

Bekir Akg z

List of Publications by Year in descending order

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66
papers

5,523
citations

87886

38
h-index

128286

60
g-index

66
all docs

66
docs citations

66
times ranked

1449
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain gradient elasticity and modified couple stress models for buckling analysis of axially loaded micro-scaled beams. <i>International Journal of Engineering Science</i> , 2011, 49, 1268-1280.	5.0	422
2	Free vibration analysis of axially functionally graded tapered Bernoulli-Euler microbeams based on the modified couple stress theory. <i>Composite Structures</i> , 2013, 98, 314-322.	5.8	315
3	A size-dependent shear deformation beam model based on the strain gradient elasticity theory. <i>International Journal of Engineering Science</i> , 2013, 70, 1-14.	5.0	211
4	Analysis of micro-sized beams for various boundary conditions based on the strain gradient elasticity theory. <i>Archive of Applied Mechanics</i> , 2012, 82, 423-443.	2.2	204
5	Thermo-mechanical buckling behavior of functionally graded microbeams embedded in elastic medium. <i>International Journal of Engineering Science</i> , 2014, 85, 90-104.	5.0	202
6	Buckling analysis of functionally graded microbeams based on the strain gradient theory. <i>Acta Mechanica</i> , 2013, 224, 2185-2201.	2.1	190
7	A microstructure-dependent sinusoidal plate model based on the strain gradient elasticity theory. <i>Acta Mechanica</i> , 2015, 226, 2277-2294.	2.1	189
8	Longitudinal vibration analysis for microbars based on strain gradient elasticity theory. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 606-616.	2.6	187
9	A novel microstructure-dependent shear deformable beam model. <i>International Journal of Mechanical Sciences</i> , 2015, 99, 10-20.	6.7	179
10	Bending analysis of embedded carbon nanotubes resting on an elastic foundation using strain gradient theory. <i>Acta Astronautica</i> , 2016, 119, 1-12.	3.2	172
11	On dynamic analysis of nanorods. <i>International Journal of Engineering Science</i> , 2018, 130, 33-50.	5.0	170
12	On the effect of viscoelasticity on behavior of gyroscopes. <i>International Journal of Engineering Science</i> , 2020, 149, 103236.	5.0	160
13	Size-dependent transverse and longitudinal vibrations of embedded carbon and silica carbide nanotubes by nonlocal finite element method. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	159
14	Effects of thermal and shear deformation on vibration response of functionally graded thick composite microbeams. <i>Composites Part B: Engineering</i> , 2017, 129, 77-87.	12.0	147
15	Longitudinal vibration analysis of strain gradient bars made of functionally graded materials (FGM). <i>Composites Part B: Engineering</i> , 2013, 55, 263-268.	12.0	127
16	Free vibration analysis for single-layered graphene sheets in an elastic matrix via modified couple stress theory. <i>Materials & Design</i> , 2012, 42, 164-171.	5.1	124
17	Buckling and free vibrations of CNT-reinforced cross-ply laminated composite plates. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 1914-1931.	4.7	124
18	Bending analysis of FG microbeams resting on Winkler elastic foundation via strain gradient elasticity. <i>Composite Structures</i> , 2015, 134, 294-301.	5.8	121

