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### رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	تهیه و مشخصه یابی کامپوزیت منگنز دی اکسید/ گرافن به روش ترسیب الکتروشیمیایی به منظور استفاده در ابرخازن هیبریدی	فاطمه مهدی و مهران جوانبخت	اسفند 1400
2	تهیه و بررسی عملکرد الکتروشیمیایی نانوکامپوزیت گرافن/ Fe3O4 به عنوان ماده آندی در باتری های لیتیوم یون	مهشید ارشادی و مهران جوانبخت	آبان 1399
3	تهیه و بهینه سازی غشای قالب مولکولی برای حذف دی اتیل هگزیل فنالات از آب	حاجی رضا احمدی متمایل و مهران جوانبخت	مرداد 1399
4	تهیه و بررسی کاند های غنی از لیتیوم بر پایه لیتیوم منگنز نیکل کبالت اکسید و پوشش های اکسید فلزی جهت استفاده در باتری های لیتیوم - یون	محدثه راستگوی دیلمی و مهران جوانبخت	خرداد 1398
5	سازه های نانولیفی متخلخل پلی اکریلونیتریل (PAN) با پتانسیل کاربرد بعنوان جداکننده در باتری های لیتیومی	نیلوفر ثابت زاده و مهران جوانبخت	دی 1397
6	تهیه و بررسی لیتیوم منگنز دی اکسید به روش پالس و پالس معکوس جهت کاربرد در باتری های لیتیوم - یون	سپیده بهبودی خیابوی و مهران جوانبخت	شهریور 1397
7	تهیه و بررسی برخی از نانو کامپوزیت‌های فلزی پایه گرافن برای واکنش احیای اکسیژن در پیل سوختی پلیمری	الهه لهراسبی و مهران جوانبخت	بهمن 1395
8	تهیه و بررسی غشا الکترولیت پلیمری دما بالا بر پایه پلی بنزایمیدازول و مایعات یونی جهت کاربرد در پیل های سوختی	خدیجه هوشیاری و مهران جوانبخت	شهریور 1395
9	اصلاح نانو ذرات fe2tio5.tio2 به روش پلیمریزاسیون ردکس جهت کاربرد در غشاهای پیل سوختی	پریسا سالاری زاده و مهران جوانبخت	شهریور 1395

دی 1394	محمد سجاذنژاد و مهران جوانبخت	بررسی مکانیزم لایه نشانی پالسی کامپوزیت نیکل / نانو الماس و رفتار خوردگی سایش ان
مهر 1394	احمد رضوانی بروجنی و مهران جوانبخت	ساخت و مطالعه غشاء نانو کامپوزیت پلیمری با استفاده از نانو سیلیکای عامل دار شده جهت تصفیه فلزات سنگین
مهر 1394	فاطمه فتح الهی و مهران جوانبخت	ساخت و بررسی ریز ساختار نانو کامپوزیت فسفات آهن لیتیم/ گرافن به عنوان کاتد مورد استفاده در باتری های یون لیتیم
شهریور 1394	حسین بیدقی و مهران جوانبخت	ساخت و بررسی غشاهای نانو کامپوزیتی پلیمر / گرافن سولفونه برای استفاده در پیل سوختی غشا مبادله پروتون
اسفند 1393	محمد مهدی معین و مهران جوانبخت	تهیه غشای قالب مولکولی نانو ساختار و بهینه سازی فرایند تولید به منظور جداسازی بیومولکول ها
بهمن 1393	اکبر شعبانی کیا و مهران جوانبخت	تهیه غشاهای نانو کامپوزیتی پلی بنزیمیدازول / نانو پودرهای اکسید فلزی و بررسی عملکرد آنها جهت کاربرد در PEMFC

