

Xihong Peng

List of Publications by Year in descending order

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32
papers

2,508
citations

516215

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454577

30
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all docs

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docs citations

32
times ranked

3390
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic properties of hydrogen/fluorine adsorbed two-dimensional C568: A first-principles study. <i>Surfaces and Interfaces</i> , 2022, 31, 102067.	1.5	1
2	A new 2D auxetic CN ₂ nanostructure with high energy density and mechanical strength. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4353-4364.	1.3	8
3	Structural Origin of Reversible Li Insertion in Guest-Free, Type-II Silicon Clathrates. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000114.	2.8	12
4	New stable two dimensional silicon carbide nanosheets. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159201.	2.8	8
5	New stable 2D and 3D GeC ₂ crystal structures predicted by first-principles study. <i>Materials Today Communications</i> , 2021, 28, 102567.	0.9	0
6	Structural and Electrochemical Properties of Type VIII Ba ₈ Ga ₁₆ Sn ₃₀ Clathrate (I ¹) during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42564-42578.	4.0	3
7	Role of Alkali Metal in BiVO ₄ Crystal Structure for Enhancing Charge Separation and Diffusion Length for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 52808-52818.	4.0	28
8	Electronic properties of fluorine/hydrogen adsorbed two-dimensional tetrahex-carbon: A first-principles study. <i>Applied Surface Science</i> , 2020, 529, 147150.	3.1	2
9	Systematic theoretical study of carbon nanotubes rolled from a two-dimensional tetrahex-carbon nanosheet. <i>Physical Review B</i> , 2020, 102, .	1.1	6
10	Tunable magnetism through edge functionalization in zigzag green phosphorene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126672.	0.9	0
11	Auxetic Tetrahex Carbon with Ultrahigh Strength and a Direct Band Gap. <i>Physical Review Applied</i> , 2020, 13, .	1.5	23
12	Quantum confinement and edge effects on electronic properties of zigzag green phosphorene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 175301.	0.7	3
13	Enhanced carrier mobility in anisotropic two-dimensional tetrahex-carbon through strain engineering. <i>Carbon</i> , 2020, 165, 37-44.	5.4	15
14	Six new silicon phases with direct band gaps. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 19963-19968.	1.3	16
15	Ab Initio Investigation of Li and Na Migration in Guest-Free, Type I Clathrates. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22812-22822.	1.5	11
16	Size and strain effects on mechanical and electronic properties of green phosphorene nanoribbons. <i>AIP Advances</i> , 2018, 8, .	0.6	4
17	Experimental and Computational Study of the Lithiation of Ba ₈ Al _y Ge ₄₆ -y Based Type I Germanium Clathrates. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37981-37993.	4.0	17
18	Superior mechanical flexibility and strained-engineered direct-indirect band gap transition of green phosphorene. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	25

#	ARTICLE	IF	CITATIONS
19	First-Principles Study of Lithiation of Type I Ba-Doped Silicon Clathrates. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28247-28257.	1.5	22
20	Chemical scissors cut phosphorene nanostructures. <i>Materials Research Express</i> , 2014, 1, 045041.	0.8	20
21	Electrochemical and Photoelectrochemical Properties of the Copper Hydroxyphosphate Mineral Libethenite. <i>ChemElectroChem</i> , 2014, 1, 663-672.	1.7	15
22	Edge effects on the electronic properties of phosphorene nanoribbons. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	157
23	Electrochemical Cycling of Sodium-Filled Silicon Clathrate. <i>ChemElectroChem</i> , 2014, 1, 347-353.	1.7	29
24	Strain-engineered direct-indirect band gap transition and its mechanism in two-dimensional phosphorene. <i>Physical Review B</i> , 2014, 90, .	1.1	797
25	Superior mechanical flexibility of phosphorene and few-layer black phosphorus. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	881
26	Origination of the direct-indirect band gap transition in strained wurtzite and zinc-blende GaAs nanowires: A first principles study. <i>Physical Review B</i> , 2013, 87, .	1.1	48
27	Engineering direct-indirect band gap transition in wurtzite GaAs nanowires through size and uniaxial strain. <i>Applied Physics Letters</i> , 2012, 100, 193108.	1.5	39
28	Engineering the work function of armchair graphene nanoribbons using strain and functional species: a first principles study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 075501.	0.7	61
29	Band structure of Si/Ge core-shell nanowires along the [110] direction modulated by external uniaxial strain. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 115502.	0.7	34
30	Strain modulated band gap of edge passivated armchair graphene nanoribbons. <i>Applied Physics Letters</i> , 2011, 98, 023112.	1.5	69
31	Electronic properties of strained Si/Ge core-shell nanowires. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	83
32	Strain-modulated electronic properties of Ge nanowires: A first-principles study. <i>Physical Review B</i> , 2009, 80, .	1.1	71