

Masoud Tahani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/562015/publications.pdf>

Version: 2024-02-01

104
papers

1,739
citations

257450

24
h-index

345221

36
g-index

104
all docs

104
docs citations

104
times ranked

1105
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanofibrous polycaprolactone/chitosan membranes for preventing postsurgical tendon adhesion. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2022, 110, 1279-1291.	3.4	9
2	A comparative study of bone remodeling around hydroxyapatite-coated and novel radial functionally graded dental implants using finite element simulation. <i>Medical Engineering and Physics</i> , 2022, 102, 103775.	1.7	13
3	Strain gradient bistability of bimorph piezoelectric curved beam interacting with a curved electrode. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022, 44, 1.	1.6	4
4	A finite element study of a fractured tibia treated with a unilateral external fixator: The effects of the number of pins and cortical thickness. <i>Injury</i> , 2022, 53, 1815-1823.	1.7	0
5	Nonlinear Vibration Analysis of Beam Microgyroscopes using Nonlocal Strain Gradient Theory. <i>Sensing and Imaging</i> , 2021, 22, 1.	1.5	3
6	Optimization of Connecting Rod Design Parameters for External Fixation System: A Biomechanical Study. <i>Journal of Foot and Ankle Surgery</i> , 2021, 60, 1169-1174.	1.0	0
7	Failure analysis of fiberglass vinyl ester composite cylinders subjected to fire and asymmetric transient pressure. <i>Polymer Composites</i> , 2021, 42, 5607.	4.6	1
8	Study of structural, electronic, and mechanical properties of pure and hydrogenated multilayer penta-graphene nano-plates using density functional theory. <i>Materials Today Communications</i> , 2021, 28, 102608.	1.9	1
9	Osteosynthesis of diaphyseal tibia fracture with locking compression plates: A numerical investigation using Taguchi and ANOVA. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2021, 37, e3528.	2.1	0
10	A mechanobiological approach to find the optimal thickness for the locking compression plate: Finite element investigations. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 408-418.	1.8	7
11	Bone fracture healing under external fixator: Investigating impacts of several design parameters using Taguchi and ANOVA. <i>Biocybernetics and Biomedical Engineering</i> , 2020, 40, 1525-1534.	5.9	8
12	Graphene-based mass sensors: Chaotic dynamics analysis using the nonlocal strain gradient model. <i>Applied Mathematical Modelling</i> , 2020, 81, 799-817.	4.2	16
13	Multiscale asymptotic homogenization analysis of epoxy-based composites reinforced with different hexagonal nanosheets. <i>Composite Structures</i> , 2019, 222, 110929.	5.8	4
14	Size-dependent pull-in instability analysis of electrically actuated packaged FG micro-cantilevers under the effect of mechanical shock. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	3
15	Determination of rigidities, stiffness coefficients and elastic constants of multi-layer graphene sheets by an asymptotic homogenization method. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	1.6	7
16	Edge effects in adhesively bonded composite joints integrated with piezoelectric patches. <i>Composite Structures</i> , 2018, 200, 187-194.	5.8	7
17	Dynamic Analysis of Rectangular Micro-plates Under Mechanical Shock in Presence of Electrostatic Actuation. <i>Sensing and Imaging</i> , 2018, 19, 1.	1.5	2
18	Evaluation of Tension, Bending and Twisting Rigidities of Single-Layer Graphene Sheets by an Analytical Asymptotic Homogenization Model. <i>Mechanika</i> , 2018, 24, .	0.5	4

