Yury O Solyaev

List of Publications by Year
in descending order

71	784	516215 16	642321 23
papers	citations	h-index	g-index

73	73	73	467
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Static and dynamic response of sandwich beams with lattice and pantographic cores. Journal of Sandwich Structures and Materials, 2022, 24, 1076-1098.	2.0	13
2	On the elastic wedge problem within simplified and incomplete strain gradient elasticity theories. International Journal of Solids and Structures, 2022, 239-240, 111433.	1.3	18
3	Self-consistent assessments for the effective properties of two-phase composites within strain gradient elasticity. Mechanics of Materials, 2022, 169, 104321.	1.7	10
4	Gradient models of moving heat sources for powder bed fusion applications. International Journal of Heat and Mass Transfer, 2022, 196, 123221.	2.5	4
5	Trefftz collocation method for twoâ€dimensional strain gradient elasticity. International Journal for Numerical Methods in Engineering, 2021, 122, 823-839.	1.5	13
6	Electric field, strain and inertia gradient effects on anti-plane wave propagation in piezoelectric materials. Journal of Sound and Vibration, 2021, 494, 115898.	2.1	24
7	Influence of Alumina Nanofibers Sintered by the Spark Plasma Method on Nickel Mechanical Properties. Metals, 2021, 11, 548.	1.0	2
8	Dilatation gradient elasticity theory. European Journal of Mechanics, A/Solids, 2021, 88, 104258.	2.1	15
9	On the Dispersion Relations for the Anti-Plane Surface Wave in the Second Gradient Electroelasticity. Lobachevskii Journal of Mathematics, 2021, 42, 1935-1943.	0.1	1
10	Direct observation of plastic shear strain concentration in the thick GLARE laminates under bending loading. Composites Part B: Engineering, 2021, 224, 109145.	5.9	18
11	New approach to failure of pre-cracked brittle materials based on regularized solutions of strain gradient elasticity. Engineering Fracture Mechanics, 2021, 258, 108080.	2.0	16
12	On the dependence of standard and gradient elastic material constants on a field of defects. Mathematics and Mechanics of Solids, 2020, 25, 35-45.	1.5	21
13	Evaluation of the Load Bearing Capacity of the Honeycomb Core Sandwich Panels with Face Sheets Made of Metal Matrix Composite under Static and Dynamic Loading. Russian Aeronautics, 2020, 63, 357-361.	0.1	0
14	Elasto-plastic behavior and failure of thick GLARE laminates under bending loading. Composites Part B: Engineering, 2020, 200, 108302.	5.9	13
15	Generalized Einsteinâ€™s and Brinkmanâ€™s solutions for the effective viscosity of nanofluids. Journal of Applied Physics, 2020, 128, .	1.1	8
16	On the well posedness of static boundary value problem within the linear dilatational strain gradient elasticity. Zeitschrift Fur Angewandte Mathematik Und Physik, 2020, 71, 1.	0.7	29
17	Refined Analysis of Piezoelectric Microcantilevers in Gradient Electroelasticity Theory. Lobachevskii Journal of Mathematics, 2020, 41, 2076-2082.	0.1	1
18	Impact behavior of a stiffened shell structure with optimized GFRP corrugated sandwich panel skins. Composite Structures, 2020, 248, 112479.	3.1	4

