

Julia A Baimova

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89
papers

1,729
citations

25
h-index

38
g-index

92
ext. papers

1,973
ext. citations

1.9
avg, IF

5.17
L-index

#	Paper	IF	Citations
89	Interfacial thermal conductance of a silicene/graphene bilayer heterostructure and the effect of hydrogenation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 18180-8	9.5	99
88	Interface thermal conductance and rectification in hybrid graphene/silicene monolayer. <i>Carbon</i> , 2014 , 79, 236-244	10.4	93
87	Discrete breathers in crystals. <i>Physics-Uspexhi</i> , 2016 , 59, 446-461	2.8	92
86	Molecular dynamics study of pressure-driven water transport through graphene bilayers. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1886-1896	3.6	74
85	Thermal transport in a graphene-MoS ₂ bilayer heterostructure: a molecular dynamics study. <i>RSC Advances</i> , 2015 , 5, 29193-29200	3.7	71
84	Discrete breather clusters in strained graphene. <i>Europhysics Letters</i> , 2012 , 100, 36005	1.6	62
83	Unidirectional ripples in strained graphene nanoribbons with clamped edges at zero and finite temperatures. <i>Physical Review B</i> , 2012 , 86,	3.3	56
82	Wear and friction between smooth or rough diamond-like carbon films and diamond tips. <i>Wear</i> , 2017 , 372-373, 12-20	3.5	51
81	Discrete breathers in hydrogenated graphene. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 305302	3	51
80	Effect of strain on gap discrete breathers at the edge of armchair graphene nanoribbons. <i>Europhysics Letters</i> , 2013 , 102, 60004	1.6	50
79	Mechanical properties of bulk carbon nanostructures: effect of loading and temperature. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19505-13	3.6	47
78	Morphology and in-plane thermal conductivity of hybrid graphene sheets. <i>Applied Physics Letters</i> , 2012 , 101, 211909	3.4	47
77	Thermal conductivity of silicene nanosheets and the effect of isotopic doping. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 165301	3	41
76	An approach for fabrication of Al-Cu composite by high pressure torsion. <i>Materials Letters</i> , 2019 , 236, 51-55	3.3	39
75	Mechanical properties of crumpled graphene under hydrostatic and uniaxial compression. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 095302	3	38
74	Discrete breather on the edge of the graphene sheet with the armchair orientation. <i>JETP Letters</i> , 2012 , 96, 222-226	1.2	38
73	Ultimate strength, ripples, sound velocities, and density of phonon states of strained graphene. <i>Computational Materials Science</i> , 2012 , 53, 194-203	3.2	36

72	Strain-induced ripples in graphene nanoribbons with clamped edges. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 1393-1398	1.3	35
71	Ab initio simulation of gap discrete breathers in strained graphene. <i>Physics of the Solid State</i> , 2016 , 58, 633-639	0.8	34
70	Velocities of sound and the densities of phonon states in a uniformly strained flat graphene sheet. <i>Physics of the Solid State</i> , 2012 , 54, 866-874	0.8	32
69	From flat graphene to bulk carbon nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 1502-1507	1.3	32
68	Stability range for a flat graphene sheet subjected to in-plane deformation. <i>JETP Letters</i> , 2011 , 93, 571-576		30
67	Equilibrium diamond-like carbon nanostructures with cubic anisotropy: Elastic properties. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 1295-1302	1.3	29
66	Mechanical properties and structures of bulk nanomaterials based on carbon nanopolymorphs. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 336-340	2.5	28
65	Effect of Stone-Thrower-Wales defect on structural stability of graphene at zero and finite temperatures. <i>Europhysics Letters</i> , 2013 , 103, 46001	1.6	25
64	Calculation of the structure of carbon clusters based on fullerene-like C24 and C48 molecules. <i>Physics of the Solid State</i> , 2016 , 58, 394-401	0.8	21
63	Mechanical properties of bulk carbon nanomaterials. <i>Physics of the Solid State</i> , 2014 , 56, 2010-2016	0.8	21
62	Elastic properties of diamond-like phases based on carbon nanotubes. <i>Diamond and Related Materials</i> , 2019 , 97, 107411	3.5	20
61	Crumpled graphene as a hydrogen storage media: Atomistic simulation. <i>Physica B: Condensed Matter</i> , 2020 , 583, 412020	2.8	19
60	Intermetallic growth kinetics and microstructure evolution in Al-Cu-Al metal-matrix composite processed by high pressure torsion. <i>Materials Letters</i> , 2019 , 253, 412-415	3.3	19
59	ELASTIC DAMPER BASED ON THE CARBON NANOTUBE BUNDLE. <i>Facta Universitatis, Series: Mechanical Engineering</i> , 2020 , 18, 001	3.2	19
58	Equilibrium structures of carbon diamond-like clusters and their elastic properties. <i>Physics of the Solid State</i> , 2017 , 59, 820-828	0.8	18
57	Discrete breathers in graphene in thermal equilibrium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 3049-3053	2.3	18
56	Elastic Properties of Fullerites and Diamond-Like Phases. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800049	1.3	18
55	Deformation behavior of diamond-like phases: Molecular dynamics simulation. <i>Diamond and Related Materials</i> , 2018 , 81, 154-160	3.5	18

