



MEHDI MOHAMMADIMEHR

TEL: 00983155913432

Fax: 00983155912424

E-MAIL: mmohammadimehr@kashanu.ac.ir

ADDRESS: Department of Solid Mechanics, Faculty of
Mechanical Engineering, University of Kashan,
Ghotbe Ravandi Blvd, Kashan, Iran.

P.O.Box. 87317-53153.

BIRTH DATA: 22 April 1979

AREA OF INTEREST: Elasticity; Plasticity; Continuum mechanics; Nano and micromechanics; Composite, nano and microcomposite materials; Functionally graded materials (FGMs); Smart materials; Beams, plates and shells theories; Buckling, postbuckling and vibration analyses of carbon nanotubes (CNTs) and boron nitride nanotubes (BNNTs); Numerical method such as finite element method (FEM), differential quadrature method (DQM), Galerkin and Rayleigh-Ritz methods.

EDUCATION:

1. Ph. D. in Mechanical Engineering (Applied Design), (22 May 2010).
Shahid Bahonar University of Kerman, Kerman, Iran.
2. Master of Science in Mechanical Engineering, (16 Sep 2004)
Shahid Bahonar University of Kerman, Kerman, Iran.
3. Bachelor of Science in Mechanical Engineering, (29 Jan 2002)
University of Kashan, Kashan, Iran.

Research History

A. Thesis

1. **M. Mohammadimehr**, 22 May 2010, “Buckling Analysis of Carbon Nanotube using Nonlocal Elasticity Theory”, I received Ph. D. Dissertation under the Supervisor of prof. A. R. Saidi and the Advisor of Prof. A. Ghorbanpour Arani and Prof. Qiang Han.
2. **M. Mohammadimehr**, 16 Sep 2004, “Sensitivity Analysis and Optimization of Vibration Behavior of Shell Elements using Approximation Method”, MSc Thesis under the Supervision of Late Dr F. Aryana.
3. **M. Mohammadimehr**, 29 Jan 2002, “Design and Making of One Dimensional Robot under Control with Computer”, BSc Final Project under the Supervision of Dr S. Golabi .

B. Research Papers (ISI Journals)

- 1) Erfan Arabzadeh-Ziari, **Mehdi Mohammadimehr**, Abbas Loghman, Mohammad Arabzadeh-Ziari, Mohsen Asgari, Fatemeh Bargozini, Experimental mechanical performance and optimized micromechanical modeling of almond and pistachio bio-waste-reinforcement glass-epoxy composites, **Next Materials**, **2026**, **Vol. 13**, **article number: 102914**. <https://doi.org/10.1016/j.nxmte.2026.102914>.
- 2) Mahsa Pahlavanzadeh, **Mehdi Mohammadimehr**, Mohsen Irani-Rahaghi, Forced vibration and fatigue analysis of sandwich composite rods for material optimization in wind turbine vortex generators based on a new higher order beam theory, **Discover Mechanical Engineering**, **2026**, **Vol. 5**, **Issue 1**, **article number: 114**. <https://doi.org/10.1007/s44245-026-00297-6>.
- 3) Hossein Amini-Sedeh, **Mehdi Mohammadimehr**, Alireza Hariri, Fatemeh Bargozini, Refined thermal stress and buckling analyses of a sandwich beam with different types of face sheets and cores using higher-order shear deformation theory, **Fibers and Polymers**, **2026**, **Vol. 27**, **pp. 3965-3976**. <https://doi.org/10.1007/s12221-026-01463-z>.
- 4) Mohammadbagher Zahirian, **Mehdi Mohammadimehr**, Mobin Pourvaghar, Bending and buckling of a sandwich composite Reddy beam with two types auxetic cores based on finite element method, **Materials Today Communications**, **2026**, **53**, **article number: 115312**. <https://doi.org/10.1016/j.mtcomm.2026.115312>.
- 5) Mohammadjavad Jafari, **Mehdi Mohammadimehr**, Frequency and vibration responses of a magneto-rheological sandwich micro-beam based on modified couple stress theory and finite difference method, **Applied Mathematics and Mechanics**, **2026**, **Vol. 47**, **Issue 7**, **pp. 1581-1602**. <https://doi.org/10.1007/s10483-026-3405-7>

- 6) Amirmasoud Rahimijonoush, **Mehdi Mohammadimehr**, Experimental and simulation of quasi-static indentation loading and low-velocity impact on reinforced fiber metal laminates, **Journal of Composite Materials**, 2026, <https://doi.org/10.1177/002199832614499>.
- 7) Behnam Mokhtarian Dehkordi, **Mehdi Mohammadimehr**, Forced vibration response of a sandwich cantilever nine-layer microbeam with homogeneous core reinforced by nanocomposite and piezo-magneto-electric layers as a self-sensing mass sensor, **Mechanics of Advanced Composite Structures**, 2026, <https://doi.org/10.22075/mac.2026.38727.1909>.
- 8) Mohammadjavad Jafari, **Mehdi Mohammadimehr**, Active control and forced vibrations of a smart sandwich viscoelastic micro beam resting on Vlasov's foundation based on MCST, **International Journal of Mechanics and Materials in Design**, 2026, Vol. 22 Issue 2, article number: 93. <https://doi.org/10.1007/s10999-026-09879-4>.
- 9) Fatemeh Bargozini, **Mehdi Mohammadimehr**, Ali Ghorbanpour Arani, Thermal buckling of a sandwich piezo-electric porous FG beam on Vlasov's foundation with various boundary conditions, **Archive of Applied Mechanics**, 2026, Vol. 96, Issue 2, article number: 49. <https://doi.org/10.1007/s00419-026-03043-2>.
- 10) Shima Mohammadian, **Mehdi Mohammadimehr**, Mohsen Irani-Rahaghi, Fatemeh Bargozini, Deflection and buckling of a sandwich curve beam with variable cross-section using fifth-order shear deformation theory with FEM: a piezoelectric layer, hierarchical and and conventional honeycomb core, **Mechanics Based Design of Structures and Machines**, 2026, Vol. 54, Issue 1. <https://doi.org/10.1080/15397734.2026.2614989>.
- 11) Saeed Yavari, **Mehdi Mohammadimehr**, Mojtaba Mehrabi, Fatemeh Bargozini, Vibration characteristics of piezo-electromagnetic annular plates with hierarchical auxetic and porous cores via Chebyshev-Ritz method, **Mechanics of Composite Materials**, 2026, Vol. 62, Issue 1, pp. 110-127. <https://doi.org/10.1007/s11029-026-10351-9>.
- 12) Mahan Dashti Gohari, **Mehdi Mohammadimehr**, On multi-criteria optimization of DVAs in vibration control of 2-DOF systems: Parsimonious FRF shaping of DVAs via a singular criterion and genetic algorithm optimization, **Modares Mechanical Engineering**, 2026, Vol. 26, Issue 9, pp. 707-724. <https://doi.org/10.48311/mme.2025.96920.0>. ID: 24445.
- 13) Mohammad Safari, **Mehdi Mohammadimehr**, Hossein Ashrafi, Fatemeh Bargozini, Forced Vibration of Polymeric Reddy Plate Reinforced with GPL/CNT/GOri Face Sheets and Honeycomb Cores by Considering Thermo-Electro-Magneto-Mechanical Preloads, **Advances in Applied Mathematics and Mechanics**, 2026, Vol. 18, Issue 6, pp. 1804-1837. <https://doi.org/10.4208/aamm.OA-2024-0100>.

- 14) Mohammadbagher Zahirian, **Mehdi Mohammadimehr**, Mobin Pourvaghar, Vibration of five-layered sandwich beam with foam/GOAM cores and fiber-reinforced polymer composite face sheet/intermediate layers, **Mechanics Based Design of Structures and Machines**, 2026, Vol. 54, Issue 1, 2535521. <https://doi.org/10.1080/15397734.2025.2535521>.
- 15) A Rahimijonoush, M Honarpisheh, A Abdollahi, **Mehdi Mohammadimehr**, Experimental investigation of residual stress measurement on cold roll bonded Al/Cu composite by incremental hole-drilling method, **Mechanics of Advanced Composite Structures**, 2026, Vol. 13, Issue 27, pp. 1-11. <https://doi.org/10.22075/mac.2025.34303.1682>.
- 16) Pooya Nikbakhsh, **Mehdi Mohammadimehr**, Fatemeh Bargozini, Vibration of a sandwich plate with FG porous and auxetic cores and piezo-electro-magnetic face sheets, **Physical Mesomechanics**, 2025, Vol. 28, Issue 6, pp. 851–869. <https://doi.org/10.1134/S1029959924601933>.
- 17) Mahsa Pahlevanzade, Mohsen Irani Rahaghi, **Mehdi Mohammadimehr**, Optimal vibration control of bladeless wind power generators, **Sharif Journal of Mechanical Engineering**, 2025, Vol. 41 Issue 2, pp. 137-150. <https://doi.org/10.24200/j40.2025.67390.1743>.
- 18) Sona Hanifehlou, **Mehdi Mohammadimehr**, Fatemeh Bargozini, Vibration analysis of porous sandwich beam reinforced by graphene platelets/graphene origami auxetic metamaterials using sinusoidal shear deformation theories in thermal environment, **Discover Applied Sciences**, 2025, Vol. 7, article number: 1436. <https://doi.org/10.1007/s42452-025-08058-y>.
- 19) Mahan Dashti Gohari, **Mehdi Mohammadimehr**, Ömer Civalek, Surrogate-assisted peak-slope optimization of dynamic vibration absorbers, **Journal of Computational Applied Mechanics**, 2025, Vol. 56, Issue 4, pp. 838-862, <https://doi.org/10.22059/jcamech.2025.398706.1552>.
- 20) Fatemeh Bargozini, **Mehdi Mohammadimehr**, The experimental and numerical results of a spinning/whirling composite thick-beam of glass fibers reinforced with CNR based on SSDT and neutral axis with electric field, **International Journal of Lightweight Materials and Manufacture**, 2025, Vol. 8, Issue 5, pp. 669-680, <https://doi.org/10.1016/j.ijlmm.2025.05.003>
- 21) Mohammad Ali Mohammadimehr, Abbas Loghman, Saeed Amir, **Mehdi Mohammadimehr**, Ehsan Arshid, Ömer Civalek, Magneto-electro vibration analysis of a moderately thick double-curved sandwich panel with porous core and GPLRC using FSDT, **Journal of Computational Applied Mechanics**, 2025, Vol. 56, Issue 3, pp. 673-693, <https://doi.org/10.22059/jcamech.2025.395958.1491>
- 22) Iman Shaterzadeh-Chaharsooghi, **Mehdi Mohammadimehr**, Fatemeh Bargozini, Vibration and buckling of a laminated nano-composite truncated conical micro sandwich shell with balsa wood/Aluminum honeycomb cores, **Iranian Journal of Science and Technology, Transactions of**

Mechanical Engineering, 2025, Vol. 49, pp. 1791-1811. <https://doi.org/10.1007/s40997-025-00876-0>.

23) Mojtaba Charekhli-Inanllo, **Mehdi Mohammadimehr**, Fatemeh Bargozeni, Buckling and vibration analysis of composite sandwich structures with various shape cores manufactured by FDM: theoretical and experimental results, **Progress in Additive Manufacturing**, 2025, Vol. 10, Issue 10, pp. 8321-8343. <https://doi.org/10.1007/s40964-025-01121-5>

24) Mohammad Ali Mohammadimehr, Abbas Loghman, Saeed Amir, **Mehdi Mohammadimehr**, Ehsan Arshid, Vibration behavior of a thick double-curved sandwich panel with auxetic core and carbon nanotube reinforced composite based on TSDDCT and NSGT, **Acta Mechanica**, 2025, Vol. 236, pp. 2967–3000, <https://doi.org/10.1007/s00707-025-04302-z>

25) Amirmasoud Rahimijonoush and **Mehdi Mohammadimehr**, The effect of nanoparticles on cold roll bonded fiber metal laminates under high-velocity impact: experimental and numerical approaches, **Journal of the Brazilian Society of Mechanical Sciences and Engineering**, 2025, Vol. 47, Issue 4, article number: 183, <https://doi.org/10.1007/s40430-025-05486-0>

26) Seyed Amir Sajadian, **Mehdi Mohammadimehr**, Mohsen Irani Rahaghi, Vibration response of a sandwich higher-order micro beam based on shear and normal deformation theory on Kerr elastic foundation with thickness stretching effect, **Mechanics of Advanced Composite Structures**, 2025, 12 (3), 645-670, <https://doi.org/10.22075/mac.2025.35667.1749>

27) Mohammadjavad Jafari, **Mehdi Mohammadimehr**, Forced vibration control of Timoshenko's micro sandwich beam with CNT/GPL/CNR reinforced composites integrated by piezoelectric on Kerr's elastic foundation using MCST, **Journal of Computational Applied Mechanics**, 2025, Vol. 56, Issue 1, pp. 15-42, <https://doi.org/10.22059/jcamech.2024.383880.1256>.

28) Ahmad Ali Monajemi, **Mehdi Mohammadimehr**, Fatemeh Bargozeni, Dynamic analysis of a spinning visco-elastic FG graphene platelets reinforced nanocomposite sandwich cylindrical shell with MRE core, **Acta Mechanica**, 2024, Vol. 235, Issue 12, pp. 7497-7530, <https://doi.org/10.1007/s00707-024-04077-9>.

29) Mohammadjavad Jafari, **Mehdi Mohammadimehr**, Active control for higher order micro sandwich beam with various cores integrated by piezoelectric layers based on MSGT on the Pasternak foundation, **Journal of Vibration and Control**, 2024, <https://doi.org/10.1177/10775463241291126>

30) Fatemeh Shirdelan, Mehdi Mohammadimehr, Fatemeh Bargozeni, Control and vibration analyses of a sandwich doubly curved micro-composite shell with honeycomb, truss, and corrugated cores based on the fourth-order shear deformation theory, **Applied Mathematics and Mechanics**, 2024, Vol. 45, Issue 10, pp. 1773-1790, <https://doi.org/10.1007/s10483-024-3175-6>.

- 31) Vahid Motalebi, **Mehdi Mohammadimehr**, Fatemeh Bargozini, Vibration response of sandwich plate reinforced by GPLs/GOAM, **Mechanics Research Communications**, 2024, Vol. 141, pp. 104334, <https://doi.org/10.1016/j.mechrescom.2024.104334>.
- 32) Mohsen Asgari, Mehdi Mohammadimehr, Mohammad Arabzadeh-Ziari, Erfan Arabzadeh-Ziari, Static Bending, Vibration, and Buckling Responses of a Sandwich Beam Composed of Five Layers Considering Honeycomb Core and CNTRC with SMA Particles and Temperature-Dependent Material Properties Using SSDT, 2024, Mechanics of Advanced Composite Structures, Publish Online from 12 August 2024, 10.22075/MACS.2024.33537.1622.
- 33) **Mehdi Mohammadimehr**, The effect of a nonlocal stress-strain elasticity theory on the vibration analysis of Timoshenko sandwich beam theory, **Advances in Nano Research**, 2024, Vol. 17, No. 3, pp. 275-284. <https://doi.org/10.12989/anr.2024.17.3.275>.
- 34) Mahsa Pahlavanzadeh, **Mehdi Mohammadimehr**, Mohsen Irani-Rahaghi & Seyed Mojtaba Emamat, Vibration response on the rod of vortex bladeless wind power generator for a sandwich beam with various face sheets and cores based on different boundary conditions, Mechanics Based Design of Structures and Machines, 2024, <https://doi.org/10.1080/15397734.2024.2391920>.
- 35) E. Arabzadeh-Ziari, **Mehdi Mohammadimehr**, M. Arabzadeh-Ziari, M. Asgari, Vibration, bending, and buckling of a seven-layer sandwich beam with Balsa core reinforced by nanocomposite and shape memory alloy face sheets using piezoelectromagnetic layers, **Arabian Journal for Science and Engineering**, 2024, <https://doi.org/10.1007/s13369-024-09491-8>.
- 36) Alireza Noruzi, **Mehdi Mohammadimehr**, Fatemeh Bargozini, Experimental and theoretical results for bending and buckling of a five-layer sandwich plate reinforced by carbon nanotubes/carbon nanorods/graphene platelets/shape memory alloy based on RFSDT, **Archive of Applied Mechanics**, 2024, Vol. 94, pp. 2151-2173, <https://doi.org/10.1007/s00419-024-02630-5>
- 37) Mohammad Ali Mohammadimehr, Abbas Loghman, Ali Ghorbanpour Arani, **Mehdi Mohammadimehr**, A Vibration Analysis of a Thick Micro Sandwich Panel with Metamaterial or Porous Core and Carbon Nanotubes/Graphene Platelets Reinforced Composite Based on HSDT and NSGT, **Multiscale Science and Engineering**, 2024, <https://doi.org/10.1007/s42493-024-00115-9>.
- 38) Alireza Noruzi, **Mehdi Mohammadimehr**, Fatemeh Bargozini, Experimental free vibration and tensile test results of a five-layer sandwich plate by comparing various carbon nanostructure reinforcements with SMA, **Heliyon**, 2024, Vol. 10, e31164.