#	ARTICLE	IF	CITATIONS
19	Study of Stone-wales Defect on Elastic Properties of Single-layer Graphene Sheets by an Atomistic based Finite Element Model. <i>International Journal of Engineering, Transactions B: Applications</i> , 2018, 31, .	0.7	0
20	Analytical prediction of Young's modulus of carbon nanotubes using a variational method. <i>Applied Mathematical Modelling</i> , 2017, 45, 1031-1043.	4.2	8
21	Nonlinear analysis of functionally graded piezoelectric energy harvesters. <i>Composite Structures</i> , 2017, 182, 199-208.	5.8	31
22	Introduction of Maximum Stress Parameter for the Evaluation of Stress Shielding Around Orthopedic Screws in the Presence of Bone Remodeling Process. <i>Journal of Medical and Biological Engineering</i> , 2017, 37, 703-716.	1.8	4
23	Size-dependent dynamic pull-in analysis of geometric non-linear micro-plates based on the modified couple stress theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 262-274.	2.7	26
24	A frequency criterion for doubly clamped beam-type N/MEMS subjected to the van der Waals attraction. <i>Applied Mathematical Modelling</i> , 2017, 41, 650-666.	4.2	14
25	Relief of edge effects in bi-adhesive composite joints. <i>Composites Part B: Engineering</i> , 2017, 108, 153-163.	12.0	13
26	The Influence of Couple Stress Components and Electrostatic Actuation on Free Vibration Characteristics of Thin Micro-Plates. <i>MATEC Web of Conferences</i> , 2016, 54, 03008.	0.2	2
27	Interlaminar stresses in thick cylindrical shell with arbitrary laminations and boundary conditions under transverse loads. <i>Composites Part B: Engineering</i> , 2016, 98, 151-165.	12.0	12
28	Vibration analysis of orthotropic circular and elliptical nano-plates embedded in elastic medium based on nonlocal Mindlin plate theory and using Galerkin method. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2463-2474.	1.5	18
29	Stability analysis of electrostatically actuated nano/micro-beams under the effect of van der Waals force, a semi-analytical approach. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2016, 34, 130-141.	3.3	19
30	An analytical solution for thermoelastic damping in a micro-beam based on generalized theory of thermoelasticity and modified couple stress theory. <i>Applied Mathematical Modelling</i> , 2016, 40, 3164-3174.	4.2	63
31	Nonlinear free and forced vibrations of curved single walled carbon nanotube on a Pasternak elastic foundation. <i>Scientia Iranica</i> , 2016, 23, 3087-3098.	0.4	1
32	Size-dependent free vibrations of electrostatically predeformed functionally graded micro-cantilevers. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 87, 012117.	0.6	10
33	Transient heat conduction in multiwall carbon nanotubes. <i>Latin American Journal of Solids and Structures</i> , 2015, 12, 711-729.	1.0	3
34	Thermal Bending Analysis of Doubly Curved Composite Laminated Shell Panels with General Boundary Conditions and Laminations. <i>Journal of Thermal Stresses</i> , 2015, 38, 250-270.	2.0	2
35	Dynamic response of multiwall boron nitride nanotubes subjected to impact. <i>Bulletin of Materials Science</i> , 2015, 38, 1797-1805.	1.7	1
36	Thermoelastic damping in a nonlocal nano-beam resonator as NEMS based on the type III of Greenâ€“Naghdi theory (with energy dissipation). <i>International Journal of Mechanical Sciences</i> , 2015, 92, 304-311.	6.7	40

