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29

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2130



### Supervised MSc Theses

#	Thesis title	By	Date
1	Investigating the Fatigue Strength of Glass / Epoxy Repaired by Resin Injection Using Ultrasonic	Faraz Haddad & Mehdi Ahmadi Najafabadi	March 2022
2	Study of restoration of fatigue strength of delaminated glass/epoxy composite after being repaired by using acoustic emission technique	Amirmahdi Mohammad Hosseini & Mehdi Ahmadi Najafabadi	March 2022
3	Investigation and Analysis of Damage for Filament Wound Composite Tubes by Continuous Damage Models and Acoustic Emission under Lateral Loading	Amir Bani Mohammad Ali & Mehdi Ahmadi Najafabadi	February 2022
4	Experimental investigation of delamination in drilled glass/epoxy composites under mixed tensile and bending cyclic loading using acoustic emission method	Amirhussain Baigi & Mehdi Ahmadi Najafabadi	September 2021
5	Investigation of specific energy absorption by thin-walled aluminum and glass fiber/epoxy reinforced aluminum tubes under quasi static lateral compression	Ehsan Mirzaei & Mehdi Ahmadi Najafabadi	September 2021
6	The study of buckling of laminated composites repaired by resin injection using acoustic emission	Atabak Pourdadaash Fardnam & Mehdi Ahmadi Najafabadi	August 2021
7	Design optimization of dental implants base	Ramin Niknafs & Mehdi Ahmadi Najafabadi	September 2020

8	Experimental study and Finite element simulation of energy absorption and failure modes of CFRP filament wound tube and its Acoustic Emission Inspection	Zahra Nozarijouybari & Mehdi Ahmadi Najafabadi	December 2019
9	Numerical And Experimental Study For Geometrical Effect Of Fiber Glass Structure In Composite Tubes Under The Axial Quasi Static Loading	Arash Khodaei & Mehdi Ahmadi Najafabadi	November 2019
10	Ultrasonic hoop stress calculation in autoferttaged AL 1050 pipe	Hamed Safi Khanlu & Mehdi Ahmadi Najafabadi	September 2019
11	analyzing mechanical properties in reinforced composites by electrospun nanofibers	Mohammad Ehsandoost & Mehdi Ahmadi Najafabadi	July 2019
12	The Effect of Higher-order Elastic Coefficients of Elasticity of Metal under Tensile load on the Acoustoelastic Constant	Nazanin Morakabi Esfahani & Mehdi Ahmadi Najafabadi	October 2018
13	Application of ultrasonice Waves for the Measurement of Residual Stress and bending of polyethylene pipes	Khashayar Khosravian & Mehdi Ahmadi Najafabadi	February 2018
14	Prediction of residual strength of composite laminates by means of acoustic emission technique	Mahdi Habibi & Mehdi Ahmadi Najafabadi	February 2018
15	Application of Critically Refracted longitudinal Waves for Residual Stress Measurement in the autofretted tubes	Mehdi Iskandari & Mehdi Ahmadi Najafabadi	February 2018
16	Polymer Composite Samples Health Monitoring using Lamb Wave Method under Delamination	Hamidreza Badakhshian & Mehdi Ahmadi Najafabadi	October 2017
17	The effect of Nylon6,6 nanofibers on delamination of glass/epoxy composite using Acoustic Emission	Ali Gholizadeh & Mehdi Ahmadi Najafabadi	September 2017
18	Investigation of the parameters affecting of wave propagation in glass/epoxy composite	Mostafa Shirdel & Mehdi Ahmadi Najafabadi	July 2017
19	: Numerical and experimental investigation of failure in drilled glass/epoxy composites under bending cyclic loading using acoustic emission method	Naeim Akbari Shahkhosravi & Mehdi Ahmadi Najafabadi	July 2017
20	Investigation of induced damages in buckling of laminate composites using acoustic emission	Anvar Soukhani Darisofla & Mehdi Ahmadi Najafabadi	February 2017
21	Investigation of fatigue failure mechanisms of a notched aluminum plate repaired with a composite patch using acoustic emission method	Abdollah Maleki & Mehdi Ahmadi Najafabadi	February 2017
22	Ultrasonic residual stress measurement in upset weld	Ali Reza Faraji Alamooti & Mehdi Ahmadi Najafabadi	October 2016
23	Ultrasonic NDT data reconstruction, visualization and analysis in autoCAD2000	Seyed Ali Hosseini Kazerooni & Mehdi Ahmadi Najafabadi	February 2016
24	Study on residual stresses in welding by LTT fillers	Kaveh Azizpour & Mehdi Ahmadi Najafabadi	October 2015
25	Determination of Acoustoelastic Coefficients in Welding Metal and HAZ in Austenitic Stainless Steel Welding	Iman Rahimi & Mehdi Ahmadi Najafabadi	October 2015
26	Separation of Impact Damage Mechanisms on Laminar Composite Using Acoustic Emission Method	Seyed Ali Mahdian Ahi & Mehdi Ahmadi Najafabadi	October 2015
27	Identification damage mechanism in composite using acoustic emission and finite element methods	Reza Mohammadi & Mehdi Ahmadi Najafabadi	September 2015
28	Investigation of failure mechanisms of a notched aluminum plate repaired with a composite patch using acoustic emission method	Mir Mohammad Mousavi Nasab & Mehdi Ahmadi Najafabadi	September 2015

