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Supervised PhD Theses

#	Thesis title	By	Date
1	Tailoring ship-in-a-bottle synthesized metal - organic nanoporous hybrid materials embedded in a mixed matrix membrane for CO ₂ capture	Hamidreza Sanaeepur & Ali Kargari	June 2015

Supervised MSc Theses

#	Thesis title	By	Date
1	Fabrication and characterization of PEBAX 1657/ZIF-8/PEG Nanocomposite membrane for CO ₂ /N ₂ separation	Ariga Gharabeiki & Ali Kargari	October 2021
2	investigation of the possibility of regeneration of used ion exchange membrane in chlor-alkali electrolysis unit	Parvaneh Ebrahemi & Ali Kargari	October 2021
3	Fabrication and characterization of hydrophobic/hydrophilic dual layer polyphenylsulfone membrane for application in direct contact membrane distillation process	Zahra Hosseini & Ali Kargari	October 2021
4	Fabrication and characterization of PVDF membrane prepared by thermally induced phase separation (TIPS) method for application in membrane distillation	Firouze Jalili & Ali Kargari	October 2021
5	Investigation of type and structure of crosslinking agent on performance of poly ether imide solvent resistant nanofiltration membrane	Kimia Aghaei & Ali Kargari	January 2021

6	Synthesis of Zeolitic imidazolate framework (ZIF) based polymer nanocomposite	Aylin Baradari & Ali Kargari	January 2021
7	Optimization of seawater desalination process by a membrane distillation /LNG cycle hybrid system	Mohadeseh Aboualizadeh & Ali Kargari	December 2020
8	Design and simulation of biodiesel production in a membrane reactor	Sajad Omranpour & Ali Kargari	July 2020
9	Optimization of performance of mercaptan removal	Leila Poorbayat & Ali Kargari	February 2020
10	Modification of polyphenyl sulfone membrane by polyethylene glycol and nano-clay for separation of CO ₂ -CH ₄ -N ₂	Mehrdad Shariatifar & Ali Kargari	September 2019
11	Simulation and Modeling of Dehydration units in the complex of the south pars	Seyed Mohamad Rasool Mirkarimi & Ali Kargari	June 2019
12	Fabrication and characterization of polyetherimide polymeric membrane for separation of O ₂ /N ₂ gases	Pooneh Moghaddasi & Ali Kargari	May 2019
13	Construction and evaluation mixed matrix membrane polyphenyl sulfon/nano-silica and study the permeability of gases methane/nitrogen and hydrogen by it	Mohammadreza Taji Eshkaftaki & Ali Kargari	February 2019
14	Industrial Wastewater Treatment Using Direct-Contact Membrane Distillation	Somayeh Dokhani & Ali Kargari	March 2018
15	Modeling of water/air two phase flow in a spiral wound nano porous membrane module	Mohammadjavad Khosravi & Ali Kargari	February 2018
16	Role of product-side hydrophobicity of PVDF membrane on the performance of membrane distillation	Ana Abiri & Ali Kargari	February 2018
17	Separation of CO ₂ /N ₂ and CH ₄ /CO ₂ by polyphenylsulfone membrane modified by polyethyleneglycol	Sheida Rezaeinia & Ali Kargari	February 2018
18	Modification of zeolite using chemical method for separation of propene-propylene	Mohammad Ali Ahmadian Dehaghani & Ali Kargari	February 2018
19	Carbon molecular sieve preparation and evaluation for CO ₂ separation	Ali Vaezi & Ali Kargari	February 2018
20	The effect of nanoclay addition to poly (phenylsulfone) in order to improve the permeability and separation factor in carbon dioxide /methane separation	Ali Zare Shahrabady & Ali Kargari	February 2018
21	Fabrication and characterization of polymeric membrane based on polyetherimide and measurement of Ar, CH ₄ and N ₂ permeation	Fatemeh Pourmajid & Ali Kargari	July 2017
22	FACILITATED TRANSPORT OF CO ₂ THROUGH CO(II) -SPEEK MEMBRANE	Mina Rastyar & Ali Kargari	July 2017
23	Modification of PDMS dense membrane by TiO ₂ nano particles for removal of mono chloro phenols from aqueous solutions	Zahra Goli Shirhesar & Ali Kargari	February 2017
24	Fabrication and characterization of an integrated- skin nanofiltration membrane via vapor induced phase separation (VIPS) method for primary pretreatment of seawater	Amin Dehban & Ali Kargari	February 2017
25	Construction and evaluation of a hydrophobic porous polypropylene membrane via thermally induced phase separation	Mohammad Ali Ghanavati & Ali Kargari	February 2017

