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Phase conversion from graphite toward a simple monoclinic  $sp^3$ -carbon allotrope

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Journal of Chemical Physics, 2012, 137, 024502.

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#	Paper	IF	Citations
37	Orthorhombic C32: a novel superhard sp <sup>3</sup> carbon allotrope. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 14120-5	3.6	52
36	Energetics and kinetics of direct phase conversion from graphite to diamond. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2013</b> , 56, 2266-2271	3.6	1
35	New carbon allotropes with helical chains of complementary chirality connected by ethene-type E-conjugation. <i>Scientific Reports</i> , <b>2013</b> , 3, 3077	4.9	49
34	Superhard sp <sup>3</sup> carbon allotrope: Ab initio calculations. <i>Europhysics Letters</i> , <b>2014</b> , 108, 46006	1.6	4
33	K6 carbon: a metallic carbon allotrope in sp <sup>3</sup> bonding networks. <i>Journal of Chemical Physics</i> , <b>2014</b> , 140, 054514	3.9	44
32	M585, a low energy superhard monoclinic carbon phase. <i>Solid State Communications</i> , <b>2014</b> , 181, 24-27	1.6	23
31	Modulated T carbon-like carbon allotropes: an ab initio study. <i>RSC Advances</i> , <b>2014</b> , 4, 17364	3.7	28
30	First-principles study of a novel superhard sp <sup>3</sup> carbon allotrope. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 3326-3330	2.3	26
29	Computational prediction of body-centered cubic carbon in an all-sp <sup>3</sup> six-member ring configuration. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	37
28	Ab initio structure determination of n-diamond. <i>Scientific Reports</i> , <b>2015</b> , 5, 13447	4.9	12
27	Ultra-Hard Bonds in P-Carbon Stronger than Diamond. <i>Chinese Physics Letters</i> , <b>2015</b> , 32, 096201	1.8	4
26	Structural, Elastic, and Electronic Properties of a New Phase of Carbon. <i>Communications in Theoretical Physics</i> , <b>2015</b> , 64, 237-243	2.4	16
25	A new carbon allotrope with six-fold helical chains in all-sp <sup>2</sup> bonding networks. <i>Scientific Reports</i> , <b>2014</b> , 4, 4339	4.9	67
24	A Reinvestigation of a Superhard Tetragonal sp <sup>2</sup> Carbon Allotrope. <i>Materials</i> , <b>2016</b> , 9,	3.5	15
23	H18 Carbon: A New Metallic Phase with sp <sup>2</sup> -sp <sup>3</sup> Hybridized Bonding Network. <i>Scientific Reports</i> , <b>2016</b> , 6, 21879	4.9	46
22	Three-Dimensional Carbon Allotropes Comprising Phenyl Rings and Acetylenic Chains in sp+sp <sup>2</sup> Hybrid Networks. <i>Scientific Reports</i> , <b>2016</b> , 6, 24665	4.9	25
21	Elastic and electronic properties of M585 carbon under pressure. <i>Chinese Journal of Physics</i> , <b>2016</b> , 54, 398-407	3.5	2

20	C 20 - T carbon: a novel superhard sp (3) carbon allotrope with large cavities. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 475402	1.8	22
19	Body-Centered Orthorhombic C <sub>16</sub> : A Novel Topological Node-Line Semimetal. <i>Physical Review Letters</i> , <b>2016</b> , 116, 195501	7.4	129
18	Direct band gap carbon superlattices with efficient optical transition. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	9
17	Semimetallic carbon allotrope with a topological nodal line in mixed sp <sup>2</sup> -sp <sup>3</sup> bonding networks. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e361-e361	10.3	14
16	Monitoring the transformation of aliphatic and fullerene molecules by high-energy electrons using surface-enhanced Raman spectroscopy. <i>Nanotechnology</i> , <b>2017</b> , 28, 165701	3.4	2
15	Orthorhombic carbon oC <sub>24</sub> : A novel topological nodal line semimetal. <i>Carbon</i> , <b>2018</b> , 133, 39-43	10.4	35
14	New carbon allotropes in sp + sp bonding networks consisting of C cubes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 7962-7967	3.6	27
13	The structure and interaction mechanisms of C <sub>10</sub> H <sub>16</sub> @(13,0)SWCNT under high pressure. <i>International Journal of Modern Physics B</i> , <b>2018</b> , 32, 1850054	1.1	1
12	Computational discovery of a new rhombohedral diamond phase. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	18
11	Topological nodal line semimetal in an orthorhombic graphene network structure. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	20
10	Atomistic Computational Analysis of the Loading Orientation-Dependent Phase Transformation in Graphite under Compression. <i>Jom</i> , <b>2019</b> , 71, 3892-3902	2.1	4
9	Topological nodal line semimetals in graphene network structures. <i>Advances in Physics: X</i> , <b>2019</b> , 4, 1625724	3.4	6
8	Dynamical behavior and high-pressure study of C <sub>20</sub> @Tube peapod structure. <i>Materials Research Express</i> , <b>2019</b> , 6, 085028	1.7	1
7	On the dynamics of metal filled CNOs fusion: the case of sp <sup>3</sup> -rich Cu filled carbon foam. <i>Materials Research Express</i> , <b>2019</b> , 6, 025606	1.7	
6	Global Search for Crystal Structures of Carbon under High Pressure. <i>ACS Omega</i> , <b>2020</b> , 5, 18142-18147	3.9	3
5	Body centered cubic carbon BC <sub>14</sub> : An all-sp <sup>3</sup> bonded full-fledged pentadiamond. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	10
4	New carbon allotropes derived from nanotubes via a three-fold distortion mechanism. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 12489-12495	3.6	1
3	An automated predictor for identifying transition states in solids. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	5

- 2 Topological phase transition from T-carbon to bct-C16. *New Journal of Physics*, **2020**, 22, 073036 2.9 4
- 1 Four Carbon Allotropes Form COT Structures. *ACS Applied Electronic Materials*, 4 0