



دانشگاه صنعتی امیرکبیر
(پلی تکنیک تهران)

پست الکترونیک:

ahmadin@aut.ac.ir

شماره تماس:

64543431



مهدی احمدی نجف آبادی

استاد

دانشکده مهندسی مکانیک

گروه آموزشی ساخت و تولید

h-index (Scopus):

28

ارجاعات (Scopus):

1926



رساله‌های دکتری

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	بررسی تاثیر نانو الیاف در چند لایه های کامپوزیتی بر خرابی ناشی از بارگذاری خستگی مودهای I و II به روش نشر آوایی و المان محدود	رضا محمدی و مهدی احمدی نجف آبادی	مرداد 1399
2	تحلیل تجربی و عددی خرابی پیشرونده در چند لایه‌های کامپوزیتی تحت بارگذاری نفوذ شبه استاتیکی و ضربه سرعت پایین با روش نشر آوایی و المان محدود	میلااد سعیدی فر و مهدی احمدی نجف آبادی	مهر 1397
3	تحلیل خرابی در بارگذاری نوسانی مد II در کامپوزیت های پلیمری با استفاده از آزمون غیر مخرب نشر آوایی	جلال یوسفی و مهدی احمدی نجف آبادی	اسفند 1396
4	پایش وضعیت لایه روغن یاتاقنهای لغزشی هیدرودینامیکی در دور پایین با استفاده از روش پخش آوایی	صادق حسینی و مهدی احمدی نجف آبادی	شهریور 1395
5	بررسی جدایش لایه ای کامپوزیتهای شیشه / اپوکسی در مورد ترکیبی II، با استفاده از روش پخش آوایی(آگوستیک امیشن)	محمد فتوحی و مهدی احمدی نجف آبادی	دی 1394
6	بررسی اثرات پخش بار و تنش های پسماند بر شکست ترد با استفاده از رویکردهای موضعی به شکست	حسام الدین مشیدی و مهدی احمدی نجف آبادی	آبان 1394
7	بررسی مکانیزم های آسیب ناشی از اصطکاک با استفاده از روش پخش آوایی با هدف به کارگیری آن در فرایند کشش عمیق ورق فلزی	جواد تیموری شندی و مهدی احمدی نجف آبادی	بهمن 1392
8	تحلیل و ارزیابی تنش پسماند در جهت ضخامت در یک اتصال جوشی فولاد زنگ نزن آستنینی به روش آلتراسونیک	یاشار جوادی و مهدی احمدی نجف آبادی	اسفند 1391
9	تحلیل و تعیین تاثیر پارامترهای عملیات سوراخکاری برای جدایش لایه ای کامپوزیت های شیشه اپوکسی چند لایه با بکارگیری روش آگوستیک امیشن	حسین حیدری کلهرودی و مهدی احمدی نجف آبادی	بهمن 1391

تیر 1390	جهان تقی زاده و مهدی احمدی نجف آبادی	مطالعه موده‌های آسیب با استفاده از روش پخش اوایی در کامپوزیت پلی پروپلین / اپوکسی	10
تیر 1389	امیر رفاهی اسکوئی و مهدی احمدی نجف آبادی	بررسی مد خرابی جدایش لایه ای در نمونه های کامپوزیتی شیشه / پلی استر با استفاده از روش پخش اوایی (آکوستیک امیشن)	11
بهمن 1386	مجتبی آیت الهی و مهدی احمدی نجف آبادی	تحلیل تنش پادصفحه ای در صفحه تضعیف شده توسط ترک و حفره تحت بار هارمونیک	12

