Evgeny A Belenkov

List of Publications by Year in Descending Order

76 papers	613 citations	15 h-index	22 g-index
78 ext. papers	692 ext. citations	1 avg, IF	4.67 L-index

#	Paper	IF	Citations
76	Ab Initio Computer Modeling of a Diamond-Like 5□ Bilayer. *Communications in Computer and Information Science*, **2022**, 121-130	0.3	
75	Structural types of graphyne layers formed on the basis of 4-6-12 graphene. *Journal of Physics: Conference Series*, **2020**, 1431, 012010	0.3	1
74	Theoretical investigation of the deformation stability and thermostability of carbon diamond-like phases. *Journal of Physics: Conference Series*, **2020**, 1431, 012016	0.3	
73	New polymorphic varieties of boron nitride with structure similar to graphyne. *Journal of Physics: Conference Series*, **2020**, 1431, 012051	0.3	
72	Theoretical study of the stability and formation methods of layer diamond-like nanostructures. *Letters on Materials*, **2020**, 10, 457-462	0.9	1
71	Ageing of chemically modified poly(vinylidene fluoride) film: Evolution of triple carbon-carbon bonds infrared absorption. *Polymer Degradation and Stability*, **2020**, 172, 109059	4.7	3
70	Ab Initio Calculations of Carbon Bilayers with Diamond-Like Structures. *Journal of Structural Chemistry*, **2020**, 61, 835-843	0.9	2
69	Structure Formation of Hexagonal Diamond: Ab Initio Calculations. *Physics of the Solid State*, **2019**, 61, 1882-1890	0.8	1
68	Atomic structure and electronic properties of binary graphane: Ab initio calculations. *IOP Conference Series: Materials Science and Engineering*, **2019**, 537, 022056	0.4	
67	New aspects in the study of carbon-hydrogen interaction in hydrogenated carbon nanotubes for energy storage applications. *Journal of Alloys and Compounds*, **2019**, 792, 713-720	5.7	16
66	Theoretical Investigation of Phase Transitions of Graphite and Cubic 3C Diamond Into Hexagonal 2H Diamond Under High Pressures. *Physica Status Solidi (B): Basic Research*, **2019**, 256, 1800575	1.3	7
65	Structure and electronic properties of graphyne polymorphs formed from 4-8 graphene. *IOP Conference Series: Materials Science and Engineering*, **2019**, 537, 022070	0.4	2
64	Simulation of the structure and electronic properties of fluorographene polymorphs formed on the basis of 4-8 graphene. *IOP Conference Series: Materials Science and Engineering*, **2019**, 537, 022058	0.4	1
63	New BN polymorphs with two-dimensional structure. *IOP Conference Series: Materials Science and Engineering*, **2019**, 537, 022060	0.4	1
62	Graphynes: Advanced Carbon Materials with Layered Structure **2019**, 113-150		7
61	Modeling of synthesis pathways for diamond-like polycyclobutane phases. *Letters on Materials*, **2019**, 9, 428-432	0.9	0
60	Ab initio calculations of the formation polymerized fullerite from endohedral clusters Li@C24. *Journal of Physics: Conference Series*, **2019**, 1399, 022022	0.3	

