

Metin Aydogdu

List of Publications by Year in descending order

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86
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126858

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1614
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#	ARTICLE	IF	CITATIONS
1	A general nonlocal beam theory: Its application to nanobeam bending, buckling and vibration. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1651-1655.	1.3	556
2	A new shear deformation theory for laminated composite plates. <i>Composite Structures</i> , 2009, 89, 94-101.	3.1	433
3	Free vibration analysis of functionally graded beams with simply supported edges. <i>Materials & Design</i> , 2007, 28, 1651-1656.	5.1	423
4	Axial vibration of the nanorods with the nonlocal continuum rod model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 861-864.	1.3	304
5	Levy type solution method for vibration and buckling of nanoplates using nonlocal elasticity theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 954-959.	1.3	195
6	Vibration of a variable cross-section beam. <i>Mechanics Research Communications</i> , 2007, 34, 78-84.	1.0	139
7	Axial vibration analysis of nanorods (carbon nanotubes) embedded in an elastic medium using nonlocal elasticity. <i>Mechanics Research Communications</i> , 2012, 43, 34-40.	1.0	133
8	Thermal buckling analysis of cross-ply laminated composite beams with general boundary conditions. <i>Composites Science and Technology</i> , 2007, 67, 1096-1104.	3.8	112
9	Vibration analysis of cross-ply laminated beams with general boundary conditions by Ritz method. <i>International Journal of Mechanical Sciences</i> , 2005, 47, 1740-1755.	3.6	109
10	Nonlocal elasticity effect on vibration of in-plane loaded double-walled carbon nano-tubes. <i>Acta Mechanica</i> , 2007, 190, 185-195.	1.1	108
11	Modeling carbon nanotube-based mass sensors using axial vibration and nonlocal elasticity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1229-1234.	1.3	102
12	Longitudinal wave propagation in nanorods using a general nonlocal unimodal rod theory and calibration of nonlocal parameter with lattice dynamics. <i>International Journal of Engineering Science</i> , 2012, 56, 17-28.	2.7	96
13	Vibration of multi-walled carbon nanotubes by generalized shear deformation theory. <i>International Journal of Mechanical Sciences</i> , 2008, 50, 837-844.	3.6	82
14	Three-Dimensional Vibration Analyses of Functionally Graded Plates under Various Boundary Conditions. <i>Journal of Reinforced Plastics and Composites</i> , 2007, 26, 1847-1863.	1.6	81
15	Axial vibration of carbon nanotube heterojunctions using nonlocal elasticity. <i>Computational Materials Science</i> , 2010, 49, 619-627.	1.4	79
16	Semi-inverse Method for Vibration and Buckling of Axially Functionally Graded Beams. <i>Journal of Reinforced Plastics and Composites</i> , 2008, 27, 683-691.	1.6	78
17	Buckling analysis of cross-ply laminated beams with general boundary conditions by Ritz method. <i>Composites Science and Technology</i> , 2006, 66, 1248-1255.	3.8	77
18	Longitudinal wave propagation in multiwalled carbon nanotubes. <i>Composite Structures</i> , 2014, 107, 578-584.	3.1	73

