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**EDUCATION**

**Ph.D In** 1997-2004  
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**PUBLICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1953** | **25** | **116** | **81** | **2** |
| Citations | h-Index | Article | Conference | Book |

***Articles***

**1.** Magnetic MBR technology: from the fabrication of membrane to application in wastewater treatment. Mehrnia Mohammad Reza, Hashemi Targol, Marandi Aidin (2021)., Journal of Environmental Health Science and Engineering, pp.1-9(1), 1-9.  
  
**2.** Removal of personal care products (PCPs) from greywater using a submerged membrane bioreactor (SMBR): The effect of hydraulic retention time. Najmi Mahnoush, Mehrnia Mohammad Reza, Iranpoury amin, Tashauoei Hamidreza, Alivand Masoud (2020)., Journal of Environmental Chemical Engineering, 8(5), 104432.  
  
**3.** Municipal wastewater treatment by semi-continuous and membrane algal-bacterial photo-bioreactors. Babaie Azadeh, Mehrnia Mohammad Reza, safdari mohammad saeed (2020)., Journal of Water Process Engineering, 36(101274), 101274.  
  
**4.** Heterologous production of porcine derived antimicrobial peptide PR-39 in Escherichia coli using SUMO and intein fusion systems. azari Mandana, Asad Sedigheh, Mehrnia Mohammad Reza (2020)., PROTEIN EXPRESSION AND PURIFICATION, 169(1), 105568.  
  
**5.** Acetic acid uptake rate controls H2 production in Chlamydomonas-bacteria co-cultures. Fakhimi Neda, Tavakoli Omid, Marashi Sayed Amir, Moghimi Hamid, Mehrnia Mohammad Reza, Dubini Alexandra, Gonzalez Ballester David (2019)., Algal Research-Biomass Biofuels and Bioproducts, 42(-), 101605.  
  
**6.** Biodegradation of long chain alkanes in halophilic conditions by Alcanivorax sp. strain Est-02 isolated from saline soil. Amozegar Mohammad, Mehrnia Mohammad Reza (2019)., 3 Biotech, 9(4), 141-150.  
  
**7.** Employing magnetism of Fe3O4 and hydrophilicity of ZrO2 to mitigate biofouling in magnetic MBR by Fe3O4-coated ZrO2/PAN nanocomposite membrane. Mehrnia Mohammad Reza, Noormohamadi Amin, Homayoonfal Maryam, Davar Fatemeh (2019)., ENVIRONMENTAL TECHNOLOGY, ؟(؟), 1-22.  
  
**8.** Integration of size-exclusion chromatography and ultracentrifugation for purification of recombinant hepatitis B surface antigen: An alternative method for immunoaffinity chromatography. Yousefipour Mahshid, khatami maryam, Javidanbardan Amin, Hoseyni Seyed Nezamodin, Mehrnia Mohammad Reza (2019)., PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, 49(2), 158-166.  
  
**9.** Chitosan‐based nanocomposite membranes with improved properties: Effect of cellulose acetate blending and TiO2 nanoparticles incorporation. Mafirad Sara, Mehrnia Mohammad Reza, Zahedi Payam, Hoseini Seyed Nezam Aldin (2018)., POLYMER COMPOSITES, 39(12), 4452-4466.  
  
**10.** Fouling in microalgal membrane bioreactor containing nitrate-enriched wastewater under different trophic conditions. Babaie Azadeh, Mehrnia Mohammad Reza (2018)., Algal Research-Biomass Biofuels and Bioproducts, 36(2211-9264), 167-174.  
  
**11.** Towards rational design of porous nanostructured biopolymeric microparticles for biomacromolecules separation: A case study of intraparticle diffusion facilitation and BSA adsorption on agarose microspheres. Pourasgharian Roudsari Fatemeh, Mehrnia Mohammad Reza, Kaghazian Hooman (2018)., MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, 93(1), 518-528.  
  
**12.** Influence of static mixer on the formation and performance of dynamic membrane in a dynamic membrane bioreactor. Sabaghian Mohamad, Mehrnia Mohammad Reza, Esmaeili Mohammad, Nourmohammadi Davood (2018)., SEPARATION AND PURIFICATION TECHNOLOGY, 206(1), 324-334.  
  
**13.** Formation and performance of self-forming dynamic membrane (SFDM) in membrane bioreactor (MBR) for treating low-strength wastewater. Sabaghian Mohamad, Mehrnia Mohammad Reza, Esmaeili Mohammad, Nourmohammadi Davood (2018)., WATER SCIENCE AND TECHNOLOGY, 78(4), 904-912.  
  
**14.** Influence of controlled particle size on pore size distribution and mechanical resistance of agarose beads for bioadsorption application. Amiri Sahar, Mehrnia Mohammad Reza (2018)., PARTICULATE SCIENCE AND TECHNOLOGY, 1(1), 1-8.  
  
**15.** 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, (2018)., International Journal of Environmental Research, 12(2), 167-178.  
  
**16.** Al2O3/poly acrylonitrile nanocomposite membrane: from engineering design of pores to efficient biological macromolecules separation. Ghezelgheshlaghi Saeid, Mehrnia Mohammad Reza, Nabizadeh Ramin, Sarrafzadeh Mohammad Hossein (2017)., JOURNAL OF POROUS MATERIALS, 25(4), 1161-1181.  
  
**17.** Synergistic effect of concurrent presence of zirconium oxide and iron oxide in the form of core-shell nanoparticles on the performance of Fe3O4@ZrO2 /PAN nanocomposite membrane. Noormohamadi Amin, Homayoonfal Maryam, Mehrnia Mohammad Reza, Davar Fatemeh (2017)., CERAMICS INTERNATIONAL, 43(18), 17174-17185.  
  
**18.** Evaluation of agarose-entrapped magnetic nanoparticles influence on protein adsorption isotherm and kinetics using nickel-iminodiacetic acid ligand. Amiri Sahar, Mehrnia Mohammad Reza, Sobhsnifard Sepide, Pourasgharian Roudsari Fatemeh, Hoseini Seyed Nezam Aldin (2017)., SEPARATION AND PURIFICATION TECHNOLOGY, 188(1), 423-430.  
  
