

Mohammed Sobhy

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55
papers

1,888
citations

27
h-index

42
g-index

55
ext. papers

2,204
ext. citations

3.4
avg, IF

6.53
L-index

#	Paper	IF	Citations
55	Thermal buckling of various types of FGM sandwich plates. <i>Composite Structures</i> , 2010 , 93, 93-102	5.3	159
54	Buckling and free vibration of exponentially graded sandwich plates resting on elastic foundations under various boundary conditions. <i>Composite Structures</i> , 2013 , 99, 76-87	5.3	153
53	Nonlocal elasticity theory for thermal buckling of nanoplates lying on Winkler-Pasternak elastic substrate medium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 53, 251-259	3	102
52	An accurate shear deformation theory for vibration and buckling of FGM sandwich plates in hydrothermal environment. <i>International Journal of Mechanical Sciences</i> , 2016 , 110, 62-77	5.5	94
51	Thermomechanical bending and free vibration of single-layered graphene sheets embedded in an elastic medium. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 56, 400-409	3	70
50	A comprehensive study on FGM nanoplates embedded in an elastic medium. <i>Composite Structures</i> , 2015 , 134, 966-980	5.3	68
49	A New Quasi 3D Nonlocal Plate Theory for Vibration and Buckling of FGM Nanoplates. <i>International Journal of Applied Mechanics</i> , 2017 , 09, 1750008	2.4	66
48	Small scale effect on hygro-thermo-mechanical bending of nanoplates embedded in an elastic medium. <i>Composite Structures</i> , 2013 , 105, 163-172	5.3	66
47	Bending analysis of FG viscoelastic sandwich beams with elastic cores resting on Pasternak's elastic foundations. <i>Acta Mechanica</i> , 2010 , 212, 233-252	2.1	66
46	Hygrothermal vibration of orthotropic double-layered graphene sheets embedded in an elastic medium using the two-variable plate theory. <i>Applied Mathematical Modelling</i> , 2016 , 40, 85-99	4.5	61
45	Thermal Buckling of Functionally Graded Plates Resting On Elastic Foundations Using the Trigonometric Theory. <i>Journal of Thermal Stresses</i> , 2011 , 34, 1119-1138	2.2	52
44	Dynamic bending response of thermoelastic functionally graded plates resting on elastic foundations. <i>Aerospace Science and Technology</i> , 2013 , 29, 7-17	4.9	49
43	Porosity and inhomogeneity effects on the buckling and vibration of double-FGM nanoplates via a quasi-3D refined theory. <i>Composite Structures</i> , 2019 , 220, 289-303	5.3	46
42	Generalized two-variable plate theory for multi-layered graphene sheets with arbitrary boundary conditions. <i>Acta Mechanica</i> , 2014 , 225, 2521-2538	2.1	46
41	Levy-type solution for bending of single-layered graphene sheets in thermal environment using the two-variable plate theory. <i>International Journal of Mechanical Sciences</i> , 2015 , 90, 171-178	5.5	45
40	Nonlocal piezo-hydrothermal analysis for vibration characteristics of a piezoelectric Kelvin-Voigt viscoelastic nanoplate embedded in a viscoelastic medium. <i>Acta Mechanica</i> , 2018 , 229, 3-19	2.1	43
39	Bending of a fiber-reinforced viscoelastic composite plate resting on elastic foundations. <i>Archive of Applied Mechanics</i> , 2011 , 81, 77-96	2.2	36

