

Vladimir A Greshnyakov

List of Publications by Year in descending order

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45
papers

541
citations

686830

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642321

23
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46
all docs

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docs citations

46
times ranked

235
citing authors

#	ARTICLE	IF	CITATIONS
1	Classification of structural modifications of carbon. <i>Physics of the Solid State</i> , 2013, 55, 1754-1764.	0.2	80
2	Classification schemes for carbon phases and nanostructures. <i>New Carbon Materials</i> , 2013, 28, 273-282.	2.9	53
3	Structure, properties, and possible mechanisms of formation of diamond-like phases. <i>Physics of the Solid State</i> , 2016, 58, 2145-2154.	0.2	35
4	Structures of diamond-like phases. <i>Journal of Experimental and Theoretical Physics</i> , 2011, 113, 86-95.	0.2	33
5	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.	0.2	28
6	Diamond-like phases prepared from graphene layers. <i>Physics of the Solid State</i> , 2015, 57, 205-212.	0.2	26
7	New structural modifications of diamond: LA9, LA10, and CA12. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 101-106.	0.2	25
8	Novel carbon diamond-like phases LA5, LA7 and LA8. <i>Diamond and Related Materials</i> , 2014, 50, 9-14.	1.8	23
9	Investigation on the formation of lonsdaleite from graphite. <i>Journal of Experimental and Theoretical Physics</i> , 2017, 124, 265-274.	0.2	23
10	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.	2.8	21
11	Diamond-like phases formed from fullerene-like clusters. <i>Physics of the Solid State</i> , 2015, 57, 2331-2341.	0.2	17
12	Diamond-like phases obtained from nanotubes and three-dimensional graphites. <i>Physics of the Solid State</i> , 2015, 57, 1253-1263.	0.2	16
13	New polymorphic types of diamond. <i>Journal of Structural Chemistry</i> , 2014, 55, 409-417.	0.3	13
14	Simulation of the phase transition of graphite to the diamond-like LA3 phase. <i>Technical Physics</i> , 2016, 61, 1462-1466.	0.2	13
15	Structural varieties of polytypes. <i>Physics of the Solid State</i> , 2017, 59, 1926-1933.	0.2	13
16	Modeling of Phase Transitions of Graphites to Diamond-Like Phases. <i>Physics of the Solid State</i> , 2018, 60, 1294-1302.	0.2	13
17	Classification and structure of silicon carbide phases. <i>Physics of the Solid State</i> , 2012, 54, 433-440.	0.2	12
18	Technique for Calculating the Bulk Modulus. <i>Russian Physics Journal</i> , 2014, 57, 731-737.	0.2	12

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19	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.	0.7	10
20	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.	1.7	9
21	Calculation of the Physicochemical Characteristics of a New Orthorhombic Form of Diamond. <i>Inorganic Materials</i> , 2018, 54, 111-116.	0.2	8
22	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.	2.7	8
23	Modeling of the formation of diamond-like phases from structural varieties of tetragonal graphite. <i>Letters on Materials</i> , 2017, 7, 318-322.	0.2	8
24	Crystalline structure and properties of diamond-like materials. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2017, , 127-136.	0.2	6
25	Structure of graphane polymorphs. <i>Journal of Physics: Conference Series</i> , 2017, 917, 032015.	0.3	4
26	Diamond-like phase formed of carbon C24 clusters. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 447, 012018.	0.3	4
27	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.	0.3	3
28	Structure Formation of Hexagonal Diamond: Ab Initio Calculations. <i>Physics of the Solid State</i> , 2019, 61, 1882-1890.	0.2	3
29	Ab Initio Calculations of Carbon Bilayers with Diamond-Like Structures. <i>Journal of Structural Chemistry</i> , 2020, 61, 835-843.	0.3	3
30	Theoretical study of the stability and formation methods of layer diamond-like nanostructures. <i>Letters on Materials</i> , 2020, 10, 457-462.	0.2	3
31	Structure and properties of a chiral polymorph of diamond with a crystal lattice of the SA3 type. <i>Letters on Materials</i> , 2021, 11, 479-484.	0.2	3
32	Structure and Properties of Diamond-Like Phases. <i>Materials Science Forum</i> , 2016, 845, 231-234.	0.3	2
33	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.	0.1	2
34	Structure and electronic properties of graphyne polymorphs formed from 4-8 graphene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 537, 022070.	0.3	2
35	Modeling the structure and interlayer interactions of twisted bilayer graphene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 152-155.	1.0	2
36	Structure and properties of diamond-like phase obtained from tetragonal graphene layers. <i>Letters on Materials</i> , 2016, 6, 159-162.	0.2	2

#	ARTICLE	IF	CITATIONS
37	Molecular and Crystalline Structure of Carbon Materials. Materials Science Forum, 2016, 845, 235-238.	0.3	1
38	Simulation of the formation of polymorphic varieties of nanodiamonds. Journal of Physics: Conference Series, 2017, 917, 032004.	0.3	1
39	Modeling of synthesis pathways for diamond-like polycyclobutane phases. Letters on Materials, 2019, 9, 428-432.	0.2	1
40	Structural varieties of carbon compounds. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012016.	0.3	0
41	Atomic structure and electronic properties of binary graphane: Ab initio calculations. IOP Conference Series: Materials Science and Engineering, 2019, 537, 022056.	0.3	0
42	Ab initio calculations of the formation polymerized fullerite from endohedral clusters $\text{Li}@C_{24}$. Journal of Physics: Conference Series, 2019, 1399, 022022.	0.3	0
43	Investigation of a new C ₂₄ cluster for obtaining diamond-like phases: first-principle calculations. Journal of Physics: Conference Series, 2019, 1410, 012031.	0.3	0
44	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.	0.2	0
45	PHASE TRANSFORMATIONS OF LA3 AND LA5 DIAMOND POLYMORPHS. Physical and Chemical Aspects of the Study of Clusters, Nanostructures and Nanomaterials, 2019, , 458-465.	0.2	0