

Surkay Akbarov

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/902816/publications.pdf>

Version: 2024-02-01

79
papers

978
citations

430874

18
h-index

552781

26
g-index

83
all docs

83
docs citations

83
times ranked

176
citing authors

#	ARTICLE	IF	CITATIONS
1	On the fracture of the unidirectional composites in compression. International Journal of Engineering Science, 1997, 35, 1115-1136.	5.0	49
2	The influence of the third order elastic constants to the generalized Rayleigh wave dispersion in a pre-stressed stratified half-plane. International Journal of Engineering Science, 2003, 41, 2047-2061.	5.0	47
3	Torsional wave dispersion in a finitely pre-strained hollow sandwich circular cylinder. Journal of Sound and Vibration, 2011, 330, 4519-4537.	3.9	45
4	Torsional wave propagation in a pre-stressed circular cylinder embedded in a pre-stressed elastic medium. Applied Mathematical Modelling, 2009, 33, 3636-3649.	4.2	38
5	Axisymmetric longitudinal wave propagation in pre-stressed compound circular cylinders. International Journal of Engineering Science, 2004, 42, 769-791.	5.0	34
6	Mechanics of Curved Composites and Some Related Problems for Structural Members. Mechanics of Advanced Materials and Structures, 2004, 11, 445-515.	2.6	31
7	A method of investigation of the general theory of stability problems on structural elements fabricated from viscoelastic composite materials. Composites Part B: Engineering, 2001, 32, 475-482.	12.0	29
8	The influence of the third order elastic constants on the dynamical interface stress field in a half-space covered with a pre-stretched layer. International Journal of Non-Linear Mechanics, 2006, 41, 417-425.	2.6	29
9	The effect of initial stresses on harmonic stress fields within the stratified half plane. European Journal of Mechanics, A/Solids, 2001, 20, 385-396.	3.7	28
10	Dynamics of Pre-Strained Bi-Material Elastic Systems. , 2015, , .		28
11	The theoretical strength limit in compression of viscoelastic layered composite materials. Composites Part B: Engineering, 1999, 30, 465-472.	12.0	26
12	On the buckling of the elastic and viscoelastic composite circular thick plate with a penny-shaped crack. European Journal of Mechanics, A/Solids, 2002, 21, 269-279.	3.7	24
13	Dynamical (time-harmonic) axisymmetric interface stress field in the finite pre-strained half-space covered with the finite pre-stretched layer. International Journal of Engineering Science, 2006, 44, 93-112.	5.0	24
14	On the dynamical axisymmetric stress field in a finite pre-stretched bilayered slab resting on a rigid foundation. Journal of Sound and Vibration, 2006, 294, 221-237.	3.9	23
15	Local buckling of the elastic and viscoelastic coating around the penny-shaped interface crack. International Journal of Engineering Science, 2002, 40, 1435-1451.	5.0	22
16	The Lamb's problem for a half-space covered with the pre-stretched layer. International Journal of Mechanical Sciences, 2005, 47, 1326-1349.	6.7	22
17	Dynamics of a system comprising a pre-stressed orthotropic layer and pre-stressed orthotropic half-plane under the action of a moving load. International Journal of Solids and Structures, 2008, 45, 4222-4235.	2.7	22
18	Dynamics of a system comprising an orthotropic layer and orthotropic half-plane under the action of an oscillating moving load. International Journal of Solids and Structures, 2009, 46, 3873-3881.	2.7	20

