



Amirkabir University of Technology
(Tehran Polytechnic)



**ABDOLREZA AROUJALIAN
MASHHADI**

Professor
Department of Chemical Engineering
Biotechnology - Environment

Email:
aroujali@aut.ac.ir

Phone:

h-index (Scopus):

27

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2437

Supervised MSc Theses

#	Thesis title	By	Date
1	Stabilization of TiO ₂ nanocomponents on polymeric membrane surface of polyethersulfone for increasing efficiency of phenolic compounds removal from food industrial wastewaters	Farima Damavandi & Abdolreza Aroujalian Mashhadi	October 2021
2	Stabilization of TiO ₂ nanoparticles on polymeric membrane surface to reduce fouling in food wastewater	Y Asaman Davarikia & Abdolreza Aroujalian Mashhadi	October 2021
3	investigation of the effect of graphene oxide arrangement under electrical field in the fabrication of PEBAX-1657 mixed matrix membrane in order to improve the separation of gases	Mojtaba Mehdinia Lichaei & Abdolreza Aroujalian Mashhadi	March 2021
4	Using of hydrophobe zeolite nano particles in fabrication of polymeric membrane used in OD process by electrosponing for fruit juice concentration	Zahra Estedlali & Abdolreza Aroujalian Mashhadi	February 2020
5	Modification of MF polymeric membrane surface using corona discharge to reduce	Saba Baranlouie & Abdolreza Aroujalian Mashhadi	February 2020
6	The effects of different modified atmosphere conditions on pigment and functional materials of tomato	Shayan Ahmadi & Abdolreza Aroujalian Mashhadi	June 2019
7	Fabrication and investigation of poly(ether-block-amide) mixed matrix membranes containing graphene and graphene oxide for gas separation	Farhang Pazani Alenjareghi & Abdolreza Aroujalian Mashhadi	February 2019

8	investigating the role of nano-particle materials in the manufacture of polymer membranes used in wastewater treatment of chemical industry	Zahra Khandel Dehkhareghan & Abdolreza Aroujalian Mashhadi	February 2019
9	study effective parameters on orientation of the carbon Nano tubs in the polymer nano composite membrane /CNT	Zaniar Saif Panahi Shaabani & Abdolreza Aroujalian Mashhadi	February 2018
10	Fabrication of poly amide/Zeolite nano-composite membrane by electrospinning	Farzad Toiserkani & Abdolreza Aroujalian Mashhadi	October 2017
11	Using of titanium oxide nanoparticles in fabrication of thin film composite reverse osmosis membrane for fouling reduction	Alireza Mahdipour & Abdolreza Aroujalian Mashhadi	July 2017
12	synthesis of carbon nanotubes for use in polymer nano- filtration membranes water purification	Saman Mesvari & Abdolreza Aroujalian Mashhadi	July 2017
13	Revival used membrane by biological method	Be Be Esmat Golyar & Abdolreza Aroujalian Mashhadi	March 2017
14	Concentration of fruit juice by osmotic distillation membrane process and comprison with falling film evaporator	Atefe Roozitalab & Abdolreza Aroujalian Mashhadi	November 2016
15	Surface modification of polyvinyl alcohol membrane by zeolite nanoparticles and corona treatment for alcohol dehydration by pervaporation process	Farzaneh Asvadi & Abdolreza Aroujalian Mashhadi	October 2016
16	Investigate Of Asphaltene Precipitation and The Effect Of Different Solvents to Remove It and Compare The Economic Advantage Of Each Them In DARKHOVAIN Oil Field	Elham Dehdashtizadeh & Abdolreza Aroujalian Mashhadi	August 2016
17	Experimental and modeling study on the effect of structure and morphology of support layer on separation performance of polymeric nanocomposite membrane containing zeolite nanoparticles in pervaporation process	Zahra Tavana Valizade & Abdolreza Aroujalian Mashhadi	February 2016
18	Modeling of gas separation process by mixed matrix membrane containing zeolite nanoparticles using computational fluid dynamic method	Ali Izadiar & Abdolreza Aroujalian Mashhadi	February 2016
19	Coating silver nanoparticles on surface of polymeric films using corona discharge at different atmosphere for fabrication of packaging fim with antimicrobial property	Arefe Niknam & Abdolreza Aroujalian Mashhadi	February 2016
20	Fabrication of thin film nanocomposite revers osmosis membrane containing zeolite nanoparticles using dip coating	Saman Ayobi & Abdolreza Aroujalian Mashhadi	October 2015
21	Cross- linking of nanofiber nanocomposite membrane containing titanium oxide nanoparticles using ultraviolet ray for appliction in oily wastewaters treatment	Elham Karimi & Abdolreza Aroujalian Mashhadi	October 2015
22	Modeling of removal of styrene from petrochemical wastewater using pervaporation process with computational fluid dynamics tool	Abdolmajid Darvishi & Abdolreza Aroujalian Mashhadi	September 2015
23	Fabrication of nanofiber nanocomposite membranes for treatment of wastewater containing heavy metals	Mohsen Hasani Zadeh & Abdolreza Aroujalian Mashhadi	February 2015