### پایان نامه های کارشناسی ارشد

#	عنوان پایان نامه	توسط	تاریخ دفاع
1	ارزیابی و تهیه الکتروکاتالیست های آلیاژی بهبود یافته به عنوان آند جهت کاربرد در تجزیه آب	مصطفی بیرانوند و مهران جوانبخت	خرداد 1401
2	ساخت و بررسی باتری لیتیم یونی با عمر چرخه ای بالا با استفاده از کاتد لیتیم نیکل کبالت منگنز (NCM) بهبود یافته	علی کریمی النجاری و مهران جوانبخت	اسفند 1400
3	سنتز الکتروشیمیایی وانادیوم اکسید دوپ شده با مس بعنوان ماده الکترودی در ابرخازن ها	نیکی لطیفی و مهران جوانبخت	اسفند 1400
4	سنتز و بررسی عملکرد جاذب های طبیعی ارزان قیمت در حذف یون فلوراید از محیط آبی	سحر امرانی و مهران جوانبخت	بهمن 1400
5	حذف آلکیل بنزن سولفونات خطی از محلول آبی با استفاده از بنتونیت طبیعی اصلاح شده با سیلان آمونیم چهارتایی	فاطمه مهربخش چوبری و مهران جوانبخت	بهمن 1400
6	سنتز و بهبود ماده کاتدی لیتیم نیکل کبالت آلومینیوم اکسید با استفاده از پوشش های نانو مقیاس وانادیوم اکسید جهت کاربرد در باتری های لیتیم یون	نصیر فرامرزی نمداد و مهران جوانبخت	مهر 1400
7	سنتز و بهبود عملکرد الکتروشیمیایی ماده ی کاتدی لیتیوم نیکل منگنز کبالت اکساید با استفاده از پوشش های نانو مقیاس زیر کونیوم فلوراید	محمد عیسی زاده و مهران جوانبخت	مهر 1400
8	ساخت الکتروکاتد بر پایه ی منگنز به منظور استفاده در باتری های روی - یون	علی مولایی اقدم و مهران جوانبخت	شهریور 1400
9	باتری لیتیوم یون بر پایه ماده کاتدی لیتیوم منگنز دی اکسید جهت وسایل ایمپلنت پزشکی	مریم باقری ولنی و مهران جوانبخت	بهمن 1398
10	سنتز مکانیکی شیمیایی کامپوزیت ماده فعال کاتدی لیتیم نیکل کبالت آلومینیوم اکسید / گرافن اکسید سولفونه جهت کاربرد در باتری های لیتیم یون	وحید عباسی و مهران جوانبخت	بهمن 1398
11	سنتز و مشخصه یابی لیتیم نیکل منگنز کبالت اکساید اصلاح شده با سرعت شارژ بالا جهت کاربرد در باتری لیتیم یون	ایدا کیانی و مهران جوانبخت	مهر 1398
12	تهیه و بررسی الکتروشیمیایی آند های پایه گرافن برای باتری های سدیم یون	سجاد هاتفی مجومرد و مهران جوانبخت	بهمن 1397
13	تهیه و مطالعه الکتروشیمیایی الکترولیت ژل پلیمری نانو کامپوزیتی بر پایه GO/PVDF برای باتری های یون-لیتیم	مارال فولادوند و مهران جوانبخت	بهمن 1397