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19	Torsional statics and dynamics of nanotubes embedded in an elastic medium. <i>Composite Structures</i> , 2014, 114, 80-91.	3.1	66
20	Vibration analyses of FGM plates with in-plane material inhomogeneity by Ritz method. <i>Composite Structures</i> , 2012, 94, 1398-1405.	3.1	55
21	Free Vibration Analysis of Angle-ply Laminated Beams with General Boundary Conditions. <i>Journal of Reinforced Plastics and Composites</i> , 2006, 25, 1571-1583.	1.6	54
22	Vibration analysis of cross-ply laminated square plates with general boundary conditions. <i>Composites Science and Technology</i> , 2003, 63, 1061-1070.	3.8	52
23	Conditions for functionally graded plates to remain flat under in-plane loads by classical plate theory. <i>Composite Structures</i> , 2008, 82, 155-157.	3.1	51
24	Comparison of Various Shear Deformation Theories for Bending, Buckling, and Vibration of Rectangular Symmetric Cross-ply Plate with Simply Supported Edges. <i>Journal of Composite Materials</i> , 2006, 40, 2143-2155.	1.2	50
25	Wave propagation analysis of embedded (coupled) functionally graded nanotubes conveying fluid. <i>Composite Structures</i> , 2015, 132, 1260-1273.	3.1	45
26	Effects of shear deformation on vibration of doublewalled carbon nanotubes embedded in an elastic medium. <i>Archive of Applied Mechanics</i> , 2008, 78, 711-723.	1.2	44
27	Torsional vibration analysis of double walled carbon nanotubes using nonlocal elasticity. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 71-84.	1.7	42
28	Axial dynamics of a nanorod embedded in an elastic medium using doublet mechanics. <i>Composite Structures</i> , 2017, 160, 1268-1278.	3.1	40
29	Forced transverse vibration of nanoplates using nonlocal elasticity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1752-1759.	1.3	39
30	Noncoaxial vibration and buckling analysis of embedded double-walled carbon nanotubes by using doublet mechanics. <i>Composites Part B: Engineering</i> , 2018, 137, 60-73.	5.9	39
31	Free vibration of axially loaded composite beams using a four-unknown shear and normal deformation theory. <i>Composite Structures</i> , 2017, 178, 406-414.	3.1	38
32	On the forced vibration of carbon nanotubes via a non-local Euler-Bernoulli beam model. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2010, 224, 497-503.	1.1	37
33	Structural dynamics and stability analysis of 2D-FG microbeams with two-directional porosity distribution and variable material length scale parameter. <i>Mechanics Based Design of Structures and Machines</i> , 2020, 48, 164-191.	3.4	37
34	A comprehensive study on the size-dependent analysis of strain gradient multi-directional functionally graded microplates via finite element model. <i>Aerospace Science and Technology</i> , 2021, 111, 106550.	2.5	37
35	Buckling of laminated composite and sandwich beams due to axially varying in-plane loads. <i>Composite Structures</i> , 2019, 210, 391-408.	3.1	34
36	On the vibration of nanorods restrained by a linear spring in-span. <i>Mechanics Research Communications</i> , 2014, 57, 90-96.	1.0	33

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37	Vibration of a rotating composite beam with an attached point mass. <i>Composite Structures</i> , 2018, 190, 1-9.	3.1	33
38	Size dependent flapwise vibration analysis of rotating two-directional functionally graded sandwich porous microbeams based on a transverse shear and normal deformation theory. <i>International Journal of Mechanical Sciences</i> , 2019, 159, 165-181.	3.6	32
39	Flapwise vibration of rotating composite beams. <i>Composite Structures</i> , 2015, 134, 672-679.	3.1	30
40	Statics and dynamics of nanorods embedded in an elastic medium: Nonlocal elasticity and lattice formulations. <i>European Journal of Mechanics, A/Solids</i> , 2018, 67, 254-271.	2.1	29
41	A nonlocal rod model for axial vibration of double-walled carbon nanotubes including axial van der Waals force effects. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 3132-3154.	1.5	27
42	Wave propagation in double walled carbon nanotubes by using doublet mechanics theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 93, 345-357.	1.3	27
43	Buckling of symmetric cross-ply square plates with various boundary conditions. <i>Composite Structures</i> , 2005, 68, 381-389.	3.1	24
44	Three dimensional mechanical buckling of FG plates with general boundary conditions. <i>Composite Structures</i> , 2013, 96, 174-193.	3.1	24
45	Torsional wave propagation in multiwalled carbon nanotubes using nonlocal elasticity. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	24
46	Structural modelling of nanorods and nanobeams using doublet mechanics theory. <i>International Journal of Mechanics and Materials in Design</i> , 2018, 14, 195-212.	1.7	23
47	Forced vibration of nanorods using nonlocal elasticity. <i>Advances in Nano Research</i> , 2016, 4, 265-279.	0.9	22
48	Vibration of functionally graded shear and normal deformable porous microplates via finite element method. <i>Composite Structures</i> , 2020, 237, 111934.	3.1	21
49	Dynamic response of a functionally graded tube embedded in an elastic medium due to SH-Waves. <i>Composite Structures</i> , 2018, 206, 22-32.	3.1	20
50	Three dimensional shear buckling of FG plates with various boundary conditions. <i>Composite Structures</i> , 2013, 96, 670-682.	3.1	18
51	Vibration and buckling analysis of nanotubes (nanofibers) embedded in an elastic medium using Doublet Mechanics. <i>Journal of Engineering Mathematics</i> , 2018, 109, 85-111.	0.6	18
52	A micro/nano-scale Timoshenko-Ehrenfest beam model for bending, buckling and vibration analyses based on doublet mechanics theory. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104199.	2.1	18
53	On the vibration of size dependent rotating laminated composite and sandwich microbeams via a transverse shear-normal deformation theory. <i>Composite Structures</i> , 2019, 216, 290-300.	3.1	17
54	Dynamic stability of harmonically excited nanobeams including axial inertia. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 820-833.	1.5	17