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19	Mathematical modeling of vibration problem of nano-sized annular sector plates using the nonlocal continuum theory via eight-node discrete singular convolution transformation. <i>Applied Mathematics and Computation</i> , 2012, 219, 3226-3240.	2.2	120
20	Modeling and analysis of micro-sized plates resting on elastic medium using the modified couple stress theory. <i>Meccanica</i> , 2013, 48, 863-873.	2.0	107
21	A new trigonometric beam model for buckling of strain gradient microbeams. <i>International Journal of Mechanical Sciences</i> , 2014, 81, 88-94.	6.7	106
22	Shear deformation beam models for functionally graded microbeams with new shear correction factors. <i>Composite Structures</i> , 2014, 112, 214-225.	5.8	106
23	A new eigenvalue problem solver for thermo-mechanical vibration of Timoshenko nanobeams by an innovative nonlocal finite element method. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 2592-2614.	2.3	101
24	Buckling Analysis of Cantilever Carbon Nanotubes Using the Strain Gradient Elasticity and Modified Couple Stress Theories. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011, 8, 1821-1827.	0.4	96
25	Nonlinear static response of laminated composite plates by discrete singular convolution method. <i>Composite Structures</i> , 2010, 93, 153-161.	5.8	95
26	Vibration analysis of micro-scaled sector shaped graphene surrounded by an elastic matrix. <i>Computational Materials Science</i> , 2013, 77, 295-303.	3.0	87
27	Large deflection analysis of laminated composite plates resting on nonlinear elastic foundations by the method of discrete singular convolution. <i>International Journal of Pressure Vessels and Piping</i> , 2011, 88, 290-300.	2.6	86
28	A size-dependent beam model for stability of axially loaded carbon nanotubes surrounded by Pasternak elastic foundation. <i>Composite Structures</i> , 2017, 176, 1028-1038.	5.8	86
29	Free Vibration and Bending Analyses of Cantilever Microtubules Based on Nonlocal Continuum Model. <i>Mathematical and Computational Applications</i> , 2010, 15, 289-298.	1.3	82
30	Nonlinear vibration analysis of laminated plates resting on nonlinear two-parameters elastic foundations. <i>Steel and Composite Structures</i> , 2011, 11, 403-421.	1.3	77
31	Application of strain gradient elasticity theory for buckling analysis of protein microtubules. <i>Current Applied Physics</i> , 2011, 11, 1133-1138.	2.4	76
32	On the non-linear dynamics of torus-shaped and cylindrical shell structures. <i>International Journal of Engineering Science</i> , 2020, 156, 103371.	5.0	72
33	Dynamic Analysis of a Fiber-Reinforced Composite Beam under a Moving Load by the Ritz Method. <i>Mathematics</i> , 2021, 9, 1048.	2.2	72
34	Vibration analysis of carbon nanotube-reinforced composite microbeams. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	68
35	Buckling analysis of linearly tapered micro-columns based on strain gradient elasticity. <i>Structural Engineering and Mechanics</i> , 2013, 48, 195-205.	1.0	65
36	Buckling and post-buckling responses of smart doubly curved composite shallow shells embedded in SMA fiber under hygro-thermal loading. <i>Composite Structures</i> , 2019, 223, 110988.	5.8	61