59	New polymorphic varieties of fluorographene forming during fluorine functionalization of 4-8 graphene layers. *Journal of Physics: Conference Series*, **2019**, 1410, 012012	0.3	3
58	Structure and electronic properties of 4-8 and 4-6-12 layered varieties of boron nitride. *Journal of Physics: Conference Series*, **2019**, 1410, 012016	0.3	0
57	Investigation of a new C24 cluster for obtaining diamond-like phases: first-principle calculations. *Journal of Physics: Conference Series*, **2019**, 1410, 012031	0.3	
56	Graphene polymorphs. *Journal of Physics: Conference Series*, **2019**, 1399, 022024	0.3	2
55	Calculation of the Physicochemical Characteristics of a New Orthorhombic Form of Diamond. *Inorganic Materials*, **2018**, 54, 111-116	0.9	6
54	Modeling of Phase Transitions of Graphites to Diamond-Like Phases. *Physics of the Solid State*, **2018**, 60, 1294-1302	0.8	12
53	Structure and electronic properties of graphyne layers modeled on layers of graphene L3□2. *Letters on Materials*, **2018**, 8, 169-173	0.9	10
52	Carbon materials formed by polymerization of C20 and C24 fullerites. *Journal of Physics: Conference Series*, **2018**, 1124, 022011	0.3	1
51	Investigation on structural transitions of graphenes into diamond polymorphs at high pressure. *Journal of Physics: Conference Series*, **2018**, 1124, 022002	0.3	1
50	Structure of fluorographene and its polymorphous varieties. *Journal of Physics: Conference Series*, **2018**, 1124, 022010	0.3	7
49	Structure and electronic properties of 5-7 graphene. *IOP Conference Series: Materials Science and Engineering*, **2018**, 447, 012005	0.4	1
48	Diamond-like phase formed of carbon C24 clusters. *IOP Conference Series: Materials Science and Engineering*, **2018**, 447, 012018	0.4	4
47	Formation of Diamond-Like Phases from Hexagonal and Tetragonal Graphene Layers. *Bulletin of the Russian Academy of Sciences: Physics*, **2018**, 82, 1209-1213	0.4	1
46	Structural varieties of carbon compounds. *IOP Conference Series: Materials Science and Engineering*, **2018**, 447, 012016	0.4	
45	Structural varieties of polytypes. *Physics of the Solid State*, **2017**, 59, 1926-1933	0.8	10
44	Investigation on the formation of lonsdaleite from graphite. *Journal of Experimental and Theoretical Physics*, **2017**, 124, 265-274	1	18
43	Structure of graphane polymorphs. *Journal of Physics: Conference Series*, **2017**, 917, 032015	0.3	2
42	Simulation of the formation of polymorphic varieties of nanodiamonds. *Journal of Physics: Conference Series*, **2017**, 917, 032004	0.3	

41	Hybrid sp2+sp3carbon phases created from carbon nanotubes. *Journal of Physics: Conference Series*, **2017**, 917, 032013	0.3	3
40	The structure of carbon nanotubes formed of graphene layers L4-8, L5-7, L3-12, L4-6-12. *Journal of Physics: Conference Series*, **2017**, 917, 032017	0.3	
39	Crystalline structure and properties of diamond-like materials. *Nanosystems: Physics, Chemistry, Mathematics*, **2017**, 127-136	1.8	3
38	Modeling of the formation of diamond-like phases from structural varieties of tetragonal graphite. *Letters on Materials*, **2017**, 7, 318-322	0.9	8
37	THEORETICAL INVESTIGATION OF PHASE TRANSITION OF TETRAGONAL L4-8 GRAPHENE INTO LA7 DIAMOND POLYMORPH. *Bulletin of the South Ural State University Series Mathematics Mechanics Physics*, **2017**, 9, 51-57	0	
36	Structure, properties, and possible mechanisms of formation of diamond-like phases. *Physics of the Solid State*, **2016**, 58, 2145-2154	0.8	30
35	Simulation of the phase transition of graphite to the diamond-like LA3 phase. *Technical Physics*, **2016**, 61, 1462-1466	0.5	13
34	Crystal Structure of L6, L4-8, L3-12 and L4-6-12 Graphene Polymorphs. *Materials Science Forum*, **2016**, 845, 247-250	0.4	
33	NEW MONOCLINIC POLYMORPHIC VARIETY OF DIAMOND FORMED OF GRAPHENE LAYERS. *Bulletin of the South Ural State University Series Mathematics Mechanics Physics*, **2016**, 8, 72-78	0	
32	Structure and some physicochemical properties of carbon and silicon phases with a LA3 diamond-like lattice. *Journal of Structural Chemistry*, **2016**, 57, 884-891	0.9	3
31	Structure and Properties of Diamond-Like Phases. *Materials Science Forum*, **2016**, 845, 231-234	0.4	2
30	Molecular and Crystalline Structure of Carbon Materials. *Materials Science Forum*, **2016**, 845, 235-238	0.4	1
29	Diamond-like phases prepared from graphene layers. *Physics of the Solid State*, **2015**, 57, 205-212	0.8	24
28	Diamond-like phases obtained from nanotubes and three-dimensional graphites. *Physics of the Solid State*, **2015**, 57, 1253-1263	0.8	15
27	Structure and electronic properties of crystals consisting of graphene layers L 6, L 48, L 312, and L 4612. *Physics of the Solid State*, **2015**, 57, 2126-2133	0.8	27
26	Structural modifications of graphyne layers consisting of carbon atoms in the sp- and sp 2-hybridized states. *Journal of Experimental and Theoretical Physics*, **2015**, 120, 820-830	1	22
25	Structures and properties of diamond-like phases derived from carbon nanotubes and three-dimensional graphites. *Journal of Materials Science*, **2015**, 50, 7627-7635	4.3	8
24	Diamond-like phases formed from fullerene-like clusters. *Physics of the Solid State*, **2015**, 57, 2331-2341	0.8	16

