


Resume

Faramarz Ashenai Ghasemi	
Professor	
Shahid Rajaei Teacher Training University (SRTTU), Mechanical Engineering Faculty, Solids Design Group	
Citation Indexes: WoS h-index: 20, Scopus h-index: 21, Google scholar h-index: 24	
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Work
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Academic Rank
Professor, 2022
Associate Professor, 2014-2022
Assistant Professor, 2009-2014
Lecturer, 1996-2014

Education				
Institute	Place	From	To	Degree
Khajeh Nasir Toosi University of Technology	Tehran, Iran	Sep. 2001	Mar. 2008	Ph.D.: Solids Design
Thesis:	Dynamic response of shape memory polymer composites plate under low velocity impact			
Tehran Polytechnic	Tehran, Iran	Sep. 1993	Aug. 1996	M.Sc.: Manufacturing and Production
Thesis:	Analysis of effective parameters of machining in life time of carbide tools			
Tehran Polytechnic	Tehran, Iran	Sep. 1987	Aug. 1992	B.S.: Solids Design
Thesis:	Presenting an applied software for reducing the calculation time in different subjects of statics, strength of materials and machine design			
A. F. Tech. High School	Tehran, Iran	Sep. 1981	Jun. 1985	Dip.: Auto Mechanic

Research Experience	
5	Mechanical Behavior of Materials
4	Composite Materials
3	Impact Mechanics
2	Fracture Mechanics
1	Nanocomposites

Administrative Activities	
12	Director in Charge of Journal of Computational and Applied Research in Mechanical Engineering-JCARME, From 2023
11	Director-in-Charge of Publication Office, 2013-2020
10	Member of Editorial Board of Journal of Computational and Applied Research in Mechanical Engineering (JCARME), From 2014
9	Head of Publication Office, 2013-2020
8	Executive Manager of Journal of Technology of Education-JTE, 2013-2019
7	Science Committee Member of First National and International Conference on Conveyor Belt Systems with New Approach to Transportation of Material, 15-16 Feb. 2012
6	Executive Manager of Journal of Computational and Applied Research in Mechanical Engineering-JCARME, From 2010
5	Science Committee Member of 2nd and 3rd National Conference on Education, 2010-2011
4	Head of Design of Solids Group, 2010-2011
3	Referee of Mechanics Technical Group of 11th to 16th Khwarizmi Youth Award, 2009-2014
2	Head of Manufacturing and Production Group, 2008-2013
1	Head of Engineering Drawing Group, 2000-2001

Awards and Honors	
36	Top Researcher of the SRTTU, Dec. 2025
35	Top Researcher of the Mechanical Engineering Faculty of the SRTTU, Feb. 2025
34	Top Researcher of the SRTTU, Dec. 2023
33	Preferable Researcher of the SRTTU, Dec. 2022
32	Executive Manager of the Top Journal of the SRTTU, Dec. 2022
31	Supervisor of the University's Top Doctoral Thesis in the Field of Community and Industry Relations, Dec. 2022
30	First Class Research Badge, Dec. 2020
29	Top University Technologist, Dec. 2020
28	Preferable Researcher of the SRTTU, Dec. 2019
27	Top Publisher at the 5th Biennial Book Festival of Architecture and Urban, June 2019
26	Top Researcher of the SRTTU, Dec. 2017
25	Letter of Appreciation from Vice-President of Research and Technology of the SRTTU, Dec. 2016

24	Top Researcher of the Mechanical Engineering Faculty of the SRTTU, Dec. 2016
23	Translator of the Year Book of the SRTTU, Dec. 2016
22	Letter of Appreciation from Vice-President of Education and Graduate Affairs of the SRTTU, May 2016
21	Letter of Appreciation from President of the SRTTU, Feb. 2016
20	Top Researcher of the SRTTU, Dec. 2015
19	Translator of the Year Book of the SRTTU, Dec. 2015
18	Executive Manager of the Top Journal of the SRTTU, Dec. 2015
17	Letter of Appreciation from VP of Research and Technology of the SRTTU, Dec. 2015
16	Letter of Appreciation for Speech in “Timeless and Global Satire” from VP of Social and Cultural Affairs of the SRTTU, June 2015
15	Letter of Appreciation from Vice-President of Education and Graduate Affairs of the SRTTU, April 2015
14	Letter of Appreciation from President of the SRTTU, April 2015
13	Top Researcher of the Mechanical Engineering Faculty of the SRTTU, Dec. 2014
12	Letter of Appreciation from VP of Research and Technology of the SRTTU, March 2014
11	Top Researcher of the SRTTU, Dec. 2013
10	Translator of the Year Book of the SRTTU, Dec. 2013
9	Executive Manager of the Top Journal of the SRTTU, Dec. 2013
8	Top Group Head of the SRTTU, 2013
7	Supervisor of the Superior M. S. Thesis of the SRTTU, Dec. 2012
6	Top Researcher of the Mechanical Engineering Faculty of the SRTTU, Dec. 2012
5	Top Instructor of the SRTTU, May 2013
4	Letter of Appreciation from the Seventh National Seminar of Promoting Nanotechnology Institutions, July 2011
3	Letter of Appreciation from the Fourth Movement Festival, June 2011
2	Top Group Head of the SRTTU, Sept. 2010
1	Letter of Appreciation from the Iran Aircraft Manufacturing Industrial Company, Feb. 2000

Memberships	
3	Member of American Society of Mechanical Engineers (ASME)
2	Member of Iranian Society of Mechanical Engineers (ISME)
1	Member of Society of Manufacturing Engineering of Iran (SMEIR)

Teaching in Universities	
3	Shahid Rajaei Teacher Training University, Sep. 1997- Now
2	Valiasr Technical Faculty, Jan. 2005- Dec. 2011
1	Azad University, Tehran South Branch, Sep. 1996- Oct. 2014

Graduate and Postgraduate Courses Taught	
2	Mechanics of Composite Materials

1	Mechanical Behavior of Materials
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Undergraduate Courses Taught	
6	Statics
5	Machine Dynamics
4	Engineering Drawings
3	AutoCAD
2	Differential Equations
1	General Workshop

