

Alexander L Kalamkarov

List of Publications by Year in descending order

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69
papers

1,533
citations

331670

21
h-index

345221

36
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70
all docs

70
docs citations

70
times ranked

903
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical and numerical techniques to predict carbon nanotubes properties. <i>International Journal of Solids and Structures</i> , 2006, 43, 6832-6854.	2.7	263
2	Asymptotic Homogenization of Composite Materials and Structures. <i>Applied Mechanics Reviews</i> , 2009, 62, .	10.1	190
3	Comparative analysis of micromechanical models for the elastic composite laminae. <i>Composites Part B: Engineering</i> , 2019, 174, 106961.	12.0	53
4	Micromechanical modeling of piezo-magneto-thermo-elastic composite structures: Part I – Theory. <i>European Journal of Mechanics, A/Solids</i> , 2013, 39, 298-312.	3.7	40
5	Micromechanical modeling of piezo-magneto-thermo-elastic composite structures: Part II – Applications. <i>European Journal of Mechanics, A/Solids</i> , 2013, 39, 313-327.	3.7	39
6	A new asymptotic model for a composite piezoelectric plate. <i>International Journal of Solids and Structures</i> , 2001, 38, 6027-6044.	2.7	37
7	A new model for the multiphase fiber-matrix composite materials. <i>Composites Part B: Engineering</i> , 1998, 29, 643-653.	12.0	36
8	Effective elastic characteristics of honeycomb sandwich composite shells made of generally orthotropic materials. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007, 38, 1533-1546.	7.6	35
9	Asymptotic homogenization modeling of thin composite network structures. <i>Composite Structures</i> , 2007, 79, 432-444.	5.8	32
10	Reliability assessment of pultruded FRP reinforcements with embedded fiber optic sensors. <i>Composite Structures</i> , 2000, 50, 69-78.	5.8	31
11	Modeling of smart composites on account of actuation, thermal conductivity and hygroscopic absorption. <i>Composites Part B: Engineering</i> , 2002, 33, 141-152.	12.0	31
12	Asymptotic homogenization model for 3D grid-reinforced composite structures with generally orthotropic reinforcements. <i>Composite Structures</i> , 2009, 89, 186-196.	5.8	31
13	Asymptotic homogenization modeling of smart composite generally orthotropic grid-reinforced shells: Part I – theory. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 530-540.	3.7	31
14	Micromechanical analysis of fiber-reinforced composites on account of influence of fiber coatings. <i>Composites Part B: Engineering</i> , 2008, 39, 874-881.	12.0	28
15	Analysis of large deflection equilibrium states of composite shells of revolution. Part 1. General model and singular perturbation analysis. <i>International Journal of Solids and Structures</i> , 2001, 38, 8961-8974.	2.7	27
16	General micromechanical modeling of smart composite shells with application to smart honeycomb sandwich structures. <i>Composite Structures</i> , 2007, 79, 18-33.	5.8	27
17	Analysis of the effective conductivity of composite materials in the entire range of volume fractions of inclusions up to the percolation threshold. <i>Composites Part B: Engineering</i> , 2010, 41, 503-507.	12.0	26
18	Micromechanical analysis of transversal strength of composite laminae. <i>Composite Structures</i> , 2020, 250, 112546.	5.8	24