- 39) Morteza Kolooli Mogehi, **Mehdi Mohammadimehr**, Nguyen Dinh Duc, Vibration analysis of a sandwich Timoshenko beam reinforced by GOAM/ CNT with various boundary conditions using VIM, **Materials Science & Engineering B**, 2024, Vol. 304, pp. 117364.
- 40) M. Arabzadeh-Ziari, Mehdi Mohammadimehr, E. Arabzadeh-Ziari, M. Asgari, Deflection, buckling and vibration analyses for a sandwich nanocomposite structure with foam core reinforced with GPLs and SMAs based on TSDBT, **Journal of Computational Applied Mechanics**, 2024, Vol. 55, No. 2, pp. 289-321.
- 41) F. Bargozini, **Mehdi Mohammadimehr**, The theoretical and experimental buckling analysis of a nanocomposite beams reinforced by nanorods made of recycled materials, **Polymer Composites**, 2024, Vol. 45, pp. 3327-3342.
- 42) Mohsen Emdadi, **Mehdi Mohammadimehr**, Fatemeh Bargozini, Vibration of a Nanocomposite Annular Sandwich Microplate Based on HSDT Using DQM, **Multiscale Science and Engineering**, 2024, Vol. 15, 180–194, <https://doi.org/10.1007/s42493-024-00096-9>.
- 43) Ahmad A. Monajemi, **Mehdi Mohammadimehr**, Stability analysis of a spinning soft-core sandwich beam with CNTs reinforced metal matrix nanocomposite skins subjected to residual stress, **Mechanics Based Design of Structures and Machines**, 2024, Vol. 52, No. 1, pp. 338–358.
- 44) Fatemeh Bargozini, **Mehdi Mohammadimehr**, Elmuez A. Dawi, Masoud Salavati-Niasari, Buckling of a sandwich beam with carbon nano rod reinforced composite and porous core under axially variable forces by considering general strain, **Results in Engineering**, 2024, Vol. 21, pp. 101945.
- 45) Ashkan Farazin, **Mehdi Mohammadimehr**, Hossein Naeimi, Fatemeh Bargozini, Design, fabrication, and evaluation of green mesoporous hollow magnetic spheres with antibacterial activity, **Materials Science & Engineering B**, 2024, Vol. 299, pp. 116973.
- 46) Nasim Miralaei, **Mehdi Mohammadimehr**, Ashkan Farazin, Amir Hossein Ghasemi, Fatemeh Bargozini, Design, fabrication, evaluation, and in vitro study of green biomaterial and antibacterial polymeric biofilms of polyvinyl alcohol/tannic acid/CuO/ SiO₂, **Journal of the Mechanical Behavior of Biomedical Materials**, 2023, Vol. 106, pp. 106219.
- 47) Kazem Alambeigi, **Mehdi Mohammadimehr**, Mostafa Bamdad, An analytical study on free vibration of magneto electro micro sandwich beam with FG porous core on Vlasov foundation, **Advances in Nano Research**, 2023, Vol. 15, No.5, pp. 423-439.
- 48) Mohsen Emdadi, **Mehdi Mohammadimehr**, Borhan Rousta Navi, The surface stress effects on the buckling analysis of porous microcomposite annular sandwich plate based on HSDT using Ritz method, **Computers and Concrete**, 2023, Vol. 32, No. 5, pp. 439-454.

- 49) Mojtaba Charekhli-Inanllo, **Mehdi Mohammadimehr**, The effect of various shape core materials by FDM on low velocity impact behavior of a sandwich composite plate, **Engineering Structures**, 2023, Vol. 294, pp. 116721.
- 50) Mohammad Safari, **Mehdi Mohammadimehr**, Hossein Ashrafi, Forced vibration of a sandwich Timoshenko beam made of GPLRC and porous core, **Structural Engineering and Mechanics**, 2023, Vol. 88, No. 1, pp. 1-12.
- 51) Ashkan Farazin, **Mehdi Mohammadimehr**, Hossein Naeimi, Flexible self-healing nanocomposite based gelatin/tannic acid/acrylic acid reinforced with zinc oxide nanoparticles and hollow silver nanoparticles based on porous silica for rapid wound healing, **International Journal of Biological Macromolecules**, 2023, Vol. 241, pp. 124572.
- 52) Fatemeh Bargozini, **Mehdi Mohammadimehr**, Elmuez A Dawi, Rozita Monsef, Zahra Heydariyan, Masoud Salavati-Niasari, Development and performance analysis of a 316 stainless steel autoclave for facile fabrication of carbon nanoarchitectures derived from natural potato and starch, **Journal of Materials Research and Technology**, 2023, Vol. 23, pp. 3126-3136.
- 53) Ali Ghorbanpour Arani, Nasim Miralaei, Ashkan Farazin, **Mehdi Mohammadimehr**, An extensive review of the repair behavior of smart self-healing polymer matrix composites, **Journal of Materials Research**, 2023, Vol. 38, No. 3, pp. 617-632.
- 54) Masood Honarpisheh, Mohammad Honarpisheh, **Mehdi Mohammadimehr**, Experimental Analysis of the Effects of Plasma Cutting Parameters on Residual Stress Distribution by the Contour Method on St37 Sheets, *Journal of Thermal Stress*, Accept: 26 June 2023, DOI: 10.22084/jrstan.2023.26639.1218.
- 55) Pooya Nikbakhsh, **Mehdi Mohammadimehr**, Buckling and bending analyses of a sandwich beam based on nonlocal stress-strain elasticity theory with porous core and functionally graded facesheets, **Advances in Materials Research**, 2022, Vol. 11 No. 4, pp. 331-349.
- 56) **Mehdi Mohammadimehr**, Buckling and bending analyses of a sandwich beam based on nonlocal stress-strain elasticity theory with porous core and functionally graded facesheets, **Advances in Materials Research**, 2022, Vol. 11 No. 4, pp. 279-298.
- 57) Yasaman Fallah, **Mehdi Mohammadimehr**, On the free vibration behavior of Timoshenko sandwich beam model with honeycomb core and nano-composite face sheet layers integrated by sensor and actuator layers, **The European Physical Journal Plus**, 2022, Vol. 137: 741, pp. 1-12.
- 58) Amir Amini Zazerani, Alireza Faraji, **M. Mohammadimehr**, Robust multi-model controllers design without impulse in switching times for non-linear vibrations suppression of sandwich plate,

The Institution of Engineering and Technology (IET) Control Theory & Applications, 2022, pp. 1-12.

59) Amir Hossein Ghasemi; Ashkan Farazin; **Mehdi Mohammadimehr**; Hossein Naeimi, Fabrication and characterization of biopolymers with antibacterial nanoparticles and Calendula Officinalis flower extract as an active ingredient for modern hydrogel wound dressings, **Materials Today Communications, Vol. 31, 103513.**

۶۰) علیرضا فرجی بزمکی، امیر امینی، مهدی محمدی مهر، ارائه مدل های برگزیده تکه ای شبه خطی همزمان با طراحی کنترل کننده مقاوم بدون جهش بهینه جهت کاهش ارتعاشات غیرخطی ورق ساندویچی، مجله کنترل، بهار ۱۴۰۱، جلد ۱۶، شماره ۱، ص ص ۱۳-۲۶.

A.R. Faraji Barmaki, A Amini Zazerani, **M. Mohammadimehr**, Designing multi-model controller in bumpless transfer with integrated performance and robust stability for sandwich plate nonlinear vibration control, **Journal of Control (JoC), 2022; Vol. 16 No. 1, pp. 13-26.**

61) E. Mohammad-Rezaei Bidgoli, M. Arefi, **M. Mohammadimehr**, Free vibration analysis of honeycomb doubly curved shell integrated with CNT-reinforced piezoelectric layers, **Mechanics Based Design of Structures and Machines, An International Journal, 2022, Vol 50, No. 12, pp. 4409-4440.**

62) R. Rostami, **Mehdi Mohammadimehr**, Vibration control of rotating sandwich cylindrical shell reinforced nano-composite face sheet and porous core integrated with functionally graded magneto-electro-elastic layers, **Engineering with Computers, 2022, Vol. 38, No. 1, pp. 87-100.**

63) Mohsen Emdadi and **Mehdi Mohammadimehr**, Dynamic stability of the double-bonded annular nanocomposite sandwich microplate on viscoelastic foundation, **Journal of Sandwich Structures and Materials, 2022, Vol. 24, No. 1, pp. 385-418.**

64) S. M. Akhavan Alavi, **M. Mohammadimehr** and S. H. Ejtahed, Vibration analysis and control of micro porous beam integrated with FG-CNT distributed piezoelectric sensor and actuator, **Steel and Composite Structures, 2021, Vol. 41, No. 4, pp. 595-608.**

65) Ali Ghorbanpour Arani, Borhan Roustana Navi and **Mehdi Mohammadimehr** Buckling and vibration of porous sandwich microactuator-microsensors with three-phase carbon nanotubes/fiber/polymer piezoelectric polymeric nanocomposite face sheets, **Steel and Composite Structures, 2021, Vol. 41, No. 6, pp. 805-820.**

66) Rasoul Rostami and Mehdi Mohammadimehr, Nonlinear stability analysis of porous sandwich beam with nanocomposite face sheet on nonlinear viscoelastic foundation by using Homotopy perturbation method, **Steel and Composite Structures, 2021, Vol. 41, No. 6, pp. 821-829.**

- 67) Ashkan Farazin, **Mehdi Mohammadimehr**, Amir Hossein Ghasemi, Hossein Naeimi, Design, preparation, and characterization of CS/PVA/SA hydrogels modified with mesoporous Ag₂O/SiO₂ and curcumin nanoparticles for green antibacterial, and biocompatible wound dressing, **Royal Society of Chemistry**, 2021, Vol. 11, pp. 32775-32791.
- 68) R. Rostami, **M. Mohammadimehr**, Dynamic stability and bifurcation analysis of sandwich plate with considering FG core and FG-CNTRC face sheets, **Journal of Sandwich Structures and Materials**, 2021, Vol. 23, No. 6, pp. 2296-2325.
- 69) Arameh Eyvazian, Chunwei Zhang, Farayi Musharavati, Ashkan Farazin, **Mehdi Mohammadimehr**, Afrasyab Khan, Effects of appearance characteristics on the mechanical properties of defective SWCNTs: using finite element methods and molecular dynamics simulation, **The European Physical Journal Plus**, 2021, Vol. 136:946, No. 9, pp.1-24.
- 70) A. Amiri, **M. Mohammadimehr**, M. Irani Rahaghi, Vibration analysis of a micro-cylindrical sandwich panel with reinforced shape-memory alloys face sheets and porous core, **The European Physical Journal Plus**, 2021, Vol. 136:887, No. 8, pp.1-20.
- 71) J. Rajabi, **M. Mohammadimehr**, Forced vibration analysis of a micro sandwich plate with an isotropic/orthotropic cores and polymeric nanocomposite face sheets, **Computers and Concrete An International Journal**, 2021, Vol. 28, No. 3, pp. 259-273.
- 72) S. Gharghani, A. Loghman, **M. Mohammadimehr**, Analysis of FGM micro cylindrical shell with variable thickness using Cooper Naghdi model: Bending and buckling solutions, **Mechanics Research Comunnications**, 2021, Vol. 115, pp. 103739.
- 73) A. Farazin, **M. Mohammadimehr**, Effect of different parameters on the tensile properties of printed Polylactic acid samples by FDM: experimental design tested with MDs simulation, **The International Journal of Advanced Manufacturing Technology**, 2021, pp. 1-16, DOI: <https://doi.org/10.1007/s00170-021-07330-w>.
- 74) Mohammad Mehdi Nejadi, **Mehdi Mohammadimehr**, Mojtaba Mehrabi, Free vibration and buckling of functionally graded carbon nanotubes/graphene platelets Timoshenko sandwich beam resting on variable elastic foundation, **Advanced in Nano Research**, 2021, Vol. 10, No. 6, pp. 525-534.
- 75) **Mehdi Mohammadimehr**, Mojtaba Mehrabi, Fatemeh. S. Mousavinejad, Magneto-mechanical vibration analysis of single/three-layered micro Timoshenko porous beam and graphene plate as reinforcement based on modified strain gradient theory and differential quadrature method, **Journal of Vibration and Control**, 2021, Vol. 27, No. 15-16, pp. 1842-1859.

- 76) R. Rostami and **M. Mohammadimehr**, Vibration control of sandwich plate reinforced nanocomposite face sheet and porous core integrated with sensor and actuator layers using perturbation method, **Journal of Vibration and Control**, 2021, Vo. 27, No. 15-16, pp. 1736-1752.
- 77) Ashkan Farazin, **Mehdi Mohammadimehr**, and Amirabbas Ghorbanpour-Arani, Simulation of different carbon structures on significant mechanical and physical properties based on MDs method, **Structural Engineering and Mechanics: An International Journal**, 2021, Vol. 78, No. 6, pp. 691-702.
- 78) Ashkan Farazin and **Mehdi Mohammadimehr**, Computer modeling to forecast accurate of efficiency parameters of different size of graphene platelet, carbon, and boron nitride nanotubes: A molecular dynamics simulation, **Computers and Concrete An International Journal**, 2021, Vol. 27, No. 2, pp. 111-130.
- 79) MM. Nejadi, **M. Mohammadimehr**, M. Mehrabi, Free vibration and stability analysis of sandwich pipe by considering porosity and graphene platelet effects on conveying fluid flow, **Alexandria Engineering Journal**, Vol. 60, pp. 1945-1954.
- 80) Ali Ghorbanpour Arani, Ashkan Farazin and **Mehdi Mohammadimehr**, The effect of nanoparticles on enhancement of the specific mechanical properties of the composite structures: A review research, **Advances in Nano Research: An international Journal**, 2021, Vol. 10, No. 2, pp. 327-337.
- 81) Mohammad Safari , **Mehdi Mohammadimehr**, Hossein Ashrafi, Free vibration of electro-magneto-thermo sandwich Timoshenko beam made of porous core and GPLRC, **Advances in Nano Research: An international Journal**, 2021, Vol. 10, No. 2, pp. 115-128.
- 82) Ali Ghorbanpour Arani, Ashkan Farazin, **Mehdi Mohammadimehr** and Shahram Lenjannejadian, Energy harvesting of sandwich beam with laminated composite core and piezoelectric face sheets under external fluid flow, **Smart Structures and Systems: An international Journal**, 2021, Vol. 27, No. 4, pp. 641-650.

۸۳) امیر امینی، علیرضا فرجی، مهدی محمدی مهر، کاهش نوسانات صفحه کامپوزیتی تقویت شده با نانولوله کربنی بر روی بستر

الاستیک به روش کنترل فعال، نشریه علمی-پژوهشی علوم و فناوری کامپوزیت، جلد ۷، شماره ۴، زمستان ۱۳۹۹. ص ص ۱۲۵۴-۱۲۴۳.

Amir Amini, Alireza Faraji, **Mehdi Mohammadimehr**, Vibration suppression of composite plate reinforced by carbon nanotubes on elastic foundation using active control method, **Journal of Science and Technology of Composite**, 2021, Vol. 7, No. 4, pp. 1243-1254.

84) R. Rostami, M. Irani Rahaghi, **M. Mohammadimehr**, Vibration control of the rotating sandwich cylindrical shell considering functionally graded core and functionally graded magneto-electroelastic

layers by using differential quadrature method, **Journal of Sandwich Structures and Materials**, 2021, Vol. 23, No. 1, pp. 132-173.

85) Mojtaba Mehrabi, **Mehdi Mohammadimehr**, Fatemeh. S. Mousavinejad, 2D magneto-mechanical vibration analysis of a micro composite Timoshenko beam resting on orthotropic medium, **Smart Structures and Systems: An international Journal**, 2021, Vol. 27, No. 1, pp. 1-18.

86) Mehrdad Babaeian, **Mehdi Mohammadimehr**, Experimental and computational analyses on residual stress of composite plate using DIC and Hole-drilling methods based on Mohr's circle and considering the time effect, **Optics and Lasers in Engineering**, 2021, Vol. 137., 106355.

