Congress of Chemical Engineering, 19-21 January, Tehran, Iran.  
  
**40.** An Introduction to Solutions for Reducing Water Consumption in Tabriz Powerplant. Sharafi Amir Hosein, Sarrafzadeh Mohammad Hossein, Bavar Mostafa (2018)., 7th National Conference on Water resource management of Iran, 24-25 October, Yazd, Iran.  
  
**41.** Performance of natural zeolite for removal of lead: A review. Zare Pakzad Faranak, Sarrafzadeh Mohammad Hossein, Divband Baharak (2018)., 5th Iran International Zeolite Conference, 26-27 August, Tabriz, IRAN.  
  
**42.** Application of nanofiltration membranes in membrane bioreactors (MBRs): A Review. Goftari-kakhaki Leila, Sarrafzadeh Mohammad Hossein, Rezaei-dashtarzhandi Masoud (2018)., The National Conference on Treatment of Water, Air and Soil, 3-4 July, Tehran, IRAN.  
  
**43.** Environmental impact assessment in agricultural products in greenhouse cultivation and comparison to conventional cultivation. Foghani Mohammad-hasan, Sarrafzadeh Mohammad Hossein (2018)., 11th International Congress on Civil Engineering, 8-10 May, Tehran, Iran.  
  
**44.** Evaluation of environmental impacts of dairy industries using life cycle assessment. Moshiri Tabrizi Iman, Sarrafzadeh Mohammad Hossein (2018)., 11th International Congress on Civil Engineering, 8-10 May, Tehran, Iran.  
  
**45.** Water Closed Loop; A sustainable Solution to supply industries water and an inevitable policy in industrial water management. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein (2018)., 1st Seminar of Water and environment experts in Iranian Ministry of Energy, 1 March, Tehran, Iran.  
  
**46.** Modeling of fermentation process of basilicus thurigiensis as a spopulating bacterium. Mostoufi Navid, Soleymani Soroush, Sarrafzadeh Mohammad Hossein (2017)., 2nd World Biotechnology Congress, 4-5 December, , Brazil.  
  
**47.** Functionalization of ZnO nanoparticles by 3-mercaptopropionic acid for aqueous curcumin delivery: Synthesis, characterization and anticancer assessment. Khoramizadeh Mohammad Reza, Ghaffari Seyed-behnam, Sarrafzadeh Mohammad Hossein, زهرا فخروئیان, Shahriari Shadab (2017)., International Conference on Toxicology and Pharmacology, 1-2 November, Toronto, Canada.  
  
**48.** Nitrate contaminated ground water as a potential medium for algae biomass production application. Rezvani Fariba, Sarrafzadeh Mohammad Hossein, Oh Hee-mock, Seo Seong-hyan (2017)., 2nd International Conference on Alternative Fuel & Energy, 23-25 October, Daegu, South Korea.  
  
**49.** Different pathways to integrate anaerobic digestion and thermochemical process. Rezaee Masood, Sarrafzadeh Mohammad Hossein (2017)., 2nd International Conference on Alternative Fuel & Energy, 23-25 October, Daegu, South Korea.  
  
**50.** Effect of high/low light intensities and dilution rate on extracellular hydrocarbon and cell density of the microalga Botryococcus brauni BOT 22. Sadeghin Bahare, Sarrafzadeh Mohammad Hossein, Jin Jian, Dupre Catherine, Watanabe Makoto, Legrand Jack, Grizea Dominique (2017)., 10th World Congress of Chemical Engineering, 1-5 October, Barcelona, Spain.  
  
**51.** Modelling a Multiple Reference Frame Approach in an Oxidation Ditch of Activated Sludge Wastewater Treatment. Zarghami Reza, Sarrafzadeh Mohammad Hossein, Norouzi-firouz Hossein (2017)., Frontiers International Conference on Wastewater Treatment and Modelling, 20-22 May, Italy.  
  
**52.** Water Reuse in wastewater treatment during Industrial Production of Insulin. Tajbakhsh Saeed, Sarrafzadeh Mohammad Hossein, Rashidi Hamidreza (2017)., 2nd National Conference on Sustainable Development in Energy, Water and Environment Engineering Systems, 21-22 February, Tehran, Iran.  
  