پایان‌نامه‌های کارشناسی ارشد

#	عنوان پایان‌نامه	توسط	تاریخ دفاع
1	بررسی کمانش کامپوزیت های لایه ای تعمیر شده با تزریق رزین به روش آکوستیک امیشن	اتا‌بک پورداداش فردنام و مهدی احمدی نجف آبادی	شهریور 1400
2	بررسی تجربی جدایش بین لایه‌ای کامپوزیت های شیشه-اپوکسی سوراخکاری شده تحت بارگذاری مختلط کششی و خستگی خمشی با استفاده از آزمون غیرمخرب آکوستیک-امیشن	امیرحسین بیگی و مهدی احمدی نجف آبادی	شهریور 1400
3	بهینه سازی طراحی پایه ایمپلنت های دندانی	رامین نیک نفس و مهدی احمدی نجف آبادی	شهریور 1399
4	بررسی تجربی و شبیه سازی المان محدود جذب انرژی و مطالعه مدهای خرابی در لوله های کامپوزیتی رشته پیچی شده با فیبر کربن با استفاده از روش نشر آکوستیک	زهرا نوذری جویباری و مهدی احمدی نجف آبادی	آذر 1398
5	بررسی تجربی و عددی تأثیر ساختار هندسی الیاف شیشه در لوله های کامپوزیتی تحت نیروی محوری شبه استاتیکی	آرش خدائی و مهدی احمدی نجف آبادی	آبان 1398
6	محاسبه و اندازه گیری تنش محیطی در فرآیند اتوفرتاژ به روش التراسونیک در نمونه آلومینیومی 1050	حامد صفی خانلو و مهدی احمدی نجف آبادی	شهریور 1398
7	بررسی خواص مکانیکی کامپوزیت های تقویت شده با نانو فایبرهای تولید شده به روش الکترورسی	محمد احساندوست و مهدی احمدی نجف آبادی	تیر 1398
8	بررسی تاثیر ضرایب الاستیک مراتب بالا بر ثابت آکوستوالاستیک فلز تحت بار کششی	نازنین مرکبی اصفهانی و مهدی احمدی نجف آبادی	مهر 1397
9	افزایش مقاومت به سایش چدن سفید و تخمین عمر عملکرد آن در شرایط کاری واقعی با استفاده از مدلسازی تحلیلی کامپیوتری	حسنا ساعی فر و مهدی احمدی نجف آبادی	تیر 1397
10	کاربرد امواج صوتی برای اندازه گیری تنش پسماند و تنش خمشی در لوله های پلی اتیلنی انتقال گاز	خشایار خسروبان و مهدی احمدی نجف آبادی	بهمن 1396
11	کاربرد امواج طولی منکسر شده بحرانی برای اندازه گیری تنش های پسماند در لوله های اتو فریتاژ شده	مهدی اسکندری و مهدی احمدی نجف آبادی	بهمن 1396
12	بررسی عمر باقیمانده در قطعات کامپوزیتی با استفاده از تست غیر مخرب آکوستیک امیشن	مهدی حبیبی و مهدی احمدی نجف آبادی	بهمن 1396
13	بررسی صحت و سلامت نمونه های کامپوزیت پلیمری تحت عیب جدایش بین لایه‌ای با استفاده از امواج لمب	حمیدرضا بدخشیان و مهدی احمدی نجف آبادی	مهر 1396
14	بررسی اثر نانوالیاف نایلون در جدایش بین لایه ای کامپوزیت شیشه / اپوکسی به روش آکوستیک امیشن	علی قلی زاده و مهدی احمدی نجف آبادی	مهر 1396
15	بررسی پارامترهای موثر بر انتشار امواج آکوستیکی در کامپوزیتهای شیشه / اپوکسی	مصطفی شیردل و مهدی احمدی نجف آبادی	تیر 1396
16	بررسی عددی و تجربی خرابی کامپوزیت های شیشه / اپوکسی سوراخکاری شده تحت بارگذاری خستگی خمشی با استفاده از آزمون غیر مخرب آکوستیک امیشن	نعیم اکبری شاه خسروی و مهدی احمدی نجف آبادی	تیر 1396