**19.** 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.  
  
**20.** Preparation, characterization and performance studies of polyethersulfone (PES) - pyrolytic carbon (PyC) composite membranes. Peighami Reza, Mehrnia Mohammad Reza, Yazdian Fatemeh, Sheikhpour Mozhgan, Esmaeili Hamid (2017)., JOURNAL OF POLYMER RESEARCH, 24(2), 1-10.  
  
**21.** Role of zeolite in reducing membrane fouling in a hybrid membrane bioreactor system applied for wastewater treatment. Shahbeig Hossein, Mehrnia Mohammad Reza, Tashauoei Hamid Reza, Rezaei Maryam (2017)., Desalination and Water Treatment, 98(1), 52-58.  
  
**22.** Enhancing purification efficiency of affinity functionalized composite agarose micro beads using Fe3O4 nanoparticles. Amiri Sahar, Mehrnia Mohammad Reza, Pourasgharian Roudsari Fateme (2017)., JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, 1041-1042(1), 27-36.  
  
**23.** Enhancing puriﬁcation efﬁciency of afﬁnity functionalized composite agarose micro beads using Fe3O4 nanoparticles. Amiri Sahar, Mehrnia Mohammad Reza, Pourasgharian Roudsari Fatemeh (2016)., Journal of Chromatography B: Biomedical Sciences and Applications, 1041(2017), 27-36.  
  
**24.** Investigation of mercury removal by Micro-Algae dynamic membrane bioreactor from simulated dental waste water. Hatami Fard Ghazal, Mehrnia Mohammad Reza (2016).  
  
**25.** Pharmaceutical wastewater treatment using membrane bioreactor-ozonation system. Shahbeig Hossein, Mehrnia Mohammad Reza, احمدرضا محمدی, Eivanpoor Moghaddam Pegah, Rouini Mohammad Reza (2016)., WATER AND ENVIRONMENT JOURNAL, -(-), -.  
  
**26.** Engineering design of a bioﬁlm formed on a pH-sensitive ZnO/PSf nanocomposite membrane with antibacterial properties. Javdaneh Shima, Mehrnia Mohammad Reza, (2016)., RSC Advances, 6(-), 112269-112281.  
  
**27.** Optimizing the removal of organophosphorus pesticide malathion from water using multi-walled carbon nanotube. Dehghani Mohammad Hadi, Shariati Niasar Zahra, Mehrnia Mohammad Reza, Shayeghi Mansoreh, Al-ghouti Mohammad, Heibati Behzad, Mckay Gordon, Yetilmezsoy Kaan (2016)., CHEMICAL ENGINEERING JOURNAL, 310(-), 22-32.  
  
**28.** Fouling mitigation behavior of magnetic responsive nanocomposite membranes in a magnetic membrane bioreactor. Mehrnia Mohammad Reza, (2016)., JOURNAL OF MEMBRANE SCIENCE, 520(-), 881-894.  
  
**29.** Functional synergy of anti-mir221 and nanohydroxyapatite scaffold in bone tissue engineering of rat skull. Sadeghi Mahya, Bakhshandeh Behnaz, Dehghan Mohammad Mehdi, Mehrnia Mohammad Reza, Khojasteh Arash (2016)., JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE, 27(8), 1-8.  
  
**30.** Fabrication of polysulfone/zinc oxide nanocomposite membrane: Investigation of pore forming agent on fouling behavior. Javdaneh Shima, Mehrnia Mohammad Reza, (2016)., KOREAN JOURNAL OF CHEMICAL ENGINEERING, 33(11), 3184-3193.  
  
**31.** 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, Sarrafzadeh Mohammad Hossein (2016)., PROCESS BIOCHEMISTRY, 1(1), 1-15.  
  
**32.** 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.  
  
**33.** Application of Response Surface Methodology for investigation of membrane fouling behaviours in microalgal membrane bioreactor: The effect of aeration rate and biomass concentration. Alipourzadeh Azadeh, Mehrnia Mohammad Reza, Hallaji Sani Ahmad, Babaie Azadeh (2016)., RSC Advances, 4(11), 1-23.  
  
**34.** What is the concentration threshold of nanoparticles within the membrane structure? A case study of Al2O3/PSf nanocomposite membrane. Mehrnia Mohammad Reza, Mohades Mojtahedi Yasaman, (2015)., Desalination, 372(372), 75-88.  
  
**35.** Control of mixing for optimal formation of dynamic membrane in MBRs. Fakhimi Neda, Mehrnia Mohammad Reza (2015)., Desalination and Water Treatment, 57(34), 15759-15771.  
  
**36.** Rapid separation of microalga Chlorella vulgaris using magnetic chitosan: Process optimization using response surface methodology . Barkati Goudarzi Mohammad, Mehrnia Mohammad Reza, Pourasgharian Roudsari Fateme, Boldor Dorin (2015)., PARTICULATE SCIENCE AND TECHNOLOGY, 34(2), 165-172.  
  
**37.** Petrochemical wastewater treatment and reuse by MBR: A pilot study for ethylene oxide/ethylene glycol and olefin units. Bayat Mitra, Mehrnia Mohammad Reza, Hosseinzadeh Mostafa, Sheikh Reza (2015)., JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, 25(2), 265-271.  
  
**38.** wastewater treatment study in membrane bioreactor by using computational fluids dynamics. Bayat Mitra, Mehrnia Mohammad Reza, Mostoufi Navid, Rajabi Hamaneh Mahdi (2015)., Journal of Environmental Studies, 41(1), 1.  
  
**39.** Dynamic membrane behaviours during constant flux filtration in membrane bioreactor coupled with mesh filter. Poostchi Amir Ali, Mehrnia Mohammad Reza, Rezvani Fariba (2015)., ENVIRONMENTAL TECHNOLOGY, 36(14), 1751-1758.  
  
**40.** Investigating the effect of sparger configuration on the hydrodynamics of a full-scale membrane bioreactor using computational fluid dynamics. Amini Ershad, Mehrnia Mohammad Reza, Mosave Sayed Nohammad, Azami Hamed, Mostoufi Navid (2015)., RSC Advances, 5(127), 105218-105226.  
  
