



دانشگاه صنعتی امیرکبیر
(پلی تکنیک تهران)

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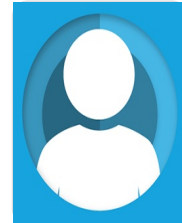
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2956

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گروه آموزشی حرارت و سیالات



رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	الگوسازی عددی و تجربی گرم کن هوای خورشیدی با استفاده همزمان از مواد تغییر فاز دهنده و پره به منظور بهبود عملکرد	حسن پارسا و مجید صفاراول	تیر 1401
2	الگوسازی عددی جریان حلقوی سه فاز در خم های لوله انتقال گاز طبیعی و بررسی نرخ سایش	علی فرخی پور و مجید صفاراول	شهریور 1399
3	مطالعه عددی و تجربی افزایش تبخیر سطحی در مخزن آب شور با استفاده از پدیده کرونا	نوید زهتابیان رضائی و مجید صفاراول	تیر 1399
4	مطالعه تجربی و عددی انتقال حرارت در مبدل دو لوله ای تحت تاثیر امواج فراصوت	میلاد ستاره و مجید صفاراول	شهریور 1398
5	بررسی نظری- تجربی رفتار حرارتی و هیدرودینامیکی دسته لوله ها با لایه متخلخل پاره پوششی	نگار الوندی فر و مجید صفاراول	شهریور 1398
6	بررسی بهبود انتقال حرارت با استفاده از میدان الکتریکی در جریان داخل لوله حاوی محیط متخلخل	مصطفی میرزائی و مجید صفاراول	دی 1397
7	بررسی عددی و تجربی انتقال حرارت جابجایی اجباری فروفلوید در لوله افقی نیمه پر از محیط متخلخل در حضور میدان مغناطیسی	یحیی شیخ نژاد و مجید صفاراول	بهمن 1394
8	تاثیر پدیده چگالش غیر تعادلی بر آیرودینامیک جریان در ردیف پره توربین بخار	حامد باقری اسفه و مجید صفاراول	مهر 1394
9	بررسی نظری و تجربی انتقال حرارت جابجایی در نانو سیالات تحت تاثیر امواج فراصوت	بهناز تاجیک و مجید صفاراول	دی 1390
10	بررسی عددی و تجربی انتقال حرارت جابجایی اجباری نانو سیال در یک میکرو کولر (چاه حرارتی)	محمد کلته و مجید صفاراول	مهر 1389

پایان نامه های کارشناسی ارشد

#	عنوان پایان نامه	توسط	تاریخ دفاع
1	بررسی اثر آرایش و شکل الکتروود بر بهبود انتقال حرارت جریان سیال در حضور میدان الکتریکی	مهرا س امیرحکیمی و مجید صفاراوول	مهر 1400
2	بررسی جریان غیر نیوتنی گل حفاری در فضای حلقوی با انبساط تدریجی و مته چرخان	اردشیر غلامی و مجید صفاراوول	مهر 1400
3	مطالعه عددی رفتار حرارتی و هیدرودینامیکی لوله فین دار پاره پوششی	امیررضا مهدی زاده و مجید صفاراوول	شهریور 1400
4	بررسی کاهش هزینه‌ی محاسباتی توسط روش‌های چندمقیاسی در دینامیک سیالات محاسباتی	حسن ایمانی پرشکوه و مجید صفاراوول	فروردین 1400
5	شبیه سازی عددی اسپری محلول آب-اوره به منظور استفاده در سامانه های SCR	عباس دعاگوی روزبهانی و مجید صفاراوول	فروردین 1400
6	بهبود انتقال حرارت با به کارگیری فروسیال ها در لوله خمیده تحت تاثیر میدان مغناطیسی	هادی زینال زاده و مجید صفاراوول	بهمن 1399
7	مدلسازی عددی آب شیرین کن خورشیدی با به کارگیری مواد متخلخل	محمدرضا کرمی و مجید صفاراوول	بهمن 1399
8	مدلسازی عددی و تجربی سامانه ذخیره انرژی بر پایه مواد تغییر فاز دهنده و ارائه روش های بهبود عملکرد	سیدعلیرضا صدری و مجید صفاراوول	دی 1399
9	کنترل بهینه‌ی تطبیقی دمای بخار سوپرهیتر و ری هیتر	فاطمه قنبری دوست و مجید صفاراوول	تیر 1399
10	شبیه سازی عددی فرآیند پمپاژ با حرکت بالک ها در محدوده عدد رینولدز متوسط	علی سمتی و مجید صفاراوول	تیر 1399
11	طراحی، ساخت و ارزیابی عملکرد خشک کن خورشیدی غیرفعال بهبود یافته	علیرضا خایانی و مجید صفاراوول	تیر 1398
12	الگوسازی تجربی و ساخت آب شیرین کن خورشیدی با بکارگیری مواد متخلخل و فیتیله ای	مجتبی شکری گزافرودی و مجید صفاراوول	اسفند 1397
13	خنک کاری FPGA سه بعدی با استفاده از جریان سیال در میکروکانال	مریم باقری و مجید صفاراوول	اسفند 1397
14	حل عددی نرخ سایش خط لوله ی گاز طبیعی در جریان چند فاز گاز-جامد	الهه میرزاده کوهشاهی و مجید صفاراوول	اسفند 1397
15	بررسی انتقال حرارت در کوئل بامقطع لوله های ترکیبی دایروی و مستطیلی با بهره گیری از نانوسیال	سیده کیانا نقیب زاده و مجید صفاراوول	شهریور 1397
16	بررسی انتقال حرارت جابجایی اجباری برای نانوسیال با سیال پایه غیرنیوتنی در یک لوله افقی و خمیده با زاویه های خم متغیر	سیده حانیه موسوی و مجید صفاراوول	شهریور 1397
17	تحلیل عددی استفاده از نانو سیال در آرایه ای از جت های برخوردی	مهشیدسادات قربشی و مجید صفاراوول	تیر 1397
18	بررسی عددی سایش ناشی از ذرات جامد در جریان گاز-جامد درون سیکلون به روش اویلری-لاگرانژی	حسام توفیقیان و مجید صفاراوول	بهمن 1396
19	مطالعه تجربی اثر امواج آکوستیکی بر انتقال حرارت جابجایی در تغییر فاز	محمد سیفی و مجید صفاراوول	بهمن 1396