14	الکترو سنتز لیتیم منگنز دی اکساید جهت کاربرد در باتری های لیتیمی	پریساسادات مرتضوی و مهران جوانبخت	بهمن 1397
15	تهیه و بررسی الکتروشیمیایی نانومواد فعال کاتدی لیتیم نیکل منگنز کبالت اکسید به روش حالت جامد (ball_milling)	نغمه محمدی جعفری و مهران جوانبخت	بهمن 1397
16	تهیه غشاهای نانوکامپوزیتی پایه پلی بنزیمیدازول با خواص الکتروشیمیایی بهبود یافته برای پیل های سوختی غشای مبادله پروتون دمای بالا	زهرا رجیبی و مهران جوانبخت	مهر 1397
17	سنتز و بررسی الکتروشیمیایی ماده کاتد نیکل منگنز کبالت اکسید (NMC) جهت کاربرد در باتری یون لیتیم	وحید جان احمدی و مهران جوانبخت	اسفند 1396
18	تهیه غشاهای جدید نانوکامپوزیت چارچوب آلی-فلزی پلی اترکتون سولفون شده با استفاده از مایعات یونی برای هدایت پروتونی بالا و در دمای بالا	پروین کاظمی و مهران جوانبخت	بهمن 1396
19	تاثیر افزودنی های الکترو لیت بر سیکل پذیری باترهای یون لیتیم با آند گرافیتی	بهروز مصلی نژاد و مهران جوانبخت	بهمن 1396
20	سنتز و بررسی الکتروشیمیایی نانو ذرات کاتدی لیتیم نیکل کبالت آلومینوم اکسید (NCA) جهت کاربرد در باتری های یون لیتیم	سیده مرجان ایزدیار و مهران جوانبخت	مهر 1396
21	ساخت و بررسی عملکرد غشای آلیاژی بر پایه پلی بنزیمیدازول برای پیل های سوختی دما بالا	پروانه کاکاوند و مهران جوانبخت	بهمن 1395
22	الکترو سنتز لیتیم منگنز اکسید با استفاده از روش پالس برای باتری های لیتیم یون	مینا رضایی پیام و مهران جوانبخت	بهمن 1395
23	افزایش پایداری حرارتی و بهبود عملکرد الکتروشیمیایی باتری های لیتیم یون با استفاده از افزودنی الکترو لیت بر پایه ترکیبات فسفیت	احسان گلستانی و مهران جوانبخت	بهمن 1395
24	تهیه، بررسی الکتروشیمیایی و تاثیر یون $Pr$ بر نانو ذرات فعال کاتدی غنی از لیتیم منگنز نیکل کبالت اکسید	فاطمه پورصالحی و مهران جوانبخت	مهر 1395
25	تهیه و بررسی خواص فیزیکی و شیمیایی غشاهای نانوکامپوزیتی برپایه پلی اترکتون های آروماتیک برای استفاده در پیل سوختی متانولی،	احمد باقری و مهران جوانبخت	تیر 1395
26	تهیه و مشخصه یابی غشاهای نانوکامپوزیت پلی وینیل الکل- پتاسیم هیدروکسید در پیل های سوختی قلبیایی	درساسادات موسوی و مهران جوانبخت	بهمن 1394
27	سنتز و بررسی الکتروشیمیایی نانو ذرات اکسیدهای لایه ای نیکل منگنز غنی از لیتیم برای کاربرد در باتری های لیتیم - یون	جاوید مولایی ایل ذوله و مهران جوانبخت	بهمن 1394
28	اصلاح سطح غشای تجاری پلی اتر سولفون با استفاده از پلیمرهای قالب مولکولی به منظور جداسازی انسولین	لیلا پایدار و مهران جوانبخت	بهمن 1394
29	سنتز و مشخصه یابی غشاهای نازک و منعطف قالب مولکولی بر پایه آلکوکسیدهای سیلان برای جذب انسولین	ندا کاویانی و مهران جوانبخت	بهمن 1394
30	ساخت و بررسی عملکرد فولاد پوشش داده شده توسط دستگاه پلاسمای کانونی امیرکبیر به عنوان صفحه دو قطبی پیل سوختی امیرکبیر	محسن زارع محمدجانی و مهران جوانبخت	بهمن 1394
31	سنتز و شناسایی غشاهای نانو کامپوزیتی پلی ایمید سولفون / سیلیکای سولفون ی کرووی جهت کاربرد در غشاهای تبادل پروتون	حامد پورعطا و مهران جوانبخت	مهر 1394
32	تهیه و مشخصه یابی الکترو لیت های پلیمری نانو کامپوزیتی بر پایه پلی متیل متاکریلات برای باتری های یون لیتیم	محمد جواد خادمی قلعه کوهی و مهران جوانبخت	مهر 1394
33	ساخت و مشخصه یابی شناساگر نوری بر پایه پلیمرهای قالب مولکولی فعال شده با نقاط کوانتومی سولفید روی	سعید حسینی و مهران جوانبخت	مهر 1394
34	ساخت و بررسی الکتروشیمیایی مجموعه الکترو د- غشا برپایه پلاتین نانو مقیاس / نفیون به روش غشا پوشیده کاتالیست (CCM) برای پیل سوختی غشای مبادله پروتون	پریسا حسین آبادی و مهران جوانبخت	مهر 1394
35	سنتز و بررسی اثر نانو ذرات گرافن سولفون بر فرآیندهای الکترو کاتالیستی پیل های سوختی مبادله کننده پروتون	علیرضا رحمانیان و مهران جوانبخت	شهریور 1394