**53.** Water Desalination; A Sustainable Method for Water Supply in Europe. Farzam Melika, Pourbakhtiar Asma, Sarrafzadeh Mohammad Hossein, Rashidi Hamidreza (2017)., 2nd National Conference on Sustainable Development in Energy, Water and Environment Engineering Systems, 21-22 February, Tehran, Iran.  
  
**54.** Using Water in Industrial Production of Insulin and a method to treat its effluent. Tajbakhsh Saeed, Sarrafzadeh Mohammad Hossein (2017)., Iran Water & Wastewater Science and Engineering Congress, 14-15 February, Tehran, Iran.  
  
**55.** Analysis of Economic Effects of Water Desalination in Different Regions of the World. Salimi Sina, Sarrafzadeh Mohammad Hossein, Fakhri Neda, Shojaei Hesam, Rashidi Hamidreza (2017)., Iran Water & Wastewater Science and Engineering, 14-15 February, Tehran, Iran.  
  
**56.** Seawater Desalination; Methods, Problems and Challenges based on different Continents. Kamali Ali, Sarrafzadeh Mohammad Hossein, Baytollahpour Mohammadreza, Razaghi Kashani Nazgol, Rashidi Hamidreza (2017)., Iran Water & Wastewater Science and Engineering Congress, 14-15 February, Tehran, Iran.  
  
**57.** Analysis of Laundry Machine wastewater and proposing an appropriate system for treatment. Shirouei Nargess, Sarrafzadeh Mohammad Hossein, Tavakoli Omid, Rashidi Hamidreza (2017)., Iran Water & Wastewater Science and Engineering Congress, 14-15 February, Tehran, Iran.  
  
**58.** LESSONS FROM SUSTAINABLE WATER CYCLE MANAGEMENT IN PAST IRAN TO INTEGRATE INTO TODAY WATER EDUCATIONAL SYSTEM. Mohammadkhani Milad, Tabrizi Nima, Sarrafzadeh Mohammad Hossein (2016)., Water and Environment in New Millennium 2016, 3-5 December, Tehran, Iran.  
  
**59.** An investigation on the educational approaches in different schools and disciplines for water and wastewater treatment. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein (2016)., International Conference on Water and Environment in the New Millennium: Education and Capacity Building, 3-5 December, Tehran, Iran.  
  
**60.** SUSTAINABLE WATER USAGE IMPROVEMENT THROUGH EDUCATIONAL TECHNIQUES: APPLICATION IN SOUTH-EAST ASIAN’S COTTAGE INDUSTRIES. Rashidi Hamidreza, Sarrafzadeh Mohammad Hossein, Madani Larijani Maryam (2016)., Water and Environment in New Millennium: Education and Capacity Building, 3-5 December, Tehran, Iran.  
  
**61.** Microalgal Removal of Phosphorus from Industrial Wastewater. Pishbin Mahsa, Sarrafzadeh Mohammad Hossein, فرامرزی محمدعلی, Oh Hee-mock (2016)., International Water Industry Conference 2016: Water-Energy-Health Nexus, 18-21 October, Daegu, South Korea.  
  
**62.** Autotrophic nitrate removal from water and its advantages over other methods. Rezvani Fariba, Sarrafzadeh Mohammad Hossein, Ebrahimi Sirous, Mock Oh Hee (2016)., International Water Industry Conference 2016:Water-Energy-Health Nexus, 18-21 October, Daegu, South Korea.  
  
**63.** A Comparison Between Industrial Water Resources Management in Iran and All over the World and its Role in Sustainable Development. Sarrafzadeh Mohammad Hossein, Asgharnejad Hashem (2016)., 6th National Conference on Water Resources Management, 20-22 April, Sanandaj, Iran.  
  
**64.** Reuse and Management of Wastewaters in Iran: Challenges and Opportunities. Rezayee Masoud, Sarrafzadeh Mohammad Hossein (2016)., 6th National Conference on Water Resources Management, 20-22 April, Sanandaj, Iran.  
  
**65.** Water Closed Circuit: The Savior of Industries and Environment in Water Crisis. Sarrafzadeh Mohammad Hossein (2016)., International Summit on Health and Lifestyle: Water, Sustainable Development and Healthy Life, 2-3 March, Tehran, Iran.  
  
**66.** Alternative Energy and Carbon Source for Biosurfactant Production. Abi Akram, Sarrafzadeh Mohammad Hossein (2016)., 18th International Conference on Biocatalysis, 15-16 February, Barcelona, Spain.  
  
