

Evgeny A Belenkov

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6916999/evgeny-a-belenkov-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Classification of structural modifications of carbon. <i>Physics of the Solid State</i> , 2013 , 55, 1754-1764	0.8	74
75	Classification schemes for carbon phases and nanostructures. <i>New Carbon Materials</i> , 2013 , 28, 273-282	4.4	50
74	Structure, properties, and possible mechanisms of formation of diamond-like phases. <i>Physics of the Solid State</i> , 2016 , 58, 2145-2154	0.8	30
73	Structures of diamond-like phases. <i>Journal of Experimental and Theoretical Physics</i> , 2011 , 113, 86-95	1	30
72	Structure and electronic properties of crystals consisting of graphene layers L 6, L 4B, L 3B2, and L 4B2. <i>Physics of the Solid State</i> , 2015 , 57, 2126-2133	0.8	27
71	Structure of carbinoid nanotubes and carbinofullerenes. <i>Physics of the Solid State</i> , 2011 , 53, 2385-2392	0.8	27
70	Diamond-like phases prepared from graphene layers. <i>Physics of the Solid State</i> , 2015 , 57, 205-212	0.8	24
69	New structural modifications of diamond: LA9, LA10, and CA12. <i>Journal of Experimental and Theoretical Physics</i> , 2014 , 119, 101-106	1	23
68	Structural modifications of graphyne layers consisting of carbon atoms in the sp- and sp ² -hybridized states. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 120, 820-830	1	22
67	Specific features of the structure of detonation nanodiamonds from results of electron microscopy investigations. <i>Physics of the Solid State</i> , 2012 , 54, 1715-1722	0.8	21
66	Novel carbon diamond-like phases LA5, LA7 and LA8. <i>Diamond and Related Materials</i> , 2014 , 50, 9-14	3.5	20
65	Investigation on the formation of lonsdaleite from graphite. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 124, 265-274	1	18
64	New aspects in the study of carbon-hydrogen interaction in hydrogenated carbon nanotubes for energy storage applications. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 713-720	5.7	16
63	Diamond-like phases formed from fullerene-like clusters. <i>Physics of the Solid State</i> , 2015 , 57, 2331-2341	0.8	16
62	Diamond-like phases obtained from nanotubes and three-dimensional graphites. <i>Physics of the Solid State</i> , 2015 , 57, 1253-1263	0.8	15
61	Simulation of the phase transition of graphite to the diamond-like LA3 phase. <i>Technical Physics</i> , 2016 , 61, 1462-1466	0.5	13
60	Modeling of Phase Transitions of Graphites to Diamond-Like Phases. <i>Physics of the Solid State</i> , 2018 , 60, 1294-1302	0.8	12

59	New polymorphic types of diamond. <i>Journal of Structural Chemistry</i> , 2014 , 55, 409-417	0.9	12
58	Technique for Calculating the Bulk Modulus. <i>Russian Physics Journal</i> , 2014 , 57, 731-737	0.7	11
57	Classification and structure of silicon carbide phases. <i>Physics of the Solid State</i> , 2012 , 54, 433-440	0.8	11
56	Structural varieties of polytypes. <i>Physics of the Solid State</i> , 2017 , 59, 1926-1933	0.8	10
55	Structure and electronic properties of graphyne layers modeled on layers of graphene L302. <i>Letters on Materials</i> , 2018 , 8, 169-173	0.9	10
54	Crystal structure of a perfect carbyne. <i>Crystallography Reports</i> , 2008 , 53, 83-87	0.6	9
53	Structures and properties of diamond-like phases derived from carbon nanotubes and three-dimensional graphites. <i>Journal of Materials Science</i> , 2015 , 50, 7627-7635	4.3	8
52	Modeling of the formation of diamond-like phases from structural varieties of tetragonal graphite. <i>Letters on Materials</i> , 2017 , 7, 318-322	0.9	8
51	Theoretical Investigation of Phase Transitions of Graphite and Cubic 3C Diamond Into Hexagonal 2H Diamond Under High Pressures. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800575	1.3	7
50	Graphynes: Advanced Carbon Materials with Layered Structure 2019 , 113-150		7
49	The effects of sulfur and other impurities on carbon-graphite transitions. <i>Carbon</i> , 1998 , 36, 845-853	10.4	7
48	Structure of fluorographene and its polymorphous varieties. <i>Journal of Physics: Conference Series</i> , 2018 , 1124, 022010	0.3	7
47	Calculation of the Physicochemical Characteristics of a New Orthorhombic Form of Diamond. <i>Inorganic Materials</i> , 2018 , 54, 111-116	0.9	6
46	Defect electron states in carbon nanotubes and graphite from the NEXAFS spectroscopy data. <i>Physics of the Solid State</i> , 2013 , 55, 850-854	0.8	5
45	New framework nanostructures of carbon atoms in sp ² and sp ³ hybridized states. <i>Journal of Structural Chemistry</i> , 2005 , 46, 961-967	0.9	5
44	Structure of new carbon phases from carbyne nanorings. <i>Crystallography Reports</i> , 2007 , 52, 343-348	0.6	4
43	Diamond-like phase formed of carbon C ₂₄ clusters. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012018	0.4	4
42	Hybrid sp ² +sp ³ carbon phases created from carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 032013	0.3	3