23	Technique for Calculating the Bulk Modulus. *Russian Physics Journal*, **2014**, 57, 731-737	0.7	11
22	New structural modifications of diamond: LA9, LA10, and CA12. *Journal of Experimental and Theoretical Physics*, **2014**, 119, 101-106	1	23
21	New polymorphic types of diamond. *Journal of Structural Chemistry*, **2014**, 55, 409-417	0.9	12
20	Novel carbon diamond-like phases LA5, LA7 and LA8. *Diamond and Related Materials*, **2014**, 50, 9-14	3.5	20
19	Defect electron states in carbon nanotubes and graphite from the NEXAFS spectroscopy data. *Physics of the Solid State*, **2013**, 55, 850-854	0.8	5
18	Classification of structural modifications of carbon. *Physics of the Solid State*, **2013**, 55, 1754-1764	0.8	74
17	Classification schemes for carbon phases and nanostructures. *New Carbon Materials*, **2013**, 28, 273-282	4.4	50
16	Specific features of the structure of detonation nanodiamonds from results of electron microscopy investigations. *Physics of the Solid State*, **2012**, 54, 1715-1722	0.8	21
15	Classification and structure of silicon carbide phases. *Physics of the Solid State*, **2012**, 54, 433-440	0.8	11
14	3D-graphite structure. *Crystallography Reports*, **2011**, 56, 101-106	0.6	3
13	Structures of diamond-like phases. *Journal of Experimental and Theoretical Physics*, **2011**, 113, 86-95	1	30
12	Structure of carbinoid nanotubes and carbinofullerenes. *Physics of the Solid State*, **2011**, 53, 2385-2392	0.8	27
11	Carbon phases from sp 2 hybridized atoms with three-dimensional rigidly bound structure. *Russian Physics Journal*, **2011**, 53, 1280-1285	0.7	
10	Structure of connections of single-walled carbon nanotubes with the use of the combined 57 and 48 topological defects. *Physics of the Solid State*, **2010**, 52, 868-875	0.8	3
9	Crystal structure of a perfect carbyne. *Crystallography Reports*, **2008**, 53, 83-87	0.6	9
8	Structure of new carbon phases from carbyne nanorings. *Crystallography Reports*, **2007**, 52, 343-348	0.6	4
7	Transformation of graphite structure under mechanical grinding. *Russian Physics Journal*, **2006**, 49, 822-827	0.7	1
6	New framework nanostructures of carbon atoms in sp 2 and sp 3 hybridized states. *Journal of Structural Chemistry*, **2005**, 46, 961-967	0.9	5

5	Formation of the Structure of C-SiC-Si-Al Composites. *Russian Journal of Applied Chemistry*, **2004**, 77, 353-359	0.8	1
4	The effects of sulfur and other impurities on carbon-graphite transitions. *Carbon*, **1998**, 36, 845-853	10.4	7
3	Modeling the graphitization of amorphous carbon. *Soviet Physics Journal (English Translation of Izvestiia Vysshykh Uchebnykh Zavedenii, Fizika)*, **1991**, 34, 903-905		
2	Ab Initio Calculations of New □L5-7a and □L5-7a Graphyne Polymorphic Varieties. *Materials Science Forum*,1049, 180-185	0.4	
1	Modeling the structure and interlayer interactions of twisted bilayer graphene. *Fullerenes Nanotubes and Carbon Nanostructures*,1-4	1.8	0