**67.** Membrane Distillation Technology for Treatment of Wastewater of Soft-Water Resins Regeneration. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein, Norouzi Hossein (2015)., 12th International Conference on Membrane Science and Technology, 1-3 November, Tehran, Iran.  
  
**68.** The Application of Image Processing in Membrane Fouling Determination. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein, Shahverdi Negin (2015)., 12th International Conference on Membrane Science and Technology, 1-3 November, Tehran, Iran.  
  
**69.** Effects of different C/N ration on fouling and performance of a membrane bioreactor (MBR). Sepehri Arsalan, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November.  
  
**70.** Application of Membrane Aromatic Recovery System in Petrochemical Wastewater treatment. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein, Pishbin Mahsa (2015)., 12th International Conference of Membrane Science and Technology, 1-3 November, Tehran, Iran.  
  
**71.** Microbial behavior and its impacts on fouling of membrane bioreactor. Sepehri Arsalan, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November.  
  
**72.** The effect of photoautotrophic culture of chlorella vulgaris on ammonia removal by using membrane bioreactor. Babaie Azadeh, Mehrnia Mohammad Reza, شایگان جلال الدین, Sarrafzadeh Mohammad Hossein (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November, Tehran, Iran.  
  
**73.** Nitrogen removal by using membrane bioreactor containing mixotrophic microalgae. Babaie Azadeh, Mehrnia Mohammad Reza, شایگان جلال الدین, Sarrafzadeh Mohammad Hossein (2015)., The 9th Int. Chem Eng, 11-12 October, Shiraz, Iran.  
  
**74.** Solar energy. Izad Panah Maryam, Ravaghi Hamid, Sarrafzadeh Mohammad Hossein (2015)., International Conference and Exhibition on Solar, 28-30 August.  
  
**75.** Effects of Soluble Microbial Products on Fouling. Sepehri Arsalan, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2015)., Iran Membrane 2015, 26-27 May, Tehran, Iran.  
  
**76.** Hydrodynamics characterization of an airlift oxidation ditch membrane bioreactor (AOXMBR). Pajom Shariati Farshid, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, Bonakdarpour Babak (2015)., Iran Membrane, 26-27 May, Tehran, Iran.  
  
**77.** Analysis of Light Transport Phenomena in Photosythetic Microbial Cultures. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein, Zarghami Reza (2015)., IEEE Biophotonics 2015, 20-22 May, Firenze, Italy.  
  
**78.** The Effect of Dark and Light Cycle on Nutrient Removal by Using Membrane Bioreactor Containing Microalgae. Babaie Azadeh, Mehrnia Mohammad Reza, شایگان جلال الدین, Sarrafzadeh Mohammad Hossein, Fakhimi Neda (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**79.** effect of hetrotroph micro-algae on removing nitrogen from wastewater in membrane bioreactor. Babaie Azadeh, Mehrnia Mohammad Reza, شایگان جلال الدین, Sarrafzadeh Mohammad Hossein (2015)., environmental science, engineering and technologies, 5-6 May, Tehran, Iran.  
  
**80.** A reviewf combine methods of sea water desalination. Ahadian Hamid Reza, Sarrafzadeh Mohammad Hossein (2015)., Iranian National Congress of Chemical Engineering, 17-19 February, Tehran, Iran.  
  
**81.** study of MTBE biodegradation in aerobic condition. Montazeri Bahare, Sarrafzadeh Mohammad Hossein (2015)., Iranian National Congress of Chemical Engineering, 17-19 February, Tehran, Iran.  
  
**82.** the effect of light on removing nitrogen in membrane bioreactor with microalgae. Babaie Azadeh, Mehrnia Mohammad Reza, شایگان جلال الدین, Sarrafzadeh Mohammad Hossein (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**83.** Sugar cane wastewater treatment and reuse. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein (2015)., National congress on water reuse, 26-28 January, Tehran, Iran.  
  
**84.** evaluation of water reuse of water pools. Izad Panah Maryam, Sarrafzadeh Mohammad Hossein (2015)., National congress on water reuse, 26-28 January, Tehran, Iran.  
  
**85.** Treatment of dairy industry wastewater and reuse. Haji Pour Hasan, Sarrafzadeh Mohammad Hossein (2015)., National congress on water reuse, 26-28 January, Tehran, Iran.  
  