17	بررسی خرابیهای ایجاد شده در کمانش چند لایه های کامپوزیتی با روش آکوستیک امیشن	انور سوخانی داربسفلی و مهدی احمدی نجف آبادی	بهمن 1395
18	بررسی مکانیزمهای خرابی خستگی وصله و ورق در ورق آلومینیومی ترک دار ترمیم شده با کامپوزت های الیافی بوسیله روش آکوستیک امیشن	عبداله ملکی دیزج و مهدی احمدی نجف آبادی	بهمن 1395
19	اندازه گیری تنش پسماند در جوش مقاومتی سر به سر به روش آلتراسونیک	علی رضا فرجی الموتی و مهدی احمدی نجف آبادی	مهر 1395
20		سیدعلی حسینی کارزونی و مهدی احمدی نجف آبادی	بهمن 1394
21	تعیین ضرایب آکوستوالاستیک در فلزجوش و HAZ در جوشکاری فولاد زنگ نزن آستنیتی	ایمان رحیمی و مهدی احمدی نجف آبادی	مهر 1394
22	تفکیک مکانیزم های خرابی ناشی از ضربه روی کامپوزیت چندلایه با استفاده از روش آکوستیک امیشن	سیدعلی مهدی یان اهی و مهدی احمدی نجف آبادی	مهر 1394
23	مطالعه تنش پسماند در جوشکاری با فیلرهای LTT	کاوه عزیزپور و مهدی احمدی نجف آبادی	مهر 1394
24	تعیین مکانیزم های خرابی در چند لایه های کامپوزیتی با استفاده از روش آکوستیک امیشن و شبیه سازی المان محدود	رضا محمدی و مهدی احمدی نجف آبادی	شهریور 1394
25	اندازه گیری تنش پسماند جوشی فولاد زنگ نزن آستنیتی توسط امواج التراسونیک LCR با حذف تقریب های استفاده شده پیشین در ضرایب آکوستوالاستیک	شایان نژادشمسی و مهدی احمدی نجف آبادی	شهریور 1394
26	بررسی مکانیزم های خرابی ورق آلومینیومی ترک دار ترمیم شده با کامپوزیت های الیافی بوسیله روش آکوستیک امیشن	میرمحمد موسوی نسب و مهدی احمدی نجف آبادی	شهریور 1394
27	مدلسازی تنش پسماند طولی در جوشکاری ورق از جنس فولاد زنگ نزن آستنیتی و ارزیابی آن با دو روش پراش پرتو ایکس و التراسونیک	محمد افتخاری و مهدی احمدی نجف آبادی	مهر 1393
28	بررسی جدایش بین لایه ای در چند لایه های فلز-کامپوزیت و ارزیابی آن با روش آکوستیک امیشن	جابر اسماعیلی کراتی و مهدی احمدی نجف آبادی	مهر 1393
29	بررسی تئوری به منظور تشخیص عیوب بین لایه ای در کامپوزیت های زمینه پلیمری با استفاده از بارگذاری خمش سه نقطه ای به کمک روش آکوستیک امیشن	برهان صادقی و مهدی احمدی نجف آبادی	مهر 1393
30	بررسی جدایش بین لایه ای در کامپوزیت های پلیمری تقویت شده با الیاف تحت بارگذاری نوسانی، با روش آکوستیک امیشن	میلاد سعیدی فر و مهدی احمدی نجف آبادی	شهریور 1393
31	بررسی مکانیزم های خرابی در کامپوزیت های شیشه/ اپوکسی در موده های ترکیبی I و II با استفاده از روش غیرمخرب اکوستیک امیشن	حمیدرضا فضایی و مهدی احمدی نجف آبادی	دی 1392
32	بررسی تنش های پسماند جوشی با کمک امواج آلتراسونیک Lcr در فولاد زنگ نزن آستنیتی	محمود حسنی اورزمان و مهدی احمدی نجف آبادی	دی 1392
33	تفکیک سیگنال های آکوستیک امیشن فرایند سوراخکاری و بار شبه استاتیکی(سوراخکاری پرسی)	نوید ظریف کریمی و مهدی احمدی نجف آبادی	مهر 1392
34	مطالعه خرابی کامپوزیت های شیشه/ پلی استر تحت بار گذاری مود II با استفاده از آنالیز سیگنال های حاصل از آزمون فراصوتی اکوستیک امیشن	پریناز بلال پور دستجردی و مهدی احمدی نجف آبادی	مهر 1392
35	مدل سازی عددی برای تعیین تنش های پسماند در یک اتصال جوشی butt welding و مقایسه آن با اندازه گیری به کمک روش التراسونیک	سیدعلی صادقی و مهدی احمدی نجف آبادی	مهر 1392
36	مدلسازی المان محدود و تجربی شکست کامپوزیت شیشه/اپوکسی در هندسه های مختلف تحت بارگذاری خمشی	مهرداد نظم دارشهری و مهدی احمدی نجف آبادی	اسفند 1391
37	ارزیابی تنش در محدوده ی های متفاوت از عمق یک قطعه فولاد زنگ نزن استنیتی توسط امواج طولی منکسر شده ی بحرانی	امید افضلی نینز و مهدی احمدی نجف آبادی	آبان 1391
38	بررسی تئوری و تجربی خرابی چند لایه های کامپوزیتی بر اثر بار خمش سه نقطه ای و ارزیابی نتایج حاصله توسط آکوستیک امیشن	جلال یوسفی و مهدی احمدی نجف آبادی	مهر 1391

