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## رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	بررسی اثر فاصله لایه های اکسید گرافن لایه نشانی شده روی پلی اتر سولفون در فرآیندهای جداسازی غشایی	سولماز ولی زاده و محمد کریمی	اسفند 1399
2	تاثیر ریز ساختار الکترولیت ژل مانند بر پایه PE0/PVDF-HFP حاوی نانو ذرات گرافنی بر بازدهی الکتريکی سلول خورشیدی رزانه حساس	پدرام منافی و محمد کریمی	شهریور 1399
3	مطالعه تئوری و تجربی انتقال آب در لایه هیبریدی نانولیفی آبگریز-آبدوست	گلچهر امینی و محمد کریمی	فروردین 1399
4	ارتباط بین خواص مکانیکی - دینامیکی و نفوذ کوچک مولکول ها در فیلم استات سلولز در دمای کمتر از Tg	حدیثه رحمانی سراجی و محمد کریمی	مهر 1397
5	بررسی تاثیر میکرو بلورهای سلولز بر خاصیت آب- تراوایی غشای نانو فیلتراسیون	فاطمه لسان و محمد کریمی	خرداد 1397
6	اثر نانو ذرات غیر متقارن بر ریز ساختار و بلورینگی پلی لاکتیک اسید در میدان های جریان	امیر رستمی و محمد کریمی	مهر 1395
7	ساخت و مطالعه غشاء نانو کامپوزیت پلیمری با استفاده از نانو سیلیکای عامل دار شده جهت تصفیه فلزات سنگین	احمد رضوانی بروجنی و محمد کریمی	مهر 1394
8	تهیه غشای قالب مولکولی نانو ساختار و بهینه سازی فرایند تولید به منظور جداسازی بیومولکول ها	محمد مهدی معین و محمد کریمی	اسفند 1393
9	بررسی حضور نانو گرافن بر روی آرایش ملکولی و بلورینگی نانو الیاف تولید شده از پلی کاپرولاکتن با استفاده از روش الکترو ریسی	صغری رضوانی و محمد کریمی	آبان 1393

پایان نامه های کارشناسی ارشد

#	عنوان پایان نامه	توسط	تاریخ دفاع
1	تولید و ارزیابی عملکرد غشای الکتروریسی هیبرید آبدوست/آبگریز در فرایند تقطیر غشایی	احسان یوسفی و محمد کریمی	مهر 1399
2	بررسی تاثیر خصوصیات پشتیبان بی بافت بر عملکرد غشای اسمز مستقیم	فرزاد مشایخی و محمد کریمی	تیر 1399
3	بررسی عملکرد غشا دولایه متقابل PTFE جهت کاربرد در تقطیر غشایی تماس مستقیم محلول های نمکی	ساره مویدفرد و محمد کریمی	بهمن 1398
4	بررسی اثر حضور دترجنت ها در تصفیه پساب سنتزی حاوی رنگزای آزو با استفاده از راکتور غشایی ناپیوسته ترتیبی .	سیده مریم ساداتی و محمد کریمی	بهمن 1398
5	بازیابی آب از پساب نساجی با استفاده از روش بیوراکتور غشایی	هدیه ابراهیمی و محمد کریمی	مهر 1398
6	تاثیر فاز میانی رسن های پلی استر و نایلون 6,6 بر خصوصیات حرارتی رسن هیبریدی تایر	زهرا مهدوی پور و محمد کریمی	اسفند 1397
7	ارزیابی عملکرد بیوراکتور غشایی (MBR) با بکارگیری غشای نانو الیاف الکتروریسی شده برای تصفیه فاضلاب حاوی رنگزا	ندا عادل اردبیلی و محمد کریمی	بهمن 1397
8	عنوان فارسی: تهیه غشای پلی اتر سولفون آبدوست/آبگریز میکرومتخلخل برای کاربرد در تقطیر غشایی	محمد رضا مشتاق و محمد کریمی	دی 1397
9	بازیابی آب از پساب شبیه سازی شده نساجی با استفاده از سامانه هیبرید انعقاد الکتریکی/فتتون/نانوفاش	کامران جلالی و محمد کریمی	مهر 1397
10	تاثیر بخار حلال بر روی خصوصیات مکانیکی لایه الکتروریسی شده پلی استایرن تقویت شده با نانو لوله های کربن به منظور استفاده در فرایند تقطیر غشایی	دلارام تولیه و محمد کریمی	مهر 1397
11	بازیابی آب از پساب نساجی شبیه سازی شده حاوی رزانه واکنشی و سطح فعال با استفاده از فرایند ترکیبی بیولوژی- نانوفاش	علیرضا خسروی و محمد کریمی	مهر 1397
12	سنتز لایه نازک پلی آمیدی بوسیله پلیمریزاسیون بین سطحی بر پایه پلیمرهای پر شاخه به منظور تصفیه پساب رنگی	مطهره علی اکبرنظری و محمد کریمی	بهمن 1396
13	بررسی خواص مکانیکی؛ حرارتی و الکتریکی فوم PLA تولید شده با استفاده از گاز CO2 با افزودن نانو ذره گرافن	نگار بیبا و محمد کریمی	بهمن 1396
14	ساخت غشا آمیزه ای پلی اترسولفون (PES) و پلی اترسولفون سولفون شده (SPES) با درصد های مختلف سولفوناسیون جهت استفاده در جداسازی مخلوط آبی-روغنی	توحید توانگر و محمد کریمی	بهمن 1396
15	بررسی اثر افزودن نانو ذره گرافن بر روی رفتار بلورینگی فوم PLA تولید شده با استفاده از گاز CO2	نگین شریفی و محمد کریمی	بهمن 1396
16	تهیه پارچه ضد آب ، هواگذر با استفاده از غشاء پلی یورتان و لایه هیدروژل	مهداد اسدالهی و محمد کریمی	مهر 1396
17	بررسی برهم کنش رزانه با لایه فعال غشای اسمز مستقیم در فرایند تصفیه مستقیم پساب رنگزای	فهامه جزینی و محمد کریمی	مهر 1396
18	بررسی عملکرد غشا چند لایه الکتروریسی PVDF/PS/PVDF در فرایند تقطیر غشایی	معصومه شریفی تشنیزی و محمد کریمی	مهر 1396