**41.** Extraction of fatty aciids omega 3 from Cultiventris Clupeonella of caspian sea. Shahbeig Hossein, Hallaji Sani Ahmad, Mehrnia Mohammad Reza, Shaban Saba (2014)., Journal of Fisheries(Iranian Journal Of Natural Recources), 67(3), 361-374.  
  
**42.** a comparison between blending and surface deposition methods for the preparation of iron oxide/polysulfone nanocomposite membranes. Homayoonfal Maryam, Mehrnia Mohammad Reza, Shariaty Niassar Mojtaba, Fauzi Ismail Ahmad, (2014)., Desalination, 354(11), 125-142.  
  
**43.** optimal operating strategies of SFDM formation for MBR application. Rezvani Fariba, Mehrnia Mohammad Reza, Poostchi Amir Ali (2014)., SEPARATION AND PURIFICATION TECHNOLOGY, 124(124), 124-133.  
  
**44.** Reduction of membrane fouling by innovative method (injection of air jet). Sadat Amiraftabi Maryam, Hosseinzadeh Mostafa, Mostoufi Navid, Mehrnia Mohammad Reza (2014)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 12(128), 1-8.  
  
**45.** Formation of pre-coating dynamic membrane on mesh filter by cross-flow filtration of PAC–water suspension in a bioreactor: experimental and modeling. Poostchi Amir Ali, Bayat Mitra, Rezaie Maryam, Amini Ershad, Mehrnia Mohammad Reza (2014)., Desalination and Water Treatment, 55(1), 17-27.  
  
**46.** Fabrication of magnetic nanocomposite membrane for separation of organic contaminant from water. Homayoonfal Maryam, Mehrnia Mohammad Reza, Shariaty Niassar Mojtaba, Sarrafzadeh Mohammad Hossein, (2014)., Desalination and Water Treatment, 54(13), 1-7.  
  
**47.** Determination of ozone adsorption in activated sludge system and its effect on sludge properties. Ghandehari Sara, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Pajoum-shariati Farshid (2014)., Desalination and Water Treatment, 54(13), 1-7.  
  
**48.** Investigation of Sporulation Phase in a Biosurfactant Producing Culture for Application in Microbial‐Enhanced Oil Recovery. Abi Akram, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2014)., CHEMIE INGENIEUR TECHNIK, 86(9), 1484.  
  
**49.** 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.  
  
**50.** Amoxicillin separation from pharmaceutical solution by pH sensitive nanofiltration membranes. Homayoonfal Maryam, Mehrnia Mohammad Reza (2014)., SEPARATION AND PURIFICATION TECHNOLOGY, 1(130), 83-74.  
  
**51.** Hydrodynamics of an Airlift Bioreactor Treating Petroleum-based Liquids: Experiment and CFDM. Mostoufi Navid, Mehrnia Mohammad Reza, (2014)., Energy Sources Part A-Recovery Utilization and Environmental Effects, 36(12), 1296-1304.  
  
**52.** The inﬂuence of zeolite (clinoptilolite) on the performance of a hybrid membrane bioreactor. Rezaei Mariyam, Mehrnia Mohammad Reza (2014)., BIORESOURCE TECHNOLOGY, 158(1), 25-31.  
  
**53.** The Hydrodynamics of a Bubble Column Bioreactor with Oil-based Liquids: Experiments and CFD Simulation. Mehrnia Mohammad Reza, Mostoufi Navid, Amiri Sahar, Vali Maryam, Hashemabadi Hasan (2013)., Energy Sources Part A-Recovery Utilization and Environmental Effects, 35(22), 2156-2165.  
  
**54.** Dielectric monitoring and respirometric activity of a high cell density activated sludge. Pajoum-shariati Farshid, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Sarzana Gabriele, (2013)., ENVIRONMENTAL TECHNOLOGY, 35(4), 1-7.  
  
**55.** Effect of Microalgae/Activated Sludge Ratio on Cooperative Treatment of Anaerobic Effluent of Municipal Wastewater. Pourasgharian Roudsari Fateme, Mehrnia Mohammad Reza, Asadi Akram, Moayedi Zohreh, Ranjbar Reza (2013)., APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, 172(1), 1-13.  
  
**56.** Performance of membrane bioreactor in presence of flocculants. Nouri Niloufar, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, (2013)., Desalination and Water Treatment, 52(16-18), 1-6.  
  
**57.** Experimental Study and Computational Fluid Dynamics Simulation of a Full-Scale Membrane Bioreactor for Municipal Wastewater Treatment Application. Amini Ershad, Mehrnia Mohammad Reza, Mosave Sayed Nohammad, Mostoufi Navid (2013)., INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 52(29), 9930-9939.  
  
**58.** Investigation of Gas Hold up and Power Consumption in a Stirred Tank Bioreactor Using Single and Dual Impeller Configurations. Karimi Ali, Golbabaei Farideh, Mehrnia Mohammad Reza, Mohammad Kazem, Neghab Masoud, Nikpey Ahmad, Pourmand Mohammad Reza (2013)., JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL HYGIENE, 5(3), 109-116.  
  
**59.** Biomass characterization by dielectric monitoring of viability and oxygen uptake rate measurements in a novel membrane bioreactor. Pajoum-shariati Farshid, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Sarzana Gabriele, (2013)., BIORESOURCE TECHNOLOGY, 140(5), 357-362.  
  
**60.** Experimental study and modeling of fouling in immersed membrane bioreactor operating in constant pressure filtration. Hosseinzadeh Mostafa, Mehrnia Mohammad Reza, Mostoufi Navid (2013)., MATHEMATICAL PROBLEMS IN ENGINEERING, 1(1), 456143.  
  
**61.** Effect of metal and metal oxide nanoparticle impregnation route on structure and liquid filtration performance of polymeric nanocomposite membranes: a comprehensive review. Homayoonfal Maryam, Mehrnia Mohammad Reza, Mohades Mojtahedi Yasaman, (2013)., Desalination and Water Treatment, 51(16-18), 3295-3316.  
  
**62.** 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.  
  
**63.** 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.  
  
**64.** Effect of metal and metal oxide nanoparticle impregnation route on structure and liquid filtration performance of polymeric nanocomposite mambranes : a comprehensive review. مریم همایونفال, Mehrnia Mohammad Reza, یاسمن محدث مجتهدی, احمد فوزی اسماعیل (2013)., Desalination and Water Treatment, 1(1), -.  
  