Inventions	
2	Design and manufacture of a mechanical robot to climb wall, 2005
1	Design and manufacture of a wheelchair to climb stairs, 2003

Research Projects	
23	Experimental analysis of mechanical behavior of polymer-based composites, 2025
22	Experimental analysis of mechanical properties of polymer-based composites, 2024
21	Analysis of mechanical behavior of polymer-based composites, 2023
20	Vibrational analysis of composite plates reinforced by graphene nanoplates as functional graded GPLs effect under different parameters, 2022
19	Analysis of vibration, buckling and bending of microplates reinforced with graphene nanoplates, 2021
18	Experimental analysis of corrosion fatigue of welded 5083 aluminum alloy in seawater, 2021
17	Including the name of Shahid Rajaee Teacher Training University in the world university ranking system (QS, Times, Leiden), 2020
16	Bending and buckling analysis of composite laminate plates reinforced by nano graphene plates in a functionally grade pattern, 2020
15	A manufacturing research project of technical knowledge and laboratory sample of corrosion-fatigue machine, 2019
14	Analysis of wave propagation in micro plate in a viscoelastic medium reinforced by carbon nanotubes, 2019
13	Investigation on effects of welding process parameters on the mechanical properties of carbon steel-stainless steel dissimilar butt welded joints, 2018
12	Improving mechanical properties of titanium based glass metals, 2018
11	Manufacturing and investigation the mechanical properties of nanocomposites based on propylene, 2018
10	Experimental investigation on mechanical properties of ternary nanocomposites based on epoxy/NBR/nanoparticles, 2018
9	Effect of nanoparticles on impact strength and elastic modulus of polymer based composites, 2017
8	Design and manufacturing of a steel mold for polymer based composites, 2016
7	Comparing mechanical properties of PP based hybrid nanocomposites, 2016
6	Design and manufacturing of composite bipolar plates for polymer low temperature fuel cells, 2016

5	Analysis of strengthening of polymer based composites, 2015
4	Numerical and experimental analysis of repaired cracked aluminum plates using FML patches under impact load, 2014
3	Design and fabrication of abrasive flow machine, 2013
2	Experimental analysis on machinability of composites, 2011
1	Experimental analysis on weldability of composites, 2011

Publications	
a) Journal Papers	
137	Mohammad Kazem Nikzad, Faramarz Ashenai Ghasemi* , Farshid Aghadavoudi Mechanical properties analysis of PLA matrix polymer nanocomposite reinforced with silica particles using improved micromechanical and molecular models <i>Tabriz Journal of Mechanical Engineering</i> , Volume 55, Issue 4, 2026, Pages 25-32. (ISC) (In Persian)
136	Mahdi Mahabadifar, Faramarz Ashenai Ghasemi* , Mohammad Fasihi, Pouya Rajaei Experimental analysis of fracture properties of unvulcanized and dynamically vulcanized PP/ EPDM/CLAY via essential work of fracture <i>Mechanics of Composite Materials</i> , Volume 61, Issue 5, 2025, Pages 1009-1030. (JCR)
135	Mahmoud Nedaei Shekarab, Faramarz Ashenai Ghasemi* , Mohammad Fasihi, Pouya Rajaei A comprehensive study on mechanical and fracture properties of polypropylene/ethylene propylene diene monomer/halloysite blend polymer nanocomposites <i>Journal of Elastomers & Plastics</i> , Volume 57, Issue 5, 2025, Pages 672-702. (JCR)
134	Mohammad Kazem Nikzad, Faramarz Ashenai Ghasemi* , Farshid Aghadavoudi Influence of the shape of silica nanoparticles on the elastic properties and glass transition temperature of PLA-based nanocomposites: Molecular dynamics simulation <i>Plastics, Rubber and Composites: Macromolecular Engineering</i> , Volume 54, Issue 3-4, 2025, Pages 108-119. (JCR)
133	Mohammad Mosayyebi, Faramarz Ashenai Ghasemi* , Reza Kolahchi Vibration response of small-scaled FG-CNTRC sandwich plates with MR fluid core supported by Kerr elastic substance <i>Journal of Vibration and Control</i> , 10.1177/10775463241304039, 2024, Pages 1-20. (JCR)
132	Pouya Rajaei, Faramarz Ashenai Ghasemi , Amir Hossein Rabiee*, Mohammad Fasihi, Behnam Kakeh, Alireza Sadeghi Predicting tensile and fracture parameters in polypropylene-based nanocomposites using machine learning with sensitivity analysis and feature impact evaluation <i>Composites Part C: Open Access</i> , Vol. 15, 100535, 2024, Pages 1-13. (JCR)
131	Iman Voghofi, Faramarz Ashenai Ghasemi* , Kazem Reza Kashyzadeh Experimental analysis of tensile strength of 6-layer carbon/ kevlar/epoxy hybrid composite reinforced with nano-graphene/ silica nanoparticles <i>Journal of Elastomers & Plastics</i> , Volume 56, Issue 8, 2024, Pages 942-957. (JCR)
130	Reza Paknejad, Faramarz Ashenai Ghasemi* , Keramat Malekzadeh Fard Analysis of free vibration and low-velocity impact response on sandwich cylindrical shells containing fluid <i>Mechanics of Composite Materials</i> , Volume 60, Issue 4, 2024, Pages 729-750. (JCR)
129	Mohammad Kazem Nikzad, Faramarz Ashenai Ghasemi* , Farshid Aghadavoudi Experimental analysis of the effect of the atomic radius of silica nanoparticles on the mechanical and thermal properties of poly lactic acid nanocomposites <i>Journal of Elastomers & Plastics</i> , Volume 56, Issue 6, 2024, Pages 774-785. (JCR)

