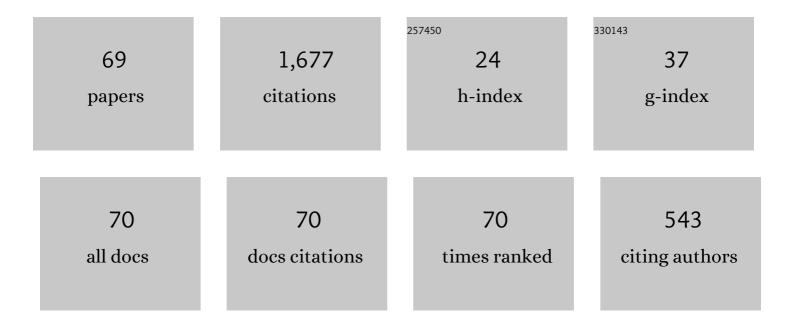
Qingyang Fan

List of Publications by Year in descending order

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Οίνογανο Γάν

#	Article	IF	CITATIONS
1	Elastic and electronic properties of Pbca-BN: First-principles calculations. Computational Materials Science, 2014, 85, 80-87.	3.0	114
2	Structural, mechanical, and electronic properties of P3m1-BCN. Journal of Physics and Chemistry of Solids, 2015, 79, 89-96.	4.0	79
3	A hybrid niobium-based oxide with bio-based porous carbon as an efficient electrocatalyst in photovoltaics: a general strategy for understanding the catalytic mechanism. Journal of Materials Chemistry A, 2019, 7, 14864-14875.	10.3	74
4	PBCFâ€Graphene: A 2D <i>Sp</i> ² Hybridized Honeycomb Carbon Allotrope with a Direct Band Gap. ChemNanoMat, 2020, 6, 139-147.	2.8	54
5	Enhanced direct interspecies electron transfer with transition metal oxide accelerants in anaerobic digestion. Bioresource Technology, 2021, 320, 124294.	9.6	52
6	Two novel silicon phases with direct band gaps. Physical Chemistry Chemical Physics, 2016, 18, 12905-12913.	2.8	50
7	Five carbon allotropes from Squaroglitter structures. Computational Materials Science, 2020, 178, 109634.	3.0	49
8	IIIâ€Nitride Polymorphs: XN (X=Al, Ga, In) in the <i>Pnma</i> Phase. Chemistry - A European Journal, 2018, 24, 17280-17287.	3.3	46
9	<i>t</i> ‣i ₆₄ : A Novel Silicon Allotrope. ChemPhysChem, 2019, 20, 128-133.	2.1	45
10	Novel silicon allotropes: Stability, mechanical, and electronic properties. Journal of Applied Physics, 2015, 118, .	2.5	44
11	Stability, mechanical, anisotropic and electronic properties of oP8 carbon: A superhard carbon allotrope in orthorhombic phase. Journal of Solid State Chemistry, 2021, 294, 121894.	2.9	42
12	Two novel superhard carbon allotropes with honeycomb structures. Journal of Applied Physics, 2019, 126, .	2.5	41
13	Two-dimensional carbon allotropes with tunable direct band gaps and high carrier mobility. Applied Surface Science, 2021, 537, 147885.	6.1	39
14	Prediction of novel phase of silicon and Si–Ge alloys. Journal of Solid State Chemistry, 2016, 233, 471-483.	2.9	37
15	Two orthorhombic superhard carbon allotropes: C16 and C24. Diamond and Related Materials, 2021, 116, 108426.	3.9	35
16	Two Novel C3N4 Phases: Structural, Mechanical and Electronic Properties. Materials, 2016, 9, 427.	2.9	34
17	An orthorhombic superhard carbon allotrope: Pmma C24. Journal of Solid State Chemistry, 2021, 300, 122260.	2.9	33
18	Theoretical investigations of group IV alloys in the Lonsdaleite phase. Journal of Materials Science, 2018, 53, 2785-2801.	3.7	31