26	Separation hydrogen from synthesis gas by PEL/nano silica nano composite membrane	Fatemeh Hamidavi & Ali Kargari	February 2017
27	Fabrication and characterization of a two-layer nanofiltration poly ether imide membrane for water-oil mixtures separation	Edris Tohidian & Ali Kargari	February 2017
28	Modeling of olefins -paraffins separation process by adsorption	Mojtaba Zarei Yalquzaghaji & Ali Kargari	February 2016
29	GPC-PVC waste water recovery by ceramic membranefiltration system	Mohammad Dabirinejad & Ali Kargari	January 2016
30	Cobalt Removal From Aqueous Solution By Membrane Process	Amir Rashedi & Ali Kargari	April 2015
31	technical, economic and towers designed to separate c3/c4/c5/and c6+ from c3 from olefin plant	Mohammad Ali Rostami & Ali Kargari	October 2014
32	Reduction of Reversc Osmosis Reject TDS by Nanofiltration system	Saeedehsadat Mousavi & Ali Kargari	October 2014
33	Heavy Metals Removal From Aqueous Solution By Membrane Process	Shaker Rezaei & Ali Kargari	October 2014
34	technical and economic evaluation of the c3 obtained from c3+ for olefins furnace feed	Ali Hayati & Ali Kargari	October 2014
35	Application of membrane distillation for persian gulf water desalination	Mohammad Esmaili Raki & Ali Kargari	July 2014
36	Feasibility of replacing PURE water with Cwin exchangers E-1107 and design recycling system for cooling PURE water with software ASPEN in imam khomeini petrochemical LD unit	Mohammad Askari Seif & Ali Kargari	May 2014
37	Cleaning of RO membrane by direct osmosis method	Lafteh Bouazzar & Ali Kargari	May 2014
38	study of effective parameters and properties on production of nano composite membrane in order to gas separation	Aminolah Haghshenas & Ali Kargari	May 2014
39	Dehumidification of cracked gas by 3A zeolite bed	Mohammad Sadegh Roshanlari & Ali Kargari	May 2014
40	study of adsorption behavior of light olefin paraffin gases on different adsorbents	Fatemeh Rahiminezhad & Ali Kargari	January 2014
41	Influence of ultrasound irradiation on hydrolysis of sucrose catalyzed by invertase	Ali Keramat & Ali Kargari	October 2013
42	Feasibility study of producing industrial nitrogen with membrane	Tahmineh Mahtabipour & Ali Kargari	October 2013
43	Preparation of polymeric membrane for H2/N2 separation	Mohammad Rokhsaran & Ali Kargari	April 2013
44	Investigation of adsorption process for different gases on molecular sieve adsorbents	Sepehr Khazraei & Ali Kargari	February 2013
45	removal of phenol compounds from aqueous solution using revers osmosis system	Fatemeh Khazaali & Ali Kargari	November 2012