128	Pouya Rajaei, Amir Hossein Rabiee, Faramarz Ashenai Ghasemi* , Mohammad Fasihi, Mahdi Mahabadifar, Mahmoud Nedaei Shekarab XGBoost machine learning assisted prediction of the mechanical and fracture properties of unvulcanized and dynamically vulcanized PP/EPDM reinforced with clay and halloysite nanoparticles <i>Polymer Composites</i> , Volume 45, Issue 16, 2024, Pages 14799-14815. (JCR)
127	Sadegh Hosseini, Faramarz Ashenai Ghasemi* , Mohammad Fasihi, Pouya Rajaei On the essential work of fracture of polylactic acid/ thermoplastic polyurethane/ halloysite <i>Journal of Elastomers & Plastics</i> , Volume 56, Issue 5, 2024, Pages 593-610. (JCR)
126	Pouya Rajaei, Faramarz Ashenai Ghasemi* , Seyyed Ali Sajjadi, Mohammad Fasihi Effect of raster angle on the fracture properties of additively manufactured ABS via essential work of fracture <i>Journal of Applied Polymer Science</i> , Volume 141, Issue 16, 2024, Pages 1-11. (JCR)
125	Mohammad Kazem Nikzad, Farshid Aghadavoudi*, Faramarz Ashenai Ghasemi Thermo-mechanical properties of silica-reinforced PLA nanocomposites using molecular dynamics: The effect of nanofiller radius <i>Journal of Polymer Research</i> , Volume 31, Issue 2, 2024, Pages 1-10. (JCR)
124	Mohammad Mosayyebi, Faramarz Ashenai Ghasemi , and Reza Kolahchi* Modified couple stress theory (MCST) and refined zigzag theory (RZT) for wave propagation of embedded smart sandwich plates with magnetorheological fluid core and viscoelastic FG-CNTRC magnetostrictive face sheets <i>Journal of Vibration and Control</i> , Volume 30, Issue 21-22, 2023, Pages 4868-4887. (JCR)
123	M. Nouri, F. Ashenai Ghasemi* , G. R. Sherbaf, K. R. Kashizadeh Fatigue analysis of a type-IV CNG composite cylinder with variable wall-thickness and polyethylene liner <i>Mechanics of Composite Materials</i> , Volume 59, Issue 5, 2023, Pages 927-944. (JCR)
122	Hamid Kamalvand, Faramarz Ashenai Ghasemi* , Pouya Rajaei, Mohammad Fasihi An experimental investigation of the tensile, fracture and microstructural characteristics of ABS/SBS reinforced with HNTs <i>Polymer Composites</i> , Volume 44, Issue 19, 2023, Pages 6482-6494. (JCR)
121	Pouya Rajaei, Faramarz Ashenai Ghasemi* , Mohammad Fasihi Comments on “Identification of micro-failure processes of HDPE-henequen fiber composite material by using acoustic emission monitoring: Effect of fiber surface modification” <i>Polymer Composites</i> , Volume 44, Issue 8, 2023, Pages 5296-5299. (JCR)
120	Milad Soury Rudabadi, Faramarz Ashenai Ghasemi* , Pouya Rajaei, Mohammad Fasihi An experimental study on the microstructural, tensile, and fracture properties of biodegradable polylactic acid blended with thermoplastic corn starch filled with halloysite nanotubes <i>Industrial Crops & Products</i> , Volume 201, 116922, 2023, Pages 1-14. (JCR)
119	Seyyed Ali Sajjadi, Faramarz Ashenai Ghasemi* , Pouya Rajaei, Mohammad Fasihi Fracture toughness of PA6/POE-g-MA/TiO₂ ternary nanocomposites according to the essential work fracture method <i>Polymer Composites</i> , Volume 44, Issue 7, 2023, Pages 3895-3912. (JCR)
118	Abuzar Fotoohi, Faramarz Ashenai Ghasemi* , Mohammad Fasihi, Pouya Rajaei Mechanical behavior and essential work of fracture of surface-modified exfoliated graphite filled polypropylene/ ethylene-vinyl acetate blend nano-composites <i>Journal of Applied Polymer Science</i> , Volume 140, Issue 20, 2023, Pages 1-17. (JCR)
117	Reza Paknejad, Faramarz Ashenai Ghasemi* , Keramat Malekzadeh Fard The effects of arbitrary boundary conditions on a laminated composite plate response subjected to large mass & low velocity impact <i>Tabriz Journal of Mechanical Engineering</i> , Volume 53, Issue 1, 2023, Pages 51-60. (ISC) (In Persian)
116	Seyyed Ali Sajjadi, Faramarz Ashenai Ghasemi* , Pouya Rajaei, Mohammad Fasihi Evaluation of fracture properties of 3D printed high impact polystyrene according to essential work of fracture: Effect of raster angle <i>Additive Manufacturing</i> , Volume 59, 103191, 2022, Pages 1-17. (JCR)

