

۱- مشخصات فردی :		
نام و نام خانوادگی: پریسا دارائی	نام پدر: حشمت	کد ملی: ۱۳۸۰۳۸۵۱۳۱
تاریخ تولد: ۱۳۶۲/۴/۲۳	محل تولد: تبریز	شماره شناسنامه: ۱۵۰۲
نشانی محل کار: کرمانشاه، بزرگراه امام خمینی، دانشگاه صنعتی کرمانشاه		
تلفن تماس: ۰۹۱۴۴۹۲۱۷۸۱		

۲- سوابق تحصیلی :							
مقطع تحصیلی	رشته تحصیلی	گرایش	مدت تحصیل		نام واحد آموزشی	شهر محل تحصیل	معدل
			از	تا			
کارشناسی	شیمی	کاربردی	۱۳۸۰	۱۳۸۴	دانشگاه تبریز	تبریز	۱۶/۸۳
کارشناسی ارشد	شیمی	کاربردی	۱۳۸۴	۱۳۸۶	دانشگاه رازی	کرمانشاه	۱۷/۷۴
دکترای تخصصی	شیمی	کاربردی	۱۳۸۷	۱۳۹۲	دانشگاه رازی	کرمانشاه	۱۹/۷۳

۳- سوابق تدریس :				
نام درس یا دوره	از	تا	دانشگاه یا آموزشگاه	محل تدریس
تدریس شیمی عمومی و کلیه آزمایشگاه ها	۱۳۸۷	۱۳۹۰	دانشگاه رازی کرمانشاه	دانشکده فنی مهندسی
مدرس دوره های مقاله نویسی	۱۳۹۰	۱۳۹۰	مرکز آموزش غرب	شعبه کرمانشاه
تدریس شیمی عمومی و آزمایشگاه شیمی آلی	۱۳۹۲	۱۳۹۳	دانشگاه صنعتی سهند	دانشکده مهندسی شیمی
تدریس دروس شیمی رشته مهندسی شیمی	۱۳۹۲	هم اکنون	دانشگاه صنعتی کرمانشاه	دانشکده انرژی

۴- مهارت های زبان خارجی و کامپیوتر:			
مهارت	مدرک دریافتی	میزان مهارت	
زبان انگلیسی	MCHE	خیلی خوب	
کلیه مهارت های مجموعه ICDL	-	خیلی خوب	
نرم افزارهای آنالیز تصویر (Olysia m3, Image J)	-	خیلی خوب	

۵- افتخارات:

۱- رتبه اول مقطع کارشناسی ارشد ورودی خود در رشته شیمی کاربردی

۲- رتبه اول دوره دکتری ورودی خود در رشته شیمی کاربردی

۳- رتبه سوم دانشگاه رازی در بین ۹۴ نفر در نهمین جشنواره نانو ایران

۵- سوابق پژوهشی:

کتاب (فصل دوم):

S. S. Madaeni and **P. Daraei** (2011), Metallic Membranes by Wire Arc Spraying: Preparation, Characterization and Applications in A. Basile and F. Gallucci (Editors), Membranes for Membrane Reactors, **John Wiley & sons**, West Sussex, United Kingdom

ثبت اختراع:

S. S. Madaeni, M. E. Aalami-Aleagha, and **P. Daraei** (2008), Preparation of metallic membranes using wire arc spraying, Iran Patent, 50877

بایان نامه ها:

BS- Determination of mercury in Aras River using SPE, Supervisor: Dr. Djozan

MS- Preparation and characterization of metallic membrane using wire arc spraying, Supervisor: Prof. Madaeni

PhD- Preparation and modification of nanofiltration membrane using nanoparticles and surface graft polymerization, Supervisor: Prof. Madaeni

مقالات ISI (دوره کارشناسی ارشد):

1- Madaeni, S. S. and **Daraei, P.** (2008), "Preparation and characterization of metallic membranes", Iranian Chemical Engineering Journal, 32, 22-29