87) Amir Amini, **Mehdi Mohammadimehr**, A.R. Faraji, Optimal placement of piezoelectric actuator/sensor patches pair in sandwich plate by improved genetic algorithm, **Smart Structures and Systems: An international Journal**, 2020, Vol. 26, No. 6, pp. 721-733.

88) Pegah Khazaei, **Mehdi Mohammadimehr**, Size dependent effect on deflection and buckling analysis of porous nanocomposite plate based on nonlocal strain gradient theory, **Structural Engineering and Mechanics, An International Journal**, 2020, Vol. 76, No. 1, pp. 27-56.

89) A. A. Monajemi, **M. Mohammadimehr**, The effect of residual stress, viscous and hysteretic damping on stability of spinning micro shaft, **Applied Mathematics and Mechanics**, 2020, Vol. 41, No. 8, pp. 1251-1268.

90) Mostafa Bamdad, **Mehdi Mohammadimehr**, and Kazem Alambeigi, Bending and buckling analysis of sandwich Reddy beam considering shape memory alloy wires and porosity resting on Vlasov's foundation, **Steel and Composite Structures**, 2020, Vol. 36, No. 6, pp. 671-687.

91) Rasoul Rostami, Mohsen Irani Rahaghi and **Mehdi Mohammadimehr**, Nonlinear forced vibration of sandwich plate with considering FG core and CNTs reinforced nano-composite face sheets, **Smart Structures and Systems**, 2020, Vol. 26, No. 2, pp. 185-193.

92) Ashkan Farazin, and **Mehdi Mohammadimehr**, Nano research for investigating the effect of SWCNTs dimensions on the properties of the simulated nanocomposites: A molecular dynamics simulation, **Advances in Nano Research, An International Journal**, 2020, Vol. 9, No. 2, pp. 83-90.

93) S. Shahedi, **M. Mohammadimehr**, Vibration analysis of rotating fully-bonded and delaminated sandwich beam with CNTRC face sheets and AL-foam flexible core in thermal and moisture environments, **Mechanics Based Design of Structures and Machines, An International Journal**, 2020, Vo. 48, No. 5, 584-614.

94) **M. Mohammadimehr**, A.A Monajemi, H. Afshari, Free and forced vibration analysis of viscoelastic damped FG-CNT reinforced micro composite beams, **Microsystem Technologies**, 2020, Vol. 26, pp. 3085-3099.

- 95) **Mehdi Mohammadimehr**, Saeed Firouzeh, Mahsa Pahlavanzadeh, Yaser Heidari and Mohsen Irani-Rahaghi, Free vibration of sandwich micro-beam with porous foam core, GPL layers and piezo-magneto-electric facesheets via NSGT, **Computers and Concrete, An International Journal**, 2020, Vol. 26, No. 1, pp. 75-94.
- 96) Pegah Khazaei, **Mehdi Mohammadimehr**, Vibration analysis of porous nanocomposite viscoelastic plate reinforced by FG-SWCNTs based on a nonlocal strain gradient theory, **Computers and Concrete, An International Journal**, 2020, Vol. 26, No. 1, pp. 31-52.
- 97) Kazem Alambeigi, **Mehdi Mohammadimehr**, Mostafa Bamdad, Timon Rabczuk, Free and forced vibration analysis of sandwich beam considering porous core and SMA hybrid composite face layers on Vlasov's foundation, **Acta Mechanica**, 2020, Vol. 231, pp. 3199-3218.
- 98) A. Amiri, **M. Mohammadimehr**, M. Anvari, Stress and buckling analysis of a thick-walled micro sandwich panel with a flexible foam core and CNTRC face sheets, **Applied Mathematics and Mechanics**, 2020, Vol. 41, No. 7, pp. 1027-1038.
- 99) M.R. Anvari, **M. Mohammadimehr**, A. Amiri, Vibration behavior of a micro cylindrical sandwich panel reinforced by graphene platelet, **Journal of Vibration and Control**, 2020, Vol. 13-14, pp. 1311-1343.
- 100) Sona Hanifehlou, **Mehdi Mohammadimehr**, Buckling analysis of sandwich beam reinforced by GPLs using various shear deformation theories, **Computers and Concrete**, 2020, Vol. 25, No. 5, pp. 427-432.
- 101) **M. Mohammadimehr**, M. Emdadi, B. Rousta Navi, Dynamic stability analysis of microcomposite annular sandwich plate with carbon nanotube reinforced composite facesheets based on modified strain gradient theory, **Journal of Sandwich Structures and Materials**, 2020, Vol. 22, No. 4, pp. 1199-1234.
- 102) Mohamad Mehdi Nejadi, **Mehdi Mohammadimehr**, Analysis of a Functionally Graded nanocomposite sandwich beam considering porosity distribution on variable elastic foundation using DQM: Buckling and vibration behaviors, **Computers and Concrete, An International Journal**, 2020, Vol. 25, No. 3, pp. 215-224.
- 103) Mohammad Javad Namayandeh, **Mehdi Mohammadimehr**, Mojtaba Mehrabi, Abbas Sadeghzadeh-Attar, Temperature and thermal stress distributions in a hollow circular cylinder composed of anisotropic and isotropic materials, **Advances in Materials Research, An International Journal**, 2020, Vol. 9, No. 1, pp. 15-32.

- 104) Mehdi Mohammadimehr**, Mohammad Meskini, Analysis of porous micro sandwich plate: Free and forced vibration under magneto-electro-elastic loadings, **Advances in Nano Research, An International Journal**, 2020, Vol. 8, No. 1, pp. 69-82.
- 105) Mohammad Mehdi Nejadi, M. Mohammadimehr**, Buckling analysis of nano composite sandwich Euler-Bernoulli beam considering porosity distribution on elastic foundation using DQM, **Advances in Nano Research, An International Journal**, 2020, Vol. 8, No. 1, pp. 59-68.
- 106) M. Babaeian, M. Mohammadimehr**, Investigation of the time elapsed effect on residual stress measurement in a composite plate by DIC method, **Optics and Lasers in Engineering**, 2020, Vol. 128, pp. 106002.
- 107) S. Shahedi, M. Mohammadimehr**, Nonlinear high-order dynamic stability of AL-foam flexible cored sandwich beam with variable mechanical properties and carbon nanotubes-reinforced composite face sheets in thermal environment, **Journal of Sandwich Structures and Materials**, 2020, Vol. 22, No. 2, pp. 248-302.
- 108) R. Yazdani, M. Mohammadimehr**, Double bonded Cooper-Naghdi micro sandwich cylindrical shells with porous core and CNTRC face sheets: Wave propagation solution, **Computers and Concrete, An International Journal**, 2019, Vol. 24, No. 6, pp. 499-511.
- 109) A. Ghorbanpour Arani, M. Emdadi, H. Ashrafi, M. Mohammadimehr, S Niknejad, A.A Ghorbanpour Arani A Hosseinpour**, Analysis of viscoelastic functionally graded sandwich plates with CNT reinforced composite facesheets on visco foundation, **Journal of Solid Mechanics**, 2019, Vol. 11, No. 4, pp. 690-706.
- 110) A. Ghorbanpour Arani, B. Roustavi, M. Mohammadimehr, S Niknejad, A.A Ghorbanpour Arani A Hosseinpour**, Pull-in instability of MSGT piezoelectric polymeric FG- SWCNTs reinforced nanocomposite considering surface stress effect, **Journal of Solid Mechanics**, 2019, Vol. 11, No. 4, pp. 759-777.
- 111) Javad Rajabi, Mehdi Mohammadimehr**, Hydro-thermo-mechanical biaxial buckling analysis of sandwich micro-plate with an isotropic/orthotropic cores and piezoelectric/polymeric nanocomposite face sheets based on FSDT on elastic foundations, **Steel and Composite Structures: An international Journal**, 2019, Vol. 33, No. 4, pp.509-523.
- 112) Nasrine Belbachir, Kada Draich, Abdelmoumen Anis Bousahla, Mohamed Bourada, Abdelouahed Tounsi, M. Mohammadimehr**, Bending analysis of anti-symmetric cross-ply laminated plates under nonlinear thermal and mechanical loadings, **Steel and Composite Structures: An international Journal**, 2019, Vol 33, No. 1, pp. 913-924.

- 113) Raziye Yazdani, **M. Mohammadimehr**, and Ashraf M. Zenkour, Vibration analysis of double-bonded micro sandwich cylindrical shells under multi-physical loadings, **Steel and Composite Structures: An international Journal**, 2019, Vol 33, No. 1, pp. 93-109.
- 114) B. Rousta Navi, **M. Mohammadimehr**, A. Ghorbanpour Arani, Active control of three-phase CNT/resin/fiber piezoelectric polymeric nanocomposite porous sandwich microbeam based on sinusoidal shear deformation theory, **Steel and Composite Structures: An international Journal**, 2019, Vol. 32, No. 6, pp. 753-767.
- 115) S. Alimirzaei, **M. Mohammadimehr**, Abdelouahed Tounsi, Nonlinear analysis of viscoelastic micro-composite beam with geometrical imperfection using FEM: MSGT electro-magneto-elastic bending, buckling and vibration solutions, **Structural Engineering and Mechanics, An International Journal**, 2019, Vol 71, No. 5, pp. 485-502.
- 116) M. Bamdad, **M. Mohammadimehr**, K. Alambeigi, Analysis of sandwich Timoshenko porous beam with temperature dependent material properties: Magneto-electro-elastic vibration and buckling solution, **Journal of Vibration and Control**, 2019, Vol. 25, No. 23-24, pp. 2875-2893.
- 117) Mohammad Mousavi, **Mehdi Mohammadimehr**, and Rasoul Rostami, Analytical solution for buckling analysis of micro sandwich hollow circular plate, **Computers and Concrete**, 2019, Vol. 24, No. 3, pp. 185-192.
- 118) **M. Mohammadimehr**, H. Afshari, M. Salemi, K. Torabi, M. Mehrabi, Free vibration and buckling analyses of functionally graded annular thin sector plate in-plane loads using GDQM, **Structural Engineering and Mechanics, An International Journal**, 2019, Vol. 71, No. 5, pp. 525-544.
- 119) Amir Amini, **M. Mohammadimehr**, A.R. Faraji, Active control to reduce the vibration amplitude of the solar honeycomb sandwich panels with CNTRC facesheets using piezoelectric patch sensor and actuator, **Steel and Composite Structures: An international Journal**, 2019, Vol. 32, No. 5, pp. 671-686.
- 120) Mohammad Javad Namayandeh, **Mehdi Mohammadimehr**, Mojtaba Mehrabi, Temperature distribution of ceramic panels of a V94.2 gas turbine combustor under realistic operation conditions, **Advances in Materials Research, An International Journal**, 2019, Vol. 8, No. 2, pp. 117-135.

(۱۲۱) مهدی محمدی مهر، مجتبی محرابی، احسان شعبانی نژاد، تحلیل کمانش و ارتعاشات میکروورق نانوکامپوزیتی کوپله‌ی تقویت‌شده با نانولوله‌های کربنی و نیتريد بور به طور همزمان براساس تئوری گرادیان کرنشی تعمیم‌یافته، پذیرفته شده در نشریه علمی پژوهشی **امیر کبیر مهندسی مکانیک**، ۱۳۹۸، دوره ۵۱، شماره ۱، ص ۷۹-۹۶.

- M. Mohammadimehr**, M. Mehrabi, E. Shabani Nejad, Buckling and vibration analyses of double-bonded nanocomposite micro plates reinforced by CNT and BNNT based on most general strain gradient theory, **Amirkabir Journal of Science & Research- Mechanical Engineering**, 2019, Vol. 51, No. 1, pp. 79-96, In Persian.
- 122) Rasoul Rostami, **Mehdi Mohammadimehr**, and Mohsen Irani Rahaghi, Dynamic stability and nonlinear vibration of rotating sandwich cylindrical shell with considering FG core integrated with sensor and actuator, **Steel and Composite Structures: An international Journal**, 2019, Vol. 32, No. 2, pp. 225-237.
- 123) **Mehdi Mohammadimehr**, Ehsan Arshid, S. M. Amin Rasti Alhosseini, Saeed Amir, M. R. Ghorbanpour Arani, Free vibration analysis of thick cylindrical MEE composite shells reinforced CNTs with temperature-dependent properties resting on viscoelastic foundation, **Structural Engineering and Mechanics, An International Journal**, 2019, Vol. 70, No. 6, pp. 683-702.
- 124) Javad Rajabi, **Mehdi Mohammadimehr**, Bending analysis of a micro sandwich skew plate using extended Kantorovich method based on Eshelby–Mori–Tanaka approach, **Computers and Concrete, An International Journal**, 2019, Vol. 23, No. 5, pp. 361-376.
- 125) Raziye Yazdani, **Mehdi Mohammadimehr**, Borhan Rousta Navi, Free vibration of Cooper-Naghdi micro saturated porous sandwich cylindrical shells with reinforced CNT face sheets under magneto-hydro-thermo-mechanical loadings, **Structural Engineering and Mechanics, An International Journal**, 2019, Vol. 70, No. 3, pp. 351-365.
- 126) Mohsen Emdadi, **Mehdi Mohammadimehr**, and Borhan Rousta Navi, “Free vibration of an annular sandwich plate with CNTRC facesheets and FG porous cores using Ritz method”, **Advances in Nano Research, An International Journal**, 2019, Vol. 7, No. 2, pp. 109-123.
- 127) S. M. Akhavan Alavi, **M. Mohammadimehr**, S.H. Edjtahed, Active control of micro Reddy beam integrated with functionally graded nanocomposite sensor and actuator based on linear quadratic regulator method, **European Journal of Mechanics A/Solids**, 2019, Vol. 74, pp. 449-461.
- 128) **M. Mohammadimehr**, M. Emdadi, H. Afshari, B. Rousta Navi, Bending, buckling and vibration analyses of MSGT microcomposite circular-annular sandwich plate under hydro-thermo-magneto-mechanical loadings using DQM, **International Journal of Smart and Nano Materials**, 2018, Vol. 9, No. 4, pp. 233-260.
- 129) **M. Mohammadimehr**, A. A. Mohammadi-Dehabadi, S. M. AkhavanAlavi, K. Alambeigi, M. Bamdad, R. Yazdani, S. Hanifehlou, Bending, buckling, and free vibration analyses of carbon nanotube reinforced composite beams and experimental tensile test to obtain the mechanical properties of nanocomposite, **Steel and Composite Structures**, 2018, Vol. 29, No. 3, pp. 405-422.

130) M. Mohammadimehr, S. J. Atifeh, B. Rousta Navi, Stress and free vibration analysis of piezoelectric hollow circular FG-SWBNNTs reinforced nanocomposite plate based on modified couple stress theory subjected to thermo-mechanical loadings, **Journal of Vibration and Control**, 2018, Vol. 24, No. 15, pp. 3471-3486.

131) M. Mohammadimehr, S. V. Okhravi, S. M. Akhavan Alavi, Free vibration analysis of magneto-electro-elastic cylindrical composite panel reinforced by various distributions of CNTs with considering open and closed circuits boundary conditions based on FSDT, **Journal of Vibration and Control**, 2018, Vol. 24, No. 8, pp. 1551-1569.

132) M. Mohammadimehr, H. Mohammadi Hooyeh, Vibration analysis of magneto-electro-elastic Timoshenko micro beam using surface stress effect and modified strain gradient theory under moving nano-particle, **Journal of Solid Mechanics**, 2018, Vol. 10, No. 1, pp. 1-22.

133) R. Rostami, M. Mohammadimehr, M. Ghannad, A. Jalali, Forced vibration analysis of nano-composite rotating pressurized microbeam reinforced by CNTs based on MCST with temperature-variable material properties, **Theoretical and Applied Mechanics Letters**, 2018, Vol. 8, pp. 97-108.

134) M. Mohammadimehr, S. M. Akhavan Alavi, S. V. Okhravi, S. H. Edjtahed, Free vibration analysis of micro magneto-electro-elastic cylindrical sandwich panel considering FG-CNTs reinforced nanocomposite face sheets, various circuit boundary conditions and temperature-dependent material properties using HSAPT and MSGT, **Journal of Intelligent Material Systems and Structures**, 2018, Vol. 29, No. 5, pp.863-882.

135) M. Mohammadimehr, M. Mehrabi, Electro-thermo-mechanical vibration and stability analyses of double-bonded micro composite sandwich piezoelectric tubes conveying fluid flow, **Applied Mathematical Modelling**, 2018, Vol. 60, pp. 255-272.

