Dmitry S Lisovenko

List of Publications by Year in descending order

66 papers	856 citations	471371 17 h-index	610775 24 g-index
67 all docs	67 docs citations	67 times ranked	329 citing authors

#	Article	IF	Citations
1	Auxetic mechanics of crystalline materials. Mechanics of Solids, 2010, 45, 529-545.	0.3	53
2	Negative Poissonâ€™s ratio for cubic crystals and nano/microtubes. Physical Mesomechanics, 2014, 17, 97-115.	1.0	46
3	Equilibrium diamondâ€like carbon nanostructures with cubic anisotropy: Elastic properties. Physica Status Solidi (B): Basic Research, 2016, 253, 1295-1302.	0.7	37
4	Auxetics among Materials with Cubic Anisotropy. Mechanics of Solids, 2020, 55, 461-474.	0.3	34
5	ELASTIC DAMPER BASED ON THE CARBON NANOTUBE BUNDLE. Facta Universitatis, Series: Mechanical Engineering, 2020, 18, 001.	2.3	32
6	Extreme values of Youngâ€™s modulus and Poissonâ€™s ratio of hexagonal crystals. Mechanics of Materials, 2019, 134, 1-8.	1.7	29
7	Elastic Properties of Fullerites and Diamondâ€Like Phases. Physica Status Solidi (B): Basic Research, 2019, 256, 1800049.	0.7	28
8	Elastic properties of diamond-like phases based on carbon nanotubes. Diamond and Related Materials, 2019, 97, 107411.	1.8	27
9	Three-layered plate exhibiting auxeticity based on stretching and bending modes. Composite Structures, 2018, 194, 643-651.	3.1	25
10	Extreme values of the Poissonâ€™s ratio of cubic crystals. Technical Physics, 2016, 61, 1516-1524.	0.2	24
11	Auxetics among 6-constant tetragonal crystals. Letters on Materials, 2015, 5, 409-413.	0.2	24
12	Youngâ€™s modulus and Poissonâ€™s ratio for seven-constant tetragonal crystals and nano/microtubes. Physical Mesomechanics, 2015, 18, 213-222.	1.0	23
13	Equilibrium structures of carbon diamond-like clusters and their elastic properties. Physics of the Solid State, 2017, 59, 820-828.	0.2	22
14	Stability, elastic properties and deformation behavior of graphene-based diamond-like phases. Computational Materials Science, 2020, 172, 109355.	1.4	22
15	Cubic auxetics. Doklady Physics, 2011, 56, 399-402.	0.2	21
16	Classification of cubic auxetics. Physica Status Solidi (B): Basic Research, 2013, 250, 2038-2043.	0.7	19
17	The elastic properties of hexagonal auxetics under pressure. Physica Status Solidi (B): Basic Research, 2016, 253, 1261-1269.	0.7	18
18	Twoâ€Layered Tubes from Cubic Crystals: Auxetic Tubes. Physica Status Solidi (B): Basic Research, 2017, 254, 1600815.	0.7	18

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19	Negative Poisson's ratio for sixâ€constant tetragonal nano/microtubes. Physica Status Solidi (B): Basic Research, 2015, 252, 1580-1586.	0.7	17
20	Auxeticity in nano/microtubes produced from orthorhombic crystals. Smart Materials and Structures, 2016, 25, 054006.	1.8	17
21	Rayleigh and Love surface waves in isotropic media with negative Poissonâ€™s ratio. Mechanics of Solids, 2014, 49, 422-434.	0.3	16
22	Longitudinal elastic tension of two-layered plates from isotropic auxetics-nonauxetics and cubic crystals. European Journal of Mechanics, A/Solids, 2017, 63, 122-127.	2.1	16
23	Thin Homogeneous Two-Layered Plates of Cubic Crystals with Different Layer Orientation. Physical Mesomechanics, 2019, 22, 261-268.	1.0	16
24	Mesomechanics of multiwall carbon nanotubes and nanowhiskers. Physical Mesomechanics, 2009, 12, 38-53.	1.0	14
25	Chiral elasticity of nano/microtubes from hexagonal crystals. Acta Mechanica, 2018, 229, 2189-2201.	1.1	14
26	Shear modulus of cubic crystals. Letters on Materials, 2012, 2, 21-24.	0.2	14
27	Mechanical characteristics for seven-constant rhombohedral crystals and their nano/microtubes. Letters on Materials, 2016, 6, 93-97.	0.2	14
28	Variability of elastic properties of hexagonal auxetics. Doklady Physics, 2011, 56, 602-605.	0.2	13
29	Relation of Poissonâ€™s ratio on average with Youngâ€™s modulus. Auxetics on average. Doklady Physics, 2012, 57, 174-178.	0.2	12
30	Youngâ€™s moduli and Poissonâ€™s ratios of curvilinear anisotropic hexagonal and rhombohedral nanotubes. Nanotubes-auxetics. Doklady Physics, 2013, 58, 400-404.	0.2	12
31	Extreme values of the shear modulus for hexagonal crystals. Scripta Materialia, 2017, 140, 55-58.	2.6	11
32	Peculiarities of the Structure, Moduli of Elasticity, and Knoop Indentation Patterns of Deformation and Fracture of Single Crystals of Potassium, Rubidium, Cesium, and Ammonium Hydrophthalates. Crystallography Reports, 2018, 63, 438-450.	0.1	11
33	About negativity of the Poissonâ€™s ratio for anisotropic materials. Doklady Physics, 2009, 54, 546-548.	0.2	9
34	Orthotropic strip with central semi-infinite crack under arbitrary loads applied far apart from the crack tip. Analytical solution. Engineering Failure Analysis, 2020, 110, 104410.	1.8	9
35	Bridgman Growth and Physical Properties Anisotropy of CeF3 Single Crystals. Crystals, 2021, 11, 793.	1.0	9
36	Modeling of the Mechanical Properties of Chiral Metallic Nanotubes. Physical Mesomechanics, 2020, 23, 477-486.	1.0	9