36	تهیه و بررسی پوششهای آبکاری الکتریکی نانوکامپوزیتی شامل نانو پودرهای اکسید عناصر نادر	سیدروح الله زندوی و مهران جوانبخت	تیر 1394
37	تهیه و بررسی غشای نانوکامپوزیتی حاوی سیلیکای نانو متخلخل عامل دار به منظور تصفیه پساب	سجاد رضایی خانابستانی و مهران جوانبخت	بهمن 1393
38	بررسی روش های ساخت مجموعه الکترو-غشا (MEA) روی عملکرد پیل های سوختی مبادله پروتون (PEM FCs)	سحر پاشایی سرند و مهران جوانبخت	بهمن 1393
39	لایه نشانی نانو و میکروی اکسیدهای هادی بر بسترهای پلیمری انعطاف پذیر و شفاف با دستگاه اسپری پیرولیز و کندوپاش جهت استفاده در سلول های خورشیدی	سمیرا کریمی و مهران جوانبخت	آبان 1393
40	ساخت و بررسی نانوالیاف کربن الکترورسی برای کاربرد در پیل سوختی غشا مبادله پروتون	هانیه پیری و مهران جوانبخت	آبان 1393
41	ساخت و بررسی عملکرد غشای نانو کامپوزیتی پلی اتر سولفون سولفونه / اکسید تیتانیوم جهت کاربرد در پیل سوختی غشای مبادله پروتون	سیما نظری خانمیری و مهران جوانبخت	مهر 1393
42	ساخت و بررسی نانوذرات آلژینات - سیکلودکسترین و کاربرد آن در دارو رسانی	طلوع حسینی فر و مهران جوانبخت	مهر 1393
43	طراحی و ساخت حسگر حساس قالب مولکولی فلئورسانس برای تشخیص و اندازه گیری آنتی بادی IgG در نمونه پلاسما	الهام زراعتکاردوین و مهران جوانبخت	مهر 1393
44	تهیه و بررسی خواص غشاهای مبادله پروتون پیل سوختی بر پایه پلی فتالازینون اترکتون سولفونه/Fe <sub>2</sub> TiO <sub>5</sub>	سمیرا حیدری و مهران جوانبخت	بهمن 1392
45	تهیه نانو مواد فسفات آهن لیتیم با استفاده از روش هم رسوبی و بررسی خواص الکتروشیمیایی آن در باتری های لیتیم-یون	علیرضا ناری و مهران جوانبخت	بهمن 1392
46	تهیه و بررسی الکتروشیمیایی مواد کاتدی فسفات آهن لیتیم با نانوپوشش کربن برای کاربرد در باتری لیتیم یون.	حسین غفاریان زحمتکش و مهران جوانبخت	بهمن 1392
47	ساخت غشای پالادیومی نانو ساختار توسط آبکاری الکتریکی روی فولاد ضد زنگ	رضا ترابی و مهران جوانبخت	بهمن 1392
48	بهینه سازی استخراج تاکسان ها در مقیاس نیمه صنعتی و آنالیز آن ها با استفاده از تکنیک کروماتو گرافی مایع-اسپکترومتري جرمی	مهسا شیرشکن و مهران جوانبخت	مهر 1392
49	تهیه غشاهای نانو کامپوزیتی آلی-معدنی بر پایه سیلیکای عامل دار تیول برای حذف یون های جیوه	سیروس شهرجردی و مهران جوانبخت	مهر 1392