136) M. Mohammadimehr, R. Rostami, Bending and vibration analyses of a rotating sandwich cylindrical shell considering nano-composite core and piezoelectric layers subjected to thermal and magnetic fields, **Applied Mathemaics and Mechanics (English Edition)**, 2018, Vol. 39, No. 2, pp. 219-240.

۱۳۷) مهدی محمدی مهر، سید امیر سجاد خدای، مجتبی محرابی، تحلیل ارتعاشات آزاد میکرو تیر تیموشنکوی جفت شده کربنی و نیتريد بور تحت میدان های فیزیکی مختلف برای شرایط مرزی مدار بسته با استفاده از نظریه تنش کوپل اصلاح شده، نشریه علمی پژوهشی امیر کبیر مهندسی مکانیک اسفند ماه ۱۳۹۶، دوره ۴۹، شماره ۴، ص ص ۷۰۹-۷۲۰.

M. Mohammadimehr, S.A.S. Khoddami, M. Mehrabi, Free vibration analysis of CNT and BNNT double-bonded Timoshenko micro beams under various physical fields for closed circuit boundary

conditions based on modified couple stress theory, **Amirkabir Journal of Mechanical Engineering**, March 2018, , **Vol. 49, No. 4, pp.709-720, In Persian** .

۱۳۸) مهدی محمدی مهر، سجاد علیمیرزایی، تحلیل غیرخطی کمانش نانو تیر کامپوزیتی با در نظر گرفتن نقص هندسی با استفاده از روش اجزاء محدود، نشریه علمی پژوهشی روشهای عددی در مهندسی، اسفندماه ۱۳۹۶، دوره ۳۶، شماره ۲، ص ص ۷۹-۹۸.

M. Mohammadimehr, S. Alimirzaie, Nonlinear buckling analysis of nano-composite beam with initial geometrical imperfection using FEM, **Journal of Computational Methods in Engineering**, March 2018, **Vol. 36, No. 2, pp.79-98, In Persian**.

139) M. Mohammadimehr, Mojtaba Mehrabi, Hassan Hadizadeh, Hossein Hadizadeh, Surface and size dependent effects on static, buckling, and vibration of micro composite beam under thermo-magnetic fields based on strain gradient theory, **Steel and Composite Structures**, 2018, **Vol. 26, No. 4, pp. 513-531**.

140) M. Mohammadimehr, E. Shabani Nejad, M. Mehrabi, Buckling and vibration analyses of MGSST double-bonded micro composite sandwich SSDT plates reinforced by CNTs and BNNTs with isotropic foam & flexible transversely orthotropic cores, **Structural Engineering and Mechanics**, 2018, **Vol. 65, No. 4, pp. 491-504**.

141) A. Ghorbanpour Arani, Z. Khoddami Maraghi, R. Kolahchi, **M. Mohammadimehr**, Viscous fluid flow-induced nonlocal nonlinear vibration of embedded DWBNNNTs, **Journal of Solid Mechanics**, 2017, **Vol. 9, No. 4, pp. 680-696**.

142) M. Mohammadimehr, B. Roustavi Navi, A. Ghorbanpour Arani, Dynamic stability of modified strain gradient theory sinusoidal viscoelastic piezoelectric polymeric functionally graded single-walled carbon nanotubes reinforced nanocomposite plate considering surface stress and agglomeration effects under hydro-thermo-electro-magneto-mechanical loadings, **Mechanics of Advanced Materials and Structures**, 2017, **Vol. 24, No. 16, 1325-1342**.

143) M. Mohammadimehr, H. BabaAkbar Zarei, A. Parakandeh, A. Ghorbanpour Arani, Vibration analysis of double-bonded sandwich microplates with nanocomposite facesheets reinforced by symmetric and un-symmetric distributions of nanotubes under multi physical fields, **Structural Engineering and Mechanics, An International Journal**, 2017, **Vol. 64, No. 3, pp. 361-379**.

144) M. Mohammadimehr, S. Shahedi, B. Roustavi Navi, Nonlinear vibration analysis of FG-CNTRC sandwich Timoshenko beam based on modified couple stress theory subjected to longitudinal magnetic field using generalized differential quadrature method, **IMechE, Part C: Journal of Mechanical Engineering Science**, 2017, **Vol. 231, No. 20, pp. 3866-3885**.

۱۴۵) مهدی محمدی مهر، سعید شاهدی، تحلیل کمانش غیرخطی نانو تیر تیموشنکو نیتريد بور غیرمحملي براساس تئوري تنش کوپل اصلاح شده با استفاده از روش مربع سازی دیفرانسیلی، پذیرفته شده در نشریه علمی پژوهشی امیر کبیر مهندسی مکانیک تابستان ۱۳۹۶، دوره ۴۹، شماره ۲، ص ص ۲۴۱-۲۵۲.

M. Mohammadimehr, S. Shahedi, Nonlinear Buckling Analysis of Nonlocal Boron Nitride Timoshenko Nano Beam Based on Modified Couple Stress Theory Using DQM, Amirkabir Journal of Science & Research- Mechanical Engineering, Summer 2017, Vol. 49, No. 2, pp. 241-252.

۱۴۶) مجتبی محرابی، مهدی محمدی مهر، محمدرضا فاتحی، علی قربان پور آرانی، تحلیل حرارتی، تاثیر نوع روانکار و عمر خستگی چرخ دنده های مخروط مارپیچ جعبه دنده اصلی بالگرد، پذیرفته شده در نشریه علمی پژوهشی مجله مهندسی مکانیک مدرس، آبان ماه ۱۳۹۶، دوره ۱۷، شماره ۸، ص ص ۳۸-۴۸.

M. Mehrabi, M. Mohammadimehr, M. R. Fatehi, A. Ghorbanpour Arani, Thermal analysis, effect of lubricant and fatigue life of spiral bevel gears of main gearbox, Modares Mechanical Engineering, 2017, Vol. 17, No. 8, pp. 38-48, In Persian.

147) M. Mohammadimehr, R. Rostami, Bending, buckling, and forced vibration analyses of nonlocal nanocomposite microplate using TSDT considering MEE properties dependent to various volume fractions of CoFe₂O₄-BaTiO₃, Journal of Theoretical and Applied Mechanics, 2017, Vol. 55, No. 3, pp. 853-868.

148) M. Mohammadimehr, M. Mehrabi, Stability and free vibration analysis of double-bonded micro composite sandwich cylindrical shells conveying fluid flow, Applied Mathematical Modelling, 2017, Vol. 47, pp. pp. 685-709.

149) M. Mohammadimehr, S. Alimirzaei, Buckling and free vibration analysis of tapered FG-CNTRC micro Reddy beam under longitudinal magnetic field using FEM, Smart Structures and Systems: An International Journal, 2017, Vol. 19, No. 3, pp. 309-322.

150) M. Mohammadimehr, A. A. Mohammadi Dehabadi, Z. Khoddami Maraghi, The effect of non-local higher order stress to predict the nonlinear vibration behavior of carbon nanotube conveying viscous nanoflow, Physica B: Condensed Matter, 2017, Vol. 510, pp. 48-59.

151) M. Mohammadimehr, H. Mohammadi Hooyeh, H. Afshari, M. R. Salarkia, Free vibration analysis of double-bonded isotropic piezoelectric Timoshenko micro-beam based on strain gradient and surface stress elasticity theories under initial stress using DQM, Mechanics of Advanced Materials and Structures, An International Journal, 2017, Vol. 24, No. 4, pp. 287-303.

152) **M. Mohammadimehr**, S. Shahedi, High-order buckling and free vibration analysis of two types sandwich beam including AL or PVC-foam flexible core and CNTs reinforced nanocomposite face sheets using GDQM, **Composite Part B: Engineering**, 2017, Vol. 108, pp. 91-107.

۱۵۳) مهدی محمدی‌مهر، سید محمد اخوان علوی، سید وحید اخروی، تحلیل کمانش و ارتعاشات آزادپنل استوانه‌ای تقویت شده با توزیع‌های مختلف نانو لوله‌های کربنی بر بستر الاستیک، پذیرفته شده در نشریه پژوهشی مهندسی مکانیک ایران (انجمن مهندسان مکانیک ایران) پاییز ۱۳۹۵، دوره ۱۸ شماره ۳ ص ۱۹-۴۴.

M. Mohammadimehr, S. M. Akhavan Alavi, S. V. Okhravi, Buckling and free vibration analysis of cylindrical panel reinforced by various distributions of CNTs on elastic foundation, **Iranian Journal of Mechanical Engineering, Transactions of the ISME**, 2016, Vol. 18, No. 3, pp. 19-44.

154) **M. Mohammadimehr**, A. A. Monajemi, Nonlinear vibration analysis of MSGT boron-nitride micro ribbon based mass sensor using DQEM, **Smart Structures and Systems, An International Journal**, 2016, Vo. 18, No. 5, pp. 1029-1062.

۱۵۵) مهدی محمدی‌مهر، امیر عباس فارسی، رضا اسلامی فارسانی، پدرام دشتی گوهری، محسن یوسفی رامندی، تاثیر تنش‌های سطحی روی ارتعاشات خطی غیر محلی نانو لوله سه جداره‌ی نیتريد بور حاوی جریان سیال ویسکوز بر بستر الاستیک با استفاده از روش مربع سازی دیفرانسیلی، مجله علمی پژوهشی مدل سازی در مهندسی، سال ۱۳۹۴، دوره ۱۳ شماره ۴۳، ص ۴۷-۶۶.

M. Mohammadimehr, A. A. Farsi, R. Eslami Farsani, P. Dashti Gohari, M. Yousefi Ramandi, "The surface stress effects on linear vibration of nonlocal triple-walled boron nitride nano tube conveying viscose fluid embedded in an elastic medium using DQM", **Journal of Modeling in Engineering**, 2016, Vol. 13, Issue 43, pp. 47-66.

156) **M. Mohammadimehr**, H. Mohammadi Hooyeh, H. Afshari, M. R. Salarkia, Size-dependent effects on the vibration behavior of a Timoshenko microbeam subjected to pre-stress loading based on DQM, **Mechanics of Advanced Composite Structures**, 2016, Vol. 3, Issue 2, pp. 99-112.

157) A. Ghorbanpour Arani, B. Rousta Navi, **M. Mohammadimehr**, Surface stress and agglomeration effects on nonlocal biaxial buckling polymeric nanocomposite plate reinforced by CNT using various approaches, **Advanced Composite Materials**, 2016, Vol. 25, No. 5, pp. 423-441.

158) **M. Mohammadimehr**, M. M. Mohammadi Najafabadi, H. Nasiri, B. Rousta Navi, Surface stress effects on the free vibration and bending analysis of the nonlocal SLGS embedded in an elastic medium using energy method, **Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems**, 2016, Vol. 230, No. 3, pp. 148-160.

- 159) **M. Mohammadimehr**, M. J. Farahi, S. Alimirzaei, Vibration and wave propagation analysis of twisted micro-beam using strain gradient theory, **Applied Mathematics and Mechanics (English Edition)**, 2016, Vol. 37, No. 10, pp. 1375-1392.
- 160) **M. Mohammadimehr**, S. Alimirzaei, Nonlinear static and vibration analysis of Euler-Bernoulli composite beam model reinforced by FG-SWCNT with initial geometrical imperfection using FEM, **Structural Engineering and Mechanics, An International Journal**, 2016, Vol. 59, No. 3, pp. 431-454.
- 161) **M. Mohammadimehr**, S. Shahedi, Nonlinear magneto-electro-mechanical vibration analysis of double-bonded sandwich Timoshenko microbeams based on MSGT using GDQM, **Steel and Composite Structures, An International Journal**, 2016, Vol. 21, No. 1, pp. 1-36.
- 162) **M. Mohammadimehr**, M. A. Mohammadimehr, P. Dashti, Size-dependent effect on biaxial and shear nonlinear buckling analysis of nonlocal isotropic and orthotropic micro-plate based on surface stress and modified couple stress theories using differential quadrature method, **Applied Mathematics and Mechanics (English Edition)**, 2016, Vol. 37, Issue 4, pp. 529-554. Doi: 10.1007/s10483-016-2045-9.
- 163) **M. Mohammadimehr**, M. Mostafavifar, Free vibration analysis of sandwich plate with a transversely flexible core and FG-CNTs reinforced nanocomposite face sheets subjected to magnetic field and temperature-dependent material properties using SGT, **Composite Part B**, 2016, Vol. 94, No. 1, pp. 253-270.
- 164) **M. Mohammadimehr**, R. Rostami, M. Arefi, Electro-elastic analysis of a sandwich thick plate considering FG core and composite piezoelectric layers on Pasternak foundation using TSDT, **Steel and Composite Structures, An International Journal**, 2016, Vol. 20, No. 3, pp. 513-544.
- 165) **M. Mohammadimehr**, M. Mohandes, M. Moradi, Size dependent effect on the buckling and vibration analysis of double bonded nanocomposite piezoelectric plate reinforced by BNNT based on modified couple stress theory, **Journal of Vibration and Control**, 2016, Vol. 22, No.7, pp. 1790-1807.
- 166) **M. Mohammadimehr**, E. Golzari, The elliptic phenomenon effect of cross section on the torsional buckling of a nanocomposite beam reinforced by a SWCNT, **Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems**, 2016, Vol. 230(1), pp. 55–67, Doi: 10.1177/1740349914552307.
- 167) **M. Mohammadimehr**, M. Salemi, B. Roustavi, Bending, buckling, and free vibration analysis of MSGT microcomposite Reddy plate reinforced by FG-SWCNTs with temperature-

dependent material properties under hydro-thermo-mechanical loadings using DQM, **Composite Structures**, 2016, Vol. 138, pp. 361-380.

168) **M. Mohammadimehr**, B. Rousta Navi, A. Ghorbanpour Arani, Modified strain gradient Reddy rectangular plate model for biaxial buckling and bending analysis of double-coupled piezoelectric polymeric nanocomposite reinforced by FG-SWNT, **Composite Part B: Engineering**, 2016, Vol. 87, pp. 132-148.

169) **M. Mohammadimehr**, S. A. M. Managheb, S. Alimirzaei, Nonlocal buckling and vibration analysis of triple-walled Zno piezoelectric Timoshenko nano-beam subjected to magneto-electro-thermo-mechanical loadings, **Mechanics of Advanced Composite Structures**, 2015, Vol. 2, Issue 2, pp. 113-126.

170) **M. Mohammadimehr**, M. Mohandes, The effect of modified couple stress theory on buckling and vibration analysis of functionally graded double-layer boron nitride piezoelectric plate based on CPT, **Journal of Solid Mechanics**, 2015, Vol. 7, Issue 3, pp. 281-298.

171) **M. Mohammadimehr**, B. Rousta Navi, A. Ghorbanpour Arani, Free vibration of viscoelastic double-bonded polymeric nanocomposite plates reinforced by FG-SWCNTs using MSGT, sinusoidal shear deformation theory and meshless method, **Composite structures**, 2015, Vol. 131, pp. 654-671.

۱۷۲) **مهدی محمدی مهر**، علی قربان پور آرانی، برهان روستا ناوی، تحلیل ارتعاشات آزاد پانل استوانه‌ای ساخته شده از مواد مدرج تابعی قرار گرفته بر روی بستر الاستیک پاسترناک تحت تأثیر میدان‌های مغناطیسی با استفاده از تئوری برشی مرتبه اول، چاپ شده در مجله علمی پژوهشی مکانیک سازه‌ها و شاره‌ها، سال ۱۳۹۴، دوره ۵، شماره ۱، ص ص ۱۴۹-۱۶۳.

M. Mohammadimehr, A. Ghorbanpour Arani, B. Rousta Navi, "Free vibration of the cylindrical panel made of functionally graded materials resting on pasternak elastic foundation subjected to magnetic fields using first order shear deformation theory

", **Journal of Solid and Fluid Mechanics**, 2015, Vol. 5, Issue 1, pp. 149-163.

173) **M. Mohammadimehr**, A. A. Monajemi, M. Moradi, Vibration analysis of viscoelastic tapered micro-rod based on strain gradient theory resting on visco-pasternak foundation using DQM, **Journal of Mechanical Science and Technology**, 2015, Vol. 29, Issue 6, pp. 2297-2305.

174) **M. Mohammadimehr**, B. Rousta Navi, A. Ghorbanpour Arani, Surface stress effect on the nonlocal biaxial buckling and bending analysis of polymeric piezoelectric nanoplate reinforced by CNT using Eshelby-Mori-Tanaka approach, **Journal of Solid Mechanics**, 2015, Vol. 7, Issue 2, pp. 173-190.