29	Measurement of Welding Residual Stress of Austenitic Stainless Steel By Using LCR Ultrasonic Waves by Eliminating Approximation of Accoustoelastic	Shayan Nejadshamsi & Mehdi Ahmadi Najafabadi	September 2015
30	Investigation of delamination in FMLs and verification by Acoustic Emission method	Jaber Esmaeeli Karati & Mehdi Ahmadi Najafabadi	October 2014
31	Theoretical study for detection of inter laminar defects of fiber-reinforced polymer composites by three-point bending using acoustic emission method	Borhan Sadeghi & Mehdi Ahmadi Najafabadi	October 2014
32	Simulation of longitudinal residual stress in welded austenitic stainless steel plates and evaluation with x-ray diffraction and ultrasonic meth	Mohammad Eftekhary & Mehdi Ahmadi Najafabadi	October 2014
33	Investigation delamination in FRP composites under cyclic loading by acoustic emissin	Milad Saeedifar & Mehdi Ahmadi Najafabadi	September 2014
34	Monitoring of Damage Mechanisms in Mixed Mode I/II Loading on Glass/Epoxy Composites by Acoustic Emission Method	Hamidreza Fazaeli & Mehdi Ahmadi Najafabadi	January 2014
35	Evaluation of Welding residual stress in austenite stainless steel using Lcr ultrasonic waves	& Mehdi Ahmadi Najafabadi	January 2014
36	Monitoring of damage mechanism in mode-II loading for a glass/polyester composite using acoustic emission	Parinaz Belalpour Dastjerdi & Mehdi Ahmadi Najafabadi	October 2013
37	Residual stress evaluation by finite element and ultrasonic method in a butt weld joint	Seyedali Sadeghi & Mehdi Ahmadi Najafabadi	October 2013
38	Discrimination of Acoustic Emission Signals during Drilling Process and Semi-Static Loading (punching)	Navid Zarif Karimi & Mehdi Ahmadi Najafabadi	October 2013
39	FEM and AE fracture analysis of glass/epoxy composite laminate under bending load	& Mehdi Ahmadi Najafabadi	February 2013
40	stress evaluation within different depth ranges of a stainless steel plate by LCR wave	Omid Afzali Naniz & Mehdi Ahmadi Najafabadi	October 2012
41	Theoretical and Experimental Damage Investigation of Composite Laminate under Three Point Bending using Acoustic Emission	& Mehdi Ahmadi Najafabadi	October 2012
42	Development of application of ultrasonic method for measurement of residual stresses in butt weld joint	& Mehdi Ahmadi Najafabadi	October 2012
43	Final Element Analysis and Measurement of Residual Stress by Ultrasonic Method in Heat Affected Zone of a Wellded Connectin	& Mehdi Ahmadi Najafabadi	September 2012
44	The effect of welding sequences on welding distortion in an aluminium pressure vessel	& Mehdi Ahmadi Najafabadi	October 2011
45	Diagnosis of fluids velocity coefficient in leakage using acoustic emission	& Mehdi Ahmadi Najafabadi	October 2011
46	The study of Temper bead welding technique on the mechanical properties of welds	& Mehdi Ahmadi Najafabadi	September 2011
47	Monitoring of delamination in composite materials during drilling using acoustic emission	& Mehdi Ahmadi Najafabadi	September 2011
48	Identification of damage modes in composite materials by analyzing acoustic emission signals	& Mehdi Ahmadi Najafabadi	September 2011
49	Study of the effect of residual stress in metals on the propagation rate of elastic waves	Mohammad Tavoasian & Mehdi Ahmadi Najafabadi	January 2011