Books

#	Title	Author(s)	Publisher country	publication date	version
Portal Records					
1	Emerging Technologies for Sustainable Desalination Handbook Chapter 4 - Membrane properties in membrane distillation	Sahar Zare, Ali Kargari	United States	September 2018	1
2	Emerging Technologies for Sustainable Desalination Handbook Chapter 9 - Nanocomposite membranes	Mohammad Amin Alaei Shahmirzadi, Ali Kargari	United States	September 2018	1
3	Advanced Technologies Chapter 21	Maryam Takht Ravanchi, Ali Kargari	Croatia (Hrvatska)	October 2009	1
4	Plant-derived solvents: Production and purification, Chapter 11 in: Green Sustainable Process for Chemical and Environmental Engineering and Science- Plant-Derived Green Solvents: Properties and Applications	Ariga Gharabeiki, Ali Kargari	United States	November 2020	1
5	Green solvents for municipality water treatment, Chapter 4 in: GREEN SUSTAINABLE PROCESS FOR CHEMICAL AND ENVIRONMENTAL ENGINEERING AND SCIENCE: Green Solvents for Environmental Remediation	Farnoush Sadat Rezaei, Ali Kargari	United States	November 2020	1
6	Prospects of nanocomposite membranes for the recovery of hydrogen and production of syngas Chapter 16 in: NANOCOMPOSITE MEMBRANES FOR WATER AND GAS SEPARATION	Malihe Mehrabian, Ali Kargari	United States	November 2019	1
7	Application of functional single-element and double-element oxide nanoparticles for the development of nanocomposite membranes, Chapter 5 in: NANOCOMPOSITE MEMBRANES FOR WATER AND GAS SEPARATION	Mohammad Amin Alaei Shahmirzadi, Ali Kargari	United States	November 2019	1
8	Prospects of nanocomposite membranes for gas separation by membrane contactors, Chapter 17 in: NANOCOMPOSITE MEMBRANES FOR WATER AND GAS SEPARATION :	Parvin Arehjani, Ali Kargari	United States	November 2019	1
9	Synthetic polymer-based membranes for oxygen enrichment, Chapter 10 in: Synthetic Polymeric Membranes for Advanced Water Treatment, Gas Separation, and Energy Sustainability	Ali Kargari, Mohammad Amin Alaei Shahmirzadi	United States	May 2020	1
10	Water Desalination: Solar-Assisted Membrane Distillation In: Encyclopedia of Energy Engineering and Technology, Second Edition	Ali Kargari, Mohammad Mahdi A. Shirazi	United States	January 2016	2
11	GREENHOUSE GASES - CAPTURING, UTILIZATION AND REDUCTION	Ali Kargari, Maryam Takht Ravanchi	Croatia (Hrvatska)	February 2012	1

12	New advances in polymeric membranes for CO2 separation In: Polymer science: research advances, Practical applications and educational aspects	Abtin Ebadi Amooghini, Hamidreza Sanaeepur, Mona Zamani Pedram, Mohammadreza Omidkhah, Ali Kargari	Spain	August 2016	1
13	Application of membrane separation technology for biodiesel processing In: Membrane Technology for Water and Wastewater Treatment, Energy and Environment	Ali Kargari, Mohammad Mahdi A. Shirazi, Ahmad Fauzi Ismail, Takeshi Matsuura	United Kingdom	August 2016	1
14	Applications of Membrane Separation Technology for Oil and Gas Produced Water Treatment In: Advances in petroleum science and engineering I Refining	Ali Kargari, Mohammad Mahdi A. Shirazi	United States	August 2015	1
15	Application of Membrane Gas Separation Processes in Petroleum Industry In: Advances in petroleum science and engineering I Refining	Ali Kargari, Hamidreza Sanaeepur	United States	August 2015	1