- 2- Madaeni, S. S., Aalami-Aleagha, M. E. and **Daraei, P.** (2008), "Preparation and characterization of metallic membrane using wire arc spraying", *Journal of Membrane Science*, 320, 541-548
- 3- Aalami-Aleagha, M. E., Madaeni, S. S., and **Daraei, P.** (2009), "A new application of thermal spray in preparation of metallic membrane for concentration of glucose solution", *Journal of Thermal Spray Technology*, 18(4), 519-524
- 4- Madaeni, S. S., Aalami-Aleagha, M. E., Taei, B., Amirinejad, M. and **Daraei, P.** (2010), "Removal of hydrogen sulfide from gas stream using a novel metal membrane prepared by wire arc spraying", *International Journal of Chemical Reactor Engineering*, 8, Article 70

[مقالات ISI \(نورده دکتري\):](#)

- 5- Ghaemi, N., Madaeni, S. S., Alizadeh, A., Rajabi, H. and **Daraei, P.** (2011), "Preparation, characterization and performance of polyethersulfone/organically modified montmorillonite nanocomposite membranes in removal of pesticides", *Journal of Membrane Science*, 382, 135-147
- 6- Ghaemi, N., Madaeni, S. S., Alizadeh, A., **Daraei, P.**, Zinatizadeh, A. A., and Rahimpour, F. (2012), "Separation of nitrophenols using cellulose acetate nanofiltration membrane: Influence of ionic and non-ionic additives", *Separation and Purification Technology*, 85, 147-156
- 7- Ghaemi, N., Madaeni, S. S., Alizadeh, A., **Daraei, P.**, Vatanpour, V. and Falsafi, M. (2012), "Fabrication of cellulose acetate/sodium dodecyl sulphate nanofiltration membrane: Characterization and performance in rejection of pesticides", *Desalination*, 290, 99-106
- 8- N. Ghaemi, S.S. Madaeni, A. Alizadeh, H. Rajabi, **P. Daraei**, M. Falsafi (2012), "Effect of fatty acids on the structure and performance of cellulose acetate NF membranes in retention of nitroaromatic pesticides", *Desalination*, 301, 26-41
- 9- N. Ghaemi, S.S. Madaeni, A. Alizadeh, **P. Daraei**, M. Mohammadi Sarab Badieh, M. Falsafi, V. Vatanpour (2012), "Fabrication and treatment of polysulfone nanofiltration membrane using organic acids: Morphology, characterization and performance in removal of xenobiotics", *Separation and Purification Technology*, 96, 214-228
- 10- Madaeni, S. S., Ahmadi Monfared, H., Vatanpour, V., Arabi Shamsabadi, A., Salehi, E., **Daraei, P.**, Laki, S. and Khatami, S. M. (2012), "Coke removal from petrochemical oily wastewater using γ -Al₂O₃ based ceramic microfiltration membrane", *Desalination*, 293, 87-93
- 11- **Daraei, P.**, Madaeni, S. S., Ghaemi, N., Salehi, E., Khadivi, M. A., Moradian, R. and Astinchap, B. (2012), "Novel polyethersulfone nanocomposite membrane prepared by PANI/Fe₃O₄ nanoparticles with enhanced performance for Cu(II) removal from water", *Journal of Membrane Science*, 415-416, 250-259
- 12- **Daraei, P.**, Madaeni, S. S., Ghaemi, N., Ahmadi Monfared, H. and Khadivi, M. A. (2013), "Fabrication of PES nanofiltration membrane by simultaneous use of multi-walled carbon nanotube and surface graft polymerization method: Comparison of MWCNT and PAA modified MWCNT", *Separation and Purification Technology*, 104, 32-44
- 13- **Daraei, P.**, Madaeni, S. S., Ghaemi, N., Kadivi, M. A., Rajabi, L., Derakhshan, A. A., Seyepour, F., (2013), "PAA grafting onto new acrylate-alumoxane/PES mixed matrix nano-enhanced membrane: Preparation, characterization and performance in dye removal", *Chemical Engineering Journal*, 221, 111-123
- 14- **Daraei, P.**, Madaeni, S. S., Salehi, E., Ghaemi, N., Sadeghi Ghari, H., Kadivi, M. A., Rostami, E., (2013), "Novel thin film composite membrane fabricated by mixed matrix nanoclay/chitosan on PVDF microfiltration support: preparation, characterization and performance in dye removal", *Journal of Membrane Science*, 436, 97-108
- 15- **Daraei, P.**, Madaeni, S. S., Ghaemi, N., Khadivi, M. A., Moradian, R. and Astinchap, B. (2013), Fouling resistant mixed matrix polyethersulfone membranes blended with magnetic nanoparticles: Study of magnetic field induced casting, *Separation and Purification Technology*, 109, 11-121
- 16- **Daraei, P.**, Madaeni, S. S., Ghaemi, N., Khadivi, M. A., Moradian, R. and Astinchap, B. (2013), Enhancing antifouling capability of PES membrane via mixing with various types of polymer modified multi-walled carbon nanotube, *Journal of Membrane Science*, 444, 184-191