50	measurement of stress in metals using ultrasonic waves	& Mehdi Ahmadi Najafabadi	September 2010
51	Studying leak in valves of Internal Combustion Engine Using Acoustic Emission	Sadegh Hosseini & Mehdi Ahmadi Najafabadi	September 2010
52	Monitoring delamination mode I in composite by the acoustic emission technique	Alireza Souri & Mehdi Ahmadi Najafabadi	July 2010
53	monitoring crack growth by the acoustic emission technique	Hadi Mohammadyari & Mehdi Ahmadi Najafabadi	July 2010
54	Experimental study of delamination in glass/epoxy and glass/polyester laminated composites and sandwich composites by acoustic emission technique	Milad Hajikhani & Mehdi Ahmadi Najafabadi	June 2010
55	fracture toughness evaluation by the acoustic emission technique	Javad Teymuri Shandi & Mehdi Ahmadi Najafabadi	January 2010
56	Experimental study of onset of plastic deformation in steel by using acoustic emission technique	Meysam Akbari & Mehdi Ahmadi Najafabadi	January 2009
57	RECONSTRUCTION OF ACOUSTIC EMISSION WAVES CAUSED BY LEAKAGE	Amir Ahmadi & Mehdi Ahmadi Najafabadi	September 2008
58	MEASUREMENT OF RELEASED ENERGY IN CRACK GROWTH BY THE ACOUSTIC EMISSION	Saeed Haji Ghasemi & Mehdi Ahmadi Najafabadi	May 2008
59	IDENTIFICATION OF MECHANISM OF AE GENERATION IN FRICTION PROCESSES	Sajad Mostafavi & Mehdi Ahmadi Najafabadi	March 2008
60	STUDY OF STRESS CORROSION WITH ACOUSTIC EMISSION	Hossein Heidari Kalhroodi & Mehdi Ahmadi Najafabadi	September 2007
61	PROCESSING OF A SIGNALS OBTAINED FROM AE EXPERIMENT ON A COMPOSITE PLATE USING WAVELET METHOD	Vahid Ansari Oghol Beyk & Mehdi Ahmadi Najafabadi	March 2007
62	ULTRASONIC STRESS MEASUREMENT	Siamak Akhshik & Mehdi Ahmadi Najafabadi	February 2007
63	EXPERIMENTAL STUDY OF STRESS MEASUREMENT IN BOLTS WITH ULTRASONIC WAVES	Seyed Mohamad Atifeh & Mehdi Ahmadi Najafabadi	November 2006
64	STUDY OF ACOUSTIC EMISSION WAVE PROPAGATION IN PLATES	Seyed Mohammadnaser Saber & Mehdi Ahmadi Najafabadi	November 2006
65	EXPERIMENTAL STUDY OF DRILLING REINFORCED PLASTICS AND INVESTIGATION OF DAMAGE ZONE BY NDT METHODS	Peyman Moradi & Mehdi Ahmadi Najafabadi	May 2006

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	condition Monitoring	Mehdi Ahmadi Najafabadi	Iran (Islamic Republic of)	September 2012	1

2	Using Acoustic Emission to Evaluate Fracture Toughness Energy Release Rate (GI) at Mode I Delamination of Composite Materials	Amir Refahi Oskouei, Andrea Zucchelli, Mehdi Ahmadi Najafabadi, Giangiacomo Minak	none	February 2012	1
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## Journal Papers