۱۷۵) سعید امینی، محمد رضا خسروجردی، مهدی محمدی مهر، ابزار ارتعاشی التراسونیک یک بعدی و دو بعدی، نشریه علوم محاسباتی و کاربردی در مکانیک، پاییز و زمستان ۱۳۹۳، دوره ۲۶، شماره ۱، پیاپی ۱۱، ص ص ۳۵-۴۹.

S. Amini, M. R. Khosrojerdi, **M. Mohammadimehr**, "One and two-dimensional ultrasonic vibration tool", **Journal of Applied and Computational Sciences in Mechanics**, autumn 2014 and winter 2015, Vol. 26, Issue 1, pp. 35-49.

176) **M. Mohammadimehr**, B. Rousta Navi, A. Ghorbanpour Arani, "Eshelby-Mori-Tanaka and the extended mixture rule approaches for nonlocal vibration of piezoelectric nanocomposite plate with considering surface stress and magnetic field effects", **Journal of Nanostructures**, 2014, Vol. 4, Issue 3, pp. 347-367.

177) **M. Mohammadimehr**, M. Moradi, A. Loghman, "Influence of Elastic foundation on the free vibration and buckling of thin-walled Piezoelectric-Based cylindrical shell under combined loadings", **Journal of Solid Mechanics**, 2014, Vol. 6, Issue 4, pp. 347-365.

178) **M. Mohammadimehr** and M. Salemi, "Bending and buckling analysis of functionally graded Mindlin nano-plate model based on strain gradient elasticity theory", **Indian Journal of Scientific Research**, 2014, Vol. 2, pp. 587-598.

179) **M. Mohammadimehr**, B. Rousta Navi, A. Ghorbanpour Arani, Biaxial Buckling and Bending of Smart Nanocomposite Plate Reinforced by CNTs using extended mixture rule approach, **Mechanics of Advanced Composite Structures**, 2014, Vol. 1, Issue 1, pp. 17-26.

180) Amir Hossein Rahmati and **M. Mohammadimehr**, "Vibration analysis of non-uniform and non-homogeneous boron nitride nanorods embedded in an elastic medium under combined loadings using DQM", **Physica B: Condensed Matter**, 2014, Vol. 440, pp. 88-98.

۱۸۱) مهدی محمدی مهر، محمد سالمی، حسین نصیری، حسن افشاری، "تاثیر حرارت روی خیز، بار کمانش بحرانی و ارتعاشات تیر اویلر- برنولی غیرمحلّی بر بستر الاستیک پاسترناک با استفاده از روش ریتز"، مجله علمی پژوهشی مهندسی مکانیک مدرس، بهمن ماه ۱۳۹۲، دوره ۱۳، شماره ۱۱، ص ص ۶۴-۷۶.

M. Mohammadimehr, M Salemi, H Nasiri, H Afshari, "Thermal effect on deflection, critical buckling load and vibration of nonlocal Euler-Bernoulli beam on Pasternak foundation using Ritz method", **Scientific Research Monthly Journal Modares Mechanical Engineering**, 2013, Vol. 13 (11), pp. 64-76.

182) **M. Mohammadimehr**, M. Mahmudian-Najafabadi, "Bending and free vibration analysis of nonlocal functionally graded nanocomposite Timoshenko beam model reinforced by SWBNNT

based on modified coupled stress theory”, **Journal of Nanostructures**, 2013, Vol. 3, Issue 4, pp. 483-492.

183) **M. Mohammadimehr** and Amir Hossein Rahmati, “Small scale effect on electro-thermo-mechanical vibration analysis of single-walled boron nitride nanorods under electric excitation”, **Turkish Journal of Engineering and Environmental Sciences**, 2013, Vol. 37, pp. 1-15.

184) A. Ghorbanpour Arani, M. Rahnema Mobarakeh, Sh. Shams and **M. Mohammadimehr**, “The effect of CNT volume fraction on the magneto-thermo-electro-mechanical behavior of smart nanocomposite cylinder”, **Journal of Mechanical Science and Technology**, 2012, Vol. 26, No.8, pp.2565-2572.

185) A. Ghorbanpour Arani, V. Sadooghi, M.R. Mozdianfard, **M. Mohammadimehr**, “Thermo-elastic behavior of a thick-walled composite cylinder reinforced with functionally graded SWCNTs”, **Journal of Nanostructures**, 2012, Vol. 1, pp. 27-38.

186) A. Ghorbanpour Arani, S. Amir, A. R. Shajari, , M.R. Mozdianfard, Z. Khoddami Maraghi, **M. Mohammadimehr**, “Electro-thermal non-local vibration analysis of embedded DWBNNNTs”, **IMechE, Part C: Journal of Mechanical Engineering Science**, 2012, Vol. 226, pp. 1410-1422.

187) Ali Ghorbanpour Arani, Reza Bakhtiari, **Mehdi Mohammadimehr**, and Mohammad Reza Mozdianfard, “Electromagnetomechanical responses of a radially polarized rotating functionally graded piezoelectric shaft”, **Turkish Journal of Engineering & Environmental Sciences**, 2012, Vol. 36, pp. 33-34 .

188) A. Ghorbanpour Arani, H. Rabbani, S. Amir, Z. Khoddami Maraghi, **M. Mohammadimehr**, E. Haghpourast, “Analysis of Nonlinear Vibrations for Multi-walled Carbon Nanotubes Embedded in an Elastic Medium”, **Journal of Solid Mechanics**, 2011, Vol. 3, No.3, pp. 258-270.

189) A. Ghorbanpour Arani, A. Jafarzadeh Jazi, M. Abdollahian, M.R. Mozdianfard, **M. Mohammadimehr**, S. Amir, “Exact Solution for Electrothermoelastic Behaviors of a Radially Polarized FGPM Rotating Disk”, **Journal of Solid Mechanics**, 2011, Vol. 3, No.3, pp. 244-257.

190) A. Ghorbanpour Arani, S. Amir, V. Sadooghi, **M. Mohammadimehr**, “Thermal Stress Analysis of a Composite Cylinder Reinforced with FG SWCNTs”, **Journal of Solid Mechanics**, 2011, Vol. 3, No. 2, pp. 132-141.

191) A. Ghorbanpour Arani, **M. Mohammadimehr** and M. Ghazi, “Curvature effects on thermal buckling load of DWCNT under axial compression force”, **Journal of Solid Mechanics**, 2011, Vol. 3, No. 1, pp. 1-8.

192) A. Ghorbanpour Arani, M.R. Mozdianfard , V. Sadooghi, **M. Mohammadimehr**, R. Kolahchi, "Magneto-thermo-elastic Behavior of Cylinder Reinforced with FG SWCNTs under Transient Thermal Field", **Journal of Solid Mechanics**, 2011, Vol. 3, No. 1, pp. 9-18.

193) A. Ghorbanpour Arani, M. Hashemian, A. Loghman, and **M. Mohammadimehr**, "Study of dynamic stability of the double-walled carbon nanotubes under axial loading embedded in an elastic medium by the energy method", **Journal of Applied Mechanics and Technical Physics**, 2011, Vol. 52, No. 5, pp. 815-824.

194) A. Ghorbanpour Arani, M. S. Zarei, **M. Mohammadimehr**, A. Arefmanesh, M. R. Mozdianfard, "The thermal effect on buckling analysis of a DWCNT embedded on the Pasternak foundation", **Physica E**, 2011, Vol. 43, pp. 1642-1648.

195) A. Ghorbanpour Arani, S. Maghamikia, **M. Mohammadimehr**, and A. Arefmanesh, "Buckling analysis of laminated composite rectangular plates reinforced by SWCNTs using analytical and finite element methods", **Journal of Mechanical Science and Technology**, 2011, Vol. 25, No. 3, pp. 809-820.

۱۹۶) علی قربان پور آرانی، محمد شریف زارعی، مهدی محمدی مهر، "تاثیر حرارت بر کماتش پیچشی نانو لوله کربنی دو جداره تحت بستر الاستیک نوع پاسترناک"، فصلنامه علمی پژوهشی مهندسی مکانیک جامدات، تابستان ۱۳۹۰، سال چهارم، شماره اول، ص ص ۱۱-۱۶.

A. Ghorbanpour Arani, M. Sharif Zarei, **M. Mohammadimehr**, , "Thermal effect on the torsional buckling of double walled carbon nanotube embedded in Pasternak foundation", **Journal of Solid Mechanics in Engineering**, 2011, Vol. 4 (1), pp. 11-16.

197) A. Ghorbanpour Arani, **M. Mohammadimehr**, A. R. Saidi, A. Arefmanesh, and Q. Han, "Pasternak effect on the buckling of embedded single-walled carbon nanotubes using non-local cylindrical shell theory", **Proc. IMechE, Part C: Journal of Mechanical Engineering Science**, 2011, Vol. 225, pp. 3045-3058.

198) **M. Mohammadimehr**; A. R. Saidi; A. Ghorbanpour Arani, and Q. Han, "Postbuckling equilibrium path of a long thin-walled cylindrical shell (single-walled carbon nanotubes) under axial compression using energy method", **International Journal of Engineering**. Jan. 2011, Vol. 24, No. 1, pp. 79-86.

199) A. Ghorbanpour Arani, J. Jafari Fesharaki, **M. Mohammadimehr**, S. Golabi, "Electro-magneto-thermo-mechanical Behaviors of a Radially Polarized FGPM Thick Hollow Sphere", **Journal of Solid Mechanics**, 2010, Vol. 2, No. 4, 305-315.

- 200) Z. S. Mousavi, A. Ghorbanpour Arani, and **M. Mohammadimehr**, “Small scale effect on the buckling analysis of a double-walled carbon nanotube under external radial pressure using energy method”, **Amirkabir Journal of Science & Technology**, Fall 2010, Vol. 42, No. 2, 11-16.
- 201) **M. Mohammadimehr**; A. R. Saidi; A. Ghorbanpour Arani, A. Arefmanesh, and Q. Han, “Buckling analysis of double-walled carbon nanotubes embedded in an elastic medium under axial compression using non-local Timoshenko beam theory”, **Proc. IMechE, Part C: Journal of Mechanical Engineering Science**, 2011, Vol. 225, No. 2, 498-506.
- 202) A. Ghorbanpour Arani, **M. Mohammadimehr**, A. R. Saidi, S. Shogaei, and A. Arefmanesh, “Thermal buckling analysis of double-walled carbon nanotubes considering the small-scale length effect”, **Proc. IMechE, Part C, Journal of Mechanical Engineering Science**, 2011, Vol. 225, 248-256.
- 203) **M. Mohammadimehr**; A. R. Saidi; A. Ghorbanpour Arani; A. Arefmanesh and Q. Han “Torsional buckling of a DWCNT embedded on Winkler and Pasternak foundations using nonlocal theory”, **Journal of Mechanical Science and Technology**, 2010, Vol. 24 (6), 1289-1299.
- 204) A. Ghorbanpour Arani, **M. Mohammadimehr**, A. Arefmanesh, A. Ghasemi. “Transverse vibration of short carbon nanotubes using cylindrical shell and beam models”, **Proc. IMechE, Part C: Journal of Mechanical Engineering Science**, 1 March 2010, Vol. 224 (3), pp. 745-756.
- 205) A. Ghorbanpour Arani, M. Shokravi, **M. Mohammadimehr**, “Buckling analysis of a double-walled carbon nanotube embedded in an elastic medium using the energy method”, **Journal of Solid Mechanics**, 2009, Vol. 1, No. 4, 289-299.

C. Research Papers (Conferences)

- 1) Mahan Dashti Gohari, **Mehdi Mohammadimehr**, 13-15 May 2025, “On Multi-Criteria Optimization of DVAs in Vibration Control of 2-DOF Systems”, The 33th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2025**), Iran University of Science & Technology, Tehran, Iran.
- 2) Mahsa Pahlavanzadeh, Mohsen Irani Rahaghi, Farshid Ahmadi, Mehdi Mohammadimehr, 13-15 May 2025, “Optimal control of the rod vibration for bladeless wind power generator”, The 33th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2025**), Iran University of Science & Technology, Tehran, Iran, **In Persian**.

- 3) Hamidreza Nadri Yazabadi, **Mehdi Mohammadimehr**, 23-25 Feb. 2025, “Stress analysis of a cylindrical composite gas storage tank with hemispherical lenses under internal pressure”, 4th National Conference on Soft Computing of Engineering Science in Industry and Society (**ASEIS 2025**), Velayat University, **In Persian**.
- 4) Ali Amiri, **Mehdi Mohammadimehr**, Mohammadreza Anvari, 27-29 May, 2020, “Buckling analysis of a thick-walled micro cylindrical sandwich panel reinforced by graphene platelets”, The 28th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2020**), School of Mechanical Engineering, Amirkabir University of Tehnology, Tehran, Iran.
- 5) Mohammadreza Anvari, **Mehdi Mohammadimehr**, Ali Amiri, 27-29 May, 2020, “Vibration analysis of a micro cylindrical sandwich panel by CNTRC”, The 28th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2020**), School of Mechanical Engineering, Amirkabir University of Tehnology, Tehran, Iran.
- 6) Fatemeh Bargozini, **Mehdi Mohammadimehr**, Buckling analysis of micro sandwich porous beam using Ritz method, The 28th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2020**), School of Mechanical Engineering, Amirkabir University of Tehnology, Tehran, Iran, **In Persian**.
- 7) **Mehdi Mohammadimehr**, Javad Rajabi, Buckling analysis of micro sandwich plate with polymeric and orthotropic cores and piezoelectric facesheets reinforced by CNT, The 27th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2019**), School of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, **In Persian**.
- 8) **Mehdi Mohammadimehr**, Javad Rajabi, Bending analysis of micro skew sandwich plate with various types of cores and CNTRC facesheets using Kantorovich method, The 27th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2019**), School of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, **In Persian**.
- 9) Hamid Taherian, Keyvan Torabi, **Mehdi Mohammadimehr**, Free vibration analysis of micro composite non-classical Timoshenko beam with variable thickness by considering concentrated mass of the end, The 27th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2019**), School of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, **In Persian**.
- 10) Mohammad Mousavi, **Mehdi Mohammadimehr**, Buckling analysis of micro annular sandwich plate with porous core and CNTRC, The 27th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2019**), School of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, **In Persian**.

- 11)** Pegah Khazaei, **Mehdi Mohammadimehr**, Buckling analysis of nanocomposite piezoelectric plate reinforced by CNTs, The 27th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2019**), School of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, **In Persian**.
- 12)** Mohammad Arefi, Morteza Mehrabi, Mehdi Mohammadimehr, 4 Oct. 2018, Bending analysis of annular sandwich plate embedded on orthotropic elastic foundations, The 4th Annual Conference of Application Researches at Mechanical Engineers (**EMCE2018**), Iran, **In Persian**.
- 13)** M.M. Nejadi, **M. Mohammadimehr**, 24-26 April, 2018, "Buckling Analysis of a Nano-Composite Beam Using Differential Quadrature Method", The 26th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2018**), School of Mechanical Engineering, Semnan University, Semnan, Iran.
- 14)** **M. Mohammadimehr**, Mostafa Bamdad, Kazem Alambeigi, 24-26 April, 2018, "Buckling analysis of nanocomposite Timoshenko beam using experimental test to obtain the mechanical properties", The 26th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2018**), School of Mechanical Engineering, Semnan University, Semnan, Iran.
- 15)** **M. Mohammadimehr**, Kazem Alambeigi, Mostafa Bamdad, 24-26 April, 2018, "Bending analysis of nanocomposite Reddy beam using experimental test to obtain mechanical properties", The 26th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2018**), School of Mechanical Engineering, Semnan University, Semnan, Iran.
- 16)** **Mehdi Mohammadimehr**, Ehsan Shabani, 2-4 May 2017, Free vibration analysis of double-bonded micro composite plate on orthotropic elastic foundation, The 25th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2017**), School of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, **In Persian**.
- 17)** Abbas Loghman, **Mehdi Mohammadimehr**, Soroush Gharghani, 2-4 May 2017, Free vibration analysis of cylindrical shell with variable thickness made of FGM using MCST, The 25th Annual International Conference of Iranian Society of Mechanical Engineers (**ISME 2017**), School of Mechanical Engineering, Tarbiat Modares University, Tehran, Iran, **In Persian**.
- 18)** M.R. Fatehi, M. Mehrabi, **M. Mohammadimehr**, 26 May 2016, "Simulation by finite element method and thermal analysis of spiral bevel gears", the 3rd. National Conference on Development of Civil, Engineering, Architecture, Electricity, and Mechanical in Iran, Gorgan, Golestan, Iran, **In Persian**.
- 19)** M. Mehrabi, **M. Mohammadimehr**, 26-28 April 2016, "Investigation of free vibration triple micro composite piezoelectric cylindrical shell reinforced by carbon nanotubes", the 24th. Annual

International Conference on Mechanical Engineering, -**ISME2016**, Faculty of Mechanical Engineering, Yazd University, Yazd, Iran, **In Persian**.