39	توسعه و کاربرد روش آلتراسونیک جهت اندازه گیری تنشهای پسماند جوشی در یک اتصال لب به لب	محسن نیکخواه و مهدی احمدی نجف آبادی	مهر 1391
40	تحلیل المان محدود و اندازه گیری تنش پسماند به روش التراسونیک در منطقه HAZ یک اتصال جوشی	محسن خدمت و مهدی احمدی نجف آبادی	شهریور 1391
41	ارزیابی تنش های پسماند در نمونه های دارای اتصال جوشی از جنس فولاد زنگ نزن آستینیتی به کمک امواج lcr	حامد سلیمی پیرزمان و مهدی احمدی نجف آبادی	خرداد 1391
42	تاثیر ترتیب جوشکاری بین یک مخزن آلومینیومی استوانه ای و رینگ واسط بر اعوجاج سازه	حسین مهرعلی و مهدی احمدی نجف آبادی	آبان 1390
43	بررسی تغییرات ضریب سرعت سیال در نشتی به روش غیر مخرب آکوستیک امیشن	محمدعابد معتصمی و مهدی احمدی نجف آبادی	مهر 1390
44	بررسی جدا شدن استاتیکی دو لایه از هم در فرایند سوراخکاری مواد مرکب با استفاده از ازمون فراصوتی اکوستیک امیژن	محمد فتوحی و مهدی احمدی نجف آبادی	شهریور 1390
45	بررسی اثر جوشکاری به روش Temper bead بر خواص مکانیکی جوش	وحید شکری و مهدی احمدی نجف آبادی	شهریور 1390
46	شناسایی مد های خرابی در کامپوزیتها با استفاده از تجزیه و تحلیل سیگنالهای آکوستیک امیشن	فرزاد پشم فروش و مهدی احمدی نجف آبادی	شهریور 1390
47	مطالعه تاثیر تنش پسماند در فلزات بر روی سرعت انتشار امواج الاستیک	محمد طاوسیان و مهدی احمدی نجف آبادی	دی 1389
48	بررسی نشتی در سوپاپ موتور احتراقی توسط آکوستیک امیشن	صادق حسینی و مهدی احمدی نجف آبادی	شهریور 1389
49	اندازه گیری تنش در فلزات با استفاده از امواج التراسونیک	خالد اذری و مهدی احمدی نجف آبادی	شهریور 1389
50	مانیتورینگ فرآیند جدایش بین لایه ای مود 1 در کامپوزیت با تکنیک آکوستیک امیشن	علیرضا سوری و مهدی احمدی نجف آبادی	تیر 1389
51	مونیتورینگ فرایند رشد ترک با استفاده از تکنیک آکوستیک امیشن	هادی محمدیاری و مهدی احمدی نجف آبادی	تیر 1389
52	مطالعه تجربی پدیده ی جدایش لایه ای در کامپوزیت های شیشه پلی استر و شیشه اپوکسی و کامپوزیت های ساندویچی به کمک روش آکوستیک امیشن	میلاد حاجی خانی و مهدی احمدی نجف آبادی	خرداد 1389
53	تعیین تافنس شکست با استفاده از تکنیک آکوستیک امیشن	جواد تیموری شندی و مهدی احمدی نجف آبادی	دی 1388
54	بررسی شروع تغییر فرم پلاستیک با استفاده از روش آکوستیک امیشن	میثم اکبری و مهدی احمدی نجف آبادی	بهمن 1387
55	بازسازی امواج آکوستیک امیشن ناشی از نشت	امیر احمدی و مهدی احمدی نجف آبادی	شهریور 1387
56	اندازه گیری حاصل از رشد ترک با استفاده از روش آکوستیک امیشن	سعید حاجی قاسمی و مهدی احمدی نجف آبادی	اردیبهشت 1387
57	شناسایی مکانیزم تولید آکوستیک امیشن در فرایندهای اصطکاکی	سجاد مصطفوی و مهدی احمدی نجف آبادی	اسفند 1386
58	بررسی خوردگی تحت تن توسط سیگنال آکوستیک امیشن	حسین حیدری کلهرودی و مهدی احمدی نجف آبادی	مهر 1386
59	پردازش سیگنالهای آکوستیک امیشن بدست آمده از یک قطعه کامپوزیتی بوسیله WAVELET	وحید انصاری اوغول بیک و مهدی احمدی نجف آبادی	اسفند 1385
60	اندازه گیری تنش به روش امواج التراسونیک	سیامک اخشیک و مهدی احمدی نجف آبادی	بهمن 1385