Journal Papers

Portal Records

- Morteza Nikjou, Mansooreh Soleimani, Ali Kargari, Maryam Takht Ravanchi, "Modeling of light olefin-paraffin separation process using supported liquid membrane: with emphasis on separation of ethylene-ethane and propylene-propane", February 2021 Vol. 113, Num. 19, Page 6-17, February 2021,
- Mohammad Mahdi A. Shirazi, Ali Kargari, Dariush Bastani, Mansooreh Soleimani, Leila Fatehi, "Study on Commercial Membranes and Sweeping Gas Membrane Distillation for Concentrating of Glucose Syrup", Journal of Membrane Science and Research, December 2020 Vol. 6, Num. 4, Page 47-57, December 2020,
- Naghmeh Orooji, Mohammad Javad Mohammadi, Afshin Takdastanc, Rozhan Feizid, Ali Kargari, "Investigation of the efficiency of removing turbidity, aluminum, and total organic compounds by using poly-aluminum chloride and chitosan from the water of Karoon River, Iran", DESALINATION AND WATER TREATMENT, October 2020 Vol. 200, Num. 1, Page 82-89, October 2020,
- Amin Dehban, Ali Kargari, Farzin Zokaee Ashtiani, "Preparation and optimization of antifouling PPSU/PES/SiO2 nanocomposite ultrafiltration membranes by VIPS-NIPS technique", JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, August 2020 Vol. 88, Num. 1, Page 292-311, August 2020,
- Ali Kargari, Sheida Rezaeinia, "State-of-the-art modification of polymeric membranes by PEO and PEG for carbon dioxide separation: A review of the current status and future perspectives", JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, May 2020 Vol. 84, Num. 1, Page 1-22, May 2020,
- Amin Dehban, Ali Kargari, Farzin Zokaee Ashtiani, "Fabrication and Characterization of Poly (phenyl sulfone) Ultrafiltration Membrane by VIPS Method", Iranian Journal of Chemistry & Chemical Engineering, May 2020 Vol. 39, Num. 1, Page 189-203, May 2020,
- Edris Tohidian, Farzin Zokaee Ashtiani, Ali Kargari, "Optimization of the condition for the fabrication of a two-layer integrated skin polyetherimide nanofiltration membrane", Journal of Water Process Engineering, April 2020 Vol. 34, Num. 1, Page 1-14, April 2020,
- Mojtaba Karimi, Ali Kargari, Seyed Alibehbahani-Nia, Hamidrezasanaeepur, "Heat recovery and optimizing design of furnaces in the gasoline-kerosene units of Tabriz Oil Refining Company", APPLIED THERMAL ENGINEERING, October 2019 Vol. 161, Num. 1, Page 114136-114136, October 2019,
- Mohammad Mahdi A. Shirazi, Ali Kargari, "Concentrating of Sugar Syrup in Bioethanol Production Using Sweeping Gas Membrane Distillation", MEMBRANES, May 2019 Vol. 9, Num. 5, Page 59-59, May 2019,
- Amin Dehban, Ali Kargari, Farzin Zokaee Ashtiani, "Preparation and characterization of an antifouling poly (phenyl sulfone) ultrafiltration membrane by vapor-induced phase separation technique", SEPARATION AND PURIFICATION TECHNOLOGY, April 2019 Vol. 212, Num. 1, Page 986-1000, April 2019,