24	Fabrication Of Mixed Matrix Polyethersulfone/PolyAmide/Nano Zeolite Mambrene For Separation Gaseous Mixtures	Kiyoumars Zarshenas & Abdolreza Aroujalian Mashhadi	February 2015
25	Investigation on release of organic materials from polyethylene terephthalate (PET)bottles)	Zeinab Modabber & Abdolreza Aroujalian Mashhadi	February 2015
26	fabrication of polymeric microfiltration membrane containong silver nanoparticles using coating technique with corona treatment	Samaneh Afkhamjavid & Abdolreza Aroujalian Mashhadi	February 2015
27	Synthesize of carbon nanotubes by catalytic vapor deposition method for using in polymeric membrane	Saeid Panahian & Abdolreza Aroujalian Mashhadi	October 2013
28	Experimental and modeling study of gas transport rate in vegetables packaging under modified	Fateme Kohzadi & Abdolreza Aroujalian Mashhadi	October 2013
29	Fabrication of polymeric film containing silver nanoparticles using a coating method for using in food packaging	Niloofar Bayani Bandpey & Abdolreza Aroujalian Mashhadi	October 2013
30	Synthesis of polymeric membrane containing nano-zeolite particles for dehydration of solvents by pervaporation process	Yousef Fathi Sola & Abdolreza Aroujalian Mashhadi	October 2013
31	Fabrication of ultrafiltration polymeric membrane containing zeolite and titanium oxide nanoparticles for membrane fouling reduction	Afshin Esmaili & Abdolreza Aroujalian Mashhadi	November 2012
32	Separation and Concentration of Alcohol from Dilute Aqueous Solutions by Pervaporation Membrane Process	Mostafa Omidali & Abdolreza Aroujalian Mashhadi	October 2012
33	Using of microwave and studying of the effective operating parameters in the synthesis to nano zeolite x	Mehdi Ansari & Abdolreza Aroujalian Mashhadi	September 2012
34	Fabricatin of polymeric memvrane for using in ultrafiltration process and surface modification to decrease membrane fouling	Ilin Sadeghi & Abdolreza Aroujalian Mashhadi	September 2012
35	Treatment of oily wastewater with membrane process	Korosh Masoud Nia & Abdolreza Aroujalian Mashhadi	September 2012
36	Using nanosilver particles to fabricate ultrafiltration membrane for using ni milk industries	Mohaddeseh Toroghi & Abdolreza Aroujalian Mashhadi	February 2012
37	preparation of polymer film associated with silver Nanoparticles by corona	Abdolhamid Sadeghnejad & Abdolreza Aroujalian Mashhadi	February 2012
38	Modeling of fruit drying process under modified atmosphere and its comarison with exeimental results	Reihane Golestani & Abdolreza Aroujalian Mashhadi	October 2011
39	Fabrication of polymeric composite membrane containing nano zeolite for using in pervaporation process	Farzane Rabiee Shirejini & Abdolreza Aroujalian Mashhadi	October 2011

40	Preparation of Ag-Nanocomposites and investigation of their antimicrobial properties for application in food packaging	Arefesadat Dehnavi & Abdolreza Aroujalian Mashhadi	February 2011
41	Improvement of bread shelf life using modified atmosphere packaging technology	Mahdiye Yavari & Abdolreza Aroujalian Mashhadi	February 2011
42	Separation of aroma from lemon during concentration process using pervaporation membrane	Nesa Rafia & Abdolreza Aroujalian Mashhadi	February 2010
43	Investigation of operating parameters for clarification of tomato juice by filtration	Behnaz Razi Perjikoalaie & Abdolreza Aroujalian Mashhadi	January 2010
44	Use of modified atmosphere technology to decrease in growth of yeast and mould during storage time of Iranian feta cheese	Narges Laraki & Abdolreza Aroujalian Mashhadi	February 2009
45	Preparation of Ag-Nanocomposites and Investigation of Their Antimicrobial Properties for Application In	Abasali Ahmadian & Abdolreza Aroujalian Mashhadi	February 2009
46	Microencapsulation of vanillin: oil-in-water (O/W) emulsion study	Somayeh Izadfar & Abdolreza Aroujalian Mashhadi	January 2009
47	Concentration of Lemon Juice By Evaporation Process	Danial Nemati Abyaneh & Abdolreza Aroujalian Mashhadi	November 2008
48	STUDY OF OSMOTIC DISTILLATION PROCESS IN CONCENTRATION OF CARROT JUICE	Reza Panahi & Abdolreza Aroujalian Mashhadi	June 2008
49	INVESTIGATION OF NANO PARTICLES IN LDPE FILM USED IN MILK PACKAGING	Hamed Amini Ranjbar & Abdolreza Aroujalian Mashhadi	March 2008
50	THE PRODUCTION OF CONCENTRATED CARROT JUICE USING EVAPORATION PROCESS	Katayoon Manshaee & Abdolreza Aroujalian Mashhadi	February 2008
51	USE OF MICROENCAPSULATION IN FOOD INDUSTRY-PRODUCTION OF LIPOPHILIC STARCH AS THE WALL MATERIAL TO ENCAPSULATE FLAVORING	Elham Abdollah Zadeh Sharghi & Abdolreza Aroujalian Mashhadi	February 2008
52	OPTIMIZATION OF OPERATING PARAMETERS FOR CLARIFICATION OF CARROT JUICE BY UF	Alireza Habibi & Abdolreza Aroujalian Mashhadi	February 2008