50	طراحی و ساخت حسگر فلورسانس بر پایه پلیمر قالب مولکولی برای اندازه گیری گزینشی فنی توئین در پلاسما	بهاره رضایی و مهران جوانبخت	مهر 1392
51	استخراج فاز جامد قالب مولکولی به منظور جداسازی و اندازه گیری همزمان داروی هالوپریدول در سیال بیولوژیک به کمک HPLC	محمدجعفر جمشیدیان و مهران جوانبخت	مهر 1392
52	افزایش راندمان سلول های خورشیدی ساخته شده از نقاط کوانتومی توسط اصلاح فتوآند	مهسا امیری و مهران جوانبخت	مهر 1392
53	سنتز و بررسی نانو ذرات لیتیم آهن فسفات و کاربرد آن ها به عنوان مواد کاتدی در باتری های یون لیتیم	محدثه راستگوی دیلمی و مهران جوانبخت	بهمن 1391
54	تهیه نانو ساختارهای پلیمرهای قالب مولکولی معدنی به روش سل-ژل معدنی برای تشخیص گزینشی داروها در محیط آبی	مرضیه روزبهانی و مهران جوانبخت	آبان 1391
55	طراحی و ساخت حسگرهای فلورسانس بر پایه پلیمرهای قالب مولکولی برای اندازه گیری گونه های دارویی در پلاسما	زهرا یزدانی و مهران جوانبخت	مهر 1391
56	تهیه پلیمرهای قالب مولکولی کروی در مقیاس میکرو نانو به روش رسوبی به عنوان سیستم داورسان	نسیم سلیم رفتار و مهران جوانبخت	مهر 1391
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62	تهیه غشاهای نانوکامپوزیتی آلی- معدنی با استفاده از نانوذرات سیلکای سولفونه برای کاربرد در پیل های سوختی غشای پلیمری (PEMFCs)	پریرسا سالاری زاده و مهران جوانبخت	شهریور 1390
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70	تهیه پلیمرهای قالب مولکولی (MIP) بصورت یکنواخت و در ابعاد میکرو و نانو برای داروهای کاربامازپین و دی پیریدامول و همچنین بررسی مورفولوژی آنها	مهدی اسفندیاری منش و مهران جوانبخت	تیر 1388
71	طراحی و ساخت حسگر فلورسانس دیپیریدامول و استخراج و جداسازی داروی برموهگزین در سیال های بیولوژیکی با استفاده از پلیمرهای قالب مولکولی	محمد هادی نامجومنش و مهران جوانبخت	بهمن 1387
72	بهبود عملکرد پلیمرهای قالب مولکولی با استفاده از منومرهای با گروه عاملی متفاوت (مطالعات تجربی و تئوری)	فرین ادريس تبریز و مهران جوانبخت	بهمن 1387
73	تهیه حامل های دارورسان برای داروهای دیپیریدامول و کلرامفنیکول با استفاده از پلیمرهای قالب مولکولی (MIP) و بررسی پروفایل رهاسازی دارو از آنها	سمیه محمدی و مهران جوانبخت	آبان 1387
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## کتاب