### Portal Records

- 1 Sajad Alimirzaefaradonbeh, Mehdi Ahmadi Najafabadi, Ali Nikbakht, Lotfollah Pahlavan, "Damage mechanism characterization of plus/minus 35 degree and plus/minus 55 degree FW composite tubes using acoustic emission method", INTERNATIONAL JOURNAL OF DAMAGE MECHANICS, April 2022 Vol. 0, Num. 0, Page 1-24, April 2022,
- 2 Milad Dehnad, Mehdi Kamali Dolatabadi, Mehdi Ahmadi Najafabadi, Ali Asghar Asgharian Jeedi, "Damage characterization of woven fabric composite using acoustic emission method: warp and bias directions", JOURNAL OF THE TEXTILE INSTITUTE, April 2021 Vol. 0, Num. 0, Page 1-9, April 2021,
- 3 Reza Mohammadi, Mehdi Ahmadi Najafabadi, Hamed Saghafi, Milad Saeedifar, Dimitrios Zarouchas, "A quantitative assessment of the damage mechanisms of CFRP laminates interleaved by PA66 electrospun nanofibers using acoustic emission", COMPOSITE STRUCTURES, December 2020 Vol. 258, Num. 0, Page 1-12, December 2020,
- 4 Reza Mohammadi, Mehdi Ahmadi Najafabadi, Hamed Saghafi, Milad Saeedifar, Dimitrios Zarouchas, "The effect of mode II fatigue crack growth rate on the fractographic features of CFRP composite laminates: An acoustic emission and scanning electron microscopy analysis", ENGINEERING FRACTURE MECHANICS, November 2020 Vol. 241, Num. 0, Page 1-14, November 2020,
- 5 Hamed Safikhlanu, Mehdi Ahmadi Najafabadi, Sajad Alimirzaefaradonbeh, "Investigation of autofrettage process in Al 1050 specimens by finite element and experimental method", August 2020 Vol. 51, Num. 3, Page 109-117, August 2020,
- 6 Reza Mohammadi, Mehdi Ahmadi Najafabadi, Hamed Saghafi, Dimitrios Zarouchas, "Fracture and fatigue behavior of carbon/epoxy laminates modified by nanofibers", COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, July 2020 Vol. 137, Num. 0, Page 1-11, July 2020,
- 7 Reza Mohammadi, Mehdi Ahmadi Najafabadi, Hamed Saghafi, Dimitrios Zarouchas, "Mode-II fatigue response of AS4/8552 carbon /epoxy composite laminates interleaved by electrospun nanofibers", THIN-WALLED STRUCTURES, May 2020 Vol. 154, Num. 0, Page 1-12, May 2020,
- 8 Hamed Safikhlanu, Sajad Alimirzaefaradonbeh, Mehdi Ahmadi Najafabadi, "Behavior of critically refracted longitudinal and lamb waves with stress variations in Al 1050 sample", Modares Mechanical Engineering, April 2020 Vol. 20, Num. 5, Page 1223-1234, April 2020,
- 9 Mehrdad Nazmdar, Mehdi Ahmadi Najafabadi, Mehdi Akhlaghi, "On the improvement of analytical delamination model for drilling of laminated composites using Galerkin method", COMPOSITES PART B-ENGINEERING, April 2020 Vol. 194, Num. 0, Page 1-13, April 2020,
- 10 Mahdi Habibi, Jalal Yousefi, Mehdi Ahmadi Najafabadi, "Investigation the Effect of Loading Rates on Fracture Toughness of Loading Mode I in Glass / Epoxy Composite Laminates by Acoustic Emission", Modares Mechanical Engineering, December 2019 Vol. 19, Num. 12, Page 2917-2925, December 2019,
- 11 Fatemeh Faghieh Khorasani, Mohammad Zaman Kabir, Mehdi Ahmadi Najafabadi, Khosrow Ghavami, "Predicting compressive stress-strain curves of structural adobe cubes based on Acoustic Emission (AE) hits and Weibull distribution", international Journal of Structural Integrity, November 2019 Vol. 10, Num. 6, Page 776-791, November 2019,
- 12 Naeim Akbari Shahkhosravi, Jalal Yousefi, Mehdi Ahmadi Najafabadi, Colin Burvill, Giangiacomo Minak, "Fatigue life reduction of GFRP composites due to delamination associated with the introduction of functional discontinuities", COMPOSITES PART B-ENGINEERING, April 2019 Vol. 163, Num. 0, Page 536-574, April 2019,
- 13 Naeim Akbari Shahkhosravi, Jalal Yousefi, Mehdi Ahmadi Najafabadi, Giangiacomo Minak, Hossein Hosseini Toudeshky, Fariborz Sheibani, "Static strength and damage evaluation of high speed drilled composite material using acoustic emission and finite element techniques", ENGINEERING FRACTURE MECHANICS, April 2019 Vol. 210, Num. 0, Page 470-485, April 2019,