**65.** Biodegradation of high concentrations of benzene vapors in a two phase partition stirred tank bioreactor. Karimi Ali, Golbabaei Farideh, Neghab Masoud, Pourmand Mohammad Reza, Nikpey Ahmad, Mohammad Kazem, Mehrnia Mohammad Reza (2013)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 10(1), 1-9.  
  
**66.** Effect of hydrodynamics on kinetics of gluconic acid enzymatic production in bubble column reactor. Ramezani Mohammad, Mostoufi Navid, Mehrnia Mohammad Reza (2013)., Chemical Industry and Chemical Engineering Quarterly, 19(3), 411-422.  
  
**67.** Oxygen mass transfer in a stirred tank bioreactor using different impeller configurations for environmental purposes. A Karimi, F Golbabaei, Mehrnia Mohammad Reza, M Neghab, Kazem Mohammad, A Nikpey, Mr Pourmand (2013)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 10(1), 6-10.  
  
**68.** Effect of hydrodynamics on kinetics of gluconic acid enzymatic production in bubble column reacto. Ramezani Mohammad, Mostoufi Navid, Mehrnia Mohammad Reza (2013)., Chemical Industry and Chemical Engineering Quarterly, 3(19), 411-422.  
  
**69.** Fabrication of Al2O3/PSf nanocomposite membranes : efficiency comparison of coating and blending methods in modification of filtration performance. Mohades Mojtahedi Yasaman, Mehrnia Mohammad Reza, مریم همایونفال (2012)., Desalination and Water Treatment, 1(1), -.  
  
**70.** 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.  
  
**71.** 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), -.  
  
**72.** Improved Modeling of Bubble Column Reactors by Considering the Bubble Size Distribution. Mohammad Ramezani, Mostoufi Navid, Mehrnia Mohammad Reza (2012)., INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, 51(16), 5705-5714.  
  
**73.** 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.  
  
**74.** Immobilization of Recombinant Nanobiofiber CS3 Fimbriae onto Alginate Beads for Improvement of Cadmium Biosorption. Sepideh Ghorbani, Fatemeh Tabandeh, Bagher Yakhchali, Mehrnia Mohammad Reza (2012)., BIOTECHNOLOGY AND BIOPROCESS ENGINEERING, 16(5), 1019-1026.  
  
**75.** 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.  
  
**76.** Determination of bubble size distribution in a bubble column reactor using artificial neural network. Davud Barzegari, Sajad Yazdani, Sahar Amiri, Mehrnia Mohammad Reza (2012)., Asia-Pacific Journal of Chemical Engineering, 7(4), 623-616.  
  
**77.** Analysis of petroleum biodesulfurization in an airlift bioreactor using response surface methodology. Zahra Azimzadeh Irani, Mehrnia Mohammad Reza, Fatemeh Yazdian, Majid Soheily, Ghasemali Mohebali, Behnam Rasekh (2011)., BIORESOURCE TECHNOLOGY, 102(22), 10585-10591.  
  
**78.** Immobilization of recombinant nanobiofiber CS3 fimbriae onto alginate beads for improvement of cadmium biosorption. Sepideh Ghorbani, Fatemeh Tabandeh, Bagher Yakhchali, Mehrnia Mohammad Reza (2011)., BIOTECHNOLOGY AND BIOPROCESS ENGINEERING, 16(5), 1019-1026.  
  
**79.** 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.  
  
**80.** 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.  
  
**81.** An artificial neural network for prediction of gas holdup in bubble columns with oily solutions. Sahar Amiri, Mehrnia Mohammad Reza, Davood Barzegari, Aryan Yazdani (2011)., NEURAL COMPUTING & APPLICATIONS, 20(4), 494-487.  
  
**82.** 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.  
  
**83.** 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.  
  
**84.** . حسین دلاوری امرئی, Mehrnia Mohammad Reza, Montazer Rahmati Mohammad Mahdi (2011)., Iranian Chemical Engineering, 9(53), 36-29.  
  
**85.** 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.  
  
**86.** Mathematical Modeling of a Horizontal Loop Bioreactor for Biomass Production From natural Gas. Fatemeh Yazdian, Seyyed Abbas Shojaosadati, Fatemi Shohreh, Mehrnia Mohammad Reza, Zahra Sadat Aghamiri (2011)., PROCESS BIOCHEMISTRY, 45(8), 1393 -1400.  
  
**87.** Investigation of Oxygen Transfer in a Two - phase partition Stirred Tank Bioreactor in the Presence of Silicon Oil. Mehrnia Mohammad Reza (2011)., CHEMICAL AND BIOCHEMICAL ENGINEERING QUARTERLY, 25(2), 209-219.  
  
**88.** Pyrene Removal by White Rot Fungus Phanerochaete Chrysosporium immobilized on Sugarcane Bagasse. Masoumeh Khodddam, Bahram Nasernejad, Mohammad Ali Khoddam, Mehrnia Mohammad Reza (2011)., Research Journal of Chemistry and Environment, 15(4), 39-35.  
  
**89.** Effect of membrane characteristics on the performance of membrane bioreactors for oily wastewater treatment. Mohammad Hossein Sarrafzadeh, Mehrnia Mohammad Reza, Sara Mafirad (2011)., WATER SCIENCE AND TECHNOLOGY, 64(5), 1154-1160.  
  
**90.** Performance of a Novel Hybrid Membrane Bioreactor : Effect of Bacterial Floc Size on Fouling. Farshid Pajoum Shariati, Mehrnia Mohammad Reza, Sarrafzadeh M H, Sara Rezaee, Pariya Mohtasham, Christelle Wisniewski, Marc Heran (2011)., Chemical Engineering Transactions, 24(---), 786-781.  
  
**91.** 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.  
  
**92.** Comparative study of biosurfactant producing bacteria in MEOR applications. Haghighi Manouchehr, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, حسین امانی (2010)., JOURNAL OF PETROLEUM SCIENCE AND ENGINEERING, 75(1-2), 209-214.  
  
**93.** 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.  
  
**94.** . 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.  
  
**95.** . محمدرضا صعودی, شقایق نصر, بهاره عطاران, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2010)., Biological Science Promotion, 23(2), 172-178.  
  