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19	ESHELBY INTEGRAL FORMULAS IN SECOND GRADIENT ELASTICITY. Nanoscience and Technology, 2020, 11, 99-107.	0.6	1
20	Apparent Bending and Tensile Stiffness of Lattice Beams with Triangular and Diamond Structure. Advanced Structured Materials, 2020, , 431-442.	0.3	1
21	On the Relations between Direct and Energy Based Homogenization Approaches in Second Gradient Elasticity. Advanced Structured Materials, 2020, , 443-457.	0.3	1
22	Stress Concentration Near Stiff Cylindrical Inclusions under Anti-Plane Shear Loading. Doklady Physics, 2020, 65, 390-395.	0.2	2
23	Approximate Analytical Solution for a Unilateral Contact Problem with Heavy Elastica. Lobachevskii Journal of Mathematics, 2019, 40, 1010-1015.	0.1	3
24	Anti-plane inclusion problem in the second gradient electroelasticity theory. International Journal of Engineering Science, 2019, 144, 103129.	2.7	13
25	Pure bending of a piezoelectric layer in second gradient electroelasticity theory. Acta Mechanica, 2019, 230, 4197-4211.	1.1	8
26	Optimization of Thermal Protection Panels Subjected to Intense Heating and Mechanical Loading. Lobachevskii Journal of Mathematics, 2019, 40, 887-895.	0.1	16
27	Overmelting and closing of thin horizontal channels in AlSi10Mg samples obtained by selective laser melting. Additive Manufacturing, 2019, 30, 100847.	1.7	9
28	Manufacture of the Transceiver Housing for an Active Phased Array Antenna with Built-In Cooling Channels by Selective Laser Melting. Russian Engineering Research, 2019, 39, 785-788.	0.2	3
29	On the formulation of elastic and electroelastic gradient beam theories. Continuum Mechanics and Thermodynamics, 2019, 31, 1601-1613.	1.4	21
30	Mechanistic Model of Generalized Non-antisymmetrical Electrodynamics. Advanced Structured Materials, 2019, , 379-394.	0.3	2
31	Refined Stress Analysis in Applied Elasticity Problems Accounting for Gradient Effects. Doklady Physics, 2019, 64, 482-486.	0.2	3
32	Recent Problems of Heat-Transfer Simulation in Technological Processes of Selective Laser Melting and Fusion. High Temperature, 2019, 57, 916-943.	0.1	4
33	Three-phase model of particulate composites in second gradient elasticity. European Journal of Mechanics, A/Solids, 2019, 78, 103853.	2.1	25
34	Topology optimization of the wick geometry in a flat plate heat pipe. International Journal of Heat and Mass Transfer, 2019, 128, 239-247.	2.5	15
35	On a combined thermal/mechanical performance of a foam-filled sandwich panels. International Journal of Engineering Science, 2019, 134, 66-76.	2.7	21
36	Numerical modeling of a composite auxetic metamaterials using micro-dilatation theory. Continuum Mechanics and Thermodynamics, 2019, 31, 1099-1107.	1.4	15

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37	Optimal Damping Behavior of a Composite Sandwich Beam Reinforced with Coated Fibers. Applied Composite Materials, 2019, 26, 389-408.	1.3	12
38	Comparison between the Mori-Tanaka and generalized self-consistent methods in the framework of anti-plane strain inclusion problem in strain gradient elasticity. Mechanics of Materials, 2018, 122, 133-144.	1.7	27
39	Revisiting bending theories of elastic gradient beams. International Journal of Engineering Science, 2018, 126, 1-21.	2.7	40
40	Design of the corrugated-core sandwich panel with external active cooling system. Composite Structures, 2018, 188, 278-286.	3.1	18
41	Bending problems in the theory of elastic materials with voids and surface effects. Mathematics and Mechanics of Solids, 2018, 23, 787-804.	1.5	16
42	Continuum micro-dilatation modeling of auxetic metamaterials. International Journal of Solids and Structures, 2018, 132-133, 188-200.	1.3	23
43	Mechanical behavior of porous Si3N4 ceramics manufactured with 3D printing technology. Journal of Materials Science, 2018, 53, 4796-4805.	1.7	32
44	Analytical estimates of the contact zone area for a pressurized flat-oval cylindrical shell placed between two parallel rigid plates. Meccanica, 2018, 53, 3831-3838.	1.2	7
45	Semi-Inverse Solution of a Pure Beam Bending Problem in Gradient Elasticity Theory: The Absence of Scale Effects. Doklady Physics, 2018, 63, 161-164.	0.2	4
46	Numerical predictions for the effective size-dependent properties of piezoelectric composites with spherical inclusions. Composite Structures, 2018, 202, 1099-1108.	3.1	20
47	Influence of mean distance between fibers on the effective gas thermal conductivity in highly porous fibrous materials. International Journal of Heat and Mass Transfer, 2017, 109, 511-519.	2.5	13
48	Study of Porous Ceramic Based on Silicon Nitride Prepared Using Three-Dimensional Printing Technology. Refractories and Industrial Ceramics, 2017, 57, 600-604.	0.2	9
49	Identification of gradient elasticity parameters based on interatomic interaction potentials accounting for modified Lorentz-Berthelot rules. Physical Mesomechanics, 2017, 20, 392-398.	1.0	11
50	On the possibility of steady-state solutions application to describe a thermal state of parts fabricated by selective laser sintering. High Temperature, 2017, 55, 731-736.	0.1	9
51	Design of the corrugated-core sandwich panel for the arctic rescue vehicle. Composite Structures, 2017, 160, 1007-1019.	3.1	34
52	Effect of Thin Polymer Coatings on the Mechanical Properties of Steel Plates. Russian Metallurgy (Metally), 2017, 2017, 1170-1175.	0.1	2
53	MECHANICAL PROPERTIES OF Si3N4-BASED COMPOSITE CERAMICS WITH NANOSIZED POROSITY. Nanoscience and Technology, 2017, 8, 347-357.	0.6	2
54	IDENTIFICATION OF KINETIC PARAMETERS OF THE MODEL OF INTERPHASE LAYER GROWTH IN A FIBROUS COMPOSITE. Composites: Mechanics, Computations, Applications, 2016, 7, 175-187.	0.2	2