- 14 Milad Saeedifar, Mehdi Ahmadi Najafabadi, Dimitrios Zarouchas, Hossein Hosseini Toudeshky, Meisam Jalalvand, "Barely visible impact damage assessment in laminated composites using acoustic emission", COMPOSITES PART B-ENGINEERING, November 2018 Vol. 152, Num. 0, Page 180-192, November 2018,
- 15 Parinaz Belalpour Dastjerdi, Mehdi Ahmadi Najafabadi, "Characterizing the damage mechanisms in mode II delamination in glass/epoxy composite using acoustic emission", STRUCTURAL ENGINEERING AND MECHANICS, September 2018 Vol. 67, Num. 4, Page 1-9, September 2018,
- 16 Mahdi Habibi, Jalal Yousefi, Mehdi Ahmadi Najafabadi, "Damage assessment of mode II of polymer composite material using a new acoustic emission and finite element methods", , July 2018 Vol. 18, Num. 4, Page 126-134, July 2018,
- 17 Ali Gholizadeh, Mehdi Ahmadi Najafabadi, Hamed Saghafi, Reza Mohammadi, "Considering damages to open-holed composite laminates modified by nano-fibers under the three-point bending test", POLYMER TESTING, July 2018 Vol. 70, Num. 0, Page 363-377, July 2018,
- 18 Ali Gholizadeh, Mehdi Ahmadi Najafabadi, Hamed Saghafi, Reza Mohammadi, "Considering damage during fracture test on nanomodified laminates using acoustic emission method", EUROPEAN JOURNAL OF MECHANICS A-SOLIDS, June 2018 Vol. 72, Num. 0, Page 452-463, June 2018,
- 19 Milad Saeedifar, Mehdi Ahmadi Najafabadi, Kaivan Mohammadi, Mohamad Fotouhi, Hossein Hosseini Toudeshky, Reza Mohammadi, "Acoustic Emission-Based Methodology to Evaluate Delamination Crack Growth Under Quasi-static and Fatigue Loading Conditions", JOURNAL OF NONDESTRUCTIVE EVALUATION, January 2018 Vol. 37, Num. 1, Page 1-13, January 2018,
- 20 Anvar Soukhani Darisofla, Milad Saeedifar, Mehdi Ahmadi Najafabadi, Mohamad Fotouhi, Dimitrios Zarouchas, "The study of buckling and post-buckling behavior of laminated composites consisting multiple delaminations using acoustic emission", THIN-WALLED STRUCTURES, January 2018 Vol. 128, Num. 0, Page 145-156, January 2018,
- 21 Seyedali Sadeghi, Navid Zarif Karimi, Mohammad Fotouhi, , Mehdi Ahmadi Najafabadi, Ana Pavlovic, "Residual Stress Evaluation in Friction Stir Welding of Aluminum Plates by Means of Acoustic Emission and Ultrasonic Waves", FME Transactions, January 2018 Vol. 46, Num. 0, Page 230-237, January 2018,
- 22 Milad Saeedifar, Mehdi Ahmadi Najafabadi, Dimitrios Zarouchas, Hossein Hosseini Toudeshky, Meisam Jalalvand, "Clustering of Interlaminar and Intralaminar damages in Laminated Composites under Indentation Loading using Acoustic Emission", COMPOSITES PART B-ENGINEERING, January 2018 Vol. 144, Num. 0, Page 206-219, January 2018,
- 23 Abdollah Maleki, Milad Saeedifar, Mehdi Ahmadi Najafabadi, Dimitrios Zarouchas, "The Fatigue Failure Study of Repaired Aluminum Plates by Composite Patches using Acoustic Emission", ENGINEERING FRACTURE MECHANICS, December 2017 Vol. 0, Num. 0, Page 1-12, December 2017,
- 24 Mehdi Ahmadi Najafabadi, Manouchehr Salehi, Mohammad Reza Morovvati, , Seyed Ali Ebrahimian, Cevat Teymuri Sindi, "Investigation of deep drawing process by the means of acoustic emission characteristics", MATERIALS EVALUATION, November 2017 Vol. 17, Num. 11, Page 1525-1531, November 2017,
- 25 Jalal Yousefi, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, Mehdi Akhlaghi, "Damage evaluation of laminated composite material using a new acoustic emission Lamb-based and finite element techniques", APPLIED COMPOSITE MATERIALS, October 2017 Vol. 0, Num. 0, Page 1-20, October 2017,
- 26 Mir Mohammad Mousavi Nasab, Hamid Fotouhi, Reza Mohammadi, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, "Investigation of failure mechanisms of notched aluminum plates repaired with composite patches using acoustic emission method", , October 2017 Vol. 17, Num. 8, Page 406-412, October 2017,
- 27 Ali Gholizadeh, Naeim Akbari Shakhosravi, Reza Mohammadi, Mehdi Ahmadi Najafabadi, Hossein Heidary, "The effect of carbon nanotubes on the life of drilled glass / epoxy composite under fatigue loading", , October 2017 Vol. 17, Num. 8, Page 399-405, October 2017,
- 28 Reza Mohammadi, Milad Saeedifar, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, "Acoustic Emission Based Methodology to Evaluate the Fracture Toughness in Carbon/Epoxy Composites", , September 2017 Vol. 49, Num. 2, Page 379-386, September 2017,
- 29 Mohammad Ghayoomi Mohammadi, Seyed Ali Mahdian Ahi, Jalal Yousefi, Mehdi Ahmadi Najafabadi, "AE- based damage investigation in unidirectional composite laminates under low-velocity impact tests", , September 2017 Vol. 17, Num. 7, Page 91-100, September 2017,