**96.** 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.  
  
**97.** Effect of surface contaminants on oxygen transfer in bubble column reactors. Maryam Asgharpour, Mehrnia Mohammad Reza, Mostoufi Navid (2010)., BIOCHEMICAL ENGINEERING JOURNAL, 49(3), 351-360.  
  
**98.** Study of hydrodydynamics mass transfer energy consumtion and biomass production from natural gas in a forced - liquid vertical tubular loop bioreactor. Fatemeh Yazdian, M Pesaran Hajiabbas, Saeidali Shojaosadati, M Nosrati, E Vasheghani Farahania, Mehrnia Mohammad Reza (2010)., BIOCHEMICAL ENGINEERING JOURNAL, 49(2), 192-200.  
  
**99.** . حسین دلاوری امرئی, Montazer Rahmati Mohammad Mahdi, Mehrnia Mohammad Reza, اوبران بلوری (2010)., QUARTERLY NASHRIEH SHIMI VA MOHANDESI SHIMI IRAN, 43(2), 1-6.  
  
**100.** 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.  
  
**101.** Removal of dissolved organic carbon by multi - walled carbon nanotubes powdered activated carbon and granular activated carbon. Amir Ali Poostchi, Mehrnia Mohammad Reza, Mohammad Hossein Sarrafzadeh (2010)., Research Journal of Chemistry and Environment, 14(4), 59-66.  
  
**102.** EFFECT OF HEAVY METALS ON FOULING BEHAVIOR IN MEMBRANE BIOREACTORS. Hamed Azami, Mehrnia Mohammad Reza, Mohammad Hossein Sarrafzadeh, Sahar Amiri, M Shavandi (2010)., IRANIAN JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, 7(5), 377-384.  
  
**103.** Templated Growth of Carbon Nanotubes on Nickel Loaded Mesoporous MCM - 41 and MCM - 48 Molecular Sieves. Majid Masoumi, Mehrnia Mohammad Reza, Montazer Rahmati Mohammad Mahdi, Ali Morad Rashidi (2010)., INTERNATIONAL JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, 6(2), 88-96.  
  
**104.** 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), -.  
  
**105.** Adsorption of carbon dioxide using impregnated activated carbon promoted by Zinc. Afsaneh Somy, Mehrnia Mohammad Reza, Hosein Delavari Amrei, Amin Ghanizadeh, Mohammadhosein Safari (2009)., International Journal of Greenhouse Gas Control, 3(3), 249-254
.  
  
**106.** Preparation of nanofilter from carbon nanotubes for application in virus removal from water. Seyed Taha Mostafavi, Mehrnia Mohammad Reza, Ali Morad Rashidi (2009)., Desalination, 238(3), 271-280.  
  
**107.** 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.  
  
**108.** . حنانه رسولی کناری, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, زینب صالحی (2008)., Iranian Chemical Engineering, 7(36), 42-53.  
  
**109.** . علیرضا کاویان پور, Mehrnia Mohammad Reza (2008)., QUARTERLY NASHRIEH SHIMI VA MOHANDESI SHIMI IRAN, 27(3), 93-98.  
  
**110.** Bubble Size Distribution in Oil - Based Bubble Columns. Shirin Sadat Homayouni, Mehrnia Mohammad Reza, Mostoufi Navid, Mehdi Rajabi, Arian Yazdani (2008)., CHEMICAL ENGINEERING & TECHNOLOGY, 31(11), 1668-1675.  
  
**111.** 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.  
  
**112.** Low pressure adsorption of CO2 on multi - wall carbon nanotubes. حسین دلاوری, Mehrnia Mohammad Reza, امین غنی زاده, Montazer Rahmati Mohammad Mahdi (2008)., INTERNATIONAL JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, 4(1), 49-55.  
  
**113.** Mathematical modeling and study of mass transfer parameters in supercritical fluid extraction of fatty acids from Trout powder. Alireza Salimi, Mehrnia Mohammad Reza, Fatemi Shohreh, Hamzeh Zakizadeh Nei Nei (2008)., BIOCHEMICAL ENGINEERING JOURNAL, 40(1), 72-78.  
  
**114.** 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.  
  
**115.** Hydrodynamics and oxygen transfer behaviour of water in diesel microemultions in a draft - tube airlift bioreactor. Farshid Pajoom Shariati, Babak Bonakdarpour, Mehrnia Mohammad Reza (2007)., CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, 46(4), 334-342.  
  
**116.** Gas holdup and Oxygen Transfer in a Draft - Tube Airlift Bioreactor with Petroleum - Based Liquids. Mehrnia Mohammad Reza, Jafar Towfighi, Babak Bonakdarpour, Mohammad Mehdi Akbarnejad (2005)., BIOCHEMICAL ENGINEERING JOURNAL, 22(2), 105-110.

***Books***

**1.** engineering. Mehrnia Mohammad Reza, علیرضا کاویان پور, احمد قضاتلو (2013).  
  
**2.** کاربرد مهندسی شیمی در داروسازی. Mehrnia Mohammad Reza, احمد قضاتلو, اسماعیل حریریان, نگین رضوی لر (2011).

***Conferences***

**1.** Effect of Coculturing Ecoli with Chlamydomonas reinhardtii on Biohydrogen Production. Fakhimi Neda, Tavakoli Omid, Marashi Sayed Amir, Gonzalez-ballester David, Moghimi Hamid, Mehrnia Mohammad Reza (2017)., 2nd International and 10th National Biotechnology Congress of Islamic Republic of Iran, 29-31 August, Karaj, Iran.  
  
**2.** Coculturing Rhizobium with Chlamydomonas reinhardtii improves biohydrogen production. Fakhimi Neda, Tavakoli Omid, Marashi Sayed Amir, Gonzalez Ballester David, Moghimi Hamid, Mehrnia Mohammad Reza (2017)., 4th hydrogen and fuel cell conference, 9-10 May, Tehran, Iran.  
  
**3.** Septic tank systems, advantages and future challenges in wastewater treatment. Shahrooei Kamran, Mehrnia Mohammad Reza, Aroon Mohammad Ali, Tabibian Masoud (2017)., The 2nd National Conference on Environmental Engineering and Management, 25 January, Tehran, Iran.  
  