**86.** water efficiency. Mousavi Seyed Hesam, Sarrafzadeh Mohammad Hossein (2015)., National congress on water reuse, 26-28 January, Tehran, Iran.  
  
**87.** textile wastewater reuse. Noori Hosein, Sarrafzadeh Mohammad Hossein (2015)., water reuse, 26-28 January, Tehran, Iran.  
  
**88.** Reusing gray water of washing machines. Shirvani Narges, Sarrafzadeh Mohammad Hossein (2015)., National congress on water reuse, 26-28 January, Tehran, Iran.  
  
**89.** Sodium Caseinat for Multiphase Emultion Stability. Momeni Saeid, Ahmadi Ghazaleh, Mazlumi Nastaran, Sarrafzadeh Mohammad Hossein (2014)., 7th Celco, 8-9 December, Tehran, Iran.  
  
**90.** A comparison between the processes of sugar production from beet and sugar cane and their wastewater characteristics. Asgharnejad Hashem, Sarrafzadeh Mohammad Hossein (2014)., Celco 7, 8-9 December, Tehran, Iran.  
  
**91.** The assessment of rainwater collected from the roof considering chemical and microbial properties and the treatment methods. Rezaee Masuod, Sarrafzadeh Mohammad Hossein (2014)., celco7, 8-9 December, Tehran, Iran.  
  
**92.** Adsorption process to Reuse wastewater of the textile industry. Fakhari Behnam, Sarrafzadeh Mohammad Hossein (2014)., 7th Celco, 8-9 December.  
  
**93.** Short and Long Term Filtration in a Hybrid Zeolite MBR. Rezaie Maryam, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, بایسته حامد (2014)., 8th International Chemical Engineering Congress & Exhibition, 24-27 February, Kish, Iran.  
  
**94.** Investigation The Effect Of Ozone On Sludge Properties In Different Organic Loading Rates. Rezaei Sara, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2014)., 8th International Chemical Engineering Congress & Exhibition, 24-27 February, Kish, Iran.  
  
**95.** Effect of substrate on viability and respirometric activity of activated sludge in a short time of experiment. Pajoum-shariati Farshid, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, هران مارک, Grasmick Alain (2014)., 8th International Chemical Engineering Congress & Exhibition, 24-27 February, Kish, Iran.  
  
**96.** investigation of the effect of biofilm on membrane performance in membrane bioreactor containing microalgae/sludge. Babaei Azadeh, Mehrnia Mohammad Reza, شایگان جلال الدین, Sarrafzadeh Mohammad Hossein (2014)., national congress of water reuse, 26-27 January.  
  
**97.** Selection of Microalgae for Biodiesel Production by Applying Analytic Hierarchy Process. Sarrafzadeh Mohammad Hossein, La Hyun-joon, Oh Hee-mock (2013)., Bioenergy, 12-14 November, Banjul, Korea.  
  
**98.** hetro and autothroph cultures of microalgae. Sadeghin Bahare, Sarrafzadeh Mohammad Hossein (2013)., Biomass and Energy, 4-6 November, Tehran, Iran.  
  
**99.** The relation between oil content of microalgae and their settling rate. Sarrafzadeh Mohammad Hossein, La Hyun-joon, Yoo Chan, Oh Hee-mock (2013)., Algae, Opening the new era, 26-27 September, pousan, South Korea.  
  
**100.** CFD simulation of a pilot-scale membrane bioreactor using a porous media approach. بیات محمدرضا, Mehrnia Mohammad Reza, Mostoufi Navid, رجبی محمدرضا, Hosenzade Mohsen, Sarrafzadeh Mohammad Hossein (2013)., The 5th IWA-ASPIRE Conference and Exhibition, 8-10 September, Korea.  
  
**101.** Investigation on Environmental Impacts of Crude Oil Leaks from Pipeline Corrosion at Arctic Areas. Ansari Ali, Sarrafzadeh Mohammad Hossein, Tavakoli Omid (2013)., 14th National Congress on Corrosion, 14-16 May, Tehran, Iran.  
  
**102.** Corrosion in petroleum tankers. Alipour Daryoush, Sarrafzadeh Mohammad Hossein, Tavakoli Omid (2013)., 14th Corrosion Congress, 14-17 May, Tehran, Iran.  
  
**103.** Separation of Ceftazidime from the Wastwater of pharmaceutical Companies by Nanofiltration. Sarrafzadeh Mohammad Hossein, Rahmani Ebrahim (2012)., word water congressExhibition, 15-21 September, Busan, South Korea.  
  