115	Seyyed Sajad Mousavi Nejad Souq, Faramarz Ashenai Ghasemi , Mir Masoud Seyyed Fakhrabadi* Performance of different traditional and machine learning-based atomistic potential functions in the simulation of mechanical behavior of Fe nanowires <i>Computational Materials Science</i> , Volume 215, 111807, 2022, Pages 1-15. (JCR)
114	Behnam Kakeh, Mohammad Fasihi*, Faramarz Ashenai Ghasemi , Pouya Rajaei Effect of halloysite nanotubes on deformation mechanism and work of fracture of thermoplastic elastomer toughened polypropylene <i>Journal of Applied Polymer Science</i> , Volume 139, Issue 47, 2022, Pages 1-17. (JCR)
113	Sajjad Daneshpayeh, Faramarz Ashenai Ghasemi *, Valioallah Panahizadeh, Ismail Ghasemi Investigation and optimization of the tensile properties of nanocomposites based on polylactic acid/polyolefin elastomer: Using fuzzy inference system and particle swarm optimization method <i>Polymer Composites</i> , Volume 43, Issue 9, 2022, Pages 6521-6535. (JCR)
112	Mohammad Mosayyebi, Faramarz Ashenai Ghasemi *, Mohammad Aghaei Modified couple stress theory for wave propagation in viscoelastic sandwich microplates with FG-GPLRC core and piezoelectric face sheets as sensor and actuator <i>Waves in Random and Complex Media</i> , 10.1080/17455030.2022.2106387, 2022, Pages 1-44. (JCR)
111	Seyyed Sajad Mousavi Nejad Souq, Faramarz Ashenai Ghasemi , Mir Masoud Mir Fakhrabadi* Effects of various cross sections on elastoplastic behavior of Fe nanowires under tension/compression <i>Journal of Materials Engineering and Performance</i> , Volume 32, Issue 1, 2023, Pages 423-437. (JCR)
110	Pouya Rajaei, Faramarz Ashenai Ghasemi *, Mohammad Fasihi, Abuzar Fotoohi, Seyyed Ali Sajjadi Multi-response optimization of tensile and fracture properties of polypropylene/ethylene-vinyl acetate/exfoliated graphite by the design of experiment <i>Elastomers & Plastics</i> , Volume 54, Issue 6, 2022, Pages 1000-1024. (JCR)
109	Mahdi Vahdat, Faramarz Ashenai Ghasemi *, Mohammad Mosayyebi Strain gradient vibration analysis of piezoelectric composite microplate reinforced with FG-GPLs based on sinusoidal shear deformation theory <i>Mechanics Based Design of Structures and Machines</i> , Volume 51, Issue 12, 2023, Pages 6947-6975. (JCR)
108	Pouya Rajaei, Faramarz Ashenai Ghasemi *, Mohammad Fasihi, Alireza Sadeghi, Behnam Kakeh Effect of fumed silica and halloysite nanoparticles on the microstructure, mechanical, and fracture properties of thermoplastic polyolefin elastomer toughened polypropylene <i>Polymer Composites</i> , Volume 43, Issue 7, 2022, Pages 4495-4518. (JCR)
107	Alireza Sadeghi, Faramarz Ashenai Ghasemi *, Mohammad Fasihi, Pouya Rajaei Experimental analysis of tensile properties and essential work of fracture of fumed silica filled polypropylene toughened with thermoplastic polyolefin elastomer <i>Composite Materials</i> , Volume 56, Issue 16, 2022, Pages 2621-2638. (JCR)
106	Sajjad Daneshpayeh, Faramarz Ashenai Ghasemi *, Ismail Ghasemi Experimental investigation on mechanical properties of nanocomposites based on poly lactic acid/ polyolefin elastomer reinforced with multi-walled carbon nanotubes, and graphene nanoplatelets <i>Polymers and Polymer Composites</i> , Volume 30, 2022, Pages 1-13. (JCR)
105	Mohammad Mosayyebi, Faramarz Ashenai Ghasemi *, Mahdi Vahdat, Mohammad Aghaei Wave propagation of the viscoelastic FG-GPLRPC microplate via sinusoidal shear deformation theory (SSDT) and modified coupled stress theory (MCST) <i>Waves in Random and Complex Media</i> , doi.org/10.1080/17455030.2021.2024298, 2022, Pages 1-26. (JCR)
104	Mohammad Mosayyebi, Faramarz Ashenai Ghasemi *, Mohammad Aghaei, Mahdi Vahdat Analytical investigation of the refined zigzag theory for electro-magneto vibration response of the viscoelastic FG-GPLRC sandwich microplates <i>Mechanics Based Design of Structures and Machines</i> , Volume 51, Issue 10, 2023, Pages 5941-5967. (JCR)

103	Pouya Rajaei, Faramarz Ashenai Ghasemi* , Mohammad Fasihi Essential work of fracture analysis for surface modified carbon fiber/polypropylene composites with different interfacial adhesion” [<i>Polymer Composites</i> 41 (9) (2020): 3541–3551] <i>Polymer Composites</i> , Volume 43, Issue 3, 2022, Pages 1505-1507. (JCR)
102	Sajjad Daneshpayeh, Faramarz Ashenai Ghasemi , Ismail Ghasemi*, Valiollah Panahizadeh Achieve balanced stiffness and toughness properties of nanocomposites based on poly(lactic acid)/polyolefin by using fuzzy rule-based system <i>Express Polymer Letters</i> , Volume 16, Issue 2, 2022, Pages 152-170. (JCR)
101	Majid Nouri Kamari, Faramarz Ashenai Ghasemi , Gholam Hossein Rahimi Sherbaf, Kazem Reza Kashyzadeh Numerical simulation of CNG fuel tank behavior made of epoxy/glass composite in design mode considering constant and variable thicknesses under burst pressure test <i>Iranian Journal of Manufacturing Engineering</i> , Volume 8, Issue 7, 2021, Pages 20-30. (ISC) (In Persian)
100	Pouya Rajaei, Faramarz Ashenai Ghasemi* , Mohammad Fasihi, Nasrin Amini Microstructural analysis and multi-response optimization of mechanical properties of bulk molding compound <i>Polymer Composites</i> , Volume 43, Issue 1, 2022, Pages 593-607. (JCR)
99	Arash Mohammadi, Majid Shahgholi*, Faramarz Ashenai Ghasemi Nonlinear dynamic and bifurcations analysis of an axially moving circular cylindrical nanocomposite shell <i>International Journal of Mechanics and Materials in Design</i> , Volume 18, Issue 1, 2022, Pages 125-154. (JCR)
98	Seyyed Sajad Mousavi Nejad Souq, Faramarz Ashenai Ghasemi* , Mir Masoud Mir Fakhrabadi A comparative study of crack detection in nanobeams using molecular dynamics simulation, analytical formulations, and finite element method <i>Journal of Computational Applied Mechanics</i> , Volume 52, Issue 3, 2021, Pages 408-422. (Scopus)
97	Mohammad Reza Hadavi, Faramarz Ashenai Ghasemi* , Hassan Jafari Simulation of seawater corrosion effect on the fatigue life of 5083 MIG welded aluminum alloy after friction stir processing <i>Iranian Journal of Marine and Technology</i> , Volume 25, Issue 98, 2021, Pages 25-33. (ISC) (In Persian)
96	Arash Mohammadi, Faramarz Ashenai Ghasemi* , Majid Shahgholi Nonlinear vibration, stability, and bifurcation analysis of axially moving and spinning cylindrical shells <i>Mechanics Based Design of Structures and Machines</i> , Volume 51, Issue 7, 2023, Pages 4032-4062. (JCR)
95	Milad Zamanian, Faramarz Ashenai Ghasemi* , Mehrzad Mortezaei An efficient nanoscale representative volume element simulation including graded interphase for tensile behavior of epoxy/silica nanocomposites <i>Journal of Applied Polymer Science</i> , Volume 138, Issue 45, 2021, Pages 1-10. (JCR)
94	Meysam Nouri Niyaraki, Faramarz Ashenai Ghasemi* , Ismail Ghasemi, Sajjad Daneshpayeh Predicting of impact strength and elastic modulus of polypropylene/EPDM/graphene/glass fiber nanocomposites by response surface methodology <i>Technical Journal</i> , Volume 15, Issue 2, 2021, Pages 169-177. (ISI)
93	Hossein Abolhassanpour, Faramarz Ashenai Ghasemi , Majid Shahgholi*, Arash Mohammadi Nonlinear vibration analysis of an axially moving thin-walled conical shell <i>International Journal of Non-Linear Mechanics</i> , Volume 134, 103747, 2021, Pages 1-13. (JCR)
92	Hamidreza Talebi, Faramarz Ashenai Ghasemi* , Alireza Ashori The effect of nanocellulose on mechanical and physical properties of chitosan-based biocomposites <i>Elastomers & Plastics</i> , Volume 54, Issue 1, 2022, Pages 1-20. (JCR)
91	Mohammad Reza Hadavi, Hamed Yarmohammad Touski, Hassan Jafari*, Faramarz Ashenai Ghasemi Effect of Friction Stir Processing on Microstructure, Mechanical Properties, and Corrosion Fatigue Behavior of AA5083-H111 Metal Inert Gas Welded Joint <i>Journal of Materials Engineering and Performance</i> , Vol. 30, No. 8, 2021, Pages 5763-5772. (JCR)
90	Arash Mohammadi, Faramarz Ashenai Ghasemi* , Majid Shahgholi Forced Nonlinear vibration and bifurcation analysis of circular cylindrical nanocomposite shells using the normal form <i>International Journal of Non-Linear Mechanics</i> , Volume 134, 103733, 2021, Pages 1-20. (JCR)