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19	On the processing and evaluation of pultruded smart composites. <i>Composites Part B: Engineering</i> , 1999, 30, 753-763.	12.0	23
20	Micromechanical analysis of grid-reinforced thin composite generally orthotropic shells. <i>Composites Part B: Engineering</i> , 2008, 39, 627-644.	12.0	23
21	Continuum micro-dilatation modeling of auxetic metamaterials. <i>International Journal of Solids and Structures</i> , 2018, 132-133, 188-200.	2.7	23
22	The mechanical performance of pultruded composite rods with embedded fiber-optic sensors. <i>Composites Science and Technology</i> , 2000, 60, 1161-1169.	7.8	22
23	Asymptotic homogenization modeling of smart composite generally orthotropic grid-reinforced shells: Part II – Applications. <i>European Journal of Mechanics, A/Solids</i> , 2010, 29, 541-556.	3.7	22
24	Buckling of fibers in fiber-reinforced composites. <i>Composites Part B: Engineering</i> , 2012, 43, 2058-2062.	12.0	22
25	Experimental and analytical studies of smart composite reinforcement. <i>Composites Part B: Engineering</i> , 1998, 29, 21-30.	12.0	21
26	Analytical and numerical analysis of 3D grid-reinforced orthotropic composite structures. <i>International Journal of Engineering Science</i> , 2011, 49, 589-605.	5.0	20
27	Analysis of large deflection equilibrium states of composite shells of revolution. Part 2. Applications and numerical results. <i>International Journal of Solids and Structures</i> , 2001, 38, 8975-8987.	2.7	18
28	Micromechanical analysis of effective piezoelectric properties of smart composite sandwich shells made of generally orthotropic materials. <i>Smart Materials and Structures</i> , 2007, 16, 866-883.	3.5	18
29	Asymptotic justification of the three-phase composite model. <i>Composite Structures</i> , 2007, 77, 395-404.	5.8	18
30	Vibration localization in one-dimensional linear and nonlinear lattices: discrete and continuum models. <i>Nonlinear Dynamics</i> , 2013, 72, 37-48.	5.2	18
31	General theory of continuous media with conserved dislocations. <i>International Journal of Solids and Structures</i> , 2007, 44, 7468-7485.	2.7	17
32	A three-dimensional constitutive model for shape memory alloys. <i>Archive of Applied Mechanics</i> , 2010, 80, 1163-1175.	2.2	17
33	Multiscale approach to predict strength of notched composite plates. <i>Composite Structures</i> , 2020, 253, 112827.	5.8	16
34	Micromechanical analysis of longitudinal and shear strength of composite laminae. <i>Journal of Composite Materials</i> , 2020, 54, 4853-4873.	2.4	16
35	Trace theory applied to composite analysis: A comparison with micromechanical models. <i>Composites Communications</i> , 2021, 25, 100715.	6.3	16
36	Dilatation gradient elasticity theory. <i>European Journal of Mechanics, A/Solids</i> , 2021, 88, 104258.	3.7	15

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37	Dynamic modeling and determination of effective properties of smart composite plates with rapidly varying thickness. <i>International Journal of Engineering Science</i> , 2012, 56, 63-85.	5.0	14
38	Modeling of the thermopiezoelastic behavior of prismatic smart composite structures made of orthotropic materials. <i>Composites Part B: Engineering</i> , 2006, 37, 569-582.	12.0	13
39	Micromechanical modeling and effective properties of the smart grid-reinforced composites. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2012, 34, 343-351.	1.6	12
40	Micromechanical modeling of thin composite and reinforced magnetoelectric plates – Effective electrical, magnetic, thermal and product properties. <i>Composites Part B: Engineering</i> , 2017, 113, 243-269.	12.0	12
41	Analytical expressions for effective thermal conductivity of composite materials with inclusions of square cross-section. <i>Composites Part B: Engineering</i> , 2013, 50, 44-53.	12.0	11
42	<title>Smart pultruded composite reinforcements incorporating fiber optic sensors</title>. , 1998, , .		10
43	Micromechanical Thermoelastic Model for Sandwich Composite Shells made of Generally Orthotropic Materials. <i>Journal of Sandwich Structures and Materials</i> , 2009, 11, 27-56.	3.5	10
44	General theory of defects in continuous media. <i>International Journal of Solids and Structures</i> , 2006, 43, 91-111.	2.7	9
45	Asymptotic Analysis of Fiber-Reinforced Composites of Hexagonal Structure. <i>Journal of Multiscale Modeling</i> , 2016, 07, 1650006.	1.1	9
46	Micromechanical modeling of thin composite and reinforced magnetoelectric plates – Effective elastic, piezoelectric and piezomagnetic coefficients. <i>Composite Structures</i> , 2017, 172, 102-118.	5.8	9
47	A new asymptotic model of flexible composite shells of a regular structure. <i>International Journal of Engineering Science</i> , 2002, 40, 333-343.	5.0	8
48	Asymptotic analysis of perforated shallow shells. <i>International Journal of Engineering Science</i> , 2012, 53, 1-18.	5.0	8
49	Asymptotic analysis of perforated plates and membranes. Part 2: Static and dynamic problems for large holes. <i>International Journal of Solids and Structures</i> , 2012, 49, 311-317.	2.7	8
50	Asymptotic analysis of perforated plates and membranes. Part 1: Static problems for small holes. <i>International Journal of Solids and Structures</i> , 2012, 49, 298-310.	2.7	8
51	ASYMPTOTIC HOMOGENIZATION METHOD AND MICROMECHANICAL MODELS FOR COMPOSITE MATERIALS AND THIN-WALLED COMPOSITE STRUCTURES. <i>Computational and Experimental Methods in Structures</i> , 2013, , 1-60.	0.3	8
52	Micromechanical analysis of piezo-magneto-thermo-elastic T-ribbed and I-ribbed plates. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 657-668.	2.6	7
53	Analysis of Smart Piezo-Magneto-Thermo-Elastic Composite and Reinforced Plates: Part II – Applications. <i>Curved and Layered Structures</i> , 2014, 1, .	1.3	6
54	A Novel Micromechanical Model Based on the Rule of Mixtures to Estimate Effective Elastic Properties of Circular Fiber Composites. <i>Applied Composite Materials</i> , 2022, 29, 1715-1731.	2.5	6