38	Dynamic and instability analyses of FG graphene-reinforced sandwich deep curved nanobeams with viscoelastic core under magnetic field effect. <i>Composites Part B: Engineering</i> , 2019 , 174, 106966	10	35
37	Magnetic field effect on thermomechanical buckling and vibration of viscoelastic sandwich nanobeams with CNT reinforced face sheets on a viscoelastic substrate. <i>Composites Part B: Engineering</i> , 2018 , 154, 492-506	10	35
36	Hygrothermal deformation of orthotropic nanoplates based on the state-space concept. <i>Composites Part B: Engineering</i> , 2015 , 79, 224-235	10	33
35	Elastic Foundation Analysis of Uniformly Loaded Functionally Graded Viscoelastic Sandwich Plates. <i>Journal of Mechanics</i> , 2012 , 28, 439-452	1	32
34	Natural Frequency and Buckling of Orthotropic Nanoplates Resting on Two-Parameter Elastic Foundations with Various Boundary Conditions. <i>Journal of Mechanics</i> , 2014 , 30, 443-453	1	31
33	Differential quadrature method for magneto-hygrothermal bending of functionally graded graphene/Al sandwich-curved beams with honeycomb core via a new higher-order theory. <i>Journal of Sandwich Structures and Materials</i> , 2021 , 23, 1662-1700	2.1	31
32	A nonlocal strain gradient model for dynamic deformation of orthotropic viscoelastic graphene sheets under time harmonic thermal load. <i>Physica B: Condensed Matter</i> , 2018 , 538, 74-84	2.8	30
31	Magneto-electro-thermal bending of FG-graphene reinforced polymer doubly-curved shallow shells with piezoelectromagnetic faces. <i>Composite Structures</i> , 2018 , 203, 844-860	5.3	30
30	A simplified shear and normal deformations nonlocal theory for bending of nanobeams in thermal environment. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 70, 121-128	3	29
29	Thermo-electro-mechanical bending of FG piezoelectric microplates on Pasternak foundation based on a four-variable plate model and the modified couple stress theory. <i>Microsystem Technologies</i> , 2018 , 24, 1227-1245	1.7	27
28	Thermoelastic Response of FGM Plates with Temperature-Dependent Properties Resting on Variable Elastic Foundations. <i>International Journal of Applied Mechanics</i> , 2015 , 07, 1550082	2.4	27
27	The modified couple stress model for bending of normal deformable viscoelastic nanobeams resting on visco-Pasternak foundations. <i>Mechanics of Advanced Materials and Structures</i> , 2020 , 27, 525-538	1.8	27
26	EFFECT OF TRANSVERSE NORMAL AND SHEAR DEFORMATION ON A FIBER-REINFORCED VISCOELASTIC BEAM RESTING ON TWO-PARAMETER ELASTIC FOUNDATIONS. <i>International Journal of Applied Mechanics</i> , 2010 , 02, 87-115	2.4	26
25	Wave propagation in magneto-porosity FG bi-layer nanoplates based on a novel quasi-3D refined plate theory. <i>Waves in Random and Complex Media</i> , 2019 , 1-21	1.9	22
24	Levy solution for bending response of FG carbon nanotube reinforced plates under uniform, linear, sinusoidal and exponential distributed loadings. <i>Engineering Structures</i> , 2019 , 182, 198-212	4.7	20
23	Wave propagation in FG porous GPLs-reinforced nanoplates under in-plane mechanical load and Lorentz magnetic force via a new quasi 3D plate theory. <i>Mechanics Based Design of Structures and Machines</i> , 1-20	1.7	19
22	A comprehensive study on the size-dependent hygrothermal analysis of exponentially graded microplates on elastic foundations. <i>Mechanics of Advanced Materials and Structures</i> , 2020 , 27, 816-830	1.8	19
21	Nonlocal Thermal and Mechanical Buckling of Nonlinear Orthotropic Viscoelastic Nanoplates Embedded in a Visco-Pasternak Medium. <i>International Journal of Applied Mechanics</i> , 2018 , 10, 1850086	2.4	18