- 30 Saeed Kazemi Najafi, Houri Sharifinia, Mehdi Ahmadi Najafabadi, Eric Landis, "Acoustic emission characterization of failure mechanisms in oriented strand board using wavelet based and unsupervised clustering methods", WOOD SCIENCE AND TECHNOLOGY, August 2017 Vol. 0, Num. 0, Page 1-13, August 2017,
- 31 Milad Saeedifar, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, Reza Mohammadi, "Investigation of delamination initiation and propagation in glass/epoxy composites with acoustic emission technique", , December 2016 Vol. 48, Num. 8, Page 411-422, December 2016,
- 32 Milad Saeedifar, Mehdi Ahmadi Najafabadi, Jalal Yousefi, Reza Mohammadi, Hossein Hosseini Toudeshky, Giangiacomo Minak, "Delamination Analysis in Composite Laminates by means of Acoustic Emission and Bi-linear/Tri-linear Cohesive Zone Modeling", COMPOSITE STRUCTURES, December 2016 Vol. 161, Num. 0, Page 505-512, December 2016,
- 33 Seyed Ali Mahdian Ahi, Jalal Yousefi, Mehdi Ahmadi Najafabadi, Amir Esmaeilzare, "Residual stress evaluation in friction stir-welded aluminum plates using finite element method and acoustic emission", JOURNAL OF MATERIALS SCIENCE, October 2016 Vol. 0, Num. 0, Page 1-14, October 2016,
- 34 Reza Mohammadi, Mehdi Ahmadi Najafabadi, Milad Saeedifar, Jalal Yousefi, Giangiacomo Minak, "Correlation of acoustic emission with finite element predicted damages in open-hole tensile laminated composites", COMPOSITES PART B-ENGINEERING, September 2016 Vol. 108, Num. 0, Page 427-435, September 2016,
- 35 Hoori Sharifinia, Saeid Kazemi Najafi, Mehdi Ahmadi Najafabadi, "Evaluation of fracture behavior of scobs under tensile load using acoustic emission technique", , August 2016 Vol. 69, Num. 2, Page 339-349, August 2016,
- 36 Naeim Akbari Shahkhosravi, Ali Gholizadeh, Reza Mohammadi, Milad Saeedifar, Mehdi Ahmadi Najafabadi, "Quantification of damage mechanisms in holed composite laminates by acoustic emission and finite element methods", , August 2016 Vol. 16, Num. 6, Page 345-352, August 2016,
- 37 Sadegh Hosseini, Mehdi Ahmadi Najafabadi, Mehdi Akhlaghi, "Using acoustic emission method for lubrication monitoring in a journal bearing in the time- frequency domain", , August 2016 Vol. 16, Num. 6, Page 171-180, August 2016,
- 38 Seyed Ali Mahdian Ahi, Jalal Yousefi, Mehrdad Nazmdar, Vavid Zarif Karimi, Mehdi Ahmadi Najafabadi, Giangiacomo Minak, "Damage evaluation of laminated composites under low-velocity impact tests using acoustic emission method", JOURNAL OF COMPOSITE MATERIALS, May 2016 Vol. 0, Num. 0, Page 1-12, May 2016,
- 39 Mohamad Fotouhi, Hamed Saghafi, Tommaso Brugo , Giangiacomo Minak, Cristiano Fragassa, Andrea Zucchelli, Mehdi Ahmadi Najafabadi, "Effect of PVDF nanofibers on the fracture behavior of composite laminates for high-speed woodworking machines", PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C- JOURNAL OF MECHANICAL ENGINEERING SCIENCE, April 2016 Vol. 0, Num. 0, Page 1-13, April 2016,
- 40 Milad Saeedifar, Mohamad Fotouhi, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, Giangiacomo Minak, "Prediction of quasi-static delamination onset and growth in laminated composites by Acoustic Emission", COMPOSITES PART B-ENGINEERING, February 2016 Vol. 85, Num. 0, Page 113-122, February 2016,
- 41 Sadegh Hosseini, Mehdi Ahmadi Najafabadi, Mehdi Akhlaghi, "Classification of acoustic emission signals generated from journal bearing at different lubrication conditions based on wavelet analysis in combination with artificial neural network and genetic algorithm", TRIBOLOGY INTERNATIONAL, December 2015 Vol. 95, Num. 0, Page 426-434, December 2015,