19	بررسی رفتار فازی استات سلولز اصلاح شده بوسیله ی پیوند زنی با پلیمر درخت‌سان	بهروز جوانمردی و محمد کریمی	تیر 1396
20	بررسی اثر فشار بخار حلال بر مورفولوژی غشای نانوکامپوزیتی PES/SiO <sub>2</sub> در فرایند قالبگیری خشک-تر	حدیث ایرین و محمد کریمی	تیر 1396
21	مطالعه تاثیر آرایش نانو گرافن ناشی از میدان جریان و تاثیر آن بر روی بلورینگی نانو کامپوزیت پلی وینیلیدین فلوراید/ نانو گرافن	فاطمه اقاچری و محمد کریمی	تیر 1396
22	بررسی تغییرات دمای تبدیل شیشه ای الیاف پلی استر ناشی از وجود رنگزای دیسپرس در بستر پلیمری	فریبا فروزانفر و محمد کریمی	بهمن 1395
23	اصلاح سطحی نانوذرات SiO <sub>2</sub> به منظور بهبود خاصیت آب دوستی غشا PES-SiO <sub>2</sub> در فرایند جداسازی آب و روغن	صبا خدادوستی و محمد کریمی	بهمن 1395
24	ساخت و ارزیابی غشا پلی پروپیلنی متخلخل با روش جدایی فاز با القای گرمایی	محمدعلی قنوتیان و محمد کریمی	بهمن 1395
25	ساخت دستگاه تقطیر غشایی و بررسی اثر پارامترهای موثر بر عملکرد غشاء در فرآیند شیرین سازی محلول نمکی	سیدبرهان آرمند و محمد کریمی	بهمن 1395
26	افزایش آبگریزی غشای الکترورسی شده PVDF در فرایند تقطیر غشایی	ندا محمودی گهرویی و محمد کریمی	مهر 1395
27	الکترورسی و بررسی عملکرد نانوکامپوزیت ان- ایزوپروپیل اکریل آمید/ اکسیدگرافن در چرخه تورم و واتورم آب	مزگان خانعلی و محمد کریمی	مهر 1395
28	بررسی عملکرد غشای تری استات سلولز پر شده با اکسید گرافن بمنظور حذف سطح فعال از پساب در فرایند اسمز مستقیم	مهری رضوانی نژاد و محمد کریمی	مهر 1395
29	تاثیر خصوصیات لایه نانوکامپوزیت PVDF/TiO <sub>2</sub> الکترورسی شده بر عملکرد تقطیر غشایی آن	عادلہ ابراهیمی و محمد کریمی	مهر 1395
30	بهبود خاصیت سدگری سیلیکون با استفاده از گرافن اکساید	سارا غلامعلی و محمد کریمی	تیر 1395
31	سنتز نانو غشای تراواگزیب پلی ( 2 - اکریل آمید - 2 - متیل - 1- پروپان سولفونیک اسید ) / گرافن و بررسی خصوصیات آن	زرین ناز زارعی و محمد کریمی	تیر 1395
32	تهیه ی نانو الیاف توخالی با ایده گرفتن از طبیعت و بررسی رفتار رئولوژیکی و خواص حرارتی آن‌ها	مهدی وحدتی و محمد کریمی	دی 1394
33	بهبود عملکرد غشای نانو لیفی اسمز مستقیم با استفاده از نانو ذرات مغناطیسی Fe <sub>2</sub> O <sub>3</sub> عامل دار شده در محلول کشنده	سیدمحسن کلانتریان و محمد کریمی	بهمن 1393
34	ساخت و بررسی نانوالیاف کربن الکترورسی برای کاربرد در پیل سوختی غشا مبادله پروتون	هانیه پیری و محمد کریمی	آبان 1393
35	بررسی خاصیت حافظه شکل نانو کامپوزیت پلی یورتان / اکسید گرافن	سمانه قربانیان و محمد کریمی	مهر 1393
36	تهیه نانو کامپوزیت PVA/Nanoclay و ارزیابی قابلیت کنترل رهاپش دارو در آن	مینا قایدی و محمد کریمی	مهر 1393
37	تاثیر آهنگ خروج حلال بر تخلخل نانو الیاف در فرآیند الکترورسی	حمید فتاحی جویباری و محمد کریمی	مهر 1393
38	تولید و بررسی نانوالیاف متخلخل نایلون به منظور بهبود عایق حرارتی پوشاک	سوده اسدی کنی و محمد کریمی	مهر 1393
39	ساخت و اصلاح سطحی غشای پلیمری PES با استفاده از نانو ذرات به منظور بهبود جداسازی آب و روغن	محمد بشرویه قندشتنی و محمد کریمی	مهر 1393
40	بکارگیری نانو صفحات اکسید گرافن برای تصفیه مولکول های رنگ در فرآیند اسمز مستقیم بر روی غشای پلی اتر سولفون سولفون شده	امین همتی و محمد کریمی	شهریور 1393