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55	An identification algorithm of model kinetic parameters of the interfacial layer growth in fiber composites. IOP Conference Series: Materials Science and Engineering, 2016, 124, 012071.	0.3	0
56	Application of optimization methods for finding equilibrium states of two-dimensional crystals. Computational Mathematics and Mathematical Physics, 2016, 56, 2001-2010.	0.2	6
57	Fabrication of porous silicon nitride ceramics using binder jetting technology. IOP Conference Series: Materials Science and Engineering, 2016, 140, 012023.	0.3	26
58	Microstructure and mechanical properties of silicon carbide ceramics reinforced with multi-walled carbon nanotubes. IOP Conference Series: Materials Science and Engineering, 2016, 124, 012142.	0.3	4
59	Multiscale modelling of aluminium-based metalâ€“matrix composites with oxide nanoinclusions. Computational Materials Science, 2016, 116, 62-73.	1.4	33
60	Mechanical properties of a metallic composite material based on an aluminum alloy reinforced by dispersed silicon carbide particles. Russian Metallurgy (Metally), 2015, 2015, 790-794.	0.1	11
61	EXPERIMENTAL INVESTIGATION AND MODELING OF THE THERMOCYCLING EFFECT ON THE MECHANICAL PROPERTIES OF THE CFRP. Composites: Mechanics, Computations, Applications, 2015, 6, 279-291.	0.2	1
62	PREDICTION OF THERMOPHYSICAL AND THERMOMECHANICAL PROPERTIES OF HIGH-TEMPERATURE LAYERED COMPOSITES BASED ON THE Al2O3â€“Cr SYSTEM. International Journal of Nanomechanics Science and Technology, 2015, 6, 17-30.	0.5	0
63	ON ACCOUNT OF SCALE EFFECTS IN THE SIMULATION OF MECHANICAL AND TRIBOLOGICAL PROPERTIES OF TWO-PHASE MICRO- AND NANOMODIFIED POLYMER COATINGS. PNRPU Mechanics Bulletin, 2015, , 36-54.	0.1	0
64	Intermediate layer formation between inclusion and matrix during synthesis of unidirectional fibrous composite. , 2014, , .		5
65	On Remarkable Loss Amplification Mechanism in Fiber Reinforced Laminated Composite Materials. Applied Composite Materials, 2014, 21, 179-196.	1.3	17
66	Identification method of gradient models parameters of inhomogeneous structures based on discrete atomistic simulations. PNRPU Mechanics Bulletin, 2014, , 89-111.	0.1	1
67	Simulation of the mechanical properties of nanostructured porous ceramics. Russian Metallurgy (Metally), 2013, 2013, 272-281.	0.1	4
68	AN APPROACH TO MODELING OF DEFORMATION OF MEDIA WITH POROSITIES OF DIFFERENT SCALES. Composites: Mechanics, Computations, Applications, 2013, 4, 163-186.	0.2	0
69	METHODS FOR PREDICTING EFFECTIVE THERMOELASTIC PROPERTIES OF COMPOSITE CERAMICS REINFORCED WITH CARBON NANOTUBES. International Journal of Nanomechanics Science and Technology, 2012, 3, 141-154.	0.5	2
70	MODELING OF ANOMALOUS MECHANICAL PROPERTIES OF POLYURETHANE MODIFIED BY CARBON SINGLE-WALL NANOTUBES. International Journal of Nanomechanics Science and Technology, 2011, 2, 71-83.	0.5	0
71	Binder Jetting of Si₃N₄ Ceramics with Different Porosity. Solid State Phenomena, 0, 269, 37-50.	0.3	20