54	Computer simulation of the effect of ultrasound and annealing on the structure of a two-dimensional severely deformed nanocrystalline material. <i>Physics of Metals and Metallography</i> , 2011 , 111, 513-519	1.2	17
53	Discrete breathers in graphane: Effect of temperature. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 122, 869-873	1	16
52	A molecular dynamics study of [111]-polarized gap discrete breathers in a crystal with NaCl-type structure. <i>Technical Physics Letters</i> , 2012 , 38, 676-679	0.7	15
51	Effect of elastic deformation on phonon spectrum and characteristics of gap discrete breathers in crystal with NaCl-type structure. <i>Technical Physics Letters</i> , 2011 , 37, 451-454	0.7	13
50	Molecular dynamics simulation of the effect of dislocations on the martensitic transformations in a two-dimensional model. <i>Letters on Materials</i> , 2017 , 7, 442-446	0.9	13
49	Simulation of metal-graphene composites by molecular dynamics: a review. <i>Letters on Materials</i> , 2020 , 10, 351-360	0.9	13
48	Property control by elastic strain engineering: Application to graphene. <i>Journal of Micromechanics and Molecular Physics</i> , 2017 , 02, 1750001	1.4	12
47	Molecular dynamics simulation of fabrication of Ni-graphene composite: temperature effect. <i>Micro and Nano Letters</i> , 2020 , 15, 176-180	0.9	12
46	Symmetric scrolled packings of multilayered carbon nanoribbons. <i>Physics of the Solid State</i> , 2016 , 58, 1278-1284	0.8	12
45	Ultrasound influence on behavior of disordered dislocation systems in a crystal with non-equilibrium grain boundaries. <i>Letters on Materials</i> , 2016 , 6, 183-188	0.9	12
44	Stability, elastic properties and deformation behavior of graphene-based diamond-like phases. <i>Computational Materials Science</i> , 2020 , 172, 109355	3.2	12
43	Discrete breathers in crystals with the NaCl structure. <i>Russian Physics Journal</i> , 2013 , 56, 180-191	0.7	10
42	High-energy mesoscale strips observed in two-dimensional atomistic modeling of plastic deformation of nano-polycrystal. <i>Computational Materials Science</i> , 2011 , 50, 1414-1417	3.2	9
41	Folding and crumpling of graphene under biaxial compression. <i>Letters on Materials</i> , 2014 , 4, 96-99	0.9	9
40	Effect of deformation on dehydrogenation mechanisms of crumpled graphene: molecular dynamics simulation. <i>Letters on Materials</i> , 2019 , 9, 81-85	0.9	9
39	Large systems of discrete breathers in graphene. <i>Letters on Materials</i> , 2016 , 6, 31-33	0.9	8
38	Deformation Behavior of Three-Dimensional Carbon Structures Under Hydrostatic Compression. <i>Journal of Structural Chemistry</i> , 2018 , 59, 884-890	0.9	8
37	Energy exchange between discrete breathers in graphane in thermal equilibrium. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 1583-1588	2.3	7