41	3D-graphite structure. <i>Crystallography Reports</i> , 2011 , 56, 101-106	0.6	3
40	Structure of connections of single-walled carbon nanotubes with the use of the combined 5 $\bar{7}$ and 4 $\bar{8}$ topological defects. <i>Physics of the Solid State</i> , 2010 , 52, 868-875	0.8	3
39	Crystalline structure and properties of diamond-like materials. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2017 , 127-136	1.8	3
38	Ageing of chemically modified poly(vinylidene fluoride) film: Evolution of triple carbon-carbon bonds infrared absorption. <i>Polymer Degradation and Stability</i> , 2020 , 172, 109059	4.7	3
37	Structure and some physicochemical properties of carbon and silicon phases with a LA3 diamond-like lattice. <i>Journal of Structural Chemistry</i> , 2016 , 57, 884-891	0.9	3
36	New polymorphic varieties of fluorographene forming during fluorine functionalization of 4-8 graphene layers. <i>Journal of Physics: Conference Series</i> , 2019 , 1410, 012012	0.3	3
35	Structure and electronic properties of graphyne polymorphs formed from 4-8 graphene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 537, 022070	0.4	2
34	Structure of graphane polymorphs. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 032015	0.3	2
33	Ab Initio Calculations of Carbon Bilayers with Diamond-Like Structures. <i>Journal of Structural Chemistry</i> , 2020 , 61, 835-843	0.9	2
32	Structure and Properties of Diamond-Like Phases. <i>Materials Science Forum</i> , 2016 , 845, 231-234	0.4	2
31	Graphene polymorphs. <i>Journal of Physics: Conference Series</i> , 2019 , 1399, 022024	0.3	2
30	Structure Formation of Hexagonal Diamond: Ab Initio Calculations. <i>Physics of the Solid State</i> , 2019 , 61, 1882-1890	0.8	1
29	Structural types of graphyne layers formed on the basis of 4-6-12 graphene. <i>Journal of Physics: Conference Series</i> , 2020 , 1431, 012010	0.3	1
28	Simulation of the structure and electronic properties of fluorographene polymorphs formed on the basis of 4-8 graphene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 537, 022058	0.4	1
27	New BN polymorphs with two-dimensional structure. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 537, 022060	0.4	1
26	Transformation of graphite structure under mechanical grinding. <i>Russian Physics Journal</i> , 2006 , 49, 822-827		1
25	Formation of the Structure of C-SiC-Si-Al Composites. <i>Russian Journal of Applied Chemistry</i> , 2004 , 77, 353-359	0.8	1
24	Theoretical study of the stability and formation methods of layer diamond-like nanostructures. <i>Letters on Materials</i> , 2020 , 10, 457-462	0.9	1

23	Molecular and Crystalline Structure of Carbon Materials. <i>Materials Science Forum</i> , 2016 , 845, 235-238	0.4	1
22	Carbon materials formed by polymerization of C20 and C24 fullerenes. <i>Journal of Physics: Conference Series</i> , 2018 , 1124, 022011	0.3	1
21	Investigation on structural transitions of graphenes into diamond polymorphs at high pressure. <i>Journal of Physics: Conference Series</i> , 2018 , 1124, 022002	0.3	1
20	Structure and electronic properties of 5-7 graphene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 447, 012005	0.4	1
19	Formation of Diamond-Like Phases from Hexagonal and Tetragonal Graphene Layers. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2018 , 82, 1209-1213	0.4	1
18	Modeling of synthesis pathways for diamond-like polycyclobutane phases. <i>Letters on Materials</i> , 2019 , 9, 428-432	0.9	0
17	Structure and electronic properties of 4-8 and 4-6-12 layered varieties of boron nitride. <i>Journal of Physics: Conference Series</i> , 2019 , 1410, 012016	0.3	0
16	Modeling the structure and interlayer interactions of twisted bilayer graphene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 1-4	1.8	0
15	Atomic structure and electronic properties of binary graphane: Ab initio calculations. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 537, 022056	0.4	
14	Theoretical investigation of the deformation stability and thermostability of carbon diamond-like phases. <i>Journal of Physics: Conference Series</i> , 2020 , 1431, 012016	0.3	
13	New polymorphic varieties of boron nitride with structure similar to graphyne. <i>Journal of Physics: Conference Series</i> , 2020 , 1431, 012051	0.3	
12	Crystal Structure of L6, L4-8, L3-12 and L4-6-12 Graphene Polymorphs. <i>Materials Science Forum</i> , 2016 , 845, 247-250	0.4	
11	Simulation of the formation of polymorphic varieties of nanodiamonds. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 032004	0.3	
10	The structure of carbon nanotubes formed of graphene layers L4-8, L5-7, L3-12, L4-6-12. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 032017	0.3	
9	Carbon phases from sp ² hybridized atoms with three-dimensional rigidly bound structure. <i>Russian Physics Journal</i> , 2011 , 53, 1280-1285	0.7	
8	Modeling the graphitization of amorphous carbon. <i>Soviet Physics Journal (English Translation of Izvestiya Vysshikh Uchebnykh Zavedenii, Fizika)</i> , 1991 , 34, 903-905		
7	Ab Initio Computer Modeling of a Diamond-Like 5 \times Bilayer. <i>Communications in Computer and Information Science</i> , 2022 , 121-130	0.3	
6	Ab Initio Calculations of New L5-7a and L5-7a Graphyne Polymorphic Varieties. <i>Materials Science Forum</i> , 1049, 180-185	0.4	

- 5 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
- 4 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
- 3 Ab initio calculations of the formation polymerized fullerite from endohedral clusters Li@C24. *Journal of Physics: Conference Series*, **2019**, 1399, 022022 0.3
- 2 Investigation of a new C24 cluster for obtaining diamond-like phases: first-principle calculations. *Journal of Physics: Conference Series*, **2019**, 1410, 012031 0.3
- 1 Structural varieties of carbon compounds. *IOP Conference Series: Materials Science and Engineering*, **2018**, 447, 012016 0.4