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List of Publications by Year in descending order

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32
papers

1,388
citations

471509

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454955

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32
docs citations

32
times ranked

2174
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidation of two-dimensional electrides: Structural transition and the formation of half-metallic channels protected by oxide layers. <i>Physical Review B</i> , 2022, 105, .	3.2	1
2	Green synthesis of templated carbon porous materials from simple raw materials. <i>Materials Advances</i> , 2021, 2, 403-412.	5.4	7
3	Structural Transition in Oxidized Ca ₂ N Electrenes: CaO/CaN 2D Heterostructures. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14706-14712.	3.1	4
4	Interatomic potential for atomistic simulation of self-catalyzed GaAs nanowires growth. <i>Computational Materials Science</i> , 2020, 183, 109805.	3.0	5
5	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
6	Structural evolution and the role of native defects in subnanometer MoS nanowires. <i>Physical Review B</i> , 2019, 100, .	3.2	7
7	Electronic and optical properties of hydrogenated group-IV multilayer materials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8112-8118.	2.8	12
8	Tunable magnetism and spin-polarized electronic transport in graphene mediated by molecular functionalization of extended defects. <i>Physical Review B</i> , 2018, 97, .	3.2	9
9	Microscopic Description of the Ferroism in Lead-Free AlFeO ₃ . <i>Scientific Reports</i> , 2018, 8, 6420.	3.3	17
10	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
11	Stacking-dependent transport properties in few-layers graphene. <i>Solid State Communications</i> , 2017, 250, 70-74.	1.9	10
12	Nanodots of transition metal dichalcogenides embedded in MoS ₂ and MoSe ₂ : first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 26240-26247.	2.8	0
13	Two-dimensional van der Waals <i>p-n</i> junction of InSe/phosphorene. <i>Physical Review B</i> , 2017, 95, .	3.2	68
14	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
15	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
16	Electron density distribution and electronic structure as tools to study the origin of ferroic states in ferroelectric and magnetic materials. <i>Ferroelectrics</i> , 2016, 500, 26-36.	0.6	2
17	Substrate-supported large-band-gap quantum spin Hall insulator based on III-V bismuth layers. <i>Physical Review B</i> , 2016, 94, .	3.2	4
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	Electronic and transport properties of structural defects in monolayer germanene: An ab initio investigation. Solid State Communications, 2016, 225, 38-43.	1.9	50
20	Topological phase transitions of $(\text{Bi}_x\text{Sb}_{1-x})_2\text{Se}_3$ alloys by density functional theory. Journal of Physics Condensed Matter, 2015, 27, 255501.	1.8	10
21	van der Waals Heterostructure of Phosphorene and Graphene: Tuning the Schottky Barrier and Doping by Electrostatic Gating. Physical Review Letters, 2015, 114, 066803.	7.8	445
22	Free-Standing Bilayer Silicene: The Effect of Stacking Order on the Structural, Electronic, and Transport Properties. Journal of Physical Chemistry C, 2015, 119, 3818-3825.	3.1	73
23	Nature and evolution of the band-edge states in MoS_2 . From monolayer to bulk. Physical Review B, 2014, 90, .	3.2	24
24	Directional Control of the Electronic and Transport Properties of Graphynes. Journal of Physical Chemistry C, 2014, 118, 18793-18798.	3.1	18
25	Quantum spin Hall effect on germanene nanorod embedded in completely hydrogenated germanene. Physical Review B, 2014, 89, .	3.2	57
26	Graphene nanoribbon intercalated with hexagonal boron nitride: Electronic transport properties from ab initio calculations. Solid State Communications, 2013, 173, 24-29.	1.9	10
27	Quantum spin Hall effect in a disordered hexagonal Si. Ge_x alloy. Physical Review B, 2013, 88, .	3.2	24
28	Bilayer graphene on h-BN substrate: investigating the breakdown voltage and tuning the bandgap by electric field. Journal of Physics Condensed Matter, 2012, 24, 075301.	1.8	22
29	Bilayer graphene dual-gate nanodevice: An ab initio simulation. Physical Review B, 2011, 84, .	3.2	36
30	I-V curves of boron and nitrogen doping zigzag graphene nanoribbons. International Journal of Quantum Chemistry, 2011, 111, 1379-1386.	2.0	17
31	Energetics and stability of vacancies in carbon nanotubes. Solid State Communications, 2011, 151, 482-486.	1.9	42
32	Transport properties of single vacancies in nanotubes. Physical Review B, 2008, 77, .	3.2	35