#	ARTICLE	IF	CITATIONS
19	Frequency response of the axisymmetrically finite pre-stretched slab from incompressible functionally graded material on a rigid foundation. <i>International Journal of Engineering Science</i> , 2006, 44, 484-500.	5.0	19
20	On the three-dimensional stability loss problem of the viscoelastic composite plate. <i>International Journal of Engineering Science</i> , 2001, 39, 1443-1457.	5.0	18
21	On a stress analysis in the infinite elastic body with two neighbouring curved fibres. <i>Composites Part B: Engineering</i> , 2003, 34, 143-150.	12.0	18
22	On the stress field in a half-plane covered by the pre-stretched layer under the action of arbitrary linearly located time-harmonic forces. <i>Applied Mathematical Modelling</i> , 2007, 31, 2375-2390.	4.2	18
23	Buckling delamination of a rectangular plate containing a rectangular crack and made from elastic and viscoelastic composite materials. <i>International Journal of Solids and Structures</i> , 2010, 47, 3426-3434.	2.7	17
24	On the bending problems of anisotropic (orthotropic) plates resting on elastic foundations that react in compression only. <i>International Journal of Solids and Structures</i> , 1997, 34, 3673-3689.	2.7	16
25	Buckling delamination of a sandwich plate-strip with piezoelectric face and elastic core layers. <i>Applied Mathematical Modelling</i> , 2013, 37, 8029-8038.	4.2	16
26	Stability loss analyses of the elastic and viscoelastic composite rotating thick circular plate in the framework of the three-dimensional linearized theory of stability. <i>International Journal of Mechanical Sciences</i> , 2002, 44, 1225-1244.	6.7	14
27	Internal stability loss of two neighbouring fibers in a viscoelastic matrix. <i>International Journal of Engineering Science</i> , 2004, 42, 1847-1873.	5.0	14
28	On the crack problems in composite materials with curved layers. <i>International Journal of Engineering Science</i> , 1994, 32, 1003-1016.	5.0	13
29	The loss of stability analyses of an elastic and viscoelastic composite circular plate in the framework of three-dimensional linearized theory. <i>European Journal of Mechanics, A/Solids</i> , 2003, 22, 475-488.	3.7	13
30	Torsional wave dispersion relations in a pre-stressed bi-material compounded cylinder. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2009, 89, 754-766.	1.6	13
31	Delamination buckling of a rectangular orthotropic composite plate containing a band crack. <i>Mechanics of Composite Materials</i> , 2010, 46, 493-504.	1.4	13
32	Axisymmetric longitudinal wave dispersion in a bi-layered circular cylinder with inhomogeneous initial stresses. <i>Journal of Sound and Vibration</i> , 2019, 450, 1-27.	3.9	13
33	Surface undulation instability of the viscoelastic half-space covered with the stack of layers in bi-axial compression. <i>International Journal of Mechanical Sciences</i> , 2007, 49, 778-789.	6.7	12
34	The influence of the finite initial strains on the axisymmetric wave dispersion in a circular cylinder embedded in a compressible elastic medium. <i>International Journal of Mechanical Sciences</i> , 2010, 52, 89-95.	6.7	12
35	Stress distribution caused by anti-phase periodical curving of two neighbouring fibers in a composite material. <i>European Journal of Mechanics, A/Solids</i> , 2003, 22, 243-256.	3.7	11
36	Wave propagation in a pre-strained compressible elastic sandwich plate. <i>European Journal of Mechanics, A/Solids</i> , 2011, 30, 409-422.	3.7	11

#	ARTICLE	IF	CITATIONS
37	Mathematical modelling and the study of the influence of initial stresses on the SIF and ERR at the crack tips in a plate-strip of orthotropic material. <i>Applied Mathematical Modelling</i> , 2009, 33, 3682-3692.	4.2	10
38	On the dynamics of a finite pre-strained bi-layered slab resting on a rigid foundation under the action of an oscillating moving load. <i>Journal of Sound and Vibration</i> , 2009, 327, 454-472.	3.9	10
39	Time-harmonic Lamb's problem for a system comprising a piezoelectric layer and piezoelectric half-plane. <i>Journal of Sound and Vibration</i> , 2013, 332, 5375-5392.	3.9	9
40	Microbuckling of a doublewalled carbon nanotube embedded in an elastic matrix. <i>International Journal of Solids and Structures</i> , 2013, 50, 2584-2596.	2.7	9
41	On the torsional wave dispersion in a hollow sandwich circular cylinder made from viscoelastic materials. <i>Applied Mathematical Modelling</i> , 2015, 39, 3569-3587.	4.2	9
42	Dispersion relations of axisymmetric wave propagation in initially twisted bi-material compounded cylinders. <i>Journal of Sound and Vibration</i> , 2011, 330, 1644-1664.	3.9	8
43	3D dynamics of a prestressed stratified half-space under the action of an oscillating moving load. <i>Applied Mathematical Modelling</i> , 2015, 39, 1-18.	4.2	8
44	The forced vibration of the system consisting of an elastic plate, compressible viscous fluid and rigid wall. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 1809-1827.	2.6	8
45	Buckling delamination of a PZT/Metal/PZT sandwich rectangular thick plate containing interface inner band cracks. <i>Composite Structures</i> , 2018, 202, 9-16.	5.8	8
46	Forced vibration of the pre-stressed bi-layered plate-strip with finite length resting on a rigid foundation. <i>Applied Mathematical Modelling</i> , 2011, 35, 250-256.	4.2	7
47	The influence of the rheological parameters of a hydro-viscoelastic system consisting of a viscoelastic plate, viscous fluid and rigid wall on the frequency response of this system. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1341-1363.	2.6	7
48	Time-harmonic dynamical stress field in a system comprising a pre-stressed orthotropic layer and pre-stressed orthotropic half-plane. <i>Archive of Applied Mechanics</i> , 2010, 80, 1271-1286.	2.2	6
49	3D analyses of the global stability loss of the circular hollow cylinder made from viscoelastic composite material. <i>European Journal of Mechanics, A/Solids</i> , 2012, 33, 48-66.	3.7	6
50	FEM modelling of the time-harmonic dynamical stress field problem for a pre-stressed plate-strip resting on a rigid foundation. <i>Applied Mathematical Modelling</i> , 2011, 35, 952-964.	4.2	5
51	Stability loss of the micro-fiber in the elastic and viscoelastic matrix near the free convex cylindrical surface. <i>European Journal of Mechanics, A/Solids</i> , 2011, 30, 167-182.	3.7	5
52	3D Analyses of the symmetric local stability loss of the circular hollow cylinder made from viscoelastic composite material. <i>Applied Mathematical Modelling</i> , 2012, 36, 4241-4260.	4.2	5
53	Lamb wave dispersion in a PZT/metal/PZT sandwich plate with imperfect interface. <i>Waves in Random and Complex Media</i> , 2016, 26, 301-327.	2.7	5
54	Natural vibration of the three-layered solid sphere with middle layer made of FGM: three-dimensional approach. <i>Structural Engineering and Mechanics</i> , 2016, 57, 239-263.	1.0	5

