1-Personal Information:



Name: Bashir	Last Name: Behjat
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Address: Department of Mechanical Engineering, Sahand University of Technology, Tabriz, Iran

Research Interest: Composite Materials, Repaire of Structures, Auxetic Materials, Fracture Mechanics, adhsively bonded joints, FEM, Impact Mechanics

Google Scholar link:

"https://scholar.google.com/citations?user=o1uaDvMAAAAJ&hl=en"

2-Degree:

Degree	Field	Instituation	year
BSc	Mechanical Engineering, Solid Mechanics	Amirkabir University of Technology	2005
MSc	Mechanical Engineering, Solid Mechanics	Amirkabir University of Technology	2007
PhD	Mechanical Engineering, Solid Mechanics	University of Tabriz	2011

Phd Thesis Name: Developing of new nonlinear finite element method to analysis of Piezolectric structures

3-Projects:

Name	year
Health monitoring of adhesive joints using vibration analysis	2025
Investigation of performance, applications, manufacturing methods, limitations,	2025
advantages and disadvantages of air bearings, and feasibility of producing these	
components.	
Prevention of crack growth in mixed-mode failure using adhesive patch under	2024
dynamic loading	
Investigating the effect of aging on the mechanical properties of GFRP	2024
composites	
Repair metod for damaged composite structures in mixed mode loading using	2023
adhesive bonding patches	
Design and manufacturing of servoelectro-mechanical Universal tensile machine	2021
Analysis, design and manufacturing of condenser microphons	2018
Design and manufacturing of 3DOF PUMA robot	2012

4-Patents:

i i atento:	
Name	year
Prevention of crack growth in structures and mechanical parts by using curved grooves	2025
Design and manufacturing of new mixed mode fracture fixture	2024
New single lap adhesively bonded joints using adhesive holes as a stiffenner	2023
New layered adhesively bonded joints	2023

5-PhD and MSc thesis

Degree	title	year
PhD	Experimental And Numerical Investigation Of The Creep Behavior Of Graphene	2020
	Nano Platelets (Gnps) Reinforced Adhesively Bonded Joints	
PhD	Experimental Investigation On Low Cycle Fatigue Life Of Reinforced Epoxy	2020
	Adhesive By Nanoparticles	
PhD	Analysis Of Functionally Graded Piezoelectric Plates Considering Geometrically	2019
	Nonlinear Using Mesh-Free Methods	
MSc	The effect of composite patch repaire on the Impact behavior of cracked	2025
	Aluminum smaples	
MSc	The effect of geometryc and manufacturing parameters ont the impact behavior of	2025
	Aluminum and PLA Auxetic structures	
MSc	Repair of damaged UAV composite airfoil using adhesive bonding patches	2024

MSc MSc MSc	using new fixture investigation of effective parameters on the tensile behavior of hybrid (adhesive- rivet) bonded joints whit composite- metal adherent's Investigation the effect of the loading rate on the fracture behavior of adhesively bonded joints under mixed mode conditions Investigating The Effect Of 2-D Defects On Tensile And Creep Behavior Of Single-Lap Ceramic-Metal Adhesive Joints Parametric Study Of Creep Behavior Of Adhesive Bonded Joints	2023 2022 2021 2020
MSc	bonded joints under mixed mode conditions Investigating The Effect Of 2-D Defects On Tensile And Creep Behavior Of Single-Lap Ceramic-Metal Adhesive Joints Parametric Study Of Creep Behavior Of Adhesive Bonded Joints	2021
	Single-Lap Ceramic-Metal Adhesive Joints Parametric Study Of Creep Behavior Of Adhesive Bonded Joints	
MSc		2020
		1
MSc	Investigation Of The Effects Of Nano Graphene Additive On The Mixed Mode Fracture Behavior Of Adhesive	2020
MSc	Investigation Of Creep Behavior Of Adhesive Bonded Joints Considering The Effects Of Carbon Nano Tubes	2019
MSc	Static investigation of piezoelectric beams using mesh free method	2018
MSc	Vibration behaviour investigation of functionally graded piezoelectric plates	2018
MSc	Investigation of nanotube addetives on the tensile behavior of hubrid joints	
MSc	Investigation on functionally graded piezoelectric beams under thermal loads	
MSc	Bending analysis of functionally graded plate using meshfree method with different boundary conditions	2017
MSc	Buckling analysis of nanoplates considering nonlocal effects	2016
MSc	numerical investigations of composite shells under explosive loading	2016
MSc	Bendig analysis of nanoplate considering nonlocal effects	2016
MSc	Bending analysis of nanobeam considering nonlocal effects and Van der Waals forces	2015
MSc	Bending analysis of functionally graded beam using meshfree method with different boundary conditions	2015
MSc	Analysis of functionally graded piezoelectric plates under mechanical, electrical and thermal loads	2015

6- Papers:

Year	Title	Journal/Conrefence
		Name
2025	Comprehensive Study on the Pure and I–II–III Mixed Mode Fracture of	Iranian Journal of
	Aluminum Using New Developed General Fixture	Science and
		Technology, Tran.of
		Mech. Eng.
2025	Assessment of geometric parameters on the tensile behavior of hybrid	Polymer
	(rivet-adhesive) aluminum-composite joints	Composites
2024	Geometrically nonlinear analysis of composite piezoelectric plates using	Quarterly Journal of
	meshfree RPIM with a new layerwise approach	Mechanics and
		Applied
		Mathematics

