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List of Publications by Year in descending order

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papers

1,388
citations

471509

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docs citations

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times ranked

2174
citing authors

#	ARTICLE	IF	CITATIONS
1	van der Waals Heterostructure of Phosphorene and Graphene: Tuning the Schottky Barrier and Doping by Electrostatic Gating. <i>Physical Review Letters</i> , 2015, 114, 066803.	7.8	445
2	Nature and evolution of the band-edge states in MoS_2 . From monolayer to bulk. <i>Physical Review B</i> , 2014, 90, .	3.2	158
3	Metal Chalcogenides Janus Monolayers for Efficient Hydrogen Generation by Photocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2019, 2, 890-897.	5.0	93
4	Directional dependence of the electronic and transport properties of 2D borophene and borophane. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25491-25496.	2.8	92
5	Free-Standing Bilayer Silicene: The Effect of Stacking Order on the Structural, Electronic, and Transport Properties. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3818-3825.	3.1	73
6	Two-dimensional van der Waals $p-n$ junction of InSe/phosphorene. <i>Physical Review B</i> , 2017, 95, .	3.2	68
7	Quantum spin Hall effect on germanene nanorod embedded in completely hydrogenated germanene. <i>Physical Review B</i> , 2014, 89, .	3.2	57
8	Electronic and transport properties of structural defects in monolayer germanene: An ab initio investigation. <i>Solid State Communications</i> , 2016, 225, 38-43.	1.9	50
9	Layer-dependent band alignment of few layers of blue phosphorus and their van der Waals heterostructures with graphene. <i>Physical Review B</i> , 2018, 97, .	3.2	45
10	Energetics and stability of vacancies in carbon nanotubes. <i>Solid State Communications</i> , 2011, 151, 482-486.	1.9	42
11	Bilayer graphene dual-gate nanodevice: An ab initio simulation. <i>Physical Review B</i> , 2011, 84, .	3.2	36
12	Transport properties of single vacancies in nanotubes. <i>Physical Review B</i> , 2008, 77, .	3.2	35
13	Quantum spin Hall effect in a disordered hexagonal Si $\text{Ge}_x\text{Si}_{1-x}$ alloy. <i>Physical Review B</i> , 2013, 88, .	3.2	24
14	Bilayer graphene on h-BN substrate: investigating the breakdown voltage and tuning the bandgap by electric field. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 075301.	1.8	22
15	Directional Control of the Electronic and Transport Properties of Graphynes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18793-18798.	3.1	18
16	Fully and partially iodinated germanane as a platform for the observation of the quantum spin Hall effect. <i>Physical Review B</i> , 2016, 93, .	3.2	18
17	I \times V curves of boron and nitrogen doping zigzag graphene nanoribbons. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 1379-1386.	2.0	17
18	A new class of large band gap quantum spin hall insulators: 2D fluorinated group-IV binary compounds. <i>Scientific Reports</i> , 2016, 6, 26123.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Microscopic Description of the Ferroism in Lead-Free AlFeO ₃ . Scientific Reports, 2018, 8, 6420.	3.3	17
20	Electronic and optical properties of hydrogenated group-IV multilayer materials. Physical Chemistry Chemical Physics, 2018, 20, 8112-8118.	2.8	12
21	Graphene nanoribbon intercalated with hexagonal boron nitride: Electronic transport properties from ab initio calculations. Solid State Communications, 2013, 173, 24-29.	1.9	10
22	Topological phase transitions of (Bi _x Sb _{1-x}) ₂ Se ₃ alloys by density functional theory. Journal of Physics Condensed Matter, 2015, 27, 255501.	1.8	10
23	Stacking-dependent transport properties in few-layers graphene. Solid State Communications, 2017, 250, 70-74.	1.9	10
24	Tunable magnetism and spin-polarized electronic transport in graphene mediated by molecular functionalization of extended defects. Physical Review B, 2018, 97, .	3.2	9
25	Structural evolution and the role of native defects in subnanometer MoS nanowires. Physical Review B, 2019, 100, .	3.2	7
26	Green synthesis of templated carbon porous materials from simple raw materials. Materials Advances, 2021, 2, 403-412.	5.4	7
27	Interatomic potential for atomistic simulation of self-catalyzed GaAs nanowires growth. Computational Materials Science, 2020, 183, 109805.	3.0	5
28	Substrate-supported large-band-gap quantum spin Hall insulator based on III-V bismuth layers. Physical Review B, 2016, 94, .	3.2	4
29	Structural Transition in Oxidized Ca ₂ N Electrenes: CaO/CaN 2D Heterostructures. Journal of Physical Chemistry C, 2020, 124, 14706-14712.	3.1	4
30	Electron density distribution and electronic structure as tools to study the origin of ferroic states in ferroelectric and magnetic materials. Ferroelectrics, 2016, 500, 26-36.	0.6	2
31	Oxidation of two-dimensional electrides: Structural transition and the formation of half-metallic channels protected by oxide layers. Physical Review B, 2022, 105, .	3.2	1
32	Nanodots of transition metal dichalcogenides embedded in MoS ₂ and MoSe ₂ : first-principles calculations. Physical Chemistry Chemical Physics, 2017, 19, 26240-26247.	2.8	0