#	ARTICLE	IF	CITATIONS
37	Equivalent dynamic thermoviscoelastic modeling of ionic polymers. <i>Polymers for Advanced Technologies</i> , 2015, 26, 385-391.	3.2	5
38	On thermomechanical stress analysis of adhesively bonded composite joints in presence of an interfacial void. <i>Composite Structures</i> , 2015, 130, 116-123.	5.8	11
39	Analytical determination of size-dependent natural frequencies of fully clamped rectangular microplates based on the modified couple stress theory. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 2135-2145.	1.5	15
40	Size-dependent free vibration analysis of electrostatically pre-deformed rectangular micro-plates based on the modified couple stress theory. <i>International Journal of Mechanical Sciences</i> , 2015, 94-95, 185-198.	6.7	39
41	Prediction of Stress Shielding Around Orthopedic Screws: Time-Dependent Bone Remodeling Analysis Using Finite Element Approach. <i>Journal of Medical and Biological Engineering</i> , 2015, 35, 545-554.	1.8	18
42	Nonlinear viscoelastic dynamic modeling of high-speed polypyrrole-based trilayer bending plate-like actuators based on first-order shear deformation plate theory. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 292-308.	2.5	1
43	Size-dependent dynamic pull-in analysis of beam-type MEMS under mechanical shock based on the modified couple stress theory. <i>Applied Mathematical Modelling</i> , 2015, 39, 934-946.	4.2	45
44	A Novel Method for Investigating the Casimir Effect on Pull-In Instability of Electrostatically Actuated Fully Clamped Rectangular Nano/Microplates. <i>Journal of Nanoscience</i> , 2015, 2015, 1-9.	2.6	6
45	Nonlinear Bending Analysis of Sector Graphene Sheet Embedded in Elastic Matrix Based on Nonlocal Continuum Mechanics. <i>International Journal of Engineering, Transactions B: Applications</i> , 2015, 28, .	0.7	1
46	Dynamic Pull-In Investigation of a Clamped-Clamped Nanoelectromechanical Beam under Ramp-Input Voltage and the Casimir Force. <i>Shock and Vibration</i> , 2014, 2014, 1-5.	0.6	1
47	An investigation into the static response of fiber-reinforced open conical shell panels considering various types of orthotropy. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 3-21.	2.1	7
48	An alternative reduced order model for electrically actuated micro-beams under mechanical shock. <i>Mechanics Research Communications</i> , 2014, 57, 34-39.	1.8	25
49	Molecular dynamics study of DNA oligomers under angled pulling. <i>RSC Advances</i> , 2014, 4, 10751.	3.6	5
50	An analytical investigation on thermomechanical stress analysis of adhesively bonded joints undergoing heat conduction. <i>Archive of Applied Mechanics</i> , 2014, 84, 67-79.	2.2	11
51	Analytical solution for dynamic behavior of multiwall carbon nanotubes subjected to mechanical shock loading. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 3545-3554.	1.5	1
52	Three-dimensional transient analysis of functionally graded truncated conical shells with variable thickness subjected to an asymmetric dynamic pressure. <i>International Journal of Pressure Vessels and Piping</i> , 2014, 119, 29-38.	2.6	19
53	Accurate electrostatic and van der Waals pull-in prediction for fully clamped nano/micro-beams using linear universal graphs of pull-in instability. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 63, 151-159.	2.7	18
54	Accurate determination of stress distributions in adhesively bonded homogeneous and heterogeneous double-lap joints. <i>European Journal of Mechanics, A/Solids</i> , 2013, 39, 197-208.	3.7	16