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عضویت در هیأت تحریریه مجلات

تاریخ همکاری و توضیحات

عناوین مجلات

1 مهندسی مکانیک مدرس

دروس ارائه شده

# عنوان درس	توصیف درس	دوره درسی	سرفصل ها
1 Materials Science	Learning of principles of microstructure, mechanical and physical properties and abilities of materials to be used in manufacturing of engineering components	Fall 2021	🔗
2 Advanced Non Destructive Testing	آشنایی با روشهای پیشرفته غیرمخرب جهت استفاده در تحقیقات مواد و بازرسی مراحل در فرآیندهای ساخت و تولید	Fall 2021	🔗
3 Special Topics (Surface Engineering)	In this course wear and friction considerations in life design, effective mechanisms of surface structure and modification technologies to improve surface properties are investigated.	Fall 2021	🔗
4 Advanced Non Destructive Testing	آشنایی با روشهای پیشرفته غیرمخرب جهت استفاده در تحقیقات مواد و بازرسی مراحل در فرآیندهای ساخت و تولید	Spring 2021	🔗
5 Materials Science	Learning of principles of microstructure, mechanical and physical properties and abilities of materials to be used in manufacturing of engineering components	Spring 2021	🔗
6 Special Topics (Ultrasonic Flaw Detection & Lab.)	Learning fundamental concepts of physics of acoustic waves, as well as their propagation, technology, and applications	Spring 2021	🔗
7 Science of Materials	Learning of principles of microstructure, mechanical and physical properties and abilities of materials to be used in manufacturing of engineering components	Spring 2021	🔗
8 Materials Science	Learning of principles of microstructure, mechanical and physical properties and abilities of materials to be used in manufacturing of engineering components	Fall 2020	🔗
9 Principles of Metal Casting	آشنایی با اصول تهیه مذاب ریخته‌گری و منجمد کردن فلزات به منظور حصول به قطعه با خواص مکانیکی مناسب	Fall 2020	🔗

اختراعات/ ثبت پتنت

#	عنوان اختراع	شماره ثبت	کشور ثبت کننده	همکاران	تاریخ ثبت	تاریخ انقضا
داده های ثبت شده در پورتال						
1	مکانیزم اندازه گیری اتوماتیک تنش پسماند در خطوط لوله نفت و گاز و مخازن با روش التراسونیک	84320	-	میلاد سعیدی فر, مهدی احمدی نجف آبادی, رضا محمدی	1393/8/10	1412/10/12
2	اندازه گیری مستقیم دانسیته قطعات متخلخل پودری به روش رادیوگرافی	59020	Iran (Islamic Republic of)	علی باطنی , مهدی احمدی نجف آبادی, نادر پروین	1388/2/11	-
3	دستگاه اندازه گیری استحکام کششی و پیچشی قطعات به طور همزمان در صورت نیاز تحت فشار داخلی و دماهای متفاوت	55677	Iran (Islamic Republic of)	بابک سلطان نیا, میلاد حاجی خانی, مهدی احمدی نجف آبادی, بیژن ملائی داریانی	1387/9/11	1390/9/10