89	Faramarz Ashenai Ghasemi*, Meysam Nouri Niyaraki, Ismail Ghasemi, Sajjad Daneshpayeh Predicting the tensile strength and elongation at break of PP/graphene/glass fiber/EPDM nanocomposites using response surface methodology <i>Mechanics of Advanced Materials and Structures</i> , Volume 28, Issue 10, 2021, Pages 981-989. (JCR)
88	Hossein Abolhassanpour, Faramarz Ashenai Ghasemi*, Majid Shahgholi, Arash Mohamadi Stability and vibration analysis of an axially moving thin walled conical shell <i>Journal of Vibration and Control</i> , Volume 28, Issue 13-14, 2022, Pages 1655-1672. (JCR)
87	Sajjad Daneshpayeh, Faramarz Ashenai Ghasemi*, Ismail Ghasemi The effect of nanoparticles shape on the mechanical properties of poly lactic acid matrix <i>Elastomers & Plastics</i> , Volume 53, Issue 6, 2021, Pages 684-697. (JCR)
86	Arash Mohammadi, Faramarz Ashenai Ghasemi*, Majid Shahgholi Stability analysis of an axially moving nanocomposite circular cylindrical shell with time-dependent velocity in thermal environments <i>Mechanics Based Design of Structures and Machines</i> , Volume 49, Issue 5, 2021, Pages 659-688. (JCR)
85	Mohsen Ayaz, Faramarz Ashenai Ghasemi, Valiollah Panahizadeh Rahimloo*, Saman Menbari Multi-response optimization of the mechanical properties of PP/talc/CaCO₃ ternary nanocomposites by the response surface methodology combined with desirability function approach <i>Elastomers & Plastics</i> , doi.org/10.1177/0095244318819184, 2018, Pages 1-20. (JCR)
84	Pouya Rajaei, Faramarz Ashenai Ghasemi*, Mohammad Fasihi, Mohammadhossein Saberian Experimental analysis and optimization of mechanical and physical properties of light-weight bulk molding compound by design of experiment <i>Journal of Macromolecular Science, Part B</i> , Volume 60, Issue 4, 2021, Pages 237-256. (JCR)
83	Mohammad Reza Hadavi, Faramarz Ashenai Ghasemi*, Hassan Jafari Experimental analysis of mechanical properties of MIG welded 5083 aluminum alloy after friction stir process <i>Iranian Journal of Marine and Technology</i> , Volume 24, Issue 96, 2021, Pages 1-10. (JCR) (In Persian)
82	Milad Zamanian, Faramarz Ashenai Ghasemi*, Mehrzad Mortezaei Interphase characterization and modeling of tensile modulus in epoxy/silica nanocomposites <i>Journal of Applied Polymer Science</i> , Volume 138, Issue 5, 2021, Pages 1-10. (JCR)
81	Sajjad Daneshpayeh, Faramarz Ashenai Ghasemi*, Shahnoosh Masoumi, Meysam Nouri Niyaraki Prediction of mechanical properties of quaternary nanocomposites based on polypropylene using fuzzy logic <i>Elastomers & Plastics</i> , Volume 53, Issue 1, 2021, Pages 14-30. (JCR)
80	Farzad Kolahdouzan, Mohammad Mosayyebi, Faramarz Ashenai Ghasemi, Reza Kolahchi*, Seyed Rouhollah Mousavi Panah Free vibration and buckling analysis of elastically restrained FG-CNTRC sandwich annular nanoplates <i>Advances in Nano Research</i> , Volume 9, Issue 4, 2020, Pages 237-250. (JCR)
79	Arash Mohamadi, Majid Shahgholi*, Faramarz Ashenai Ghasemi Nonlinear vibration of axially moving simply-supported circular cylindrical shell <i>Thin-Walled Structures</i> , Volume 56, 107026, 2020, Pages 1-25. (JCR)
78	Majid Nouri Kamari, Faramarz Ashenai Ghasemi*, Gholamhassan Rahimi Sherbaf, Kazem Reza Kashizadeh Effect of pin geometry on the mechanical strength of friction-stir-welded polypropylene composite plates <i>Mechanics of Composite Materials</i> , Volume 56, Issue 3, 2020, Pages 339-352. (JCR)
77	Amir Bakhtiari, Faramarz Ashenai Ghasemi, Ghasem Naderi, Mohammad Reza Nakhaei* An approach to the optimization of mechanical properties of polypropylene/nitrile butadiene rubber/halloysite nanotube/polypropylene-g-maleic anhydride nanocomposites using response surface methodology <i>Polymer Composites</i> , Volume 41, Issue 6, 2020, Pages 2330-2343. (JCR)
76	Asma Ghanbari, Hassan Jafari*, Faramarz Ashenai Ghasemi Wear behavior of biodegradable Mg-5Zn-1Y-(0-1) Ca magnesium alloy in simulated body fluid <i>Metals and Materials International</i> , Volume 26, Issue 3, 2020, Pages 395-407. (JCR)
75	Asma Ghanbari, Faramarz Ashenai Ghasemi*, Hassan Jafari Experimental analysis of wear behavior of a biocompatible bone implant <i>Mechanical Engineering Journal</i> , Volume 28, Issue 6, 2020, Pages 40-52. (ISC) (In Persian)