36	Nickel nanoparticles inside carbon nanostructures: atomistic simulation. <i>Mechanics of Advanced Materials and Modern Processes</i> , 2019 , 5,	2.2	7
35	Dynamics of edge dislocations in a two-dimensional crystal at finite temperatures. <i>Physics of the Solid State</i> , 2009 , 51, 1809-1813	0.8	7
34	Atomic Structure and Energy Distribution of Collapsed Carbon Nanotubes of Different Chiralities. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-5	3.2	6
33	Modeling C540-C20 Fullerene Collisions. <i>Reviews on Advanced Materials Science</i> , 2018 , 57, 143-150	4.8	6
32	Energy Exchange Between the Discrete Breathers in Graphane. <i>Russian Physics Journal</i> , 2015 , 58, 785-790.	7	5
31	Molecular Dynamics Study of the Deformation Processes of Metallic Materials in Structural and Phase (Martensitic) Transformations. <i>Physics of Metals and Metallography</i> , 2018 , 119, 589-597	1.2	5
30	Influence of elastic strain on the density of phonon states and characteristics of discrete breathers in the gap of the phonon spectrum of a crystal with a NaCl structure. <i>Technical Physics</i> , 2011 , 56, 1612-1618	0.5	5
29	Two-dimensional model of the ordered alloy for the investigation of martensitic transformations. <i>Letters on Materials</i> , 2015 , 5, 359-363	0.9	5
28	Molecular dynamics simulation of structural transformations in Cu-Al system under pressure. <i>Journal of Physics: Conference Series</i> , 2020 , 1435, 012065	0.3	4
27	Simulation of the effect of strengthening-phase particles on the plastic deformation of a two-dimensional polycrystal. <i>Physics of Metals and Metallography</i> , 2012 , 113, 302-311	1.2	4
26	Translationally invariant kink solutions of discrete ϕ^4 models. <i>Russian Physics Journal</i> , 2010 , 53, 231-238	0.7	4
25	Effect of Nanoparticle Size on the Mechanical Strength of Ni-Graphene Composites. <i>Materials</i> , 2021 , 14,	3.5	4
24	Kinetics of overcoming obstructions in cooperative grain-boundary sliding in two-dimensional crystals. <i>Physics of Metals and Metallography</i> , 2012 , 113, 907-913	1.2	3
23	Wrinkles and Wrinklons in Graphene and Graphene Nanoribbons Under Strain. <i>Current Nanoscience</i> , 2016 , 12, 184-191	1.4	3
22	Diamond-like structures under hydrostatic loading: Atomistic simulation. <i>Computational Materials Science</i> , 2021 , 192, 110301	3.2	3
21	Numerical Studies of Discrete Quasibreathers in Graphene in the Framework of Density Functional Theory. <i>Materials Science Forum</i> , 2016 , 845, 215-218	0.4	3
20	Stability of in-plane delocalized vibrational modes in triangular Morse lattice. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012060	0.4	3
19	Deformation behaviour of re-entrant carbon honeycomb structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012035	0.4	3

18	Nonlinear Excitations in Graphene and Other Carbon Nano-Polymorphs. <i>Understanding Complex Systems</i> , 2018 , 175-195	0.4	2
17	Highly coherent orientations of graphene on non-reconstructed silicon substrates. <i>Superlattices and Microstructures</i> , 2013 , 54, 39-46	2.8	2
16	Effect of small perturbations on the evolution of polycrystalline structure during plastic deformation. <i>Physics of Metals and Metallography</i> , 2014 , 115, 918-925	1.2	2
15	Damping of nanocrystalline materials: a review. <i>Letters on Materials</i> , 2015 , 5, 485-490	0.9	2
14	Molecular dynamics simulation of diffusion in Mg-Al system under pressure. <i>IOP Conference Series: Materials Science and Engineering</i> , 1008, 012052	0.4	2
13	Fabrication of Magnesium-Aluminum Composites under High-Pressure Torsion: Atomistic Simulation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6801	2.6	2
12	Buckling and Wrinkling of Thin Films and Membranes. <i>Russian Physics Journal</i> , 2015 , 58, 1058-1062	0.7	1
11	A Stepwise Approach Towards an Interoperable and Flexible Logging Principle for Audit Trails 2010		1
10	Crumpled Graphene-Storage Media for Hydrogen and Metal Nanoclusters. <i>Materials</i> , 2021 , 14,	3.5	1
9	Clusters of Discrete Breathers in Carbon and Hydrocarbon Nanostructures. <i>Materials Science Forum</i> , 2016 , 845, 255-258	0.4	1
8	Graphene crumpling as a method of hydrogen storage: Simulation results. <i>Journal of Micromechanics and Molecular Physics</i> , 2019 , 04, 1950009	1.4	1
7	Ion sputtering rate of nanostructured FCC, BCC and HCP metals processed by severe plastic deformation. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012001	0.4	1
6	Molecular dynamics investigation of atomic mixing and mechanical properties of Al / Ti interface. <i>Letters on Materials</i> , 2021 , 11, 561-565	0.9	1
5	Ni-Graphene Composite Obtained by Pressure-Temperature Treatment: Atomistic Simulations. <i>Physica Status Solidi - Rapid Research Letters</i> , 2100429	2.5	0
4	Effect of the Structure Morphology on the Mechanical Properties of Crumpled Graphene Fiber. <i>Fibers</i> , 2021 , 9, 85	3.7	0
3	Topology of Wrinklons in Graphene Nanoribbons in the Vicinity of Constrained Edge. <i>Russian Physics Journal</i> , 2015 , 58, 808-814	0.7	
2	Atomistic Simulation of Cooperative Grain Boundary Sliding in Two-Dimensional Polycrystal. <i>Journal of Solid Mechanics and Materials Engineering</i> , 2012 , 6, 22-28		
1	Dehydrogenation of graphane by external driving. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012011	0.4	