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37	Poyntingâ€™s effect of cylindrically anisotropic nano/microtubes. Physical Mesomechanics, 2016, 19, 229-238.	1.0	8
38	Chiral Fe nanotubes with both negative Poissonâ€™s ratio and Poyntingâ€™s effect. Atomistic simulation. Journal of Physics Condensed Matter, 2019, 31, 475304.	0.7	8
39	Experimental study of defects influence on auxetic behavior of cellular structure with curvilinear elements. Letters on Materials, 2017, 7, 355-358.	0.2	8
40	Torsion of cylindrically anisotropic nano/microtubes from seven-constant tetragonal crystals. Poyntingâ€™s effect. Physical Mesomechanics, 2016, 19, 349-354.	1.0	7
41	Two-layer tubes from cubic crystals. Doklady Physics, 2016, 61, 604-610.	0.2	7
42	Tension of thin two-layered plates of hexagonal crystals. Composite Structures, 2019, 209, 453-459.	3.1	7
43	Specific features of the strength of carbon whiskers. Technical Physics Letters, 2006, 32, 837-839.	0.2	5
44	Linear poyntingâ€™s effect at torsion and extension of curvilinearly anisotropic tubes. Doklady Physics, 2015, 60, 396-399.	0.2	5
45	Anisotropy of the Mechanical Properties of TbF3 Crystals. Crystallography Reports, 2018, 63, 96-103.	0.1	5
46	Torsion of cylindrically anisotropic nano/microtubes of the cubic crystals obtained by rolling the crystal planes (011). Letters on Materials, 2016, 6, 249-252.	0.2	5
47	Experimental study of auxetic behavior of re-entrant honeycomb with curvilinear elements. Letters on Materials, 2017, 7, 81-84.	0.2	5
48	Variability of elastic properties of chiral monoclinic tubes under extension and torsion. Letters on Materials, 2019, 9, 202-206.	0.2	5
49	Deformation behaviour of re-entrant carbon honeycomb structures. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012035.	0.3	4
50	Elastic Properties of Chiral Metallic Nanotubes Formed from Cubic Crystals. Physical Mesomechanics, 2021, 24, 464-474.	1.0	4
51	Stretching of chiral tubes obtained by rolling-up plates of cubic crystals with various orientations. Journal of Mechanics of Materials and Structures, 2021, 16, 139-157.	0.4	4
52	The Extreme Values of Youngâ€™s Modulus and the Negative Poissonâ€™s Ratios of Rhombic Crystals. Crystals, 2021, 11, 863.	1.0	4
53	Outâ€ofâ€plane tension of thin twoâ€layered plates of cubic crystals. Physica Status Solidi (B): Basic Research, 0, , 2100184.	0.7	4
54	Variability of the elastic properties of multiwalled carbon nanotubes. Technical Physics Letters, 2005, 31, 18-20.	0.2	3

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55	To the description of multi-layered nanotubes in models of cylindrically anisotropic elasticity. Physical Mesomechanics, 2010, 13, 12-20.	1.0	3
56	Extreme values of Youngâ€™s modulus of tetragonal crystals. Mechanics of Materials, 2021, 154, 103724.	1.7	3
57	Spherical Inclusion in an Elastic Matrix in the Presence of Eigenstrain, Taking Into Account the Influence of the Properties of the Interface, Considered as the Limit of a Layer of Finite Thickness. Mechanics of Solids, 2019, 54, 514-522.	0.3	3
58	Poissonâ€™s ratio of hard tissues of tooth. AIP Conference Proceedings, 2018, , .	0.3	2
59	Variability of Youngâ€™s modulus and Poissonâ€™s ratio of hexagonal crystals. IOP Conference Series: Materials Science and Engineering, 2018, 347, 012019.	0.3	2
60	Out-of-Plane Tension of Thin Two-Layered Plates of Identically Oriented Hexagonal Crystals. Physical Mesomechanics, 2021, 24, 146-154.	1.0	2
61	Effective elastic properties variability for two-layered plates of hexagonal and cubic crystals under longitudinal tension. Composite Structures, 2021, 274, 114300.	3.1	2
62	Mechanical Properties of Ð¡eF3 Single Crystals. Crystallography Reports, 2019, 64, 942-946.	0.1	2
63	Experimental study of auxetic behavior of cellular structure. Journal of Physics: Conference Series, 2018, 991, 012017.	0.3	1
64	An Upper Bound Solution for Continued Compression of a Cylinder. Tehnicki Vjesnik, 2020, 27, .	0.3	1
65	The Behavior of Linear Polyesters in Model Conditions of Bile Ducts. Polymer Science - Series D, 2021, 14, 106-111.	0.2	1
66	Elastic anysotropy of dentin and enamel. Letters on Materials, 2018, 8, 288-293.	0.2	1