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2	S. M. R. Khalili*, F. Ashenai Ghasemi , A. Shokuhfar, K. Malekzadeh, N. Ehsani Dynamic response of shape memory polymer composite plate in low velocity large mass impact <i>International Conference on Composite Materials and nano-Structures (IC2MS-06)</i> , Concorde Hotel, Shah Alam, Selengor, Malaysia, April 25-29, 2006.
1	F. Khadem*, Faramarz Ashenai Ghasemi Using Lgrange-type k-0 elements for solving Fredholm integral equations of the second kind <i>International Conference, Dynamical Systems and Applications</i> , Turkey, July 5-10, 2004.

Present or Past Students Theses				
a) Ph.D. Students				
No.	Name	Thesis Title	Thesis Status	Position
18	Shabnam Bahadori Marghzar	Mechanical behavior of composite structures	2025-	
17	Sajjad Rezaie	Mechanical behavior of composite structures	2025-	
16	Samaneh Negahban	Mechanical behavior of composite structures	2024-	
15	Milad Karimi	Mechanical behavior of composite structures	2023-	Supervisor
14	Hossein Abolhassanpour	Mechanical behavior of composite structures	2020-Withdrawal	Supervisor
13	Iman Voghoofi	Mechanical behavior of composite structures	2020-	Supervisor
12	Mohammad Kazem Nikzad	Analysis of the effect of the type and shape of silica nanoparticles on the mechanical properties of nanocomposite with polylactic acid by laboratory method, molecular dynamics simulation and multi-scale modeling	2020-2025	Supervisor
11	Mohammad Sadegh Bagheri	Mechanical behavior of composite structures	2019-Withdrawal	Supervisor
10	Asma Ghanbari	Mechanical behavior of composite structures	2018-	Supervisor
9	Mohammad Mosayyebi	Vibration analysis of sandwich microplate sensors with magneto-rheological fluid core integrated with reinforced magnetostrictive layers by carbon nanotubes	2017-2024	Supervisor
8	Reza Paknejad	Analysis of low-velocity impact behavior of sandwich cylindrical shells containing fluid based on high-order shear deformation theory	2017-2023	Supervisor
7	Arash Mohammadi	Nonlinear vibration and stability analysis of a rotating axially moving circular cylindrical shell	2016-2020	Supervisor
6	Sajjad Daneshpayeh	Experimental Investigation and Optimization on Mechanical Properties of Nanocomposites based Polylactic Acid/Polyolefin Elastomer	2016-2022	Supervisor
5	Mohammad Reza Hadavi	Experimental and numerical analysis of corrosion-fatigue phenomenon of MIG welded and FSPed 5083 aluminum alloy in seawater	2015-2022	Supervisor
4	Seyyed Sajjad Mousavinejad Sough	The three-dimensional cracks in BCC crystal structures: a molecular dynamics simulation study to analyze the effect of the crack frontier	2015-2022	Supervisor

3	Majid Nouri Kamari	Mechanical behavior of composite structures	2014-2023	Supervisor
2	Milad Zamanian	Simulation and analysis of fracture toughness of epoxy-silica nanocomposites using multiscale modeling method	2013-2022	Supervisor
1	Amir Shekari	Mechanical behavior of sandwich structures	2013-Withdrawal	Supervisor

Present or Past Students Theses				
b) M. S. Students				
No.	Name	Thesis Title	Thesis Status	Position
67	Yaser Khodaverdizadeh	Mechanical behavior of composite structures	2025	
66	Amir Mohammad Bahrami	Mechanical behavior of composite structures	2025	
65	Mohammad Lashani Zand	Mechanical behavior of composite structures	2024	
64	Mohammad Reza Ahmadian	Mechanical behavior of composite structures	2023	
63	Mohammad Hemmati	Mechanical behavior of composite structures	2023	
62	Rahim Zarrin Ghalam	Mechanical behavior of composite structures	2023	
61	Mohammad Norouzi	Mechanical behavior of composite structures	2022	
60	Mohammad Ali Soofi Maleki	Mechanical behavior of composite structures	2022	
59	Allireza Roostae	Mechanical behavior of composite structures	2022	
58	Amin Kabki	Mechanical behavior of composite structures	2022	
57	Farshid Dalaki Nejad	Mechanical behavior of composite structures	2021	
56	Javad Ghaznavi	Mechanical behavior of composite structures	2021	
55	Seyyed Saied Abareh Dari	Mechanical behavior of composite structures	2021	