**4.** Investigation of TiO2 nanoparticle effect on mechanical strength of the chitosan- based membranes. Mafirad Sara, Mehrnia Mohammad Reza, Zahedi Payam, Hoseyni Seyed Nezamodin, Ghadami Azam, Ehsani Morteza (2016)., 12th International Seminar on Polymer Science and Technology (ISPST 2016), 2-5 November, Tehran, Iran.  
  
**5.** Removal of ammonium and phosphorous by algae-bacterial culture and algae cultured heterotrophicaly from wastewater. Mehrnia Mohammad Reza, Babaie Azadeh (2015)., The 9th Int. Chem Eng, 26-28 December, Shiraz, Iran.  
  
**6.** 1 Studying parameters affecting the Immobilization of iminodiacetic acid on agarose beadsfor chromatography application. Sobhanifard Sepideh, Mehrnia Mohammad Reza, Amirir Zohreh, Hoseiny Nasim (2015)., The 9th international chemical engineering congress, 26-28 December.  
  
**7.** Effect of microalgae concentration on membrane fouling and nitrogen removal. Alipourzadeh Azadeh, Mehrnia Mohammad Reza, Hallaji Sani Ahmad, Babaie Azadeh (2015)., The 9th Int. Chem Eng, 26-28 December, Shiraz, Iran.  
  
**8.** Preparation and characterization of controlled sized agarose beads by emulsification technique. Amiri Sahar, Mehrnia Mohammad Reza (2015)., The 9th international chemical engineering congress, 26-28 December.  
  
**9.** hormonal analysis methods in minicipal wastewater. Shams Kilani Mehrdad, Sharafi Amir Hosein, Mehrnia Mohammad Reza (2015)., first national conference on industrial, hospital and pharmaceutical waste and wastewater management, 9 December.  
  
**10.** The effect of antibiotic on water, soil and antimicrobial resistance ecosystems. Sharafi Amir Hosein, Mehrnia Mohammad Reza, Tavakoli Omid (2015)., first national conference on industrial, hospital and pharmaceutical waste and wastewater management, 9 December.  
  
**11.** Modeling Kinetics and reactor design of bioartificial pancreas. Peighami Reza, Mehrnia Mohammad Reza, Yazdian Fatemeh, Sheikhpour Mojgan (2015)., the 22nd Iranian Conference of Biomedical Engineering, 25-27 November.  
  
**12.** Polyacrylonitrile/Al2O3flat sheet mixed-matrix nanocompositeultrafiltration membranes with enhanced pure water flux and dye rejection. Ghezelgheshlaghi Saeid, Mehrnia Mohammad Reza, Montazer Rahmati Mohammad Mahdi, (2015)., The 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November, Tehran, Iran.  
  
**13.** effect of biological and antibacterial properties of PSF/ZnO nanocomposite membrane on fouling behavior in MBR system. Javdaneh Shima, Mehrnia Mohammad Reza, (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November.  
  
**14.** The effect of photoautotrophic culture of chlorella vulgaris on ammonia removal by using membrane bioreactor. Babaie Azadeh, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November, Tehran, Iran.  
  
**15.** 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.  
  
**16.** Synthesizing Fe3O4-Alumina-polysulfone nanocomposite ultrafiltration membranes with enhanced performance for CU(II) removal from water. Hasanabadi Farshad, Mehrnia Mohammad Reza, Marandi Aidin (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November.  
  
**17.** Preparation of a nanocomposite chitosan membrane for BSA adsorption from aqueous solutions. Mafirad Sara, Mehrnia Mohammad Reza, Hoseyni Seyed Nezamodin, Zahedi Payam, Moafi-madani Seyyedeh Zahra (2015)., International Conference on Membrane Science and Technology (MST 2015), 1-3 November, Tehran, Iran.  
  
**18.** Hydrodynamics of MBRs with considering membrane permeate flux effects. Bayat Mitra, Mehrnia Mohammad Reza, Mostoufi Navid, Rajabi Javad (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November, Tehran, Iran.  
  
**19.** 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.  
  
**20.** Study of aeration rate influence on microalgae membrane photoreactor: fouling and nitrogen removal. Alipourzadeh Azadeh, Mehrnia Mohammad Reza, Hallaji Sani Ahmad, Babaei Azadeh (2015)., 12th International Conference on Membrane Science and Technology (MST2015), 1-3 November.  
  
**21.** Nitrogen removal by using membrane bioreactor containing mixotrophic microalgae. Babaie Azadeh, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2015)., The 9th Int. Chem Eng, 11-12 October, Shiraz, Iran.  
  
**22.** Effects of Soluble Microbial Products on Fouling. Sepehri Arsalan, Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza (2015)., Iran Membrane 2015, 26-27 May, Tehran, Iran.  
  
**23.** 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.  
  
**24.** Functional synergy of anti-mir221 and nanohydroxy apatite scaffold in bone tissue. Sadeghi Mahya, Bakhshandeh Behnaz, Dehghan Mohammad Mehdi, Mehrnia Mohammad Reza, Mohamadyar Farzaneh (2015)., First International and 9th National Biotechnology Congress, 24 May, Tehran, Iran.  
  