20) Mehdi Mohammadimehr, S Morteza Zabihi Ravandi, Hadi Rezaeimehr, 26-28 April 2016, Stress and vibration analysis of composite wing of aircraft under the influence of external forces using finite element software, the 24th Annual International Conference on Mechanical Engineering, -**ISME2016**, Faculty of Mechanical Engineering, Yazd University, Yazd, Iran, **In Persian**.

21) Mehdi Mohammadimehr, Hadi Rezaeimehr, 26-28 April 2016, The thermal effect on stress and buckling analysis of thick composite cylindrical shells under internal and external Pressures using Abacus software, the 24th Annual International Conference on Mechanical Engineering, -**ISME2016**, Faculty of Mechanical Engineering, Yazd University, Yazd, Iran, **In Persian**.

22) Mehdi Mohammadimehr, S Amir Sajad Khoddami, Mojtaba Mehrabi, 26-28 April 2016, Free vibration analysis of Timoshenko nano-beam under electric and magnetic fields based on strain gradient theory, the 24th Annual International Conference on Mechanical Engineering, -**ISME2016**, Faculty of Mechanical Engineering, Yazd University, Yazd, Iran, **In Persian**.

23) Mehdi Mohammadimehr, Seyyed Vahid Okhravi, Seyyed Mohammad Akhavan Alavi, 26-28 April 2016, Free vibration analysis of cylindrical panels with different distributions of carbon nanotubes on elastic substrate under the influence of electric and magnetic fields, the 24th Annual International Conference on Mechanical Engineering, -**ISME2016**, Faculty of Mechanical Engineering, Yazd University, Yazd, Iran, **In Persian**.

24) R. Rostami, Mehdi Mohammadimehr, Mehdi Ghannad, Amir Jalali, 14 April 2016, Vibration analysis of spinning piezoelectric nanocomposite microtube based on modified coupling stress theory, 1st International Conference on Mechanical and Aerospace Engineering, Faculty of Mechanical Engineering, Tehran University, Iran, **In Persian**.

25) R. Rostami, Mehdi Ghannad, Mehdi Mohammadimehr, Amir Jalali, 14-15 March 2016, Nano-composite rotating microtube analysis of carbon nanotube-reinforced spinning microtube, International Conference on Modern Research in Engineering Sciences, Faculty of Mechanical Engineering, Tehran University, Iran, **In Persian**.

26) M. Mohammadimehr, Shahram Hosseini Chaleshtori, Sajad Alimirzaie, 12-14 May, 2015, "Longitudinal vibration of functionally graded tapered microbars embedded in an elastic medium based on SGT", The 23rd Annual International Conference on Mechanical Engineering (**ISME 2015**), Mech. Eng. Dept., Amirkabir University of Technology, Tehran, Iran.

27) Mehdi Mohammadimehr, S Mostafa, Mostafavifar, 12-14 May 2015, Influence of small scale size on vibration of orthotropic nano-plate using Rayleigh-Ritz method, the 23th Annual International Conference on Mechanical Engineering, (**ISME2015**), Amirkabir University, Iran, **In Persian**.

28) Mehdi Mohammadimehr, S. Shahedi, 2-3 Dec. 2014, Nonlinear bending and vibration analysis of single walled carbon nanotubes based on nonlinear Timoshenko beam theory Using DQM, 6th Rotating Equipment Conference in Oil and Power Industries (**Rotating Equipment 2014**), Tehran, Iran, **In Persian**.

29) Rahmatollah Amini, Mehdi Mohamamdimehr, 2-3 Dec. 2014, Vibration analysis of Timoshenko microbeam with variable cross section made of functionally graded materials based on strain gradient theory by Rayleigh Ritz method, 6th Rotating Equipment Conference in Oil and Power Industries (**Rotating Equipment 2014**), Tehran, Iran, **In Persian**.

30) Mehdi Mohammadimehr, Hadi Rezaeimehr, Ehsan Loghman, 7-9 Oct 2014, Investigation of the effect of temperature, strain rate and friction on the stress-strain curve in a cylindrical piece forging process by a sinusoidal closed mold, 8th Iranian Mechanical Engineering Student Conference (**ISMESTU2014**), Guilan University, Iran, **In Persian**.

31) Mehdi Mohammadimehr, Amir Hossein Ghorbanpour Arani, Mehdi Hadid, 7-9 Oct 2014, Simulation of cold rolling process using Janston-Cook method and Abaqus software, 8th Iranian Mechanical Engineering Student Conference (**ISMESTU2014**), Guilan University, Iran, **In Persian**.

32) Mehdi Mohammadimehr, Ehsan Loghman, Hadi Rezaeimehr, 7-9 Oct 2014, Simulation and modeling of single- and five-steps wire drawing process in Abacus software, 8th Iranian Mechanical Engineering Student Conference (**ISMESTU2014**), Guilan University, Iran, **In Persian**.

33) Mehdi Mohammadimehr, Hasan BabaAkbar Zarei, Alireza MortazaviNasab, 7-9 Oct 2014, Simulation of sheet deep drawing process in Abacus finite element software, 8th Iranian Mechanical Engineering Student Conference (**ISMESTU2014**), Guilan University, Iran, **In Persian**.

34) Mehdi Mohammadimehr, Mohammad Hossein Tavajohi, S A M Managheb, 7-9 Oct 2014, Simulation of I-shaped beam bending process by finite element method, 8th Iranian Mechanical Engineering Student Conference (**ISMESTU2014**), Guilan University, Iran, **In Persian**.

35) Mehdi Mohammadimehr, Mojtaba Balakhanehei, Mostafa Heidarian, 7-9 Oct 2014, Simulation of deep drawing process using Abacus software, 8th Iranian Mechanical Engineering Student Conference (**ISMESTU2014**), Guilan University, Iran, **In Persian**.

36) M. Salemi, M. Mohammadimehr, 22-24 Oct 2014, "Bending and buckling analysis of functionally graded Mindlin nano-plate model based on strain gradient elasticity theory", Proceedings

of 5th International Congress on Nanoscience & Nanotechnology (**ICNN2014**), Tarbiat Modares University, Tehran, Iran.

37) B. Rousta Navi, M. Mohammadimehr, A. Ghorbanpour Arani, 22-24 Oct 2014, “The magnetic effect on stability of polymeric nanocomposite plate reinforced by single walled carbon nanotubes”, Proceedings of 5th International Congress on Nanoscience & Nanotechnology (ICNN2014), Tarbiat Modares University, Tehran, Iran.

38) M. Mohammadimehr, E. Golzary, S. Alimirzaie, 10-12 April 2014, “Static and free vibration analysis of tapered functionally graded polystyrene nano-composite beam reinforced by SWCNT under heat transfer and static forces using FEM”, 2nd International Conference on Nanotechnology (ICN 2014), Istanbul University, Turkey.

39) Borhan Rousta Navi, Mehdi Mohammadimehr, Ali Ghorbanpour Arani, 22-24 April 2014, Buckling and vibration of smart composite nanoplate under electromagnetic loading based on extended mixture rules, the 22th. Annual International Conference on Mechanical Engineering, (ISME2014), University of Chamran, Ahvaz, Iran, In Persian.

40) Mehdi Mohammadimehr, Mohaddeseh Bafghizadeh, 22-24 April 2014, Forced vibration analysis of triple BNNT nano rods using differential quadrature method, the 22th. Annual International Conference on Mechanical Engineering, (ISME2014), University of Chamran, Ahvaz, Iran, In Persian.

41) Mehdi Mohammadimehr, Maryam Rezaei, Maedeh Hesami, Shahram Hosseini Chaleshtari, Mohammad Bazrkar, 22-24 April 2014, Influence of density, temperature and volume fraction parameter on the deflection of composite beam-reinforced by carbon nanotube based on SMA, the 22th. Annual International Conference on Mechanical Engineering, (ISME2014), University of Chamran, Ahvaz, Iran, In Persian.

42) Mehdi Mohammadimehr, R. Rostami, 22-24 April 2014, The effect of elastic foundation on deflection of transversely isotropic plate based on layerwise theory using Reddy theory, the 22th. Annual International Conference on Mechanical Engineering, (ISME2014), University of Chamran, Ahvaz, Iran, In Persian.

43) Mehdi Mohammadimehr, Mohammad Salemi, 4-6 March 2014, Vibration analysis of nano Mindlin plate using SGT, 13th Conference of Iranian Aerospace Society (AERO2014), Tehran University, Iran, In Persian.

44) Mehdi Mohammadimehr, Seyyed Javad Atifeh, 4-6 March 2014, Stress and deflection analysis of annular circular plate made of functionally graded materials, 13th Conference of Iranian Aerospace Society (AERO2014), Tehran University, Iran, In Persian.

- 45) Mehdi Mohammadimehr**, Mohammad Javad Farahi, 4-6 March 2014, Wave propagation of nano twisted beam using SGT, 13th Conference of Iranian Areospace Society (**AERO2014**), Tehran University, Iran, **In Persian**.
- 46) Mehdi Mohammadimehr**, Ahmad Ali Monajemi, 4-6 March 2014, Stress analysis of hollow spheres made of functional graded materials under magnetic, thermal, and mechanical loads on Pasternak foundation, 13th Conference of Iranian Areospace Society (**AERO2014**), Tehran University, Iran, **In Persian**.
- 47) Mehdi Mohammadimehr**, Mohammad Salemi, 27 Feb 2014, Buckling and bending of functionally graded Mindlin plate using strain gradient theory, The first national conference on mechanical engineering (**NCMEI2014**), Shiraz, Iran, **In Persian**.
- 48) Mehdi Mohammadimehr**, Mohammad Mahmoudian, 27 Feb 2014, Analysis of free electro-mechanical vibration analysis of boron nitride nanocomposite functionally graded beam reinforced by nanocomposite on elastic substrate using modified couple stress theory, The first national conference on mechanical engineering (**NCMEI2014**), Shiraz, Iran, **In Persian**.
- 49) M. Mohammadimehr**, A. Ghorbanpour Arani, B. Rousta Navi, 18-19 Feb. 2014, “Prediction of elastic modulus of rectangular composite plate reinforced by aligned carbon nanotubes (CNTs) by three dimensional finite element method”, The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (**X-Mech-2014**), Iran University of Science and Technology, Tehran, Iran.
- 50) M. Mohammadimehr**, A. A. Monajemi, 18-19 Feb. 2014, “Nonlocal free vibration of viscoelastic nanoribbon resting on elastic medium”, The Bi-Annual International Conference on Experimental Solid Mechanics and Dynamics (**X-Mech-2014**), Iran University of Science and Technology, Tehran, Iran.
- 51) M. Mohammadimehr**, A. Ghorbanpour Arani, B. Rousta Navi, 8-9 Jan. 2014, “The free vibration analysis of nonlocal SLGS based on various plate theories under magnetic field”, International Conference on Machine Learning, Electrical, and Mechanical Engineering (**ICMLEME2014**), Dubai, UAE.
- 52) Mehdi Mohammadimehr**, Mohammad Hasan Esmaeili, 13-15 Aug. 2013, Buckling and free vibration analysis of cylindrical shells made of functional graded materials under combined loadings on Pasternak elastic substrate using TSDT, Second International Conference on New and Advanced Materials (**NAMIC2013**), Isfahan, Iran, **In Persian**.

- 53) **Mehdi Mohammadimehr**, Esmaeil Ahamdi, Seyyed Morteza Zabihi Ravandi, 13-15 Aug. 2013, The effect of pressure on free vibrations of cylindrical composite shell, Second International Conference on New and Advanced Materials (**NAMIC2013**), Isfahan, Iran, **In Persian**.
- 54) **Mehdi Mohammadimehr**, Alireza Mahkameh, Farzin Sayyadi, 13-15 Aug. 2013, Design and manufacture of glass / epoxy composite materials by torsion fiber and bending test on one and a half inch composite pipe, Second International Conference on New and Advanced Materials (**NAMIC2013**), Isfahan, Iran, **In Persian**.
- 55) **Mehdi Mohammadimehr**, Seyyed Amir Mohammad Managheb, 7-9 May 2013, Non-local axial buckling analysis of triple carbon nanotubes on Pasteuronic elastic substrate, the 21th. Annual International Conference on Mechanical Engineering, (**ISME2013**), University of Khaje Nasir, Tehran Iran, **In Persian**.
- 56) **Mehdi Mohammadimehr**, Mohammad Mehdi Mohammadi Najafabadi, 7-9 May 2013, The effect of Pasternak elastic substrate on free vibrations of single-layer nano-sheets considering surface stresses, the 21th. Annual International Conference on Mechanical Engineering, (**ISME2013**), University of Khaje Nasir, Tehran Iran, **In Persian**.
- 57) **Mehdi Mohammadimehr**, Ehsan Golzari, Amir Pourkhalili, 7-9 May 2013, Effect of cross-sectional area change on torsional buckling of single-walled carbon nanotube reinforced beam, the 21th. Annual International Conference on Mechanical Engineering, (**ISME2013**), University of Khaje Nasir, Tehran Iran, **In Persian**.
- 58) **Mehdi Mohammadimehr**, Mohamamd Reza Vakil, Mohammad Mehdi Mohammadi Najafabadi, 29-30 April 2013, Investigation of the effect of parameters on two-step hot rolling process of S1002 train wheel using finite element software, Third International Conference on Recent Advances in Railway Engineering (**ICRARE2013**), Iran University of Science & Technology, Tehran, Iran, **In Persian**.
- 59) Saber Azizi, Yashar Haghighatfar, **M. Mohammadimehr**, 7 March 2013, Determination of static polin voltage and operating voltage range for proper design of capacitive pressure micro sensor using micro-beam model, National Conference on Mechanical Engineering (**NCME2013**), Islamic Azad University, East Tehran Branch, **In Persian**.
- 60) **M. Mohammadimehr**, H. Afshari, 20-22 Feb. 2013, “GDQM for vibration analysis of functionally graded thin annular sector plates with non-uniform thickness on elastic foundation”, 12th Conference of Iranian Areospace Society (**AERO2013**), Aerospace Engineering Departement, Amirkabir University of Technology, Tehran, Iran.

- 61) M. Mohammadimehr**, Rahmatollah Amini, Mohammad Mahmoudian, 20-22 Feb 2013, The thermal effect on deflection of FG-nanocomposite beam reinforced by CNT using FEM, the 12th Iranian Aerospace Society Conference (**Aero2013**), Amirkabir University, Tehran, Iran, **In Persian**.
- 62) M. Mohammadimehr**, Mohammad Bazrkar, 20-22 Feb 2013, Determination of transverse tensile coefficient of composite reinforced polymeric carbon nanotube memory based on volume fraction of nanotube, temperature and mass density parameter, the 12th Iranian Aerospace Society Conference (**Aero2013**), Amirkabir University, Tehran, Iran, **In Persian**.
- 63) M. Mohammadimehr**, Hamed Khani, Farzin Sayyadi, Mohammad Sadegh Fallahzadeh, 19-21 Feb 2013, The effect of different factors on the direct extrusion process by finite element method, The 7th Iranian Mechanical Engineering Student Conference (**STU2013**), Tehran University, Tehran, Iran, **In Persian**.
- 64) M. Mohammadimehr**, Morteza Ghanepour, 19-21 Feb 2013, Investigation of the heat effect forging process using the finite element method, The 7th Iranian Mechanical Engineering Student Conference (**STU2013**), Tehran University, Tehran, Iran, **In Persian**.
- 65) M. Mohammadimehr**, A. H. Rahmati, 10-12 Oct 2012, “Electric excitation effect on the BNNRs vibration behavior under electro-thermo-mechanical loadings using nonlocal elasticity theory”, International Conference on Mechanical Engineering and Advanced Technology (**ICMEAT2012**), Islamic Azad University, Majlesi Branch, Abbasi International Hotel, Isfahan, Iran.
- 66) Mehdi Mohammadimehr**, Ahamd Ali Monajemi, 10-12 October 2012, Investigation of electro-thermo-elastic behavior of annular thick-walled sphere made of FGM on elastic foundation, International Conference on Mechanical Engineering and Advanced Technologies (**ICMEAT2012**), Isfahan, Iran, **In Persian**.
- 67) Mehdi Mohammadimehr**, Majid Hammami, Amin Rahmani, 10-12 October 2012, Simulation and modeling of planetary rolling shelf process using Abacus finite element software, International Conference on Mechanical Engineering and Advanced Technologies (**ICMEAT2012**), Isfahan, Iran, **In Persian**.
- 68) Mehdi Mohammadimehr**, Ali Eskini, 10-12 October 2012, Finite element simulation of tube form and hydroforming process for 304 stainless steel production, International Conference on Mechanical Engineering and Advanced Technologies (**ICMEAT2012**), Isfahan, Iran, **In Persian**.
- 69) Mehdi Mohammadimehr**, Elaheh Azizian, Amin Rahmani, 10-12 October 2012, The effect of backing rollers on the hot rolling process, International Conference on Mechanical Engineering and Advanced Technologies (**ICMEAT2012**), Isfahan, Iran, **In Persian**.