#	ARTICLE	IF	CITATIONS
55	Analytical solution for bending problem of moderately thick composite annular sector plates with general boundary conditions and loadings using multi-term extended Kantorovich method. <i>Archive of Applied Mechanics</i> , 2013, 83, 969-985.	2.2	8
56	Non-linear analysis of fiber-reinforced open conical shell panels considering variation of thickness and fiber orientation under thermo-mechanical loadings. <i>Composites Part B: Engineering</i> , 2013, 52, 245-261.	12.0	16
57	Pulling of double-stranded DNA by atomic force microscopy: a simulation in atomistic details. <i>RSC Advances</i> , 2013, 3, 10516.	3.6	15
58	Interlaminar stresses in general thick rectangular laminated plates under in-plane loads. <i>Composites Part B: Engineering</i> , 2013, 47, 58-69.	12.0	20
59	Analytical solutions for adhesively bonded composite single-lap joints under mechanical loadings using full layerwise theory. <i>International Journal of Adhesion and Adhesives</i> , 2013, 43, 32-41.	2.9	29
60	Three-dimensional transient analysis of functionally graded cylindrical shells subjected to asymmetric dynamic pressure. <i>Science and Engineering of Composite Materials</i> , 2013, 20, 75-85.	1.4	4
61	Bending Analysis of Piezolaminated Rectangular Plates under Electromechanical Loadings Using Multi-Term Extended Kantorovich Method. <i>Mechanics of Advanced Materials and Structures</i> , 2013, 20, 415-433.	2.6	10
62	Response of multiwall carbon nanotubes to impact loading. <i>Applied Mathematical Modelling</i> , 2013, 37, 5359-5370.	4.2	7
63	Bending analysis of laminated sector plates with polar and rectilinear orthotropy. <i>European Journal of Mechanics, A/Solids</i> , 2013, 40, 84-96.	3.7	17
64	Free-edge stress analysis of general rectangular composite laminates under bending, torsion and thermal loads. <i>European Journal of Mechanics, A/Solids</i> , 2013, 42, 229-240.	3.7	31
65	Analytical solution of piezolaminated rectangular plates with arbitrary clamped/simply-supported boundary conditions under thermo-electro-mechanical loadings. <i>Applied Mathematical Modelling</i> , 2013, 37, 3228-3241.	4.2	16
66	A Study on Systematic Procedure for Choosing the Best Powertrain Configuration in Hybrid Sedan Cars. <i>Applied Mechanics and Materials</i> , 2013, 390, 360-364.	0.2	2
67	A study on dynamic behaviour of functionally graded thick hollow circular cylinders. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 498-513.	2.1	2
68	Investigating Nonlinear Vibration of a Fully Clamped Nanobeam in Presence of the van der Waals Attraction. <i>Applied Mechanics and Materials</i> , 2012, 226-228, 181-185.	0.2	9
69	An analytical solution for thermal shock analysis of multiwall carbon nanotubes. <i>Computational Materials Science</i> , 2012, 61, 291-297.	3.0	11
70	Static and transient analysis of laminated cylindrical shell panels with various boundary conditions and general layups. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2012, 92, 124-140.	1.6	15
71	Non-linear analysis of moderately thick laminated plates and shell panels under thermo-mechanical loadings. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2012, 92, 652-667.	1.6	10
72	Transient response of laminated plates with arbitrary laminations and boundary conditions under general dynamic loadings. <i>Archive of Applied Mechanics</i> , 2012, 82, 615-630.	2.2	32

#	ARTICLE	IF	CITATIONS
73	A glance on the effects of temperature on axisymmetric dynamic behavior of multiwall carbon nanotubes. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 720-728.	3.4	5
74	Analytical solution for bending of moderately thick radially functionally graded sector plates with general boundary conditions using multi-term extended Kantorovich method. <i>Composites Part B: Engineering</i> , 2012, 43, 1405-1416.	12.0	40
75	Transient dynamic and free vibration analysis of functionally graded truncated conical shells with non-uniform thickness subjected to mechanical shock loading. <i>Composites Part B: Engineering</i> , 2012, 43, 2161-2171.	12.0	56
76	Interlaminar stresses in thick rectangular laminated plates with arbitrary laminations and boundary conditions under transverse loads. <i>Composite Structures</i> , 2012, 94, 1793-1804.	5.8	25
77	Thermal shock analysis and thermo-elastic stress waves in functionally graded thick hollow cylinders using analytical method. <i>International Journal of Mechanics and Materials in Design</i> , 2011, 7, 167-184.	3.0	19
78	Effects of dimensional parameters and various boundary conditions on axisymmetric vibrations of multi-walled carbon nanotubes using a continuum model. <i>Archive of Applied Mechanics</i> , 2011, 81, 1129-1140.	2.2	10
79	Two-dimensional dynamic analysis of thermal stresses in a finite-length FG thick hollow cylinder subjected to thermal shock loading using an analytical method. <i>Acta Mechanica</i> , 2011, 220, 299-314.	2.1	22
80	Hybrid layerwise-differential quadrature transient dynamic analysis of functionally graded axisymmetric cylindrical shells subjected to dynamic pressure. <i>Composite Structures</i> , 2011, 93, 2663-2670.	5.8	37
81	Analytical dynamic modeling of fast trilayer polypyrrole bending actuators. <i>Smart Materials and Structures</i> , 2011, 20, 115020.	3.5	8
82	Transient Analysis of Functionally Graded Thick Hollow Circular Cylinders under Mechanical Loadings. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 1223-1236.	0.5	3
83	Transient and Dynamic Stress Analysis of Functionally Graded Thick Hollow Cylinder Subjected to Thermal Shock Loading Using an Analytical Method. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2010, 4, 1346-1359.	0.5	3
84	Analysis of interlaminar stresses in general cross-ply laminates with distributed piezoelectric actuators. <i>Composite Structures</i> , 2010, 92, 757-768.	5.8	25
85	Analytical Approach to Free Vibrations of Cracked Timoshenko Beams Made of Functionally Graded Materials. <i>Mechanics of Advanced Materials and Structures</i> , 2010, 17, 353-365.	2.6	22
86	Displacement time history analysis and radial wave propagation velocity in pressurized multiwall carbon nanotubes. <i>Computational Materials Science</i> , 2010, 49, 283-292.	3.0	15
87	SEP controlling parameter in design of above knee prosthesis with moving ankle. , 2010, , .		0
88	Analytical solutions for bending analysis of rectangular laminated plates with arbitrary lamination and boundary conditions. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 2253-2267.	1.5	29
89	An ant colony optimization approach to multi-objective optimal design of symmetric hybrid laminates for maximum fundamental frequency and minimum cost. <i>Structural and Multidisciplinary Optimization</i> , 2009, 37, 367-376.	3.5	74
90	Non-linear analysis of functionally graded plates in cylindrical bending under thermomechanical loadings based on a layerwise theory. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 248-256.	3.7	21