- 42 Milad Saeedifar, Mohamad Fotouhi, Mehdi Ahmadi Najafabadi, "Investigation of push-out delamination using cohesive zone modelling and acoustic emission technique", JOURNAL OF COMPOSITE MATERIALS, December 2015 Vol. 0, Num. 0, Page 1-12, December 2015,
- 43 Jalal Yousefi, Reza Mohammadi, Milad Saeedifar, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, "Delamination characterization in composite laminates using acoustic emission features, micro visualization and finite element modeling", JOURNAL OF COMPOSITE MATERIALS, November 2015 Vol. 0, Num. 0, Page 1-13, November 2015,
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- 45 Mohamad Fotouhi, Seyedali Sadeghi, Meisam Jalalvand, Mehdi Ahmadi Najafabadi, "Analysis of the damage mechanisms in mixedmode delamination of laminated composites using acoustic emission data clustering", JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, September 2015 Vol. 0, Num. 0, Page 1-23, September 2015,
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- 47 Reza Mohammadi, Milad Saeedifar, Hossein Hosseini Toudeshky, Mehdi Ahmadi Najafabadi, Mohamad Fotouhi, "Prediction of delamination growth in carbon/epoxy composites using a novel acoustic emission-based approach", JOURNAL OF REINFORCED PLASTICS AND COMPOSITES, April 2015 Vol. 0, Num. 0, Page 1-11, April 2015,
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- 50 Milad Saeedifar, Mohamad Fotouhi, Mehdi Ahmadi Najafabadi, Hossein Hosseini Toudeshky, "Interlaminar Fracture Toughness Evaluation in Glass/Epoxy Composites Using Acoustic Emission and Finite Element Methods", JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, November 2014 Vol. 0, Num. 0, Page 1-12, November 2014,
- 51 Reza Mohammadi, Milad Saeedifar, Mohamad Fotouhi, Cevat Teymuri Sindi, Mehdi Ahmadi Najafabadi, "Determination of fracture toughness of heat treated AISI D2 steel using Finite Element and Acoustic Emission methods", , October 2014 Vol. 14, Num. 11, Page 1-8, October 2014,
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## Taught Courses

#	Course title	Description	Headlines	Date
1	Materials Science	Learning of principles of microstructure, mechanical and physical properties and abilities of materials to be used in manufacturing of engineering components		Spring 2022
2	Advanced Non Destructive Testing	Learning advanced non-destructive methods for use in materials research and inspection of stages in manufacturing processes		Spring 2022
3	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
4	Advanced Non Destructive Testing	Learning advanced non-destructive methods for use in materials research and inspection of stages in manufacturing processes		Fall 2021
5	Advanced Non Destructive Testing	آشنایی با روشهای پیشرفته غیرمخرب جهت استفاده در تحقیقات مواد و بازرسی مراحل در فرآیندهای ساخت و تولید		Spring 2021
6	Special Topics (Ultrasonic Flaw Detection & Lab.)	Learning fundametal concepts of physics of acoustic waves, as well as their propagation, technology, and applications		Spring 2021
7	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
8	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

## Inventions/Patents

#	Invention title	Reg. number	Country	contributers	Reg. date	Exp. date
1	Using ultrasonic technique in a automated mechanism for measuring residual stress in oil and gas pipelines	84320			2014/11/1	2034/01/1
2	Direct density measurement of of porous powder metallurgy compacts by radio-graphic method	59020			2009/05/1	-

