Wei-Yang Yu

List of Publications by Year
in descending order

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45 papers	1,305 citations	567281 15 h-index	345221 36 g-index
45 all docs	45 docs citations	45 times ranked	1357 citing authors

#	Article	IF	Citations
1	Strain and electric field dependent spin polarization in two-dimensional arsenene/CrI3 heterostructure. Journal of Alloys and Compounds, 2022, 912, 165093.	5.5	1
2	A two-dimensional MoSe₂/MoSi₂N₄ van der Waals heterostructure with high carrier mobility and diversified regulation of its electronic properties. Journal of Materials Chemistry C, 2021, 9, 10073-10083.	5.5	32
3	Ferromagnetic half-metal properties of two dimensional vertical tellurene/VS2 heterostructure: A first-principles study. Computational Materials Science, 2020, 171, 109215.	3.0	11
4	Investigation of ferromagnetism in (Mn, Ga) co-doped LiNbO3 by density functional theory. Journal of Magnetism and Magnetic Materials, 2020, 500, 166380.	2.3	10
5	Electronic structures and magnetic properties of Co-, Mn-doped and (Co, Mn) co-doped 4Hâ€“SiC: A first-principles study. Vacuum, 2020, 172, 109091.	3.5	9
6	Rotated angular modulated electronic and optical properties of bilayer phosphorene: A first-principles study. Applied Physics Letters, 2020, 117, .	3.3	10
7	Electronic structures and strain responses of group VA/VA two-dimensional van der waals heterostructures. Vacuum, 2020, 176, 109296.	3.5	12
8	First-principles study of magnetism of 3d transition metals and nitrogen co-doped monolayer MoS₂*. Chinese Physics B, 2020, 29, 097102.	1.4	6
9	First-principles investigations of the effect of V and Fe dopants on the magnetic and optical properties of 4H-SiC. Thin Solid Films, 2020, 709, 138182.	1.8	7
10	Enhanced carrier mobility and tunable electronic properties in Î±-tellurene monolayer via an Î±-tellurene and h-BN heterostructure. Physical Chemistry Chemical Physics, 2020, 22, 6434-6440.	2.8	13
11	Spin Hall effect induced NÃ©el order switching in the tetragonal Mn₂Au. Journal Physics D: Applied Physics, 2020, 53, 245001.	2.8	3
12	Molecular adsorption properties of CH4 with noble metals doped onto oxygen vacancy defect of anatase TiO2 (1Â0Â1) surface: First-principles calculations. Applied Surface Science, 2020, 514, 145900.	6.1	47
13	Tunable strain effects on the electronic structures and mobility properties of InP/InAs lateral heterostructure. Journal Physics D: Applied Physics, 2020, 53, 505108.	2.8	2
14	Electronic structures and magnetic properties of (Cr, Fe) co-doped 3C-SiC. Materials Research Express, 2019, 6, 106115.	1.6	3
15	Density functional study on electronic structures and magnetic properties in (Cr, N) co-doped anatase TiO₂. Materials Research Express, 2019, 6, 116332.	1.6	1
16	Electronic and hyperbolic dielectric properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Zr</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>/</mml:mo><mml:mi>Hf</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> heterostructures. Physical Review B, 2019, 100, .	3.2	12
17	Electronic structures and magnetic properties of S vacancy and Mn doped monolayer MoS2: A first-principle study. Solid State Communications, 2019, 301, 113702.	1.9	12
18	A class of two-dimensional SiAs monolayers with novel electronic and optical properties from ab initio investigations. European Physical Journal Plus, 2019, 134, 1.	2.6	8