#	ARTICLE	IF	CITATIONS
55	On the total electro-mechanical potential energy and energy release rate at the interface crack tips in an initially stressed sandwich plate-strip with piezoelectric face and elastic core layers. <i>International Journal of Solids and Structures</i> , 2016, 88-89, 119-130.	2.7	4
56	On the dispersion of the axisymmetric longitudinal wave propagating in a bi-layered hollow cylinder made of viscoelastic materials. <i>International Journal of Solids and Structures</i> , 2016, 100-101, 195-210.	2.7	4
57	Mathematical modeling of the dynamics of a hydroelastic system "A hollow cylinder with inhomogeneous initial stresses and compressible fluid. <i>Mathematical Methods in the Applied Sciences</i> , 2021, 44, 7858-7872.	2.3	3
58	Dynamics of the oscillating moving load acting on the hydroelastic system consisting of the elastic plate, compressible viscous fluid and rigid wall. <i>Structural Engineering and Mechanics</i> , 2016, 59, 403-430.	1.0	3
59	Three-dimensional analysis of the natural vibration of the three-layered hollow sphere with middle layer made of FGM. <i>Structural Engineering and Mechanics</i> , 2017, 61, 563-576.	1.0	3
60	Torsional Wave Propagation in Sandwich Hollow Cylinder with Pre-Strained Face (Core) Layers (Layer). <i>Advanced Materials Research</i> , 2012, 445, 1094-1099.	0.3	2
61	Near-surface waves in a system consisting of a covering layer and a half-space with imperfect interface under two-axial initial stresses. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 55-68.	2.6	2
62	Buckling Delamination of the Rectangular Orthotropic Thick Plate With an Edge Rectangular Crack. , 2010, , .		1
63	Natural vibration of a multilayered hollow sphere filled with a compressible fluid. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
64	Stability Loss in the Structure of Unidirectional Fibrous Elastic and Viscoelastic Composites. , 2013, , 337-400.		0
65	Surface and Internal Stability Loss in the Structure of Elastic and Viscoelastic Layered Composites. , 2013, , 269-335.		0
66	Torsional Wave Dispersion in Pre-stressed Compound Cylinders. , 2015, , 461-580.		0
67	Buckling delamination of the circular sandwich plate with piezoelectric face and elastic core layers under rotationally symmetric external pressure. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
68	Calculation and 3D analyses of ERR in the band crack front contained in a rectangular plate made of multilayered material. <i>Open Chemistry</i> , 2018, 16, 516-519.	1.9	0
69	ON THE "RESONANCE" VALUES OF THE DYNAMICAL STRESS IN THE SYSTEM COMPRISES TWO-AXIALLY PRE-STRETCHED LAYER AND HALF-SPACE. <i>Springer Proceedings in Physics</i> , 2006, , 469-474.	0.2	0
70	ON THE DYNAMICAL STRESS FIELD IN THE PRE-STRETCHED BILAYERED STRIP RESTING ON THE RIGID FOUNDATION. <i>Springer Proceedings in Physics</i> , 2006, , 225-230.	0.2	0
71	The Self-Balanced Shear Stresses in the Elastic Body with a Locally Curved Covered Fiber. <i>Advances in Mechanical Engineering</i> , 2010, 2, 954841.	1.6	0
72	Stability Loss Problems for Viscoelastic Plates. , 2013, , 71-133.		0

#	ARTICLE	IF	CITATIONS
73	Buckling Delamination of Elastic and Viscoelastic Composite Plates with Cracks. , 2013, , 135-267.		0
74	Axisymmetric Longitudinal and Flexural Wave Propagation in Pre-strained Bi-material Compound Circular Cylinders. , 2015, , 581-803.		0
75	Forced Vibration of Pre-stressed Layered Bodies. , 2015, , 143-333.		0
76	Some Problems on the Sandwich Plate-Strip with PiezoelectricPiezoelectric Face and Elastic Core Layers Containing Interface Cracks. , 2015, , 901-937.		0
77	Dynamics of a Moving and Oscillating Moving Load Acting on a Pre-strained Bi-material Layered Systems. , 2015, , 11-142.		0
78	Wave Propagation in Pre-strained Layered Systems. , 2015, , 335-460.		0
79	The Influence of the Viscoelasticity on the Axisymmetric Wave Attenuation in a bi-Material Solid Cylinder. Acta Physica Polonica A, 2018, 134, 135-138.	0.5	0