- 70) Mehdi Mohammadimehr**, Seyyed Morteza Zabihi Ravandi, Vahid Tahani, 11-13 September 2012, Investigation of preformed molds on hot casting process, The First Iranian Mass Transfer and Heat Transfer Conference (**ICHMT2012**), Zahedan, Iran, **In Persian**.
- 71) Mehdi Mohammadimehr**, Amir Hossein Rahmati, 11-13 September 2012, Thermal effects on the vibrational response of non-local nano rods, The First Iranian Mass Transfer and Heat Transfer Conference (**ICHMT2012**), Zahedan, Iran, **In Persian**.
- 72) M. Mohammadimehr**, A. H. Rahmati, 8-10 Sep 2012, “Nonlocal vibration of tapered nanorods under electro-thermo-mechanical loadings using DQM”, the 4th International Congress on Nanoscience & Nanotechnology (**ICNN 2012**), University of Kashan, Kashan, Iran.
- 73) Mehdi Mohammadimehr**, Ali Shafikhani, Seyyed Mehdi Sadeghi, 27-29 December 2011, Investigation of the effect of parameters such as frictional conditions, temperature, material properties and tool geometry on the finite element method, The Third International Conference and the 12th National Conference on Manufacturing (**ICME2011**), Isfahan, Iran, **In Persian**.
- 74) Mehdi Mohammadimehr**, Amin Rahmani, Mohammad Hassan Kheikha, 27-29 December 2011, Simulation and Optimization of hot rolling process by Finite Element Method, The Third International Conference and the 12th National Conference on Manufacturing (**ICME2011**), Isfahan, Iran, **In Persian**.
- 75) Mehdi Mohammadimehr**, Mehrdad Nasr, Mehdi Karami, 27-29 December 2011, Simulation of I-shaped hot rolling process finite element method, The Third International Conference and the 12th National Conference on Manufacturing (**ICME2011**), Isfahan, Iran, **In Persian**.
- 76) Mehdi Mohammadimehr**, Hasan Keikha, 5-7 July 2011, Influence of various factors on thick sheet rolling process by finite element method, Iranian Aircraft Structural Integrity Program Conference, Sharif University, Tehran, Iran, **In Persian**.
- 77) Mehdi Mohammadimehr**, Amir Hossein Rahmati, Ali Ghorbanpur Arani, 14-16 May 2011, The small scale effect on axial vibration of nanorodes on electrical and thermal loadings, the 19th Annual Conference on Mechanical Engineering(**ISME 2011**), University of Birjand, Birjand, Iran, **In Persian**.
- 78) Mohammad Karami**, Ali Reza Saidi, **Mehdi Mohammadimehr**, 14-16 May 2011, Buckling analysis of nonlocal multi-walled carbon nanotubes under combined loadings, the 19th Annual Conference on Mechanical Engineering(**ISME 2011**), University of Birjand, Birjand, Iran, **In Persian**.
- 79) Ali Ghorbanpur Arani**, **Mehdi Mohammadimehr**, Vahid Atabakhshian, 14-16 May 2011, Seyed Naser Farzanmehr, Postbuckling analysis of torsional buckling of double-walled carbon nanotubes using layerwise theory, the 19th Annual Conference on Mechanical Engineering(**ISME 2011**), University of Birjand, Birjand, Iran, **In Persian**.

- 80) Z. S. Mousavi, **M. Mohammadimehr**, A. R. Shahidi, 14-16 May 2011, “Effect of number of layers on the buckling analysis of CNTs using nonlocal elasticity theory”, the 19th Annual Conference on Mechanical Engineering(**ISME 2011**), University of Birjand, Birjand, Iran.
- 81) Ali Ghorbanpur Arani, Mohammad Sharif Zarei, **Mehdi Mohammadimehr**, 14-16 May 2011, The thermal effect on torsional buckling of double-walled carbon nanotubes on Pasternak foundation, the 19th Annual Conference on Mechanical Engineering(**ISME 2011**), University of Birjand, Birjand, Iran, **In Persian**.
- 82) Ali Ghorbanpur Arani, Mohammad Sharif Zarei, **Mehdi Mohammadimehr**, 1-3 March 2011, Vibration analysis of double-walled carbon nanotubes under thermal loading on elastic foundation using nonlocal elasticity theory, the 10th Conference of Iranian Aerospace Society (**IAS2011**), Tarbiat Modares, Tehran, Iran, **In Persian**.
- 83) Mohammad Karami, Ali Reza Saidi, **Mehdi Mohammadimehr**, 1-3 March 2011, Buckling analysis of nonlocal multi-walled carbon nanotubes on elastic foundation under combined axial and torsional loadings in thermal environment, the 10th Conference of Iranian Aerospace Society (**IAS2011**), Tarbiat Modares, Tehran, Iran, **In Persian**.
- 84) **M. Mohammadimehr**; A. R. Saidi; A. Ghorbanpour Arani, 1-2 Dec 2010, “Buckling Analysis of Single-Walled Carbon Nanotubes under Combined Loadings Embedded in an Elastic Medium using Nonlocal Elasticity Theory”, the 8th. Nanotechnology Iranian Studies Conference, Mashhad University of Medical and Science, Mashhad, Iran, **In Persian**.
- 85) **M. Mohammadimehr**; A. R. Saidi; 11-13 May 2010, “Torsional Buckling Analysis of Double Walled Carbon Nanotubes Resting on Winkler and Pasternak Elastic Foundations using Non-local Elasticity Theory”, **Proceeding** of the 18th. Annual International Conference on Mechanical Engineering,-ISME2010, Sharif University of Technology, Tehran, Iran, **In Persian**.
- 86) **M. Mohammadimehr**; A. Ghorbanpour Arani, Q. Han , 11-13 May 2010, “ Small Scale Effect on Buckling of Single-walled Carbon Nanotube under Radial Pressure embedded in an Elastic Medium”, **Proceeding** of the 18th. Annual International Conference on Mechanical Engineering,-**ISME2010**, Sharif University of Technology, Tehran, Iran, **In Persian**.
- 87) M. S. Zarei, **M. Mohammadimehr**, May 2009, “Buckling Analysis of Double-Walled Carbon Nanotube embedded in an Elastic Medium under Axial Pressure in a thermal filed Considering the Small Scale Effect”, **Proceeding** of the 17th. Annual (International) Conference on Mechanical Engineering-ISME2009, University of Tehran, Iran, **In Persian**.
- 88) M. S. Zarei, **M. Mohammadimehr**, 17-19 Feb. 2009, “Buckling Analysis of Double-Walled Carbon Nanotube embedded in an Elastic Medium under Radial Pressure in a thermal filed Considering the

- Small Scale Effect”, **Proceeding** of the 8th Iranian Aerospace Society Conference (**Aero2009**), Malek-e-Ashtar University of Technology, Isfahan, Iran., **In Persian**.
- 89) M. Mohammadimehr**, A. R. Saidi, A. Ghorbanpour Arani, 14-16 May 2008, “Effect of Small Length Scale on Elastic Buckling of Double-Walled Carbon Nanotube using Timoshenko Beam Theory”, the 16th Annual International Conference on Mechanical Engineering(**ISME2008**), Shahid Bahonar University of Kerman, Kerman, Iran.
- 90) M. Mohammadimehr**, A. R. Saidi, 14-16 May 2008, “A New Fourth-Order Shear Deformation Theory for the Free Vibration Analysis of Functionally Graded Rectangular Plates”, the 16th Annual International Conference on Mechanical Engineering(**ISME2008**), Shahid Bahonar University of Kerman, Kerman, Iran.
- 91) M. Mohammadimehr**, M. A. Hajabasi, 14-16 May 2008, “Analytical Solution under the Buckling Load of Power-Functionally Graded Material Rectangular Plate for the Combined Conditions SCSC”, **Proceeding** of the 16th Annual International Conference on Mechanical Engineering(**ISME 2008**), Shahid Bahonar University of Kerman, Kerman, Iran, **In Persian**.
- 92) M. Mohammadimehr**, A. R. Saidi, 19-21 Feb 2008, “A Fourth-Order Shear Deformation for Static Analysis of Thick Functionally Graded Rectangular Plates”, the 7th Conference of Iranian Aerospace Society (**Aero2008**), Sharif University of Technology, Tehran, Iran.
- 93) M. Mohammadimehr**, A. R. Saidi, 19-21 Feb 2008, “Bending Analysis of Thick Functionally Graded Rectangular Plates using Unconstrained Third-Order Shear Deformation Theory”, the 7th Conference of Iranian Aerospace Society (**Aero2008**), Sharif University of Technology, Tehran, Iran.
- 94) H. Farahmand**, A. R. Saidi, **M. Mohammadimehr**, 5-7 Sep 2007, “New Model of Plastic Deformation of Nano Crystalline Material”, **Proceeding** of the Second Nanotechnology Student Conference, University of Kashan, Kashan, Iran, **In Persian**.
- 95) H. R. Khatami**, **M. Mohammadimehr**, 29-31 Aug 2007, “Static Analysis of Truss Structure with Fuzzy Parameters”, **Proceeding** of the First Joint Congress on Fuzzy and Intelligent Systems(7th Iranian Conference on Fuzzy Systems and 8th Conference on Intelligent Systems) (isfs2007), Ferdowsi University of Mashhad, Mashhad, Iran, **In Persian**.
- 96) M. Mohammadimehr**, F. Aryana, M. Booraghi, S. N. Naserlavi., 16-18 May 2006, “Modification of Vibration Behavior of Shell Structures using Finite Element Method (FEM)”, **Proceeding** of the 14th Annual (International) Conference on Mechanical Engineering(**ISME 2006**), Isfahan University of Technology, Iran, **In Persian**.

97) F. Aryana, **M. Mohammadimehr**, S. N. Naserlavi, 16-17 Nov 2005, “Optimization of Vibration Behavior of Shells”, **Proceedings** of the Second Iranian Thin Walled Structures Conference, Shahid Bahonar University of Kerman, Iran, **In Persian**.

98) M. Khatibi , **M. Mohammadimehr**, M. Mohammadi, 26-27 Nov 2004, “Truss Optimization using the Modification Genetic Operators”, **Proceedings** of the sixth Conference on Intelligent Systems (CIS 2004), Shahid Bahonar University of Kerman(Civil Engineering Department), Iran, **In Persian**.

TEACHING RECORD:

1. Teaching at **University of Kashan**, Iran, for BS Student (1 Feb 2006 until 1 Jul 2006) and (22 Sep. 2008 until now)

BSc Course Taught: Static, Strength of Materials I, Strength of Materials II, Dynamics, Linear vibration, Introduction to finite element method, Application plasticity and metal forming.

MSc and PhD course Taught: Advanced numerical computations, Advanced Vibration-Continuous vibration system, Plate and shell theories.

2. Teaching at **Shahid Bahonar University of Kerman**, Iran, for BS Student, (From 2004 until 31 January 2008)

BSc Course Taught: Static, Strength of Materials I, Strength of Materials II, Advanced Strength of Materials, Dynamics, Machine design using Ansys, Composite of Material.

3. Teaching at **Islamic Azad University-Kashan Branch** (2008-2011)

BSc Course Taught: Strength of Materials I, Strength of Materials II.

MSc course Taught: Continuum mechanic.

4. Teaching at **Shahid Dadbin of Kerman** (2002-2006)

BSc Course Taught: Static, Strength of Materials I, Machine design, English language.

COURSES I HAVE TAKEN DURING MS DEGREE

Continuum Mechanics	Advanced Dynamic
Advanced Mathematics(I)	Optimization (Genetic Algorithm)
Elasticity	Advanced Vibration
Finite Element Method	Advanced Composite of Materials

COURSES I HAVE TAKEN DURING PHD DEGREE

Advanced Mathematics(I I)	Nonlinear Elasticity
Non Linear Vibration	Wave Propagation in Mechanics
Boundary Element Method	Thin Plates and Shells
Continuum Mechanic of Plasticity	Variation Methods in Mechanics

COMPUTER SKILLS: AUTOCAD, ANSYS, MATLAB, FORTRAN, MAPLE, MS Office (Word, Excel, PowerPoint)

HONORS AND AWARDS:

1. **Top Student** (First Rank) of MS Degree with **GPA 18.67 over 20**
2. **Top Student** (First Rank) of Ph. D. Degree with **GPA 18.75 over 20**
3. **I went in China for Sabbatical Period from 5 March 2008 to 19 June 2008 under Supervision Prof. Qiang Han.**
4. **OBJECTIVE:** To request Sabbatical Term for PhD thesis in relation to **buckling and post buckling analysis of multi-walled carbon nanotube embedded in an elastic medium under combined mechanical loading using energy method** under the supervisions **Prof. A. R. Saidi** in Shahid Bahonar University of Kerman, Kerman, Iran and the advisor **Prof. A. Qhorbanpour Arani** in University of Kashan, Kashan, Iran and **Prof. Qiang Han** in Department of Engineering Mechanics, School of Civil Engineering and Transportation, South China University of technology, Guangzhou, China.

List of Master's Theses and Doctoral Dissertations

Master's Theses

1. Zahra Khodami Maraghi

Nonlinear Thermo-Electro-Mechanical Vibrations of a Double-Walled Boron Nitride Nanotube Conveying Fluid and Embedded in an Elastic Medium Using the Nonlocal Piezoelectricity Theory
Fall 2011; University of Kashan. Supervisor: Prof. Ali Ghorbanpour. Advisor: Mehdi Mohammadimehr.

2. Mohammadreza Khosravi-Jeddi

Design and Fabrication of a Vibratory Turning Tool with a Bending Mode
December 2012; University of Kashan. Supervisor: Prof. Saeed Amini. Advisor: Mehdi Mohammadimehr.

3. Amir Abbas Farsi

Effect of Surface Stresses on the Electro-Thermo-Mechanical Vibrations of a Three-Layer Boron Nitride Nanotube Conveying Viscous Fluid on an Elastic Substrate Using Euler-Bernoulli Beam Theory
September 2013; Islamic Azad University, South Tehran Branch. Second Supervisor: Mehdi Mohammadimehr.

4. Mohammad Mahmoudian Najafabadi

Bending and Free Vibration Analysis of an Electro-Thermo-Mechanical Timoshenko Functionally Graded Nanocomposite Beam Reinforced with Boron Nitride Nanotubes on an Elastic Substrate Based on the Modified Couple Stress Theory
June 2014; University of Kashan. Supervisor: Mehdi Mohammadimehr.

5. Mohammad Salemi

Bending, Buckling, and Free Vibration Analysis of a Carbon Nanotube-Reinforced Micro Composite Plate in Hygrothermal Environments Using Higher-Order Shear Deformation and Strain Gradient Theories
September 2014; University of Kashan. Supervisor: Mehdi Mohammadimehr.

6. Mohammad Javad Farahi

Buckling, Vibration, and Wave Propagation Analysis of a Curved Nanobeam Using Strain Gradient and Eringen's Nonlocal Theories
March 2015; University of Kashan. Supervisor: Mehdi Mohammadimehr.

7. Ahmad Ali Monjmi Gilani

Nonlinear Vibrations of a Viscoelastic Boron Nitride Nanoribbon Based on a Mass Nanosensor Using the Modified Strain Gradient Theory

September 2015; University of Kashan. Supervisor: Mehdi Mohammadimehr.

8. Seyed Javad Atifeh

Stress and Free Vibration Analysis of a Perforated Circular Functionally Graded Nanocomposite Plate Reinforced with Boron Nitride Nanotubes on an Elastic Substrate Based on the Modified Couple Stress and Nonlocal Theories

September 2015; University of Kashan. Supervisor: Mehdi Mohammadimehr.

9. Sajjad Alimirzaei

Nonlinear Bending, Buckling, and Free Vibration Analysis of a Timoshenko Viscoelastic Nanocomposite Beam Reinforced with Various Distributions of Boron Nitride Nanotubes Considering Initial Geometric Imperfection Based on Nonlocal Elasticity and Modified Strain Gradient Theories Using the Finite Element Method

October 2015; University of Kashan. Supervisor: Mehdi Mohammadimehr.