#	ARTICLE	IF	CITATIONS
91	Higher-order coupled and uncoupled analyses of free edge effect in piezoelectric laminates under mechanical loadings. <i>Materials & Design</i> , 2009, 30, 2473-2482.	5.1	7
92	Accurate determination of coupling effects on free edge interlaminar stresses in piezoelectric laminated plates. <i>Materials & Design</i> , 2009, 30, 2963-2974.	5.1	12
93	A more comprehensive modeling of atomic force microscope cantilever. <i>Ultramicroscopy</i> , 2008, 109, 54-60.	1.9	51
94	Multi-Objective Optimal Design of Sandwich Composite Laminates Using Simulated Annealing and FEM. , 2008, , .		0
95	MECHANICALLY INDUCED TRABECULAR BONE REMODELING INCLUDING CELLULAR ACCOMMODATION EFFECT: A COMPUTER SIMULATION. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2008, 32, 371-382.	0.8	7
96	Analysis of laminated composite beams using layerwise displacement theories. <i>Composite Structures</i> , 2007, 79, 535-547.	5.8	82
97	Modification of fracture toughness of isotactic polypropylene with a combination of EPR and CaCO ₃ particles. <i>Journal of Materials Processing Technology</i> , 2006, 175, 446-451.	6.3	45
98	Three-dimensional stress analysis of rotating composite beams due to material discontinuities. <i>Materials & Design</i> , 2006, 27, 976-982.	5.1	2
99	Deformation and stress analysis of circumferentially fiber-reinforced composite disks. <i>International Journal of Solids and Structures</i> , 2005, 42, 2741-2754.	2.7	29
100	Accurate Determination of Interlaminar Stresses in General Cross-Ply Laminates. <i>Mechanics of Advanced Materials and Structures</i> , 2004, 11, 67-92.	2.6	33
101	Influence of filler particles on deformation and fracture mechanism of isotactic polypropylene. <i>Journal of Materials Processing Technology</i> , 2004, 155-156, 1459-1464.	6.3	56
102	Three-dimensional interlaminar stress analysis at free edges of general cross-ply composite laminates. <i>Materials & Design</i> , 2003, 24, 121-130.	5.1	30
103	Edge effects of uniformly loaded cross-ply composite laminates. <i>Materials & Design</i> , 2003, 24, 647-658.	5.1	23
104	Free edge stress analysis of general cross-ply composite laminates under extension and thermal loading. <i>Composite Structures</i> , 2003, 60, 91-103.	5.8	94