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19	Physical properties of a novel microporous carbon material. Diamond and Related Materials, 2020, 106, 107831.	3.9	31
20	Penta-C20: A Superhard Direct Band Gap Carbon Allotrope Composed of Carbon Pentagon. Materials, 2020, 13, 1926.	2.9	31
21	Mechanical and electronic properties of Si, Ge and their alloys in P42/mnm structure. Materials Science in Semiconductor Processing, 2016, 43, 187-195.	4.0	29
22	Two novel Ge phases and their Si Ge alloys with excellent electronic and optical properties. Materials and Design, 2017, 132, 539-551.	7.0	27
23	Si96: A New Silicon Allotrope with Interesting Physical Properties. Materials, 2016, 9, 284.	2.9	26
24	Theoretical investigations of Ge1â^'xSn x alloys (x = 0, 0.333, 0.667, 1) in P42/ncm phase. Journal of Materials Science, 2018, 53, 9611-9626.	3.7	26
25	P63/mmc-Ge and their Si–Ge alloys with a mouldable direct band gap. Semiconductor Science and Technology, 2020, 35, 055012.	2.0	26
26	Elastic and electronic properties of Imm2- and I <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mover accent="true"><mml:mrow><mml:mn>4</mml:mn></mml:mrow><mml:mrow><mml:mrow><mml:mo>Â⁻</mml:mo><td>3.0 mrow><td>25 1ml:mover></td></td></mml:mrow></mml:mrow></mml:mover </mml:mrow></mml:math 	3.0 mrow> <td>25 1ml:mover></td>	25 1ml:mover>
27	Computational Materials Science, 2015, 97, 6-13. Physical Properties of XN (X = B, Al, Ga, In) in the Pmâ^'3n phase: First-Principles Calculations. Materials, 2020, 13, 1280.	2.9	25
28	Physical properties of group 14 semiconductor alloys in orthorhombic phase. Journal of Applied Physics, 2019, 126, 045709.	2.5	24
29	Three-dimensional metallic carbon allotropes with superhardness. Nanotechnology Reviews, 2021, 10, 1266-1276.	5.8	24
30	Physical properties of group 14 elements in P2/m phase. Journal of Solid State Chemistry, 2022, 305, 122641.	2.9	24
31	All <i>sp</i> 2 hybridization BN polymorphs with wide bandgap. Journal of Applied Physics, 2022, 131, .	2.5	24
32	A novel two-dimensional sp-sp2-sp3 hybridized carbon nanostructure with a negative in-plane Poisson ratio and high electron mobility. Computational Materials Science, 2020, 185, 109904.	3.0	20
33	Six novel carbon and silicon allotropes with their potential application in photovoltaic field. Journal of Physics Condensed Matter, 2020, 32, 355701.	1.8	20
34	The Mechanical and Electronic Properties of Carbon-Rich Silicon Carbide. Materials, 2016, 9, 333.	2.9	19
35	Metallic and semiconducting carbon allotropes comprising of pentalene skeletons. Diamond and Related Materials, 2020, 109, 108063.	3.9	19
36	Mechanical and electronic properties of Ca1â^'Mg O alloys. Materials Science in Semiconductor Processing, 2015, 40, 676-684.	4.0	18