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37	New static and dynamic analyses of macro and nano FGM plates using exact three-dimensional elasticity in thermal environment. <i>Composite Structures</i> , 2018, 192, 626-641.	5.8	56
38	Free Vibration Analysis of Carbon Nanotubes Based on Shear Deformable Beam Theory by Discrete Singular Convolution Technique. <i>Mathematical and Computational Applications</i> , 2010, 15, 57-65.	1.3	55
39	Vibrational characteristics of embedded microbeams lying on a two-parameter elastic foundation in thermal environment. <i>Composites Part B: Engineering</i> , 2018, 150, 68-77.	12.0	53
40	Forced Vibration Analysis of Composite Beams Reinforced by Carbon Nanotubes. <i>Nanomaterials</i> , 2021, 11, 571.	4.1	39
41	On the statics of fullerene structures. <i>International Journal of Engineering Science</i> , 2019, 142, 125-144.	5.0	38
42	Higher-order continuum theories for buckling response of silicon carbide nanowires (SiCNWs) on elastic matrix. <i>Archive of Applied Mechanics</i> , 2017, 87, 1797-1814.	2.2	36
43	INVESTIGATION OF SIZE EFFECTS ON STATIC RESPONSE OF SINGLE-WALLED CARBON NANOTUBES BASED ON STRAIN GRADIENT ELASTICITY. <i>International Journal of Computational Methods</i> , 2012, 09, 1240032.	1.3	33
44	On the deformation and frequency analyses of SARS-CoV-2 at nanoscale. <i>International Journal of Engineering Science</i> , 2022, 170, 103604.	5.0	29
45	On the shell model for human eye in Glaucoma disease. <i>International Journal of Engineering Science</i> , 2021, 158, 103414.	5.0	24
46	A new approach for bending analysis of bilayer conical graphene panels considering nonlinear van der Waals force. <i>Composites Part B: Engineering</i> , 2018, 150, 124-134.	12.0	18
47	On the mechanical analysis of microcrystalline cellulose sheets. <i>International Journal of Engineering Science</i> , 2021, 166, 103500.	5.0	17
48	On the generalized model of shell structures with functional cross-sections. <i>Composite Structures</i> , 2021, 272, 114192.	5.8	17
49	Static and dynamic response of sector-shaped graphene sheets. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 432-442.	2.6	16
50	Coordinate Transformation for Sector and Annular Sector Shaped Graphene Sheets on Silicone Matrix. <i>International Journal of Engineering and Applied Sciences</i> , 2015, 7, 56-56.	0.1	16
51	Parametric vibration of a dielectric elastomer microbeam resonator based on a hyperelastic cosserat continuum model. <i>Composite Structures</i> , 2022, 287, 115386.	5.8	16
52	Nonlocal thermoelastic vibration of a solid medium subjected to a pulsed heat flux via Caputo-Fabrizio fractional derivative heat conduction. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, .	2.3	15
53	Mechanical simulation of artificial gravity in torus-shaped and cylindrical spacecraft. <i>Acta Astronautica</i> , 2021, 179, 330-344.	3.2	13
54	Comment on "Static and dynamic analysis of micro beams based on strain gradient elasticity theory" by S. Kong, S. Zhou, Z. Nie, and K. Wang, (<i>International Journal of Engineering Science</i> , 47, 487-498, 2009). <i>International Journal of Engineering Science</i> , 2012, 50, 279-281.	5.0	10

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55	Mechanical analysis of isolated microtubules based on a higher-order shear deformation beam theory. Composite Structures, 2014, 118, 9-18.	5.8	10
56	Dynamic Analysis of Functionally Graded Porous Microbeams under Moving Load. Transport in Porous Media, 0, , 1.	2.6	9
57	ELASTİK BİR MALZEME İLE TEMAS HALİNDE OLAN GRAFEN TABAKANIN TİRELMESİ HESABI. Journal of the Faculty of Engineering and Architecture of Gazi University, 2017, 32, .	0.8	8
58	A Novel Nonlinear Elasticity Approach for Analysis of Nonlinear and Hyperelastic Structures. Engineering Analysis With Boundary Elements, 2022, 143, 219-236.	3.7	8
59	Small size and rotary inertia effects on the natural frequencies of carbon nanotubes. Curved and Layered Structures, 2018, 5, 273-279.	1.3	7
60	Static analysis of beams on elastic foundation by the method of discrete singular convolution. International Journal of Engineering and Applied Sciences, 2016, 8, 67-67.	0.1	7
61	RÖTZEYİN İLE DEĞERLENDİRİLEN KESİTLİ KOLONLARIN BURKULMA ANALİZİ. Mühendislik Bilimleri Ve Tasarım Dergisi, 2019, 7, 452-458.	0.3	4
62	Static analysis of laminated conical shells by Discrete Singular Convolution (DSC) approach. KSCE Journal of Civil Engineering, 2014, 18, 1455-1463.	1.9	2
63	Axial Vibration of Strain Gradient Micro-rods. , 2019, , 1141-1155.		1
64	Size-Dependent Transverse Vibration of Microbeams. , 2019, , 1123-1139.		0
65	Size-Dependent Transverse Vibration of Microbeams. , 2017, , 1-17.		0
66	Axial Vibration of Strain Gradient Micro-rods. , 2018, , 1-15.		0