[مقالات ISI \(پس از دوره دکتري\):](#)

- 17- Rajabi H., Ghaemi N., Madaeni S.S., **Daraei P.**, Khadivi M. A., Falsafi M., (2014), Nanoclay embedded mixed matrix PVDF nanocomposite membrane: Preparation, characterization and biofouling resistance, *Applied Surface Science*, 313, 207-214
- 18- Ghaemi N., Madaeni S.S., **Daraei P.**, Rajabi H., Zinadini S., Alizadeh A., Heydari R., Beygzadeh M., Ghouzivad S., (2015), Polyethersulfone membrane enhanced with iron oxide nanoparticles for copper removal from water: application of new functionalized Fe₃O₄ nanoparticles, *Chemical Engineering Journal*, 263, 101-112
- 19- N. Ghaemi, S.S. Madaeni, **P. Daraei**, Hamid Rajabi, Tahereh Shojaeimehr, Farshad Rahimpour, Bitva Shirvani, (2015) PES mixed matrix nanofiltration membrane embedded with polymer wrapped MWCNT: Fabrication and performance optimization in dye removal by RSM, *Journal of Hazardous Materials*, 298, 111-121
- 20- H. Rajabi, N. Ghaemi, S. S. Madaeni, **P. Daraei**, Bandar Astinchap, Sirus Zinadini, Sayed Hossein Razavizadeh, (2015), Nano-ZnO embedded mixed matrix polyethersulfone (PES) membrane: Influence of nanofiller shape on characterization and fouling resistance, *Applied Surface Science*, 349, 66-77
- 21- **P. Daraei**, N. Ghaemi, H. Sadeghi, M. Norouzi, (2016), Mitigation of fouling of polyethersulfone membranes using an aqueous suspension of cellulose nanocrystals as a nonsolvent, *Cellulose*, 23, 2025-2037