- 11 Behnam Ghalami Choobar, Mohammad Amin Alaei Shahmirzadi, Ali Kargari, Massoumehmanouchehri, "Fouling mechanism identification and analysis in microfiltration of laundry wastewater", *Journal of Environmental Chemical Engineering*, April 2019 Vol. 7, Num. 0, Page 103030-103030, April 2019,
- 12 Hamidreza Sanaeepur, Abtin Ebadi Amooghin, Ali Kargari, Mohammadreza Omidkhah, Ahmad Fauzi Ismail, Seeram Ramakrishna, "Interior Modification of Nano-Porous Fillers to Fabricate High-Performance Mixed Matrix Membranes", *Iranian Journal of Chemical Engineering*, March 2019 Vol. 16, Num. 2, Page 70-94, March 2019,
- 13 Hamidreza Sanaeepur, Reyhane Ahmadi, Mehdi Sinaei, Ali Kargari, "Pebax-Modified Cellulose Acetate Membrane for CO₂/N₂ Separation", *Journal of Membrane Science and Research-OPEN*, January 2019 Vol. 5, Num. 1, Page 25-32, January 2019,
- 14 Hamidreza Sanaeepur, Abtin Ebadi Amooghin, Ainallah Khademian, Ali Kargari, Mohammadreza Omidkhah, "Gas Permeation Modeling of Mixed Matrix Membranes Adsorption Isotherms and Permeability Models", *POLYMER COMPOSITES*, December 2018 Vol. 39, Num. 12, Page 4560-4568, December 2018,
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- 16 Maliheh Raji, Hossein Abolghasemi, Jaber Safdari, Ali Kargari, "Response Surface Optimization of Dysprosium Extraction Using an Emulsion Liquid Membrane Integrated with Multi-Walled Carbon Nanotubes", *CHEMICAL ENGINEERING & TECHNOLOGY*, September 2018 Vol. 41, Num. 9, Page 1857-1870, September 2018,
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- 20 Massoumeh Manouchehri, Ali Kargari, "Water recovery from laundry wastewater by the cross flow microfiltration process: A strategy for water recycling in residential buildings", *JOURNAL OF CLEANER PRODUCTION*, December 2017 Vol. 168, Num. 0, Page 227-238, December 2017,
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- 24 Mohammad Mahdi A. Shirazie, Ali Kargari, Seeram Ramakrishna, James Doyle, Murugan Rajendrian, P. Ramesh Babu, "Electrospun Membranes for Desalination and Water/Wastewater Treatment: A Comprehensive Review", *Journal of Membrane Science and Research-OPEN*, May 2017 Vol. 3, Num. 3, Page 209-227, May 2017,
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- 32 Fatemeh Khazaali, Ali Kargari, "Treatment of Phenolic Wastewaters by a Domestic Low-Pressure Reverse Osmosis System", Journal of Membrane Science and Research-OPEN, January 2017 Vol. 3, Num. 1, Page 22-28, January 2017,
- 33 Seyed Ali Alavi, Ali Kargari, [en-name N/A], Mohammad Karimi, "Preparation and characterization of PDMS/zeolite 4A/ PAN mixed matrix thin film composite membrane for CO₂/N₂ and CO₂/CH₄ separations", RESEARCH ON CHEMICAL INTERMEDIATES, January 2017 Vol. 0, Num. 0, Page 0-0, January 2017,
- 34 Khalil Abasian, Ali Kargari, "Modification of membrane formulation for stabilization of emulsion liquid membrane for extraction of phenol from aqueous solutions", Journal of Environmental Chemical Engineering, December 2016 Vol. 4, Num. 0, Page 3926-3933, December 2016,
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- 41 Hamidreza Sanaeepur, Ali Kargari, Bahram Nasernejad, Abtin Ebadi Amooghin, Mohammadreza Omidkhan, "A novel Co₂⁺ exchanged zeolite Y/cellulose acetate mixed matrix membrane for CO₂/N₂ separation", JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, March 2016 Vol. 60, Num. 1, Page 403-413, March 2016,
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Portal Records

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- 167 Maryam Takht Ravanchi, Tahereh Kaghazchi, Ali Kargari, "Sepration of a propylene propane mixture by a facilitated transport membrane ", , January 2008
- 168 Ali Kargari, Tahereh Kaghazchi, Mansooreh Soleimani, "Extraction of gold(III)ions from aqueous solutions using the emulsion liquid membrane technique ", , October 2005
- 169 Ali Kargari, Tahereh Kaghazchi, Golnaz Kamrani Mashhadi, [en-name N/A], "Pertraction of phenol from aqueous wastes using emulsion liquid membranes system ", , October 2005
- 170 Ali Kargari, Tahereh Kaghazchi, Mansooreh Soleimani, "Emulsion liquid membrane protraction of gold ions from aqueous solutions ", , November 2004
- 171 Ali Kargari, Tahereh Kaghazchi, Mansooreh Soleimani, "Mass transfer investigation of liquid membrane transport of gold (III) by methyl iso-butyl ketone mobile carrier ", Chisa 2004, August 2004
- 172 Ali Kargari, Tahereh Kaghazchi, Mansooreh Soleimani, "Extraction of gold III Lons from aqueous solution using surfactant liquid membrane ", , October 2003
- 173 Tahereh Kaghazchi, Ali Kargari, Mansooreh Soleimani, "Hydrometallurgical Extraction of gold ions from aqueous Solution by emulsion liquid membrane ", , October 2003
- 174 Tahereh Kaghazchi, Ali Kargari, Mansooreh Soleimani, "Application of emulsion liquid memberane in the extraction of valuable metals from aqueous solution ", , September 2003
- 175 Tahereh Kaghazchi, Ali Kargari, Mansooreh Soleimani, "Role of emulsifier in the extraction of gold III ions from aqueow solutions using emlsion liquid memben technique ", , September 2003
- 176 Tahereh Kaghazchi, Ali Kargari, Mansooreh Soleimani, "Recovery of Magnesium salts from Bitterns ", , December 2002
- 177 Ali Kargari, Tahereh Kaghazchi, "Application of Emulsion Liquid Membrane for treatment of phenolic wastewaters ", 7th Iranian Congress of Chemical Engineering, October 2002