54	Mahmoud Nedaie Shekarab	Experimental analysis of mechanical properties and fracture behavior of un-vulcanized and dynamically vulcanized polypropylene/ethylene propylene diene monomer/ halloysite nanotube nanoparticles (PP/EPDM/HNT) nano-composites via the essential work of fracture (EWF) methodology	2020-2024	Supervisor
53	Mahdi Mahabadi	Experimental analysis of mechanical properties and fracture behavior of un-vulcanized and dynamically vulcanized polypropylene/ethylene propylene diene monomer/clay (PP/EPDM/Clay) nano-composites via the essential work of fracture (EWF) methodology	2020-2023	Supervisor
52	Seyyed Ali Sajjadi	Experimental analysis of fracture toughness of polyamide 6/ polyethylene octene grafted with maleic anhydride/ titanium dioxide ternary nanocomposite according to the essential work fracture method	2020-2023	Supervisor
51	Sadegh Hosseinjani	Study on mechanical behavior and essential work of fracture of Poly (lactic acid)/Thermoplastic polyurethane/halloysite ternary nano-composites	2019-2024	Supervisor
50	Hamid Kamalvand	Experimental analysis on the mechanical properties and microstructure of ternary nanocomposites of acrylonitrile butadiene styrene/styrene butadiene styrene/ halloysite nanotubes	2019-2023	Supervisor
49	Milad Souri Rudabadi	Experimental analysis on the microstructural, tensile, and fracture properties of biodegradable polylactic acid blended with thermoplastic corn starch filled with halloysite nanotubes	2019-2022	Supervisor
48	Behnam Kakeh	Analysis of fracture toughness and mechanical behavior of polypropylene / thermoplastic polyolefin elastomer / halloysite nanotubes nano-composites	2018-2022	Supervisor
47	Abuzar Fotoohi	Analysis of mechanical properties and fracture toughness of polypropylene based/ ethylene-vinyl acetate/ modified and unmodified exfoliated graphite filled nano-composites	2018-2022	Supervisor
46	Alireza Sadeghi	Analysis investigation on mechanical properties and fracture behavior of ternary nano-composites based on polypropylene/ TPO (thermoplastic polyolefin elastomers)/ fumed silica	2018-2021	Supervisor

45	Mahdi Vahdat	Vibration analysis in functionally graded plates reinforced with non-uniformly distributed graphene nanoplatelets (GPLs) based on strain gradient theory and sinusoidal plate theory	2017-2020	Supervisor
44	Hamidreza Talebi	Experimental analysis of mechanical and physical properties of chitosan biocomposites reinforced by nanocellulose	2017-2020	Supervisor
43	Mohammad Aghaie	Wave propagation analysis of functionally graded sandwich plates with non-uniform distributed graphene nanoplatelets (GPLs) using zigzag plate theory and modified couple stress theory	2017-2020	Supervisor
42	Hossain Aboulhossainpour	Nonlinear vibration and stability analysis of axially moving truncated conical shells	2017-2020	Supervisor
41	Poorya Poostan	Fabrication and analysis of composite bipolar plates with expanded graphite to increase conductivity of low temperature fuel cells	2016-2019	Supervisor
40	Asma Ghanbari	Investigation of the wear behavior of magnesium Mg-5Zn-1Y-xCa (x=0-1%) in simulated body fluid	2016-2018	Supervisor
39	Amir Bakhtiari	Investigation on mechanical properties of PP/NBR/HNT nanocomposites	2016-2018	Supervisor
38	Pouya Rajaei	Investigation on mechanical properties of polyester resin modified with SBR/ glass fibers/ fumed silica nanoparticles	2016-2018	Supervisor
37	Mohammad Hossain Saberian	Investigation on mechanical properties of epoxy resin/ XNBR/ graphene ternary nanocomposites	2015-2017	Supervisor
36	Mohammad Sadegh Bagheri	Experimental analysis of the mechanical properties of epoxy/ fiberglass/ nano-silica	2014-2017	Supervisor
35	Meysam Nouri Niaraki	The effect of graphene nanosheets and glass fibers on tensile and impact properties in polypropylene resin with EPDM elastomer	2014-2016	Supervisor
34	Mohammad Amin Foroutan Moharrami	Investigation on effects of welding process parameters on the mechanical properties of carbon steel-stainless dissimilar butt welded joints	2014-2016	Supervisor
33	Aram Osman Nejad	Experimental investigation of mechanical, thermal and physical properties of multiscale nanocomposites based on polypropylene/wood flour/ graphene	2013-2016	Supervisor
32	Fazel Fatemi	Improvement in mechanical properties of epoxy/ Kevlar/ modified graphene nanocomposites	2013-2016	Supervisor