- 22- N. Ghaemi, **P. Daraei**, (2016), Enhancement in copper ion removal by PPy@Al₂O₃ polymeric nanocomposite membrane, Journal of Industrial and Engineering Chemistry, In Press
- 23- **P. Daraei**, N. Ghaemi, H. Sadeghi Ghari, (2016) An ultra-antifouling polyethersulfone membrane embedded with cellulose nanocrystals for improved dye and salt removal from water, Chemical Engineering Research and Design, Submitted
- 24- **P. Daraei**, N. Ghaemi, H. Sadeghi, (2017), An ultra-antifouling polyethersulfone membrane embedded with cellulose nanocrystals for improved dye and salt removal from water, Cellulose, 24 (2), 915–929.
- 25- Ghaemi, N., **Daraei, P.**, & Palani, S. (2018). Surface Modification of Polysulfone Membranes Using Poly (Acrylic Acid)-Decorated Alumina Nanoparticles. Chemical Engineering & Technology, 41(2), 261-269.
- 26- Ghaemi, N., **Daraei, P.**, & Akhlaghi, F. S. (2018). Polyethersulfone nanofiltration membrane embedded by chitosan nanoparticles: Fabrication, characterization and performance in nitrate removal from water. Carbohydrate polymers, 191, 142-151.
- 27- Zereshki, S., **Daraei, P.**, & Shokri, A. (2018). Application of edible paraffin oil for cationic dye removal from water using emulsion liquid membrane. Journal of hazardous materials, 356, 1-8.
- ۲۸- قائمی. نگین، دارائی. پریرسا، پالانی. شیوا. (۱۳۹۶). تاثیر نانو ذرات آلومینای اصلاح شده بر عملکرد غشاء پلیمری در کاهش سختی آب. نشریه شیمی و مهندسی شیمی ایران، (۰)، -.
- ۲۹- دارائی. پریرسا، قائمی. نگین، امامی. نفیسه. (۱۳۹۷). تهیه نانوکامپوزیت نقره/کیتوسان جهت رنگ‌زدایی از آب. نشریه شیمی و مهندسی شیمی ایران، (۰)، -.
- 30- **Parisa Daraei**, Negin Ghaemi, (2019), Synergistic effect of Cloisite 15A and 30B nanoparticles on the characteristics of nanocomposite polyethersulfone membrane, Applied Clay Science, 172, 96-105.
- 31- Ehsan Salehi, Farhad Heidary, **Parisa Daraei**, Mohammad Keyhani, Milad Behjomanesh, Carbon nanostructures for advanced nanocomposite mixed matrix membranes: a comprehensive overview, Reviews in Chemical Engineering, Accepted, In press
- 32- **Parisa Daraei**, Sina Zereshki, Amin Shokri, (2019), Application of nontoxic green emulsion liquid membrane prepared by sunflower oil for water decolorization: process optimization by response surface methodology, In press
- 33- Amin shokri, **Parisa Daraei**, Sina Zereshki, A green emulsion liquid membrane based on waste cooking oil: RSM optimization of cationic dye separation from water, Submitted
- 34- **Parisa Daraei**, Amin Shokri, A green method for Vancomycin elimination from water by liquid membrane, Submitted

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- 35- Madaeni, S. S. and **Daraei, P.** “Effect of gun distance on preparation of stainless steel metallic membrane using wire arc spraying”, International Congress on Membranes and Membrane Processes (ICOM 2008), Hawaii, USA, 484, 2008
- 36- Aalami-Aleagha, M. E., **Daraei, P.** and Madaeni, S. S., “Application of wire arc spraying for preparation of metallic membrane”, 9th National Seminar on Surface Engineering and Thermal Processing, Tehran, Iran, 2008
- 37- Madaeni, S. S. and **Daraei, P.**, “Separation of blue indigo particles from water using metallic membrane prepared by wire arc spraying”, 1st National Congress on Oil, Gas and Petrochemical, Gachsaran, Iran, 2008
- 38- Madaeni, S. S. and **Daraei, P.**, “Effect of atomizer air pressure on morphology and performance of metallic membrane prepared by wire arc spraying”, 1st Separation Science and Technology, Shahid Bahonar University, Kerman, Iran, 2009
- 39- A. Shirazi, M. Mahdi; Hosain Attar; M. Javad A. Shirazi & Parisa Daraei, Formation of nanoparticles using supercritical fluids technology, International Chemical Engineering Conference, Islamic Azad University, Eslamshahr, Iran, 2009
- 40- Ghaemi, N., Madaeni, S. S., Alizadeh, A., Rajabi, H., and **Daraei, P.**, “Performance of PES/OMMT nanocomposite membranes in the removal of nitroaromatic pesticides”, 7th International Chemical Engineering Congress & Exhibition, Kish, Iran, 21-24 November, 2011
- 41- Ghaemi, N., Madaeni, S. S., Alizadeh, A., **Daraei, P.**, Rahimpour, F. and Falsafi, M., “Addition of anionic surfactant to cellulose acetate nanofiltration membrane: Preparation, morphology and performance in the removal of pesticides”, 7th International Chemical Engineering Congress & Exhibition, Kish, Iran, 21-24 November, 2011
- 42- Ghaemi, N., Madaeni, S. S., Alizadeh, A., **Daraei, P.** and Mohammadi, M., “Polysulfone nanofiltration membranes for separation of pesticides from aqueous solutions: Fabrication and treatment using ascorbic acid”, 4th National Conference on Safety Engineering and HSE Management, Tehran, Iran, 2012
- 43- **Daraei P.**, Madaeni, S. S. and Ghaemi, N., A Method for safe application of nanoparticles in adsorptive removal of heavy metals from effluents, Iran Nanosafety Congress, Tehran, Iran, 19-20 February 2014
- 44- Ghaemi, N., **Daraei, P.**, Astinchap, B., Influence of Nano-ZnO Shape on Antifouling Properties of Polyethersulfone Nanocomposite Membrane, Tehran, Iran, Iran membrane 2015, May 2015