41	رسانا نمودن نخ پنبه ای با استفاده از نانو ذرات فلزی مس و نیکل بروش رسوب دهی	سیدمحمدحسین شریف و بهمن محمد کریمی	1392
42	بررسی رفتار فازی آمیزه پلی متیل متا کریلات / پلی اتیلن اکساید در فرآیند الکتروریسی	زینب السادات حسینی امره یی و محمد کریمی	آذر 1392
43	آب زدایی از گاز طبیعی توسط غشای پلیمری آب دوست	سیدعلی علوی و محمد کریمی	آبان 1392
44	کاهش دمای انتقال شیشه ای پلی استر در فرایند رنگرزی با ماده رنگزای دیسپرس : بررسی مکانیزم نفوذ	فریبا تقی پورجاوی و محمد کریمی	شهریور 1392
45	تشکیل ریز نانوالیاف در ساختار نانوالیاف الکتروریسی شده نایلون 6 به منظور بهبود عملکرد تصفیه هوای کابین خودرو	حدیثه رحمانی سراجی و محمد کریمی	خرداد 1392
46	ساخت و بررسی غشای پلیمری PES برای جداسازی خوراک آب و روغن	مانده اصغریان و محمد کریمی	آبان 1391
47	ساخت غشای تخت متخلخل با استفاده از پلی اکریلونیتریل	سمیه لاریجی و محمد کریمی	آبان 1391
48	تاثیر کیفیت حلال بر مورفولوژی نانو الیاف الکتروریسی شده ی آلیاژ امتزاج پذیر PMMA/PEO	منصوره حاتمی مجومرد و محمد کریمی	مهر 1391
49	اندازه گیری ضریب نفوذ ذاتی در محلول های پلیمری	فاطمه اسدی و محمد کریمی	مهر 1391
50	بررسی عوامل موثر بر ساختار غشای پلی اترایمید به منظور تهیه هوای غنی شده از اکسیژن	راحیل صافی اصفهانی و محمد کریمی	آبان 1390
51	مطالعه و اندازه گیری تراوش آب در غشای لایه نازک تری استات در فرایند اسمز پیش رو	آفاق مدحی و محمد کریمی	آبان 1390
52	مطالعه نظری و تجربی تاثیر نانولوله های کربنی بر روی ریز ساختار آلیاژهای سه تایی با تاکید بر مورفولوژی هسته-پوسته	امیر رستمی و محمد کریمی	آبان 1390
53	پیش بینی رفتار فازی سیستم های چهار جزئی ساخت غشاء	منیژه الماسپور و محمد کریمی	اسفند 1389
54	هدایت یونی در نانوکامپوزیتهای پلیمری: اثر بعد نانومحدودیت	زهرا شکوری و محمد کریمی	آبان 1389
55	ایجاد حافظه شکل در فیلم های پلی استری به وسیله کنترل تبلور همدم	عصمت ساعتچی و محمد کریمی	آبان 1389
56	ایجاد نانو ساختار در فرایند تولید الیاف پلی یورتان حافظه دار با روش محلول ریسی در مقیاس آزمایشگاهی	روح الله احمدزاده امشی و محمد کریمی	دی 1388
57	بهبود خصوصیات الیاف حافظه دار بوسیله نانو لوله های کربن	سمیرا فرشید و محمد کریمی	آذر 1388
58	اندازه گیری میزان تراوایی بخار آب در غشاهای پلی یورتان حساس به دما	شراره حاجی اقا و محمد کریمی	آذر 1388
59	مقایسه منافذ پوسته در کامپوزیت لایه نازک و فیلم پلیمری بدست آمده در فرآیند خشک - تر	سیده محدثه موسوی زواجری و محمد کریمی	آبان 1387
60	تعیین مشخصه امپدانس هندسی برای فرایند نفوذ در مواد نانو کامپوزیت پلیمری	اکرم عیوض خانی و محمد کریمی	آبان 1387
61	کنترل تبلور در غشای نامتقارن پلی آمید 6-6 با استفاده از حلال الکل / هالید فلزی	پیمان سبحانی پور و محمد کریمی	آبان 1387
62	نقش ساختارهای میانی در برداشت تعادلی نفوذ کننده در پلی استر کشیده شده	زینب اخوان کاظم زاده و محمد کریمی	مهر 1387