31	Amin Ghorbani	Experimental analysis of mechanical properties of polypropylene/ glass fiber/ nano graphene nanocomposites	2013-2015	Supervisor
30	Saman Menbari	Comparison and experimental analysis of polypropylene/ talk graphene and polypropylene/ carbonate calcium/ graphene hybrid nanocomposites	2013-2015	Supervisor
29	Elghar Abdoullahi	Experimental analysis of mechanical behavior of composite plates in polymer fuel cells	2012-2015	Supervisor
28	Hossain Aliakbari	Experimental analysis of mechanical behavior of nano alumina based nanocomposites coatings on steel plates	2012-2015	Supervisor
27	Mahdi Basiri	Experimental analysis and optimization of polypropylene/graphene nanocomposites	2012-2015	Supervisor
26	Majid Siasari	Experimental and numerical analysis of mechanical properties of polypropylene/graphene nanocomposites	2012-2015	Supervisor
25	Gholamreza Bagheri	Experimental and numerical analysis of the tensile strength of the lateral notched aluminum plates reinforced by FML patches	2011-2014	Supervisor
24	Payam Rahmani	Experimental and numerical analysis of the buckling strength of the central notched aluminum plates reinforced by FML patches	2011-2014	Supervisor
23	Esmail Aligholizadeh Firozjaei	Experimental study of temperature effect on low-velocity impact response of notched aluminum plates repaired by FML composite patches	2011-2013	Supervisor
22	Ali Abedini Esfahlani	Mechanical behavior of composite structures	2010- Withdrawal	Supervisor
21	Ahmad Jafari	Experimental analysis of the effect of friction drilling parameters on AISI 4130	2010-2013	Supervisor
20	Hosssain Akbari	Prediction and investigation of defects of high strength aluminum in forward extrusion using FEM	2010-2013	Supervisor
19	Sajad Danesh Payeh	An analysis of mechanical properties of ternary nanocomposites based on polypropylene/ linear low density polyethylene/ nano titanium oxide	2010-2013	Supervisor
18	Mohammad Ali Khalili	Dynamic response of the curved sandwich beam subjected to low velocity radial impact using the equivalent spring mass model	2010-2013	Supervisor
17	Mahmoud Eslami Farsani	Experimental investigation of vibration behavior of PP/CaCo ₃ nanocomposite beams	2010-2013	Supervisor

16	Amir Hossain Roozbahani	Modeling of mixed mode fatigue crack growth in aluminum panels repaired with FML composite patches using the extended finite element method (X-FEM)	2009-2012	Supervisor
15	Adib Ghoraishi	Effect of nano-particle additives in properties and performance of metal forming	2009-2012	Supervisor
14	Kamel Azizpour	Experimental analysis of effect of friction stir welding parameters on mechanical properties of polypropylene nanocomposite butt joints	2009-2012	Co-Supervisor
13	Mahdi Rahmani	Experimental investigation of impact behavior of ternary nanocomposites based on polypropylene/ waste ground rubber tire powder/ nano-CaCO ₃	2009-2012	Supervisor
12	Hormoz Cheraghi	Analysis of mechanical properties of ternary nanocomposites based on polypropylene/ linear low density polyethylene/ nano CaCO ₃	2009-2012	Supervisor
11	Reza Paknejad	Dynamic response of cantilevered fiber metal laminates subjected to large-mass impact	2009-2012	Supervisor
10	Parvaneh Afshari	Experimental analysis of nanocomposites based on polypropylene/ waste ground rubber tire powder/ nano-clay	2009-2012	Supervisor
9	Rahim Bakhoday Paskiaby	Free vibration analysis of FML conical shells	2009-2012	Supervisor
8	Ahmad Fallah Rahmatabadi	Numerical and experimental analysis of tensile behavior of aluminum panels repaired with FML composite patches	2008-2012	Supervisor
7	Abbas Hyvadi	Numerical and experimental analysis of delamination in polymer composites drilling	2009-2012	Supervisor
6	Fatemeh Kordestani	Experimental analysis of mechanical properties of butt joint of friction stir welded polypropylene composites	2009-2012	Supervisor
5	Hedi Ahmadi	Experimental analysis of the effect of friction stir welding parameters on mechanical properties of polypropylene composite lap joints	2009-2012	Supervisor
4	Mohammad Rahmani Kalestan	Numerical and experimental analysis of mixed mode fatigue crack growth in aluminum panels repaired with FML composite patches	2008-2011	Supervisor
3	Lotfali Mozafari Vanani	Numerical and experimental investigations on the impact behavior of stiffened cracked aluminum plates repaired with FML composite patches	2008-2011	Supervisor
2	Mohammad Bagher Momeni	Experimental and numerical machining of AA 5083	2008-2011	Co-Supervisor

1	Masoud Saeidi Boroujeni	Experimental analysis of mechanical properties of friction stir welded thermoplastic composites	2007-2010	Supervisor
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International Carriers	
8	Journal Reviewer (Journal of Materials Processing Technology (JCR))
7	Journal Reviewer (Journal of Composite Structures (JCR))
6	Journal Reviewer (Journal of Polymer Composites (JCR))
5	Journal Reviewer (Journal of Intelligent Material Systems and Structures (JCR))
4	Journal Reviewer (Journal of Composite Materials (JCR))
3	Journal Reviewer (Journal of Materials Design (JCR))
2	Journal Reviewer (Journal of Composite Part B (JCR))
1	Journal Reviewer (Journal of Applied Mathematical Modeling (JCR))

Professional social media	
9	ORCID: http://orcid.org/0000-0002-4693-4373
8	Google Scholar: https://scholar.google.com/citations?user=8eCmonYAAAAJ&hl=en
7	Scopus ID: https://www.scopus.com/authid/detail.uri?authorId=22633600300
6	Publons: https://www.webofscience.com/wos/author/rid/F-5441-2012
5	LiveDNA: https://livedna.net/?dna=98.4452
4	ResearchGate: https://www.researchgate.net/profile/Faramarz-Ashenai-Ghasemi-2
3	Linkedin: https://www.linkedin.com/in/faramarz-ashenai-ghasemi-3492345b
2	Semantic Scholar Profile: https://www.semanticscholar.org/author/Faramarz-Ashenai-Ghasemi/46462481
1	Dana ISC ID: https://dana.isc.ac/res/2227168

Nonacademic Records	
4	Letter of Appreciation for Speech in “Enduring and Global Satire” from VP of Social and Cultural Affairs, June 2015
3	Letter of Appreciation for Speech in Publication Meeting in “Satire, Caricature and Humor” and Unveiling of the “Humorous-Satirical Works” Book from Scientific and Cultural Manager of Iran Pen Association, May 2015
2	Letter of Recognition from the First Iranian Press Festival, May 1994
1	TV and Magazines Journalist (1986-2001)

Nonacademic Books						
No.	Book Name	Writer	Translators	Publisher	Pub. No.	Pub. Year
1	Humorous-Satirical Works	Faramarz Ashenai Ghasemi	Abbas Ahmadi, Zahra Mirakhorli, Zohreh Mosanna	Supreme Century	First	2014