**25.** Comparison of ammonia removal in the microalgal and microalgal- bacterial system. Amini Elahe, Mehrnia Mohammad Reza, Babaie Azadeh (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**26.** Arrangement Strategies of Dynamic Membrane Formation for Membrane Bioreactor Applications. Fakhimi Neda, Mehrnia Mohammad Reza (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**27.** investigating the effect of halophilic microbial populations on membrane fouling in membrane bioreactor. Sehatbakhsh Nader, Mehrnia Mohammad Reza, Hatami Fard Gaf, Khoddam Mohammad Ali (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**28.** Effect of Transmembrane Pressure on Fouling Behaviour of Microalgae Membrane Bioreactor. Alipourzadeh Azadeh, Mehrnia Mohammad Reza, Hallaji Sani Ahmad, Babaie Azadeh, Bahrami Fateme (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**29.** Effect of magnetic field on Fe3O4-Alumina-polysulfone nanocomposite ultrafiltration membranes in terms of dye rejection and pure water flux. Marandi Aidin, Mehrnia Mohammad Reza, Homayoonfal Maryam, Javdaneh Shima (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**30.** Investigating Effect of Powdered Activated Carbon on Dynamic Membrane Formation in a Membrane Bioreactor. Bahrami Fateme, Mehrnia Mohammad Reza (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**31.** The Effect of Dark and Light Cycle on Nutrient Removal by Using Membrane Bioreactor Containing Microalgae. Babaie Azadeh, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, Fakhimi Neda (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**32.** investigation of operational parameters and optimization for micro-algae dynamic membrane formation in membrane bioreactor. Hatami Fard Gaf, Mehrnia Mohammad Reza, Sehatbaksh Non, Hatami Fard Kaf (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**33.** Fouling behaviour of PSf/ZnO nanocomposite membrane in Humic acid filtration. Javdaneh Shima, Mehrnia Mohammad Reza, Homayoonfal Maryam (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**34.** numerical computation of Bubbly flow using Euler-lagrange aproach in membrane bioreactor. Rahimzadeh Ali, Mansour Pour Zahra, Mehrnia Mohammad Reza, Javdaneh Shima (2015)., IWA Balkan Young Water Professionals 2015, 10-12 May, Thessaloniki, Greece.  
  
**35.** The effect of nitrogen concentration on membrane fouling and its percent removalin bioreactor containing with microalgae. Alipourzadeh Azadeh, Mehrnia Mohammad Reza, Hallaji Sani Ahmad, Babaie Azadeh (2015)., International conference on enviromental science engineering Technologies, 5-6 May, Tehran, Iran.  
  
**36.** effect of hetrotroph micro-algae on removing nitrogen from wastewater in membrane bioreactor. Babaie Azadeh, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2015)., environmental science, engineering and technologies, 5-6 May, Tehran, Iran.  
  
**37.** Effect of liquid viscosity on gas hold up of bubble columns. Jamshidi Niloufar, Mostoufi Navid, Mehrnia Mohammad Reza (2015)., 15th Iranian National Congress of Chemical Engineering (IChEC 2015), 17-19 February, Tehran, Iran.  
  
**38.** removing BSA protein from solution. Mafirad Sara, Mehrnia Mohammad Reza, Moafi Madani Zahra (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**39.** The effect of membrane fouling on membrane bioreactors containing microalgae.. Alipourzadeh Azadeh, Mehrnia Mohammad Reza, Hallaji Sani Ahmad, Babaie Azadeh (2015)., SEcond national conferenco on water recycling, 26-28 January, Tehran, Iran.  
  
**40.** dynamic magnetic field in membrane bioreactor. Marandi Aidin, Mehrnia Mohammad Reza, Homayoonfal Maryam (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**41.** investigation of magnetic nanoparticles and magnetic field in membrane bioreactor. Marandi Aidin, Mehrnia Mohammad Reza, Homayoonfal Maryam (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**42.** the effect of activated carbon on dynamic structure of membrane. Bahrami Fateme, Mehrnia Mohammad Reza, Poostchi Amir Ali (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**43.** comparison of microalgae and microalgae-active sludge. Mehrnia Mohammad Reza, Babaei Azadeh (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**44.** investigating the hydrulic effect of membrane in membrane bioreactor wit microalgae. Alipourzadeh Azadeh, Mehrnia Mohammad Reza, Hallaji Sani Ahmad, Babaie Azadeh (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**45.** the effect of light on removing nitrogen in membrane bioreactor with microalgae. Babaie Azadeh, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2015)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**46.** Investigating effect of permeate flux on hydrodynamics, shear rate and membrane fouling in MBRs using CFD simulation. Mostoufi Navid, Bayat Mitra, Mehrnia Mohammad Reza (2014)., International Conference on Water, Informatics, Sustainability and Environment, 26-28 August, Ottawa, Canada.  
  
**47.** Investigating hydrodynamics in an airlift membrane bioreactor using computational fluid. Mehrnia Mohammad Reza, Mostoufi Navid, Rajabi Mohamad, Hosenzade Mohsen (2014)., in The 8th International Chemical Engineering Congress, Kish (Iran), 15-18 March, Kish, Iran.  
  
**48.** 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, (2014)., 8th International Chemical Engineering Congress & Exhibition, 24-27 February, Kish, Iran.  
  
**49.** Effect of Magnetic Field on Magnetic Nanocomposite Membrane Filtartion. Homayoonfal Maryam, Marandi Aidin, Mehrnia Mohammad Reza, Shariaty Niassar Mojtaba, (2014)., The 8th International Chemical Engineering Congress and Exhibition (IChEC 2014), 24-27 February, Kish, Iran.  
  
**50.** effect of aeration rate on formation of dynamic membrane and bio-cake layer. Fakhimi Neda, Mehrnia Mohammad Reza, [] [], Pajoum-shariati Farshid, Poostchi Amir Ali (2014)., 8th international chemical engineering congress & exhibition (ICh, 24-27 February.  
  
**51.** Short and Long Term Filtration in a Hybrid Zeolite MBR. Rezaie Maryam, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, (2014)., 8th International Chemical Engineering Congress & Exhibition, 24-27 February, Kish, Iran.  
  
**52.** Adsorption of serum albumin on a microporous polyamide affinity membrane. Zamanpoor Negar, Mehrnia Mohammad Reza, Rezaie Maryam (2014)., 8th international chemical engineering congress & exhibition (ICh, 24-27 February.  
  
**53.** 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.  
  
**54.** Petrochemical wastewater treatment and reuse by MBR: A pilot study in Marun petrochemical complex, Iran. Hassan Zadeh Mostafa, Mehrnia Mohammad Reza, Bayat Mitra, Sheikh Reza (2014)., 8th international chemical engineering congress & exhibition (IChEC 2014, 24-27 February.  
  
**55.** numerical analysis of two phase. Rahimzadeh Ali, Mansour Pour Zahra, Mehrnia Mohammad Reza (2014)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**56.** simulation of membrane bioreactors. Rahimzadeh Ali, Mansour Pour Zahra, Mehrnia Mohammad Reza (2014)., national confrwnce of water reuse, 26-28 January, Tehran, Iran.  
  