10. Ehsan Golzari

Forced Vibration of a Functionally Graded Nanocomposite Beam Reinforced with Carbon Nanotubes under Various Distributions of Moving Loads Based on the Modified Strain Gradient Theory, with Investigation of Cross-Sectional Ovalization in the Torsional Buckling of a Nanocomposite Beam

December 2015; University of Kashan. Supervisor: Mehdi Mohammadimehr.

11. Rasoul Rostami

Buckling and Vibration Analysis of a Rotating Nanocomposite Microtube Reinforced with Carbon Nanotubes under Pressure and Thermal and Magnetic Fields

December 2015; Shahrood University of Technology. Second Supervisor: Mehdi Mohammadimehr.

12. Seyed Mostafa Mostafavi Far

Free Vibration and Buckling Analysis of a Sandwich Plate with Perfect Bonding and Interfacial Delamination, a Flexible Transversely Orthotropic Core, and Nanocomposite Face Sheets Reinforced with Carbon Nanotubes under Temperature- and Magnetic-Dependent Material Properties Using Strain Gradient Theory

September 2016; University of Kashan. Supervisor: Mehdi Mohammadimehr.

13. Mojtaba Mehrabi

Free Vibration and Buckling Analysis of a Coupled Composite Sandwich Cylindrical Microshell with

Perfect Bonding and Interfacial Delamination, Reinforced with Flow-Conveying Nanotubes, under Various Physical Fields and Temperature-Dependent Material Properties
December 2016; University of Kashan. Supervisor: Mehdi Mohammadimehr.

14. Ehsan Shabani-Nejad

Buckling and Free Vibration Analysis of a Coupled Viscoelastic Sandwich Microplate with a Flexible Transversely Orthotropic Core and Composite Face Sheets Reinforced with Carbon Nanotubes and Boron Nitride, Resting on an Orthotropic Elastic Substrate, Based on Generalized Strain Gradient and Sinusoidal Shear Deformation Theories under Initial Stress

March 2017; University of Kashan. Supervisor: Mehdi Mohammadimehr.

15. Raziieh Yazdani Kachoui

Free Vibration and Wave Propagation Analysis of a Moderately Thick Coupled Copper–Nickel Sandwich Cylindrical Shell Reinforced with Nanotubes under Magneto-Electro-Hydro-Thermo-Mechanical Loading and Temperature-Dependent Material Properties

February 2018; University of Kashan. Supervisor: Mehdi Mohammadimehr.

16. Ahmad Hashim Kareem Al-Bahadele

Bending and Buckling Analysis of an FGM Timoshenko Beam Resting on a Pasternak Foundation
29 April 2018; University of Kashan.

17. Ali Hasan Shahid

Free Vibration of an FGM Euler–Bernoulli Beam Resting on a Pasternak Foundation
29 April 2018; University of Kashan.

18. Soroush Ghorghani

Free Vibration, Buckling, and Bending Analysis of a Variable-Thickness FGM Cylindrical Microshell Using the Copper–Nickel Model Based on the Modified Couple Stress Theory

April 2018; University of Kashan. Supervisor: Prof. Abbas Lakman. Advisor: Mehdi Mohammadimehr.

19. Ali Nassir Husain Alzerygawi

Buckling Analysis of an FGM Rectangular Plate under Biaxial Loading Resting on a Pasternak Foundation

8 September 2018; University of Kashan.

20. Seyed Mohammad Akhavan Alavi

Vibration Analysis and Active Optimal Control of a Smart Sandwich Microbeam with Piezoelectric

Face Sheets Reinforced with Various Distributions of Carbon Nanotubes as Sensors and Actuators
September 2018; University of Kashan. Supervisor: Mehdi Mohammadimehr.

21. Mohammad Afshari

Vibration and Buckling Analysis of a Sandwich Plate with a Honeycomb Core and Piezoelectric Face Sheets Resting on an Anisotropic Viscoelastic Substrate

November 2018; University of Kashan. Supervisor: Prof. Ali Ghorbanpour. Advisor: Mehdi Mohammadimehr.

22. Javad Rajabi

Bending, Buckling, and Forced Vibration Analysis of an Inclined Sandwich Microplate with an Orthotropic Core and Piezoelectric Face Sheets Reinforced with Nanocomposites under Temperature- and Moisture-Dependent Material Properties

February 2019; University of Kashan. Supervisor: Mehdi Mohammadimehr.

23. Hamid Taherian

Vibration Analysis of a Nonclassical Rotating Micro Composite Timoshenko Beam with Variable Cross-Section Based on a Concentrated End Mass Using the Modified Couple Stress Theory

February 2019; University of Kashan. Supervisor: Dr. Keyvan Torabi. Advisor: Mehdi Mohammadimehr.

24. Morteza Mehrabi

Free Vibration and Bending Analysis of a Three-Layer Circular Functionally Graded Microplate with Piezomagnetic Layers Based on the Modified Strain Gradient Theory

February 2019; University of Kashan. Supervisor: Dr. Mohammad Arefi. Advisor: Mehdi Mohammadimehr.

25. Mostafa Bamdad

Bending and Buckling Analysis of an FGM Sandwich Beam with a Porous Core and Composite Face Sheets Reinforced with Boron Nitride Nanotubes under a Shape Memory Alloy

August 2019; University of Kashan. Supervisor: Mehdi Mohammadimehr.

26. Kazem Alam-Beigi

Free and Forced Vibration Analysis of a Sandwich Timoshenko Beam with a Porous Core and Composite Face Sheets Reinforced with Carbon Nanotubes under a Shape Memory Alloy

September 2019; University of Kashan. Supervisor: Mehdi Mohammadimehr.

27. Mohammad Javad Namayandeh

Design, Fabrication, and Stress Analysis of a Prototype Refractory Ceramic for Gas Turbine

Combustion Chambers Reinforced with Various Ceramic Nanopowders in Hollow Isotropic and Anisotropic Cylinders under High Asymmetric Thermal Stresses

September 2019; University of Kashan. Supervisor: Mehdi Mohammadimehr.

28. Sona Hanifehloo

Buckling and Vibration Analysis of a Sandwich Beam with Nanocomposite Face Sheets and a Porous Core Based on Sinusoidal Shear Deformation Theory

November 2019; University of Kashan. Supervisor: Mehdi Mohammadimehr.

29. Saeid Yavari

Free Vibration Analysis of a Hollow Circular Sandwich Plate with a Porous Functionally Graded Core Using the Chebyshev–Ritz Method

December 2020; University of Kashan. Supervisor: Mehdi Mohammadimehr.

30. Masoud Honarpisheh

Experimental Analysis of the Effects of Plasma Cutting Parameters on Residual Stress Distribution Using the Contour Method in 37St Steel Plate

March 2021; University of Kashan. Supervisor: Mehdi Mohammadimehr. Advisor: Dr. Mohammad Honarpisheh.

31. Ali Amiri

Vibration Analysis of a Rotating Sandwich Cylindrical Micropanel with a Porous Core and Nanocomposite Face Sheets with Shape Memory Alloys

February 2022; University of Kashan. First Supervisor: Mehdi Mohammadimehr. Second Supervisor: Dr. Mohsen Irani-Rahaghi.

32. Morteza Kalouli Moghie

Free Vibration Analysis of Euler–Bernoulli and Timoshenko Sandwich Beams with a Porous Core and Nanocomposite Face Sheets Using the Variational Iteration Method for Different Boundary Conditions

March 2022; University of Kashan. Supervisor: Mehdi Mohammadimehr.

33. Alireza Norouzi

Analytical and Experimental Study of Bending, Buckling, and Vibration of a Five-Layer Sandwich Plate with a Foam Core, Carbon- or Graphene-Based Nanocomposite Face Sheets, and a Composite Face Sheet Reinforced with a Shape Memory Alloy

February 2023; University of Kashan. Supervisor: Mehdi Mohammadimehr.

34. Mojtaba Charkhali-Inanloo

Experimental Study of the Effect of Core Type and Thickness on the Mechanical Properties of a

Sandwich Structure with Composite Face Sheets and a 3D-Printed Polyurethane Core
February 2023; University of Kashan. Supervisor: Mehdi Mohammadimehr.

35. Fatemeh Shirdalan

Vibration Analysis and Control of a Curved Sandwich Microcomposite Shell Reinforced with Graphene Sheets with Honeycomb, Truss, and Corrugated Cores Based on Higher-Order Shear Deformation Theories

February 2023; University of Kashan. Supervisor: Mehdi Mohammadimehr.

36. Hamed Hatamian Golsafidi

Investigation of Radiation-Shielding and Mechanical Properties of Tungsten-Nanoparticle-Reinforced Epoxy–Glass Fiber Composite

July 2023; University of Kashan. First Supervisor: Dr. Ahmad Ramezani Moghaddam Arani. Second Supervisor: Mehdi Mohammadimehr.

37. Fatemeh Barzegin

Analytical and Experimental Study of Buckling and Vibration of Nanocomposite Plates and Beams Using the Ritz Method Based on Various Shear Deformation Theories and Fabrication of Carbon Nanorods

July 2023; University of Kashan. Supervisor: Mehdi Mohammadimehr.

38. Iman Shaterzadeh

Vibration and Buckling Analysis of a Sandwich Multilayer Nanocomposite Conical Microshell with a Honeycomb Core

September 2023; University of Kashan. Supervisor: Mehdi Mohammadimehr.

39. Seyed Amir Rafatipour

Improvement of the Mechanical Properties of Carbon-Fiber-Reinforced Thermoplastics Coated with Photopolymer Resins Using Ultrasonic Technology

September 2024; University of Kashan. Supervisor: Dr. Saeed Amir. Advisor: Mehdi Mohammadimehr.

40. Shima Mohammadian

Vibration Analysis of a Variable-Cross-Section Sandwich Beam with a Honeycomb Core and Nanocomposite Face Sheets Using the Finite Element Method

October 2024; University of Kashan. First Supervisor: Mehdi Mohammadimehr. Second Supervisor: Dr. Mohsen Irani-Rahaghi.

41. Nasim Mirali

Design, Fabrication, and Vibration Analysis of a Nanocomposite Bone Scaffold Using Sinusoidal Shear Deformation Theory

February 2025; University of Kashan. Supervisor: Mehdi Mohammadimehr.

42. Erfan Arabzadeh Ziari

Numerical and Experimental Buckling and Three-Point Bending Analysis of a Curved Sandwich Beam Reinforced with Natural Microparticles with Various Foam Cores

October 2025; University of Kashan. First Supervisor: Mehdi Mohammadimehr. Second Supervisor: Dr. Abbas Lakman.

43. Mahan Dashti Gohari

Optimization of Dynamic Vibration Absorber Parameters for Multi-Degree-of-Freedom Systems

October 2025; University of Kashan. Supervisor: Mehdi Mohammadimehr.

44. Erfan Aghabozorg

Electroelastic Bending and Free Vibration Analysis of a Multilayer Porous Sandwich Plate Reinforced with Graphene Nanoplatelets and Piezoelectric Layers Resting on a Winkler–Pasternak Foundation Based on Higher-Order Shear and Normal Deformation Theory

October 2025; University of Kashan. First Supervisor: Dr. Mohammad Arefi. Second Supervisor: Mehdi Mohammadimehr.

45. Mohammad Arabzadeh Ziari

Experimental Analysis and Low-Velocity Impact Simulation of a Composite Sandwich Structure Reinforced with Natural Microparticles under Various 3D-Printed PLA Cores

October 2025; University of Kashan. First Supervisor: Mehdi Mohammadimehr. Second Supervisor: Dr. Abbas Lakman.

46. Mohsen Asgari Sarshabadar

Numerical, Experimental, and Simulation Analysis of Forced Vibration of a Curved Viscoelastic Sandwich Beam Reinforced with Natural Microparticles and Various Cores

May 2026; University of Kashan. Supervisor: Mehdi Mohammadimehr.

47. Behrouz Enteshari

Vibration Analysis of a Hollow Circular Plate Using Higher-Order Shear Deformation Theory

July 2026; University of Kashan. Supervisor: Dr. Hossein Ashrafi. Advisor: Mehdi Mohammadimehr.

Doctoral Dissertations

1. Borhan Rosta Navi

Dynamic Stability Analysis of a Piezoelectric Viscoelastic Polymer Composite Nanoplate
December 2015; University of Kashan. First Supervisor: Prof. Ali Ghorbanpour Arani. Second Supervisor: Mehdi Mohammadimehr; Advisor: Prof. Ahmadreza Ghasemi.

2. Mehdi Moradi

Creep Damage Analysis and Lifetime Estimation of Thick-Walled Cylinders under Symmetric and Asymmetric Axial Mechanical and Thermal Loading Using the Larson–Miller Method
December 2017; University of Kashan. Supervisor: Dr. Abbas Lakman. Advisor: Mehdi Mohammadimehr.

3. Saeed Shahidi

Nonlinear Vibration and Dynamic Stability Analysis of Delaminated Sandwich Beams with a Compressible Core and Polymer Nanocomposite Face Sheets
May 2018; University of Kashan. Supervisor: Mehdi Mohammadimehr.

4. Mohsen Emdadi Barkadehi

Bending, Buckling, Modal Analysis, and Stability Analysis of Porous Circular Sandwich Microplates Reinforced with Carbon Nanotubes
December 2019; University of Kashan. Supervisor: Mehdi Mohammadimehr.

5. Mohammad Mehdi Nejadi

Buckling and Vibration Analysis of a Sandwich Beam with a Porous Functionally Graded Core and Graphene-Platelet-Reinforced Composite Face Sheets Containing Fluid Flow
February 2021; University of Kashan. Supervisor: Mehdi Mohammadimehr.

6. Rasoul Rostami

Vibration Control Analysis of Rotating Sandwich Cylindrical Shells
October 2021; University of Kashan. Supervisor: Mehdi Mohammadimehr.

7. Amir Amini Zazerani

Development of Piecewise Quasi-Linear Models Concurrent with the Design of an Optimal Robust Controller without Jump for Nonlinear Vibration Control of a Carbon-Nanotube-Equipped Composite Plate

February 2022; University of Kashan. First Supervisor: Dr. Alireza Faraji. Second Supervisor: Mehdi Mohammadimehr.

8. Ashkan Farazin

Design, Fabrication, and Characterization of a Self-Healing Nanocomposite Reinforced with Zinc Oxide Nanoparticles and Hollow Silver Nanoparticles Based on Porous Silica for Rapid Wound Healing and Its Molecular Dynamics Simulation

April 2023; University of Kashan. Supervisor: Mehdi Mohammadimehr.

9. Ahmad Ali Monjmi Gilani

Dynamic Analysis of a Rotating Viscoelastic Sandwich Beam with a Magnetorheological Elastomeric Core and Graphene-Platelet-Reinforced Nanocomposite Face Sheets

September 2023; University of Kashan. Supervisor: Mehdi Mohammadimehr.

10. Mohammad Safari

Forced Vibration Analysis of a Piezo-Magneto-Electric Rectangular Microbeam and Microplate of a Polymer Sandwich Based on the Modified Strain Gradient Theory

February 2023; University of Kashan. First Supervisor: Mehdi Mohammadimehr. Second Supervisor: Dr. Hossein Ashrafi.

11. Mehrdad Babaeian

Measurement of Residual Stresses in Metallic, Composite, and Nanocomposite Plates and Beams Based on Modal Analysis, Digital Image Correlation, and Drilling

September 2024; University of Kashan. Supervisor: Mehdi Mohammadimehr.

12. Mohammad Javad Jafari Afzal

Active Vibration Control of a Piezoelectric Porous Functionally Graded Viscoelastic Sandwich Micro/Macro Beam Resting on a Walso Foundation

March 2025; University of Kashan. Supervisor: Mehdi Mohammadimehr.

13. Mohammad Ali Mohammadimehr

Vibration Analysis of a Thick-Walled Double-Curvature Porous Sandwich Panel Reinforced with Nanocomposite Face Sheets under Various Physical Loadings and with a Negative Poisson's Ratio

September 2025; University of Kashan. First Supervisor: Dr. Abbas Lakman. Second Supervisor: Dr. Saeed Amir; First Advisor: Mehdi Mohammadimehr; Second Advisor: Dr. Ehsan Arshid.

BOOKS:

1-Title: *From Needs to Product: The Transformation Process*; **Authors:** Mohammad Arfa Al-Rafiei, Mehdi Mohammadimehr. **Publisher:** Sokhanvaran, University of Kashan, **Year of Publication:** 2020