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19	Electronic structures and ferromagnetism in (Fe, Cr)-codoped 4Hâ€“SiC from first-principles investigations. Vacuum, 2019, 167, 59-63.	3.5	12
20	Investigation on Electronic Structures and Magnetic Properties of (Mn, Ga) Co-doped SnO2. Journal of Superconductivity and Novel Magnetism, 2019, 32, 3601-3607.	1.8	4
21	First principles study of the electronic and magnetic properties of (Co,Ga) co-doped LiNbO3. Journal of Applied Physics, 2019, 125, .	2.5	4
22	Subwavelength interference nanolithography based on metallicâ€“insulatorâ€“metallic waveguide with a trapezoid metallic nanoslit coupler. Journal of Nanophotonics, 2019, 13, 1.	1.0	1
23	Metal-nonmetal oscillations in doped blue phosphorene: a first-principles study. Materials Research Express, 2018, 5, 055007.	1.6	6
24	Blue Phosphorus/Mg(OH)₂ van der Waals Heterostructures as Promising Visible-Light Photocatalysts for Water Splitting. Journal of Physical Chemistry C, 2018, 122, 7075-7080.	3.1	115
25	Electronic structures and enhanced photocatalytic properties of blue phosphorene/BSe van der Waals heterostructures. Journal of Materials Chemistry A, 2018, 6, 8923-8929.	10.3	197
26	Strain Tunable Bandgap and High Carrier Mobility in SiAs and SiAs2 Monolayers from First-Principles Studies. Nanoscale Research Letters, 2018, 13, 404.	5.7	17
27	Strain-Tunable Electronic Properties and Band Alignments in GaTe/C2N Heterostructure: a First-Principles Calculation. Nanoscale Research Letters, 2018, 13, 300.	5.7	31
28	Stable GaSe-Like Phosphorus Carbide Monolayer with Tunable Electronic and Optical Properties from Ab Initio Calculations. Materials, 2018, 11, 1937.	2.9	13
29	Electronic structures and magnetic properties of (Ni,Al) co-doped 4H-SiC: A first-principles study. Computational Materials Science, 2018, 155, 169-174.	3.0	16
30	Midinfrared one-dimensional photonic crystal constructed from two-dimensional electride material. Physical Review B, 2018, 98, .	3.2	10
31	Magnetic engineering in 3d transition metals on phosphorene by strain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1236-1240.	2.1	16
32	Strain induced quantum spin Hall insulator in monolayer Î²-BiSb from first-principles study. RSC Advances, 2017, 7, 27816-27822.	3.6	26
33	Negative thermal expansion in 2H CuScO₂ originating from the cooperation of transverse thermal vibrations of Cu and O atoms. Physical Chemistry Chemical Physics, 2017, 19, 2067-2072.	2.8	11
34	Arsenene/Ca(OH)₂ van der Waals heterostructure: strain tunable electronic and photocatalytic properties. RSC Advances, 2017, 7, 44394-44400.	3.6	36
35	Electronic, magnetic properties of transition metal doped Tl 2 S: First-principles study. Applied Surface Science, 2017, 425, 393-399.	6.1	9
36	Tunable electronic properties of GeSe/phosphorene heterostructure from first-principles study. Applied Physics Letters, 2016, 109, .	3.3	87

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37	Atomically thin binary Vâ€“V compound semiconductor: a first-principles study. Journal of Materials Chemistry C, 2016, 4, 6581-6587.	5.5	126
38	Dilute Magnetic Semiconductor and Half-Metal Behaviors in 3d Transition-Metal Doped Black and Blue Phosphorenes: A First-Principles Study. Nanoscale Research Letters, 2016, 11, 77.	5.7	99
39	Electronic and magnetic properties of SnSe monolayers doped by Ga, In, As, and Sb: a first-principles study. Physical Chemistry Chemical Physics, 2016, 18, 8158-8164.	2.8	42
40	Molecular dynamics simulation studies on the plastic behaviors of an iron nanowire under torsion. RSC Advances, 2016, 6, 28792-28800.	3.6	9
41	Anomalous doping effect in black phosphorene using first-principles calculations. Physical Chemistry Chemical Physics, 2015, 17, 16351-16358.	2.8	109
42	Grain boundary in phosphorene and its unique roles on C and O doping. Europhysics Letters, 2015, 109, 47003.	2.0	12
43	Magnetism of zigzag edge phosphorene nanoribbons. Applied Physics Letters, 2014, 105, .	3.3	97
44	Eï¬€ects of dïï¬€erent edge contacts on the photocatalytic and optical properties of blue phosphorene/arsenene lateral heterostructures. Semiconductor Science and Technology, 0, , .	2.0	0
45	Magnetism of zigzag edge phosphorene nanoribbons. , 0, .		1