2024	The effect of loading rate on mixed mode I/II fracture behavior of	Theoretical and
	adhesively bonded joints: Experimental and numerical approach	Applied Fracture
		Mechanics
2024	Static and natural frequency investigation of FGP beams considering	Journal of
	thermal effects and design parameters	Engineering and
		Applied Science
2023	Experimental investigation of the effects of adhesive defects on the	••
	strength and creep behavior of single-lap adhesive joints at various	The Journal of
	temperatures	Adhesion
2023	The effect of graphene and graphene oxide on defective single lap	Journal of
	adhesively bonded joints	Composite
		Materials
2022	Effect of adhesive and nanocomposite layers on lap shear strength of	Journal of Adhesion
2022	layup bonded joints	Science and
	lay up conded joints	Technology
2022	Experimental investigation of the effect of functionalized graphene	Journal of
2022	oxide on the mechanical properties of epoxy adhesive	Mechanical
	oxide on the incenamear properties of epoxy addresive	Engineering
2021	Effect of reduced graphene oxide on mechanical behavior of an epoxy	Journal of
2021	adhesive in glassy and rubbery states	Composite
	adhesive in glassy and fuodely states	Materials
2021	Cusan hahaviaya afa amanhana mainfanaad anayyya dhaaiyyaly handad	The Journal of
2021	Creep behaviour of a graphene-reinforced epoxy adhesively bonded	
2021	joint: experimental and numerical investigation	Adhesion
2021	An experimental investigation on low-cycle fatigue behavior of GO-	Proceedings of the
	NH ₂ -reinforced epoxy adhesive	Institution of
		Mechanical
2020		Engineers, Part L
2020	A new theoretical creep model of an epoxy-graphene composite based	Journal of
	on experimental investigation: effect of graphene content	Composite
2020		Materials
2020	Static analysis of functionally graded piezoelectric plates under electro-	Journal of Stress
	thermo-mechanical loading using a meshfree method based on RPIM	Analysis
2019	The impact of graphene nanoparticle additives on the strength of simple	Journal of
	and hybrid adhesively bonded joints	Composite
		Materials
2019	Geometrically nonlinear analysis of functionally graded piezoelectric	J. Engineering
	plate using mesh-free RPIM	Analysis with
		Boundary Element
2018	Finite element study on thermal buckling of functionally graded	Journal of
	piezoelectric beams considering inverse effects	Theoretical and
		Applied Mechanics
2018	Free vibration and buckling investigation of piezoelectric nano-plate in	Journal of the
	elastic medium considering nonlocal effects	Brazilian Society of
		Mechanical
		Sciences and
		Engineering
2017	Optimum response of functionally graded piezoelectric plates in thermal	Materials Science-
	environments	Poland
2017	Investigation of boundary condition effects on the stability of FGP	Journal of
	beams in thermal environment	Theoretical and
		Applied Mechanics
	I	1 1 Ppinea Triconamics

2016	Design Criteria for Functionally Graded Piezoelectric Plates under	J. Intelligent
	Thermo-Electro-Mechanical loadings	Material systems
	C	and Structures
2017	Optimum response of functionally graded piezoelectric plates in thermal	J. Material Science-
	environments	Poland
2016	Three-dimensional analysis of thick functionally graded piezoelectric	Composite
	plate using EFG method	Structures
2018	Finite element study on thermal buckling of functionally graded	J. Theoretical and
	piezoelectric beams considering inverse effects	Applied
		Mathematics
2012	Geometrically Nonlinear Static and free Vibration Analysis of	Composite
	Functionally Graded Piezoelectric Plates	Structures
2010	Static, Dynamic and Free Vibration Analysis of Functionally Graded	J. Intelligent Mat.
	Cylindrical shells	Syst. And struc.
2011	Numerical Fluid Structural Interface Analysis in Condenser	J. Mechanical
	Microphone Design	Science and
		Technology
2011	Static and dynamic analysis of functionally graded piezoelectric plates	J. Scientia Iranica
	under mechanical and electrical loading	
2010.	Static, Free Vibration and Dynamic Analysis of Functionally Graded	Iranian J. of Mech.
	Piezoelectric Beams under Thermal Loads	Eng. Transactions
		of the ISME,
2009	Static and Dynamic Analysis of FGM panels with piezoelectric Layers	Twelfth
	under Mechanical and Electrical Loadings,	International
		Conference on
		Civil, Structural
		and Environmental
		Engineering
2000		Computing,
2008	Study of mixed boundary condition on natural frequency and dynamic	16 th inter. Conf. on
	response of FG plate	mechanical
2010		engineering(ISME),
2010	analysis of condenser microphones using Nonlinear FEM	12th biannual
		conference at
		mechanical
2010	Manlingan Analysis of Experience Constant Landington Constant	engineering,
2010	Nonlinear Analysis of Functionally Graded Laminates Considering Piezoelectric Effects	J. Mechanical
	FIEZOEIECUIC EHECIS	Science and
2011	Study of piezoelectric plotes considering electro machanical counting	Technology
2011	Study of piezoelectric plates considering electro-mechanical coupling	Journal of Central
		South University of
		Technology

7-Softwares:

Ansys Workbench, Abaqus, MATLAB, Microsoft Office