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سارا آذری و محمد کریمی  
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## کتاب

#	عنوان	نگارندگان/مترجمان	کشور ناشر	تاریخ انتشار	نسخه
داده های ثبت شده در پورتال					
1	انتقال جرم در فرایندهای مهندسی شیمی	محمد کریمی	Croatia (Hrvatska)	شهریور 1390	1
2	میکروسکوپ و میکروسکوپی در پلیمر و نساجی	محمد حقیقت کیش، محمد کریمی	ایران	اردیبهشت 1393	1

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- 32 Ahmad Rezvani Boroujeni, Mehran Javanbakht, Mohammad Karimi, Cyrus Shahrjerdi, "Preparation of Thiol-Functionalized Silica Nano-Particles for Separation of Heavy Metal ion from Aqueous Solution ", The 16th Iranian Chemistry Congress, September 2013
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## دروس ارائه شده

#	عنوان درس	توصیف درس	سرفصل ها	دوره درسی
1	Advanced Physical Chemistry of Polymers	افزایش درک دانشجویان از بسیاری از مقیاس مولکولی		Fall 2021
2	General Thermodynamics	آشنایی دانشجویان با مفاهیم انرژی و آنتروپی در فرایندهای مختلف		Fall 2021
3	Fiber Science	آشنایی با منشا و خواص انواع الیاف و شناخت ساختار آنها		Spring 2021

4	General Thermodynamics	آشنایی دانشجویان با مفاهیم انرژی و آنتروپی در فرایندهای مختلف		Spring 2021
5	Thermal Analysis Of Polymers And Fibers	بررسی تغییر در خصوصیات مکانیکی، حرارتی، چگالی، جرم، هدایت و غیره در اثر تغییر دما		Spring 2021
6	Physical Chemistry of Polymer Solutions	آشنایی با اصول نظری (ترمودینامیک و شیمی فیزیک) محلول های پلیمری و کاربردهای آن		Spring 2021
7	Basics of Fibrous Filters	A		Fall 2020
8	General Thermodynamics	آشنایی دانشجویان با مفاهیم انرژی و آنتروپی در فرایندهای مختلف		Fall 2020
9	Advanced Physical Chemistry of Polymers	افزایش درک دانشجویان از بسپارها در مقیاس مولکولی		Fall 2020

### اختراعات/ ثبت پتنت

#	عنوان اختراع	شماره ثبت کننده	کشور ثبت کننده	همکاران	تاریخ ثبت	تاریخ انقضا
داده های ثبت شده در پورتال						
1	دستگاه اندازه گیری نقطه ابری شدن سیستم سه تایی غیر حلال /حلال/ پلیمر به روش پردازش تصویر رقمی	38612994	Iran (Islamic Republic of)	پیمان سبحانی پور، محمد کریمی	1386/12/11	1406/12/11
2	تولیدغشای پلیمری سیستم سه جزئی آب / کلرید کلسیم - متال / پلی آمید 6 .	38612992	Iran (Islamic Republic of)	پیمان سبحانی پور، محمد کریمی	1386/12/11	1406/12/11
3	ساخت غشا نانو کامپوزیتی نایلون 6 به روشرسوب غوطه وری	38609628	Iran (Islamic Republic of)	عباس قنبری، محمد کریمی	1386/9/10	1406/9/10
4	روش لرزه نگاری با استفاده از تکنیک پردازش تصویر رقمی	8109077	Iran (Islamic Republic of)	محمد کریمی، پیمان سبحانی پور	1386/8/10	1401/8/10