- 178 Ali Kargari, Tahereh Kaghazchi, "Heat transfer study of an Agitated Thin-film Evaporator ", The 7th Iranian Congress of Chemical Engineering, Tehran University, October 2002
- 179 Ali Kargari, Esmail Jamshidi Meidandar, "Isothermal Laminar Flow of Generalized Bingham Plastic Fluids in Concentric Annuluses ", 7th Iranian Congress of Chemical Engineering, October 2002
- 180 Tahereh Kaghazchi, Ali Kargari, "Extraction of Gold (III) Ions from Aqueous Solutions by Emulsion Liquid Membrane Technique ", 1st International Symposium on Thermal Science and Engineering (TSE 2002), October 2002
- 181 Morteza Sohrabi, Ali Kargari, "Modeling and Application of UF-Stirred Cell Reactors in Hydrolysis of Saccharides ", AICHEMASIA International Congress of Chemical Technology, July 1998
- 182 Ali Kargari, Morteza Sohrabi, "Study of behavior and Modeling of a Batch Membrane Reactor ", The 2nd Iranian Congress of Chemical Eng, March 1997
- 183 Ali Kargari, Morteza Sohrabi, "Study of the Sucrose Hydrolysis Kinetic by Invertase Enzyme ", The 2nd Iranian Congress of Chemical Engineering, March 1997

Taught Courses

#	Course title	Description	Headlines	Date
1	(Special Topics (Membrane Fabrication and Characterization Methods	In this course, various methods for fabrication of membranes with emphasis on polymeric membranes are analysed and discussed. The effect of pertinent parameters on each method and the methods for controlling the morphology of the membranes are discussed		Fall 2021
2	LESS-CONVENTIONAL SEPARATION TECHNIQUES	Novel separation methods in chemical engineering including the systems identification and calculations		Fall 2021
3	Process Instrumentation & Measurement	The main purpose of this course is acquainting the students with the principles of measurement of process quantities and also the proper devices for measuring the quantities, errors, shortcomings of each device. Moreover, acquainting the students with		Fall 2021
4	Special Topics (Utility Systems)	An introduction to utility systems		Spring 2021
5	Separation Processes I	This course covers the fundamental concepts and calculations of simultaneous heat and mass transfer in some selected physical separation processes based on equilibrium and rate analysis. Topics covered in this course are Evaporation, Distillation, Liquid		Spring 2021
6	Equipment Design for Petrochemical Processes	Applied design of equipments in petrochemical industry		Spring 2021
7	PROCESS EQUIPMENT DESIGN	Design of process equipments for chemical plants		Spring 2021
8	MEMBRANE PROCESSES	Advanced topics in membrane separation processes especially oriented for the criteria in selection of an appropriate membrane separation method for a specific application		Fall 2020

9	LESS-CONVENTIONAL SEPARATION TECHNIQUES	Novel separation methods in chemical engineering including the systems identification and calculations		Fall 2020
10	(Special Topics (Membrane Fabrication and Characterization Methods	In this course, various methods for fabrication of membranes with emphasis on polymeric membranes are analysed and discussed. The effect of pertinent parameters on each method and the methods for controlling the morphology of the membranes are discussed		Fall 2020
11	Process Instrumentation & Measurement	The main purpose of this course is acquainting the students with the principles of measurement of process quantities and also the proper devices for measuring the quantities, errors, shortcomings of each device. Moreover, acquainting the students with		Fall 2020

Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Fabrication of composite membranes for separation of nitrogen from natural gas	94261			2017/11/1	2036/09/1
2	Fabrication of multi-layer ceramic membranes with micron-size pores	92604			2017/06/1	2036/09/1
3	Synthesis of facilitated transport (Co(II)-S-EPDM) polymeric membrane for CO ₂ /N ₂ separation	84514			2014/12/1	2034/05/1
4	Photo-catalytic membrane system containing TiO ₂ for phenol removal from aqueous solutions	78952			2013/03/1	2032/12/1