**57.** the study of waste water treatment of Maron petrochemistry by MBR. Sheikh Reza, Hosein Zadeh Mostafa, Bayat Mitra, Abedi Yekta Maryam, Mehrnia Mohammad Reza (2014)., national confrwnce of water reuse, 26-27 January, Tehran, Iran.  
  
**58.** the study of problems of promoting Lagoon areation. Hosein Zadeh Mostafa, Amiri Sahar, Mehrnia Mohammad Reza, (2014)., national confrwnce of water reuse, 26-27 January, Tehran, Iran.  
  
**59.** desalination of water: technical and economical study. Mafirad Sara, Mehrnia Mohammad Reza, Homayoonfal Maryam, Meshkat Salar (2014)., national confrwnce of water reuse, 26-27 January, Tehran, Iran.  
  
**60.** Ammonium removal by using natural zeolite. Rezaie Maryam, Zamanpoor Negar, Mehrnia Mohammad Reza (2014)., national congress of water reuse, 26-27 January.  
  
**61.** localization technology of membrane bioreactor in industrial scale. Mehrnia Mohammad Reza, Hosseinzadeh Mostafa (2014)., national congress of water reuse, 26-27 January.  
  
**62.** separation methodology of macro plan activities of Science and Technology in urban, industrial and agriculture wastewater reuse. Amiri Sahar, Azimipoor Meybod Seyede Saloomeh, Bayat Mitra, Mehrnia Mohammad Reza (2014)., national congress of water reuse, 26-27 January.  
  
**63.** study of pilot membrane bioreactor in Pharmaceutical wastewater treatment. Amiri Sahar, Mehrnia Mohammad Reza, Narooi Nejad Mehrnaz (2014)., national congress of water reuse, 26-27 January.  
  
**64.** The organizational structure of the project management and project management in the national plan of science and technology in urban, industrial and agricultural wastewater reuse. Azimipoor Meybod Seyede Saloomeh, Mozafar Mohammad Amin, Mehrnia Mohammad Reza (2014)., national congress of water reuse, 26-27 January.  
  
**65.** investigation of the effect of biofilm on membrane performance in membrane bioreactor containing microalgae/sludge. Babaei Azadeh, Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein (2014)., national congress of water reuse, 26-27 January.  
  
**66.** Simulation of a membrane bioreactor by CFD. Mehrnia Mohammad Reza, Mostoufi Navid, Hosenzade Mohsen (2014)., National Water Resource Congress, 26-27 January, Tehran, Iran.  
  
**67.** water desalination technologies: technical and economical comparision. Mafirad Sara, Mehrnia Mohammad Reza, Homayoonfal Maryam, Meshkat Seyed Salar (2014)., national congress on water reuse, 26-27 January.  
  
**68.** localization of membrane bioreactor technology. Mehrnia Mohammad Reza (2014)., national confrwnce of water reuse, 26-28 January.  
  
**69.** polymeric membranes. Homayoonfal Maryam, Mehrnia Mohammad Reza (2014)., national confrwnce of water reuse, 26-27 January, Tehran, Iran.  
  
**70.** CFD simulation of a pilot-scale membrane bioreactor using a porous media approach. Mehrnia Mohammad Reza, Mostoufi Navid, Hosenzade Mohsen, Sarrafzadeh Mohammad Hossein (2013)., The 5th IWA-ASPIRE Conference and Exhibition, 8-10 September, Korea.  
  
**71.** Effective factors in treatment of phenolic wastewater by Alcaligenes faecalis. Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, (2011)., The 7 th7 International Chemical Engineering Congress Exhibition (IChEC 2011, 21-24 November, Kish Island, Iran.  
  
**72.** Effect of PEG molecular weight and coagulation temperature on amoxicillin separation by polysulfone nanofiltration membrane. Mehrnia Mohammad Reza (2011)., 7 7th International Chemical Engineering Congress Exhibition, 21-24 November, Kish Island, Iran.  
  
**73.** Application of low-cost membranes in a submerged membrane bioreactor. Mehrnia Mohammad Reza, (2011)., 6th IWA Specialist Conference on Membrane Technology for water and wastewater treatment, 4-7 October, Achen, Germany.  
  
**74.** Influence of nano-adsorbents on membrane fouling in membrane bioreactor. Mehrnia Mohammad Reza, (2011)., 6th IWA Specialist Conference on Membrane Technology for water and wastewater treatment, 4-7 October, Achen, Germany.  
  
**75.** Phenolic Westewater Treatment by pure Culture of Alcaligenes faecalise:Batch and MBR systems. Mehrnia Mohammad Reza, Sarrafzadeh Mohammad Hossein, (2011)., 6 TH IWA SPECIALIST Conferance on Membrance Technology for Water and Wastewater Treatment, 4-7 October, Achen, Germany.  
  
**76.** Fabrication of Nano-structured Polysulfone Membranes for Application in Amoxicillin Recovery from Pharmaceutical Wastewater. Mehrnia Mohammad Reza, (2011)., 6th IWA Specialist Conference on Membrane Technology for water and wastewater treatment, 4-7 October, Achen, Germany.  
  
**77.** Determination of growth Kinetic Parameters of a desulfurizing bacterium Gordonia Alkanivorans Strain RIPI90A. Azimzade Zahra, Yazdian Fatemeh, Mehrnia Mohammad Reza, Sohili Majid, Mohebali Ghasemali (2011)., Tenth International Conference on Chemical and Process Engineering, 8-11 May, Florence, Italy.  
  
**78.** The Potential of three Indigenous Isolated Bactria for Production of Biosurfactant and application in EOR. Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Haghighi Manouchehr, Amoabediny Ghassem (2009)., 8TH WORLD CONGRESS Of CHEMICAL eNGINEERING, 23-26 August, Montreal, Canada.  
  
**79.** 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.  
  
**80.** A comparison between different biological methods of nitrogen removal from wastewater. Sarrafzadeh Mohammad Hossein, Mehrnia Mohammad Reza, Salehi Zeinab (2008)., IChEC2008, 1-4 January, Kish Island, Iran.  
  
**81.** 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.

**HONORS and AWARDS**

**A** 2013, Tehran, Iran  
  
**Waterreuse** 2014, Tehran, Iran

**ACADEMIC POSITIONS**

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