Journal Papers

Portal Records

- 1 Parisa Salimi, Abdolreza Aroujalian Mashhadi, Davood Iranshahi, "Graft copolymerization of zwitterionic monomer on the polyethersulfone membrane surface by corona air plasma for separation of oily wastewater", SEPARATION AND PURIFICATION TECHNOLOGY, March 2021 Vol. 258, Num. 1, Page 1-12, March 2021,
- 2 Farhang Pazani Alenjareghi, Abdolreza Aroujalian Mashhadi, "Enhanced CO₂-selective behavior of Pebax-1657: A comparative study between the influence of graphene-based fillers", POLYMER TESTING, December 2020 Vol. 81, Num. 106264, Page 0-0, December 2020,

- 3 Maryam Baniamer, Abdolreza Aroujalian Mashhadi, Shahram Sharifnia, "Photocatalytic membrane reactor for simultaneous separation and photoreduction of CO₂ to methanol", INTERNATIONAL JOURNAL OF ENERGY RESEARCH, September 2020 Vol. 45, Num. 2, Page 2353-2366, September 2020,
- 4 Masoume Ehsani, Abdolreza Aroujalian Mashhadi, "Fabrication of electrospun PES/ TiO₂ composite nanofibers membrane and its application for photocatalytic degradation of phenol in aqueous solution", POLYMERS FOR ADVANCED TECHNOLOGIES, March 2020 Vol. 31, Num. 4, Page 772-785, March 2020,
- 5 Atefe Roozitalab, Ahmadreza Raisi, Abdolreza Aroujalian Mashhadi, "A comparative study on pomegranate juice concentration by osmotic distillation and thermal evaporation processes", KOREAN JOURNAL OF CHEMICAL ENGINEERING, September 2019 Vol. 36, Num. 9, Page 1474-1481, September 2019,
- 6 Elham Karimi, Seyed Siamak Barekati, Ahmadreza Raisi, Abdolreza Aroujalian Mashhadi, "High-flux electrospun polyvinyl alcohol microfiltration nanofiber membranes for treatment of oil water emulsion", DESALINATION AND WATER TREATMENT, March 2019 Vol. 147, Num. 0, Page 20-30, March 2019,
- 7 Alireza Monazzami, Farzaneh Vahabzadeh, Abdolreza Aroujalian Mashhadi, Azadeh Mogharei, "An artificial neural network approach to determine the rheological behavior of pickering-type diesel-in-water emulsion prepared with the use of β -cyclodextrin", KOREAN JOURNAL OF CHEMICAL ENGINEERING, April 2018 Vol. 35, Num. 4, Page 847-852, April 2018,
- 8 Mohsen Hasani Zadeh, Abdolreza Aroujalian Mashhadi, Ahmadreza Raisi, "Fabrication of PES/NaX nanocomposite nanofibrous adsorbent for the removal of Cu²⁺, Co²⁺ and Fe²⁺ from aqueous solution", DESALINATION AND WATER TREATMENT, June 2017 Vol. 78, Num. 0, Page 221-230, June 2017,
- 9 Farzaneh Asvadi, Ahmadreza Raisi, Abdolreza Aroujalian Mashhadi, "Preparation of multi-layer pervaporation membrane by electrospinning of nano zeolite X", MICROPOROUS AND MESOPOROUS MATERIALS, June 2017 Vol. 251, Num. 0, Page 135-145, June 2017,
- 10 Niloofar Bayani Bandpey, Abdolreza Aroujalian Mashhadi, Ahmadreza Raisi, Shahrzad Fazel Astarky, "Surface coating of silver nanoparticles on polyethylene for fabrication of antimicrobial milk packaging films", INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY, May 2017 Vol. 70, Num. 2, Page 204-211, May 2017,
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Taught Courses

#	Course title	Description	Headlines	Date
1	Membrane Separation Processes	jj		Spring 2022
2	Principles of Polymer Chemistry and Technology	zz zz zz		Fall 2021
3	Membrane Separation Processes	jj		Spring 2021
4	Principles of Polymer Chemistry and Technology	zz zz zz		Fall 2020

Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Fabrication of super-hydrophilic cross-linked polyvinyl alcohol membrane by UV irradiation for using in oily wastewater treatment	90691			2016/12/1	2036/02/1
2	Fabrication of polymeric films containing silver nanoparticles by coating method using corona discharge	75033			2012/05/1	2012/05/1