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Orthorhombic carbon allotrope of compressed graphite: Ab initio calculations

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#	Paper	IF	Citations
78	A graphene composed of pentagons and octagons. <i>AIP Advances</i> , 2012 , 2, 042147	1.5	12
77	New superhard carbon phases between graphite and diamond. <i>Solid State Communications</i> , 2012 , 152, 1560-1563	1.6	77
76	Phase conversion from graphite toward a simple monoclinic sp ³ -carbon allotrope. <i>Journal of Chemical Physics</i> , 2012 , 137, 024502	3.9	36
75	From soft to superhard: Fifty years of experiments on cold-compressed graphite. <i>Journal of Superhard Materials</i> , 2012 , 34, 360-370	0.9	21
74	High-pressure behaviors of carbon nanotubes. <i>Journal of Superhard Materials</i> , 2012 , 34, 371-385	0.9	22
73	Prediction of superhard carbon allotropes from the segment combination method. <i>Journal of Superhard Materials</i> , 2012 , 34, 386-399	0.9	16
72	Z-BN: a novel superhard boron nitride phase. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 10967-71	3.6	63
71	Superhard F-carbon predicted by ab initio particle-swarm optimization methodology. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 165504	1.8	39
70	Tetragonal allotrope of group 14 elements. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12362-516.4	5.6	146
69	Carbon structures and defect planes in diamond at high pressure. <i>Physical Review B</i> , 2013 , 88,	3.3	30
68	Orthorhombic C32: a novel superhard sp ³ carbon allotrope. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14120-5	3.6	52
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66	Energetics and kinetics of direct phase conversion from graphite to diamond. <i>Science China: Physics, Mechanics and Astronomy</i> , 2013 , 56, 2266-2271	3.6	1
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62	New carbon allotropes with helical chains of complementary chirality connected by ethene-type E-conjugation. <i>Scientific Reports</i> , 2013 , 3, 3077	4.9	49

61	Superhard sp ³ carbon allotrope: Ab initio calculations. <i>Europhysics Letters</i> , 2014 , 108, 46006	1.6	4
60	K6 carbon: a metallic carbon allotrope in sp ³ bonding networks. <i>Journal of Chemical Physics</i> , 2014 , 140, 054514	3.9	44
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50	A metallic superhard boron carbide: first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9748-51	3.6	10
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35	Monoclinic C2/m-20 carbon: a novel superhard sp ³ carbon allotrope. <i>RSC Advances</i> , 2016 , 6, 32740-32745	5.7	27
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27	New carbon allotropes in sp + sp bonding networks consisting of C cubes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7962-7967	3.6	27
26	A sp ² +sp ³ hybridized carbon allotrope transformed from AB stacking graphyne and THD-graphene. <i>AIP Advances</i> , 2018 , 8, 015028	1.5	7

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24	Optical properties of body-centered tetragonal C4: Insights from many-body perturbation and time-dependent density functional theories. <i>Journal of Applied Physics</i> , 2018 , 123, 165107	2.5	
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