#	عنوان	نگارندگان/مترجمان	کشور ناشر	تاریخ انتشار	نسخه
داده های ثبت شده در پورتال					
1	نانو حسگرها	حمید امیدوار، نفیسه حسن زاده یزدی، سعید صادق پور، مهران جوانبخت	ایران	1394	1
2	Molecularly imprinted sensors	مهران جوانبخت، بهروز اکبری	United Kingdom	1391	1

1	1389	ایران	مجید عبدوس, سید مهدی جسینی, مهران جوانبخت	3 نقش پذیری مولکولی
1	1386	ایران	مهران جوانبخت, محمدرضا گنجعلی, پرویز نوروزی	4 طیف بینی مادون قرمز اصول و کاربرد

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### دروس ارائه شده

#	عنوان درس	توصیف درس	دوره سرفصل درسی ها
1	Analytical Electro-Chemistry	Fundamental of Electrochemistry -Electrical Double Layer, Kinetics of electrode reactions, Cyclic Voltammetry, RDE & RRDE, Electrochemical Impedance Spectroscopy, Electrochemical Sensors	Spring 2022
2	Advanced Analytical Chemistry	Introduction to advanced analytical chemistry	 Fall 2021
3	General Chemistry (I)	Principles of General Chemistry	 Fall 2021
4	Analytical Electro-Chemistry	Fundamental of Electrochemistry -Electrical Double Layer, Kinetics of electrode reactions, Cyclic Voltammetry, RDE & RRDE, Electrochemical Impedance Spectroscopy, Electrochemical Sensors	Spring 2021

### اختراعات/ ثبت پتنت

#	عنوان اختراع	شماره ثبت	کشور ثبت کننده	همکاران	تاریخ ثبت	تاریخ انقضا
1	Proton exchange composite membrane	US10826099B2	-	خدیجه هوشیاری، مهران جوانبخت، مینا ادیبی	1399/8/11	1409/8/10

داده های ثبت شده در پورتال

1399/2/12	-	مارال فولادوند, لیلا ناجی, مهران جوانبخت	-	101194	الکترولیت پلیمری بر پایه پلی وینیلیدین فلوراید (PVDF)/گرافن اکسید سولفونه (SGO) برای باتری های لیتیوم-یون	2
1409/1/12	1398/12/11	حسین بیدقی, مهران جوانبخت, پریسا سالاری زاده, احمد باقری, علی عموزاده	-	US10603639B2	Nanocomposite blend membrane	3
1389/6/10	-	فاطمه فتح اللهی, مهران جوانبخت	Iran (Islamic Republic (of	66708	ساخت آندهای DSA بر پایه اکسید ایریدیم با پایداری بسیار بالا برای کاربرد در واحدهای کلرآلکالی صنایع پتروشیمی	4
1409/3/11	1389/3/11	حسین بیدقی, مهران جوانبخت, حسین سالار آملی, مجید عبدوس	Iran (Islamic Republic (of	65047	فرایند تهیه غشای هیبریدی مبادله پروتون بر پایه مزوپور سیلیکاتی نانومتخلخل با گروه های فنیل سولفونه	5
1389/3/11	-	مهران جوانبخت	Iran (Islamic Republic (of	65045	ساخت غشای کامپوزیتی مبادله پروتون بر پایه مزوپور سیلیکاتی نانومتخلخل با گروه های آلکیل سولفونه	6
1407/7/10	1387/7/10	مهران جوانبخت, مجید عبدوس, نرگس شعبانی	Iran (Islamic Republic (of	387076563	تهیه پلیمر قالب مولکولی داروی وراپامیل واستفاده از آن جهت جدا سازی و اندازه گیری دارو از سیستم های بیولوژیکی	7
1387/7/10	-	مهران جوانبخت	Iran (Islamic Republic (of	53535	سنتز پلیمر قالب مولکولی و کاربرد آن به عنوان جاذب جهت جداسازی و اندازه گیری داروی متوکلوپرامید از سیستم بیولوژیکی	8
1407/6/11	1387/6/11	مهران جوانبخت	Iran (Islamic Republic (of	38706954	بازیابی سود کاستیک دور ریز واحدهای الفین پتروشیمی	9
1387/5/11	-	مهران جوانبخت	Iran (Islamic Republic (of	51421	ساخت داربست سلولی زیست سازگار جهت درمان سریع ضایعات غضروفی	10
1407/4/11	1387/4/11	مجید عبدوس, محمدکاظم قهرمانپور, سید علیرضا حسنی نجف آبادی, محمد رضا باغبان اسلامی نژاد, فاطمه باقری, مهران جوانبخت, اسماعیل جباری	-	38705187	ساخت درابست سلولی زیست سازگار جهت درمان سریع ضایعات غضروفی	11