20	Thermal buckling of double-layered graphene system in humid environment. <i>Materials Research Express</i> , 2018 , 5, 015028	1.7	15
19	Buckling and vibration of FG graphene platelets/aluminum sandwich curved nanobeams considering the thickness stretching effect and exposed to a magnetic field. <i>Results in Physics</i> , 2020 , 16, 102865	3.7	15
18	Axial magnetic field effect on wave propagation in bi-layer FG graphene platelet-reinforced nanobeams. <i>Engineering With Computers</i> , 1	4.5	15
17	Thermodynamical Bending of FGM Sandwich Plates Resting on Pasternak's Elastic Foundations. <i>Advances in Applied Mathematics and Mechanics</i> , 2015 , 7, 116-134	2.1	14
16	Investigation of Vibration and Thermal Buckling of Nanobeams Embedded in An Elastic Medium Under Various Boundary Conditions. <i>Journal of Mechanics</i> , 2016 , 32, 277-287	1	13
15	Size-Dependent Hygro-Thermal Buckling of Porous FGM Sandwich Microplates and Microbeams Using a Novel Four-Variable Shear Deformation Theory. <i>International Journal of Applied Mechanics</i> , 2020 , 12, 2050017	2.4	13
14	Transient instability analysis of viscoelastic sandwich CNTs-reinforced microplates exposed to 2D magnetic field and hygrothermal conditions. <i>Composite Structures</i> , 2020 , 245, 112349	5.3	12
13	Piezoelectric bending of GPL-reinforced annular and circular sandwich nanoplates with FG porous core integrated with sensor and actuator using DQM. <i>Archives of Civil and Mechanical Engineering</i> , 2021 , 21, 1	3.4	11
12	Transient Hygrothermal Analysis of FG Sandwich Plates Lying on a visco-Pasternak Foundation via a Simple and Accurate Plate Theory. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 5423-5437	2.5	10
11	Modified three-phase-lag Green-Naghdi models for thermomechanical waves in an axisymmetric annular disk. <i>Journal of Thermal Stresses</i> , 2020 , 43, 1017-1029	2.2	9
10	3-D elasticity numerical solution for magneto-hygrothermal bending of FG graphene/metal circular and annular plates on an elastic medium. <i>European Journal of Mechanics, A/Solids</i> , 2021 , 88, 104265	3.7	9
9	Influence of a 2D magnetic field on hygrothermal bending of sandwich CNTs-reinforced microplates with viscoelastic core embedded in a viscoelastic medium. <i>Acta Mechanica</i> , 2020 , 231, 71-99 ^{2.1}	2.1	9
8	Hygrothermal deformation of spinning FG graphene sandwich cylindrical shells having an auxetic core. <i>Engineering Structures</i> , 2022 , 251, 113433	4.7	7
7	Stability Analysis of Smart FG Sandwich Plates with Auxetic Core. <i>International Journal of Applied Mechanics</i> ,	2.4	7
6	Wave propagation and free vibration of FG graphene platelets sandwich curved beam with auxetic core resting on viscoelastic foundation via DQM. <i>Archives of Civil and Mechanical Engineering</i> , 2022 , 22, 1	3.4	6
5	Mechanical and thermal buckling of FG-GPLs sandwich plates with negative Poisson's ratio honeycomb core on an elastic substrate. <i>European Physical Journal Plus</i> , 2022 , 137, 1	3.1	4
4	Analytical buckling temperature prediction of FG piezoelectric sandwich plates with lightweight core. <i>Materials Research Express</i> , 2021 , 8, 095704	1.7	3
3	Analysis of Electromagnetic Effects on Vibration of Functionally Graded GPLs Reinforced Piezoelectromagnetic Plates on an Elastic Substrate. <i>Crystals</i> , 2022 , 12, 487	2.3	1

2	Electro-thermal buckling of FG graphene platelets-strengthened piezoelectric beams under humid conditions. <i>Advances in Mechanical Engineering</i> , 2022 , 14, 168781322210910	1.2	1
1	Hygrothermal wave dispersion analysis of metal foam microplates strengthened by graphene embedded in a viscoelastic medium under 2D magnetic field effect. <i>Mechanics of Advanced Materials and Structures</i> ,1-13	1.8	1