20	بررسی عددی تاثیر الگوی تزریق بر پراکندگی سوخت در محفظه ی احتراق	ثنا رضانی و مجید صفاراول	بهمن 1396
21	شناسائی کارائی الگوریتم های عددی برای مدل سازی عددی کوپل دو سوپه برای جریان های دو فاز با رویکرد اویلری - لاگرانژی	حامد اشراقی و مجید صفاراول	بهمن 1396
22	حل عددی نرخ سایش خطوط لوله ی گاز طبیعی در جریان دو فاز گاز-ذرات جامد	محمدرضا بناکرمانی و مجید صفاراول	بهمن 1395
23	بررسی عددی جریان آشفته ی گاز - جامد به روش شبیه سازی گردابه های بزرگ	فاطمه زارعی و مجید صفاراول	بهمن 1395
24	بررسی میزان افزایش انتقال حرارت جریان نانو سیال در لوله خمیده با استفاده از مدل چهار معادله ای	علی صفری و مجید صفاراول	بهمن 1395
25	بررسی نظری و تجربی آب شیرین کن چند مرحله ای خورشیدی	محمود مکی ابادی و مجید صفاراول	بهمن 1395
26	بررسی عددی انتقال حرارت جابجایی در جریان آشفته عبوری از استوانه پوشیده شده با لایه ای از محیط متخلخل	ناهید رحمتی و مجید صفاراول	آذر 1395
27	مدیریت انرژی ناحیه شهری با استفاده از روش CHP به همراه مخازن ذخیره انرژی حرارتی	محمدامین زارعی و مجید صفاراول	اسفند 1394
28	بررسی عددی انتقال حرارت جابجایی طبیعی در مخزن استوانه ای تحت تاثیر امواج فراصوت	مریم طالبی و مجید صفاراول	بهمن 1394
29	تاثیر دیدگاه دو فازی جامد و مایع در بررسی انتقال حرارت جابجایی نانوسیال در لوله	سینا صانع دوست کارسیدانی و مجید صفاراول	بهمن 1394
30	حل عددی و بررسی جریان گاز، مایع و جامد در لوله ی خمیده	علی حاج و مجید صفاراول	بهمن 1394
31	الگوسازی نظری و عددی انتقال حرارت لوله پوشیده از محیط متخلخل بدون تعادل حرارتی	المیرا جدیدی و مجید صفاراول	بهمن 1394
32	الگو سازی نظری و بررسی آکوستیکی جریان عبوری از حنجره	اسما عبدلی جمور و مجید صفاراول	بهمن 1394
33	بررسی تجربی اثر میدان الکتریکی بر روی حرکت جریان سیال داخل لوله	حسن پارسا و مجید صفاراول	مهر 1394
34	مدلسازی عددی جوشش حلقوی جریان مبرد در لوله قائم	سیحان تذرو و مجید صفاراول	بهمن 1393
35	بررسی تئوری و تجربی انتقال حرارت اجباری جریان فرو فلوئید در لوله افقی نیمه پر از محیط متخلخل	بهزاد سیاوش املی و مجید صفاراول	بهمن 1393
36	بررسی عددی انتقال حرارت در میلی یا میکرو لوله به روش شبکه بولتنزن	الهه درری و مجید صفاراول	آذر 1393
37	بررسی میزان افزایش انتقال حرارت جریان نانو سیال در لوله ماریپچ با استفاده از مدل چهار معادله ای	فریبا باقرزاده و مجید صفاراول	مهر 1393
38	مدیریت حرارتی پیل های سوختی غشاء پلیمری با استفاده از نانوسیال	امیرحسین زارع و مجید صفاراول	بهمن 1392
39	مدلسازی نظری جریان دوفاز گاز-مایع در کانالهای میلیمتری	نوید زهتابیان رضائی و مجید صفاراول	دی 1392
40	مطالعه اثر وجود ذرات جامد در جریان لایه ای مایع-گاز، در لوله های انتقال گاز طبیعی	مهدی جعفری و مجید صفاراول	آبان 1392
41	بررسی اثر زبری دیواره روی هیدرودینامیک و انتقال حرارت در لوله های مایل با جریان آشفته سیال گاز- جامد	عادل عبادی و مجید صفاراول	آبان 1392
42	مطالعه عددی میزان افزایش انتقال حرارت در جریان خارجی بر روی لوله پوشیده شده از محیط متخلخل	مریم محمدپور قادیکلایی و مجید صفاراول	مهر 1392