**104.** hormony. Ataei Roya, Sarrafzadeh Mohammad Hossein, تمدن ستاره (2012)., hamayesh..., 23-24 May, Tehran, Iran.  
  
**105.** Oil spill evaluation in Caspian sea based on the lessons from Meczican Gulf. Sarrafzadeh Mohammad Hossein, Tavajoh Erfan (2012)., 4th National HSE Congress, 6-8 March, Tehran, Iran.  
  
**106.** Effective factors in treatment of phenolic wastewater by Alcaligenes faecalis. mahshad manafi, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, Shavandi M (2011)., The 7 th7 International Chemical Engineering Congress Exhibition (IChEC 2011, 21-24 November, Kish Island, Iran.  
  
**107.** Phenolic Westewater Treatment by pure Culture of Alcaligenes faecalise:Batch and MBR systems. mahshad manafi, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, همایونفال مریم (2011)., 6 TH IWA SPECIALIST Conferance on Membrance Technology for Water and Wastewater Treatment, 4-7 October, Achen, Germany.  
  
**108.** . زرگر معصومه, Sarrafzadeh Mohammad Hossein, طاهری بهرام, قریشی حسین, قاسمی محمدرضا, نیکبخت محمود (2011)., 24-26 May, Tehran, Iran.  
  
**109.** The Potential of three Indigenous Isolated Bactria for Production of Biosurfactant and application in EOR. امانی حسین, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Haghighi Manouchehr, کشتکار جواد, Amoabediny Ghassem (2009)., 8TH WORLD CONGRESS Of CHEMICAL eNGINEERING, 23-26 August, Montreal, Canada.  
  
**110.** medium optimization for biosurfactant production from bacillus subtilis in ventilation flask. کشتکار محمد جواد, Amoabediny Ghassem, امانی حسین, کافی ایمان, Sarrafzadeh Mohammad Hossein, Rashedi Hamid (2009)., 8TH WORLD CONGRESS Of CHEMICAL eNGINEERING, 23-26 August, Montreal, Canada.  
  
**111.** Gas holdup in a bubble column reactor with different liquid phase propertis. Yazdani Arian, Mehrnia Mohammad Reza, Pajoum-shariati Farshid, Kaffashi Babak, Sarrafzadeh Mohammad Hossein, Bahmanyar Hosein (2008)., the 5th int. chem. eng congr. 2008, 2-5 January, Kish, Iran.  
  
**112.** A comparison between different biological methods of nitrogen removal from wastewater. رسولی کناری حنانه, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Salehi Zeinab (2008)., IChEC2008, 1-4 January, Kish Island, Iran.  
  
**113.** Batch and fed-batch cultures of Bacillus thuringiensis H14 for producing s biological instectiside. Sarrafzadeh Mohammad Hossein, Amoabediny Ghassem, Mehrnia Mohammad Reza (2007)., International symposium on clean energy technology 2007, 21-23 November, Shanghai, China.  
  
**114.** Loss in the Caustic Refining of Edible Oils and the Necessity of Its Control. Sarrafzadeh Mohammad Hossein, Labbafi Mazraeh Shahi Mohsen, شمایی سمیرا, لونی الهه, قاضی نرگس (2006)., Food is life-IUFOST2006, 17-20 September, Nantes, France.

**HONORS and AWARDS**

**The Best International Chair in University of Tehran** 2016, Tehran, Iran  
  
**UT international festival selected** 2014, Tehran, Iran  
  
**Reological properties of activated sludge in MBR** 2013, Tehran, Iran  
  
**Environmental assessment in Tehran Petroleum Refinery** 2012, Tehran, Iran

**ACADEMIC POSITIONS**

**Chairholder of UNESCO Chair on Water Reuse**  
 2014-Present  
**Director of Asia Research Center**  
 2017-Present  
**General Secretary of Asia Working Group**  
 2018-Present  
**Member of the National Hydrology Committee**  
 2018-Present  
**Head of Biotechnology Group**  
 2018-Present  
**Pharmaceutical Engineering Pole member**  
 2019-Present  
**Director of Lab on Water Reuse**  
 2019-Present  
**Member of the 10th anniversary of Engineering Education Society**  
 2019-Present

**COURSES OFFERED**

**LABORATORIES**