- 45- Ghaemi, N., **Daraei, P.**, Rajabi, H., Dye Removal by PES Mixed Matrix Membrane Embedded with Polymer Wrapped MWCNT, Tehran, Iran, Iran membrane 2015, May 2015
- 46- Ghaemi, N., Rajabi, H., **Daraei, P.**, Effect of different modified Fe_3O_4 nanoparticles on adsorptive removal of copper from water using nano-enhanced membranes, Asian Nano Forum conference, Kish Island, Iran, 8-11 March 2015
- 47- **P. Daraei**, N. Ghaemi, Nanoparticle in nonsolvent for surface modification of PES membrane, 3rd National Conference of Iran New Technologies in Chemistry, Petrochemistry and nano, Tehran, Iran, 30-31 June 2016
- 48- **P. Daraei**, N. Ghaemi, Water Decolorization by polymeric membrane incorporated with nanocrystalline cellulose, 3rd National Conference of Iran New Technologies in Chemistry, Petrochemistry and nano, Tehran, Iran, 30-31 June 2016
- 49- N. Ghaemi, **P. Daraei**, S. Palani, Improvement of nanofiltration polymeric membrane antifouling property using modified alumina nanoparticles, 3rd National Conference of Iran New Technologies in Chemistry, Petrochemistry and nano, Tehran, Iran, 30-31 June 2016
- 50- N. Ghaemi, **P. Daraei**, Removal of copper from water using PES/metal oxide nanocomposite membrane, 3rd National Conference of Iran New Technologies in Chemistry, Petrochemistry and nano, Tehran, Iran, 30-31 June 2016

- ۵۱- نگین قائمی، پریسا دارائی، احسان امیری، اثر حضور پلی آکرلیک اسید در لایه نگهدارنده غشا لایه نازک بر عملکرد اسمز مستقیم غشا در نمک زدایی از آب، شانزدهمین کنگره ملی مهندسی شیمی ایران، دانشگاه امیرکبیر، تهران، بهمن ۱۳۹۷
- ۵۲- الهام رستمی، پریسا دارائی، بررسی قابلیت جذب رنگ توسط نانوذرات مگنتیت اصلاح شده با بیوپلیمر آلژینات، شانزدهمین کنگره ملی مهندسی شیمی ایران، دانشگاه امیرکبیر، تهران، بهمن ۱۳۹۷

پروژه های صنعتی:

- 1-Coke removal from petrochemical oily wastewater of Maroon petrochemical plant, Maroon petrochemical plant, 2011
- 2-Investigation of suspended particles in Kermanshah CGS inlet gas stream, Kermanshah Gas Co. 2013