43	حل عددی و تجربی جریان جابجائی اجباری آشفته نانو سیال در لوله ماریچ شار ثابت	سیدحسام بهره مند و مجید صفاراول	مهر 1392
44	حل عددی و تجربی جریان جابجائی اجباری آشفته نانو سیال در لوله ماریچ دما ثابت	میلاد رخشا و مجید صفاراول	تیر 1392
45	کاربرد تئوری ساختاری در مبدل های گرمایی	حامد اسکندری اردبیلی و مجید صفاراول	اسفند 1391
46	بررسی تجربی پدیده سرمایه‌ش با استفاده از نانومبرد در لوله	فرید خلوتی و مجید صفاراول	بهمن 1391
47	حل عددی و تجربی جریان جابجائی اجباری آرام در حال توسعه نانو سیال در لوله ماریچی با شار حرارتی ثابت	سیامک میرفندرسکی و مجید صفاراول	بهمن 1391
48	بررسی رفتار دینامیکی و شناسائی واحد بویلر بازیاب و اعمال کنترلر مناسب	احسان حبیبی سیاهپوش و مجید صفاراول	دی 1391
49	حل عددی دوفازی انتقال حرارت جابجایی در یک لوله حاوی نانوسیال با جریان آرام، با استفاده از روش اولیری-لاگرانژی	مریم همت و مجید صفاراول	آبان 1391
50	ارائه راهکارهای مناسب برای کاهش مصرف سوخت یک ساختمان نمونه مجهزه سیستم گرمایش مرکزی	توران توانگر و مجید صفاراول	تیر 1391
51	تحلیل انتقال حرارت در داخل لوله با محیط متخلخل نیمه پر	محبوبه مهدوی و مجید صفاراول	اسفند 1390
52	افزایش بهره وری سامانه تولید همزمان گرما و توان در شرایط نیمه بار انرژی مصرفی	سیدسعید مصطفوی تهرانی و مجید صفاراول	اسفند 1390
53	بررسی انتقال حرارت جابجایی اجباری در داخل لوله با استفاده از نانوسیال گرافن و اکسیدگرافن	حسین اخوان زنجانی و مجید صفاراول	اسفند 1390
54	حل عددی و تجربی جریان جابجایی اجباری آرام سیال نانو در لوله ماریچ با دمای سطح ثابت	فرزان اکبری دوست و مجید صفاراول	بهمن 1390
55	بررسی انرژی و ترمو-اقتصادی تولید کننده بخار با بازیابی گرما (HRSG)	ساناز ناعمی و مجید صفاراول	آبان 1390
56	بررسی عددی انتقال حرارت در جریان آرام دوفاز مایع-جامد با روش پردازش موازی	مصطفی میرزایی و مجید صفاراول	اسفند 1389
57	: شبیه سازی و بهینه سازی واحدهای ترکیبی توربین گاز با تزریق بخار	پریسا ورجاوند و مجید صفاراول	اسفند 1389
58	بررسی انتقال حرارت با استفاده از مدل آماری برخورد ذرات در مدل سه بعدی جریان گاز- جامد	نگار الوندی فر و مجید صفاراول	اسفند 1389
59	بررسی تجربی انتقال حرارت جریان نانوسیال در لوله های افقی همراه با القای امواج اولتراسونیک	حمیدرضا رعیت زاده و مجید صفاراول	اسفند 1389
60	مدل 3 بعدی انتقال حرارت در جریان گاز- جامد در لوله های مایل و افقی و بررسی آن در شرایط مرزی مختلف	مایا پیشور و مجید صفاراول	اسفند 1389
61	طراحی، اجرا و تحلیل روش تسهیم بهای انرژی حرارتی مصرفی در مجتمع های مسکونی	محمد کرمی زیارانی و مجید صفاراول	دی 1389
62	کنترل نسبت سوخت به هوا در دیگ دی مولد بخار	علیرضا زمان وزیری و مجید صفاراول	تیر 1389
63	امکان سنجی فنی و اقتصادی تولید همزمان قدرت و انرژی (سرمایش و گرمایش) برای مجموعه ای از منازل مسکونی	سیدپویا امید و مجید صفاراول	تیر 1389
64	شبیه سازی عددی و تجربی احتراق پیش مخلوط غنی شده با اکسیژن	مهران احمدی و مجید صفاراول	اسفند 1388
65	مدل سازی حرارتی جریان گاز - جامد بر اساس الگوی آماری برخورد ذره-ذره و ذره-دیوار	مهدی آبکار و مجید صفاراول	بهمن 1388