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55	Buckling of cross-ply composite plates with linearly varying In-plane loads. <i>Composite Structures</i> , 2018, 183, 221-231.	3.1	16
56	Vibration analysis of symmetric laminated composite plates with attached mass. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 136-145.	1.5	14
57	Buckling analysis of double nanofibers embeded in an elastic medium using doublet mechanics theory. <i>Composite Structures</i> , 2018, 202, 355-363.	3.1	14
58	Vibration analysis of carbon nanotube mass sensors considering both inertia and stiffness of the detected mass. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 841-857.	3.4	14
59	Free vibration and buckling analysis of laminated composites and sandwich microbeams using a transverse shear-normal deformable beam theory. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 214-228.	1.5	13
60	On the vibration of aligned carbon nanotube reinforced composite beams. <i>Advances in Nano Research</i> , 2014, 2, 199-210.	0.9	13
61	Buckling and vibration of non-ideal simply supported rectangular isotropic plates. <i>Mechanics Research Communications</i> , 2006, 33, 532-540.	1.0	12
62	Wave Propagation Analysis in Beams Using Shear Deformable Beam Theories Considering Second Spectrum. <i>Journal of Mechanics</i> , 2018, 34, 279-289.	0.7	10
63	Vibration of a rotating composite beam clamped-off the axis of rotation. <i>Composite Structures</i> , 2019, 225, 111174.	3.1	10
64	Dynamics of a functionally graded Timoshenko beam considering new spectrums. <i>Composite Structures</i> , 2019, 207, 273-291.	3.1	10
65	Longitudinal Vibration of CNTs Viscously Damped in Span. <i>International Journal of Engineering and Applied Sciences</i> , 2017, 9, 22-22.	0.1	10
66	Vibration analysis of Love nanorods using doublet mechanics theory. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	9
67	Torsional dynamics of coaxial nanotubes with different lengths in viscoelastic medium. <i>Microsystem Technologies</i> , 2019, 25, 3943-3957.	1.2	8
68	Plane strain polar elasticity of fibre-reinforced functionally graded materials and structures. <i>Journal of Mechanics of Materials and Structures</i> , 2019, 14, 497-535.	0.4	8
69	Dynamics of nonlocal strain gradient nanobeams with longitudinal magnetic field. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	1.2	8
70	Buckling of Eccentrically Loaded Carbon Nanotubes. <i>Solid State Phenomena</i> , 0, 267, 151-156.	0.3	7
71	Bifurcation buckling conditions of FGM plates with different boundaries. <i>Composite Structures</i> , 2020, 245, 112325.	3.1	6
72	Bending of CNTs Under The Partial Uniform Load. <i>International Journal of Engineering and Applied Sciences</i> , 2016, 8, 21-21.	0.1	6

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73	Nonlinear Wave Modulation in Nanorods Using Nonlocal Elasticity Theory. International Journal of Nonlinear Sciences and Numerical Simulation, 2018, 19, 709-719.	0.4	4
74	Vibration of layered nanobeams with periodic nanostructures. Mechanics Based Design of Structures and Machines, 2023, 51, 620-641.	3.4	4
75	Transverse wave propagation analysis in single-walled and double-walled carbon nanotubes via higher-order doublet mechanics theory. Waves in Random and Complex Media, 2023, 33, 762-793.	1.6	4
76	Vibration Analysis of Inclusion Reinforced Composite Square Plates under Various Boundary Conditions. Journal of Reinforced Plastics and Composites, 2009, 28, 995-1012.	1.6	3
77	A note on semi-inverse method for buckling of axially functionally graded beams. Journal of Reinforced Plastics and Composites, 2013, 32, 511-512.	1.6	3
78	Buckling analysis of functionally graded beams with periodic nanostructures using doublet mechanics theory. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	3
79	Axial Wave Reflection and Transmission in Stepped Nanorods Using Doublet Mechanics Theory. MATEC Web of Conferences, 2018, 148, 15002.	0.1	2
80	Dynamic Analysis of a Viscoelastic Nanobeam. Key Engineering Materials, 0, 799, 223-229.	0.4	2
81	On three-dimensional dynamics of fibre-reinforced functionally graded plates when fibres resist bending. Journal of Engineering Mathematics, 2021, 128, 1.	0.6	2
82	Nonlocal effect on boundary conditions of cantilever nanobeam. AIP Conference Proceedings, 2020, , .	0.3	2
83	Longitudinal Vibration of Variable Cross-Sectional Nanorods. Journal of Nano Research, 0, 64, 49-60.	0.8	2
84	Dynamic analysis of functionally graded beams with periodic nanostructures. Composite Structures, 2021, 257, 113169.	3.1	1
85	Some Complicating Effects in the Vibration of Composite Beams. , 2011, , .		0
86	Thermal Buckling of Composite Beam. , 2014, , 4904-4910.		0