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#	Article	IF	CITATIONS
37	P2 ₁ 3 BN: a novel large-cell boron nitride polymorph. Communications in Theoretical Physics, 2021, 73, 125701.	2.5	18
38	Si–Ge alloys in C2/c phase with tunable direct band gaps: A comprehensive study. Current Applied Physics, 2019, 19, 1325-1333.	2.4	17
39	Designing a sp3 nanoporous structure of carbon: A comprehensive study on the physical properties. Results in Physics, 2020, 19, 103473.	4.1	17
40	Physical properties of Si–Ge alloys in <i>C</i> 2/ <i>m</i> phase: a comprehensive investigation. Journal of Physics Condensed Matter, 2019, 31, 255703.	1.8	16
41	Designing a sp3 structure of carbon T-C9: First-principles calculations. Results in Physics, 2020, 19, 103690.	4.1	16
42	Si–C alloys with direct band gaps for photoelectric application. Vacuum, 2022, 199, 110952.	3.5	16
43	Two-Dimensional Tetrahex-GeC ₂ : A Material with Tunable Electronic and Optical Properties Combined with Ultrahigh Carrier Mobility. ACS Applied Materials & Interfaces, 2021, 13, 14489-14496.	8.0	15
44	A Novel Silicon Allotrope in the Monoclinic Phase. Materials, 2017, 10, 441.	2.9	14
45	Superhard three-dimensional carbon with one-dimensional conducting channels. New Journal of Chemistry, 2020, 44, 19789-19795.	2.8	14
46	Thermodynamic, elastic, elastic anisotropy and minimum thermal conductivity of β-GaN under high temperature. Chinese Journal of Physics, 2017, 55, 400-411.	3.9	13
47	Mechanical and electronic properties of Si Ge alloy in Cmmm structure. Chinese Journal of Physics, 2016, 54, 298-307.	3.9	12
48	Structural, Mechanical, Anisotropic, and Thermal Properties of AlAs in oC12 and hP6 Phases under Pressure. Materials, 2018, 11, 740.	2.9	12
49	Direct and quasi-direct band gap silicon allotropes with low energy and strong absorption in the visible for photovoltaic applications. Results in Physics, 2020, 18, 103271.	4.1	12
50	Elastic anisotropy and electronic properties of Si3N4 under pressures. AIP Advances, 2016, 6, .	1.3	11
51	Novel III-V Nitride Polymorphs in the P42/mnm and Pbca Phases. Materials, 2020, 13, 3743.	2.9	11
52	A New Phase of GaN. Journal of Chemistry, 2016, 2016, 1-9.	1.9	10
53	Group 14 semiconductor alloys in the P41212 phase: A comprehensive study. Results in Physics, 2021, 25, 104254.	4.1	10
54	Theoretical prediction of new C–Si alloys in \${oldsymbol{C}}2/{oldsymbol{m}}\$-20 structure. Chinese Physics B, 2017, 26, 046101.	1.4	9

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55	Electronic, Mechanical and Elastic Anisotropy Properties of X-Diamondyne (X = Si, Ge). Materials, 2019, 12, 3589.	2.9	9
56	Four Carbon Allotropes Form COT Structures. ACS Applied Electronic Materials, 2022, 4, 2353-2363.	4.3	9
57	Mechanical and electronic properties of C–Si alloys in the P222 1 structure. Chinese Journal of Physics, 2016, 54, 700-710.	3.9	8
58	Ima2 C32: An orthorhombic carbon allotrope with direct band gap. Diamond and Related Materials, 2021, 120, 108602.	3.9	8
59	Low-energy Ga ₂ O ₃ polymorphs with low electron effective masses. Physical Chemistry Chemical Physics, 2022, 24, 7045-7049.	2.8	8
60	Structural, Electronic, and Thermodynamic Properties of Tetragonal t-SixGe3â^'xN4. Materials, 2018, 11, 397.	2.9	7
61	Semimetallic 2D Alkynyl Carbon Materials with Distorted Type I Dirac Cones. Journal of Physical Chemistry C, 2021, 125, 18022-18030.	3.1	7
62	Effective mass anisotropy of Si-Ge alloys: a discussion of the effective mass tensor. Physica Scripta, 2020, 95, 115808.	2.5	7
63	Two novel large-cell boron nitride polymorphs. Diamond and Related Materials, 2022, 126, 109046.	3.9	7
64	Direct and quasi-direct band gap of novel Si-Ge alloys in P-3m1 phase. Journal of Physics Condensed Matter, 2021, 33, 385702.	1.8	6
65	Tower carbon: a new large-cell carbon allotrope. Journal of Physics Condensed Matter, 2022, 34, 365702.	1.8	5
66	3D superhard metallic carbon network with 1D multi-threaded conduction. Diamond and Related Materials, 2021, 120, 108706.	3.9	4
67	Three new C N compounds in orthorhombic symmetry: Theoretical investigations. Diamond and Related Materials, 2022, 127, 109181.	3.9	4
68	Three non-metallic carbon materials with comparable electrical conductivity to metals. Diamond and Related Materials, 2022, 128, 109230.	3.9	4
69	Structural, Electronic, and Optical Properties of Hexagonal XC 6 (X=N, P, As, and Sb) Monolayers. ChemPhysChem, 2021, 22, 1124-1133.	2.1	0