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Kinetic origin of divergent decompression pathways in silicon and germanium

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#	Paper	IF	Citations
42	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
41	New carbon allotropes with helical chains of complementary chirality connected by ethene-type π -conjugation. <i>Scientific Reports</i> , 2013 , 3, 3077	4.9	49
40	A family of low-energy low-density silicon allotropes built from the diamond structure. <i>Europhysics Letters</i> , 2013 , 104, 56005	1.6	4
39	Controlled formation of metastable germanium polymorphs. <i>Physical Review B</i> , 2014 , 89,	3.3	36
38	Dense Si(x)Ge(1-x) (0 Inorganic Chemistry, 2014 , 53, 5656-62	5.1	9
37	Phase stability and transition of BaSi ₂ -type disilicides and digermanides. <i>Physical Review B</i> , 2015 , 91,	3.3	6
36	Low-energy tetrahedral polymorphs of carbon, silicon, and germanium. <i>Physical Review B</i> , 2015 , 91,	3.3	77
35	Experimental evidence of new tetragonal polymorphs of silicon formed through ultrafast laser-induced confined microexplosion. <i>Nature Communications</i> , 2015 , 6, 7555	17.4	94
34	Crystal structure of laser-induced subsurface modifications in Si. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 683-691	2.6	23
33	Novel . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 2479-2483	2.3	1
32	A new carbon allotrope with six-fold helical chains in all-sp ² bonding networks. <i>Scientific Reports</i> , 2014 , 4, 4339	4.9	67
31	Pathways to exotic metastable silicon allotropes. <i>Applied Physics Reviews</i> , 2016 , 3, 040808	17.3	49
30	Si ₁₀ : A sp ³ Silicon Allotrope with Spirally Connected Si ₅ Tetrahedrons. <i>Chemistry of Materials</i> , 2016 , 28, 6441-6445	9.6	14
29	Ab initio prediction of superdense tetragonal and monoclinic polymorphs of carbon. <i>Physical Review B</i> , 2016 , 94,	3.3	15
28	Properties of the exotic metastable ST12 germanium allotrope. <i>Nature Communications</i> , 2017 , 8, 13909	17.4	27
27	Dramatic Changes in Thermoelectric Power of Germanium under Pressure: Printing n-p Junctions by Applied Stress. <i>Scientific Reports</i> , 2017 , 7, 44220	4.9	12
26	Phase transformation of germanium by processing through high-pressure torsion: strain and temperature effects. <i>Philosophical Magazine Letters</i> , 2017 , 97, 27-34	1	17

25	New tetrahedral polymorphs of the group-14 elements. <i>Journal of Physics: Conference Series</i> , 2017 , 950, 042010	0.3	
24	Metastable States in Pressurized Bulk and Mesoporous Germanium. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 10929-10938	3.8	5
23	Computational discovery of a new rhombohedral diamond phase. <i>Physical Review B</i> , 2018 , 98,	3.3	18
22	Topological nodal line semimetal in an orthorhombic graphene network structure. <i>Physical Review B</i> , 2018 , 97,	3.3	20
21	A new carbon allotrope with orthorhombic symmetry formed via graphitic sheet buckling. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 22762-22767	3.6	7
20	Phase Transition Pathway Sampling via Swarm Intelligence and Graph Theory. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5019-5026	6.4	7
19	Experimental observations of large changes in electron density distributions in Ge. <i>Physical Review B</i> , 2019 , 100,	3.3	2
18	All-Silicon Topological Semimetals with Closed Nodal Line. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 244-250	6.4	14
17	Temperature- and Rate-Dependent Pathways in Formation of Metastable Silicon Phases under Rapid Decompression. <i>Physical Review Letters</i> , 2020 , 125, 155702	7.4	8
16	Ab initio study of band gap properties in metastable BC8/ST12 SixGe1-x alloys. <i>Applied Physics Letters</i> , 2020 , 117, 032105	3.4	2
15	Controlling the thermoelectric power of silicon-germanium alloys in different crystalline phases by applying high pressure. <i>CrystEngComm</i> , 2020 , 22, 5416-5435	3.3	7
14	Body centered cubic carbon BC14: An all-sp ³ bonded full-fledged pentadiamond. <i>Physical Review B</i> , 2020 , 102,	3.3	10
13	New carbon allotropes derived from nanotubes via a three-fold distortion mechanism. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 12489-12495	3.6	1
12	Infinite family of bc8-like metastable phases in silicon. <i>Physical Review B</i> , 2020 , 101,	3.3	4
11	Atypical reversed pressure-induced phase transformation in Ge nanowires. <i>Nanotechnology</i> , 2020 , 31, 235711	3.4	1
10	Revealing the Pressure-Induced Softening/Weakening Mechanism in Representative Covalent Materials. <i>Chinese Physics Letters</i> , 2021 , 38, 056101	1.8	
9	Dimensional crossover tuned by pressure in layered magnetic NiPS ₃ . <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	1
8	Hexagonal Si-Ge Class of Semiconducting Alloys Prepared by Using Pressure and Temperature. <i>Chemistry - A European Journal</i> , 2021 , 27, 14217-14224	4.8	0

7	High harmonic studies of structural phase transitions in silicon. <i>Computational Materials Science</i> , 2021 , 197, 110621	3.2	1
6	Synthesis of Novel Phases in Si Nanowires Using Diamond Anvil Cells at High Pressures and Temperatures. <i>Nano Letters</i> , 2021 , 21, 1427-1433	11.5	3
5	Exotic silicon phases synthesized through ultrashort laser-induced microexplosion: Characterization with Raman microspectroscopy. <i>Physical Review Materials</i> , 2020 , 4,	3.2	6
4	Phase-pure ST12 Ge bulks through secondary pressure induced phase transition. <i>Solid State Communications</i> , 2022 , 348-349, 114742	1.6	
3	Pressure-densified new rhombohedral phase of EuSn ₂ As ₂ . <i>Physical Review B</i> , 2021 , 104,	3.3	1
2	Search for High-Pressure Silicon Phases: Reaching the Extreme Conditions with High-Intensity Laser Irradiation. 2023 , 471-494		0
1	Structural transitions at high pressure and metastable phase in Si _{0.8} Ge _{0.2} . 2023 , 170180		0