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55	Effective Properties of Composite Materials, Reinforced Structures and Smart Composites: Asymptotic Homogenization Approach. <i>Solid Mechanics and Its Applications</i> , 2013, , 283-363.	0.2	5
56	Three-phase model for a composite material with cylindrical circular inclusions. Part I: Application of the boundary shape perturbation method. <i>International Journal of Engineering Science</i> , 2014, 78, 154-177.	5.0	5
57	Three-phase model for a composite material with cylindrical circular inclusions. Part II: Application of Pad� approximants. <i>International Journal of Engineering Science</i> , 2014, 78, 178-191.	5.0	5
58	Analysis of Smart Piezo-Magneto-Thermo-Elastic Composite and Reinforced Plates: Part I – Model Development. <i>Curved and Layered Structures</i> , 2014, 1, .	1.3	4
59	Analytical Solution of the Stability Problem for the Truncated Hemispherical Shell under Tensile Loading. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-4.	1.1	3
60	Micromechanical analysis of thermoelastic and magnetoelectric composite and reinforced shells. <i>Composite Structures</i> , 2021, 259, 113426.	5.8	3
61	Asymptotic homogenization of magnetoelectric reinforced shells: Effective coefficients and influence of shell curvature. <i>International Journal of Solids and Structures</i> , 2021, 228, 111105.	2.7	3
62	Processing and evaluation of smart composite reinforcement. , 1997, , .		2
63	Analysis of Magneto-Piezoelastic Anisotropic Materials. <i>Metals</i> , 2015, 5, 863-880.	2.3	2
64	Embedded smart GFRP reinforcements for monitoring reinforced concrete flexural components. <i>Smart Structures and Systems</i> , 2005, 1, 369-384.	1.9	2
65	Dynamic micromechanical model for smart composite and reinforced shells. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2022, 102, .	1.6	2
66	Transversely isotropic constitutive properties modeling of tubular sandwich composite structures. <i>Journal of Thermoplastic Composite Materials</i> , 2014, 27, 1349-1369.	4.2	1
67	Modeling of anisotropic magneto-piezoelastic materials. , 2016, , .		1
68	Micromechanical analysis of quantum dot-embedded smart nanocomposite materials. <i>Composites Part C: Open Access</i> , 2020, 3, 100062.	3.2	1
69	Stress Concentration Factors and Weight Functions in Thin Notched Structures of Equibiaxial Anisotropic Materials. <i>Advanced Engineering Materials</i> , 2010, 12, 633-636.	3.5	0