66	مدلسازی جریان دو فاز گاز مایع در لوله های گاز طبیعی به منظور بررسی خوردگی در لوله انتقال	زهرا طیرانی یوسف آبادی و مجید صفاراوول	خرداد 1388
67	بررسی تجربی افزایش ضریب انتقال حرارت جابجایی در نانوسیالها	ناصر زارع زاده و مجید صفاراوول	فروردین 1388
68	بررسی انتقال حرارت در جریان دوبعدی آشفته مایع-جامد.	بهاره نجیبائی و مجید صفاراوول	اسفند 1387
69	مدل سازی عددی جریان توربولانت - گاز - جامد درمختصات سه بعدی	عباس داداشی و مجید صفاراوول	بهمن 1387
70	شبیه سازی عددی انتقال حرارت جریان سیال نانو در لوله با در نظر گرفتن سرعت لغزش بین دوفاز جامد و مایع	شیوا تقوی و مجید صفاراوول	مهر 1387
71	مطالعه تجربی انتقال حرارت در جریان دو فازی گاز جامد	علیرضا صیامی و مجید صفاراوول	تیر 1387
72	مدلسازی ریاضی نانوسیال ساکن به منظور بررسی اثرات براونی بر روی ضریب هدایت حرارتی آن	اوزن پرهیزکاری و مجید صفاراوول	فروردین 1387
73	مدلسازی انتقال حرارت بین ذرات جامد و دیوار در یک لوله عمودی	مینا روحانی و مجید صفاراوول	اسفند 1386
74	اثر برخورد ذرات بر روی انتقال حرارت جریانهای توربولانس گاز - جامد بااستفاده از مدل های آماری	فریدالدین بهزاد و مجید صفاراوول	دی 1386
75	بررسی جریان ضربانی دوبعدی در محیط متخلخل	پوریا فروغی و مجید صفاراوول	آذر 1386
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دروس ارائه شده

# عنوان درس	توصیف درس	سرفصل ها	دوره درسی ها
1 Power Plant Engineering	آشنایی با نیروگاههای حرارتی و بکار گیری درس های مهندسی مکانیک در طراحی سامانه های حرارتی		Spring 2022
2 Thermodynamics (II)	Application of thermodynamics priciple on power, cooling and heating systems		Spring 2022
3 Advanced Thermodynamics	آشنایی با ترمو دینامیک آماری و ترمودینامیک محلولها و مخلوط هاو مفاهیم نو در ترمودینامیک		Fall 2021
4 Thermodynamics (I)	To study the fundamentals of engineering thermodynamics		Fall 2021
5 Thermodynamics (II)	Application of thermodynamics priciple on power, cooling and heating systems		Spring 2021
6 Power Plant Engineering	آشنایی با نیروگاههای حرارتی و بکار گیری درس های مهندسی مکانیک در طراحی سامانه های حرارتی		Spring 2021

اختراعات/ ثبت پتنت

# عنوان اختراع	شماره ثبت	کشور ثبت کننده	همکاران	تاریخ ثبت	تاریخ انقضا
داده های ثبت شده در پورتال					
1 اجاق مسافرتی با توانایی تولید برق	65005	Iran (Islamic Republic of)	مجید صفارول, سیدمحمدعلی نعمتی , جعفر هاشمی داریان	1389/3/11	1409/3/11