

Pei-Ji Wang

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106
papers

2,127
citations

25
h-index

42
g-index

110
ext. papers

2,431
ext. citations

4
avg, IF

5.13
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 106 | Ethynyl-functionalized stanene film: a promising candidate as large-gap quantum spin Hall insulator. <i>New Journal of Physics</i> , 2015 , 17, 083036 | 2.9 | 139 |
| 105 | Unexpected Giant-Gap Quantum Spin Hall Insulator in Chemically Decorated Plumbene Monolayer. <i>Scientific Reports</i> , 2016 , 6, 20152 | 4.9 | 131 |
| 104 | Intrinsic Dirac half-metal and quantum anomalous Hall phase in a hexagonal metal-oxide lattice. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 112 |
| 103 | Two-dimensional arsenene oxide: A realistic large-gap quantum spin Hall insulator. <i>Applied Physics Letters</i> , 2017 , 110, 213101 | 3.4 | 100 |
| 102 | Large-gap quantum spin Hall state in functionalized dumbbell stanene. <i>Applied Physics Letters</i> , 2016 , 108, 073104 | 3.4 | 77 |
| 101 | Prediction of high-temperature Chern insulator with half-metallic edge states in asymmetry-functionalized stanene. <i>Nanoscale</i> , 2018 , 10, 20226-20233 | 7.7 | 74 |
| 100 | Controllable band structure and topological phase transition in two-dimensional hydrogenated arsenene. <i>Scientific Reports</i> , 2016 , 6, 20342 | 4.9 | 72 |
| 99 | New family of room temperature quantum spin Hall insulators in two-dimensional germanene films. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2088-2094 | 7.1 | 66 |
| 98 | Silicon-based chalcogenide: Unexpected quantum spin Hall insulator with sizable band gap. <i>Applied Physics Letters</i> , 2016 , 109, 182109 | 3.4 | 62 |
| 97 | Tunable electronic and magnetic properties in germanene by alkali, alkaline-earth, group III and 3d transition metal atom adsorption. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15968-78 | 3.6 | 56 |
| 96 | Silicane as an Inert Substrate of Silicene: A Promising Candidate for FET. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25278-25283 | 3.8 | 55 |
| 95 | Discovery of intrinsic quantum anomalous Hall effect in organic Mn-DCA lattice. <i>Applied Physics Letters</i> , 2017 , 110, 233107 | 3.4 | 52 |
| 94 | Tunable quantum spin Hall effect via strain in two-dimensional arsenene monolayer. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 055305 | 3 | 52 |
| 93 | Room Temperature Quantum Spin Hall Insulator in Ethynyl-Derivative Functionalized Stanene Films. <i>Scientific Reports</i> , 2016 , 6, 18879 | 4.9 | 48 |
| 92 | Discovery of a novel spin-polarized nodal ring in a two-dimensional HK lattice. <i>Nanoscale</i> , 2018 , 10, 20748-20753 | 4.7 | 37 |
| 91 | High-temperature Dirac half-metal PdCl ₃ : a promising candidate for realizing quantum anomalous Hall effect. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10284-10291 | 7.1 | 37 |
| 90 | Novel half-metal and spin gapless semiconductor properties in N-doped silicene nanoribbons. <i>Journal of Applied Physics</i> , 2013 , 113, 154302 | 2.5 | 36 |

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| 89 | Stanene: A Promising Material for New Electronic and Spintronic Applications. <i>Annalen Der Physik</i> , 2019 , 531, 1900017 | 2.6 | 32 |
| 88 | The electronic structure and optical properties of Mn and B, C, N co-doped MoS2 monolayers. <i>Nanoscale Research Letters</i> , 2014 , 9, 554 | 5 | 32 |
| 87 | NaC monolayer: a novel 2p Dirac half-metal with multiple symmetry-protected Dirac cones. <i>Nanoscale</i> , 2018 , 10, 13645-13651 | 7.7 | 29 |
| 86 | The electronic properties of the stanene/MoS2 heterostructure under strain. <i>RSC Advances</i> , 2017 , 7, 9176-9181 | 3.7 | 28 |
| 85 | Enhanced band gap opening in germanene by organic molecule adsorption. <i>Materials Chemistry and Physics</i> , 2016 , 173, 379-384 | 4.4 | 28 |
| 84 | A planar C3Ca2 film: a novel 2p Dirac half metal. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8504-8508 | 7.1 | 28 |
| 83 | First-principles study on the electronic and magnetic properties of hydrogenated CdS nanosheets. <i>Journal of Applied Physics</i> , 2011 , 109, 094304 | 2.5 | 26 |
| 82 | Functionalized Thallium Antimony Films as Excellent Candidates for Large-Gap Quantum Spin Hall Insulator. <i>Scientific Reports</i> , 2016 , 6, 21351 | 4.9 | 25 |
| 81 | First-principles study of small PdAu alloy clusters on graphene. <i>RSC Advances</i> , 2014 , 4, 55781-55789 | 3.7 | 25 |
| 80 | Tuning the electronic and magnetic properties of carbon-doped ZnO nanosheets: First-principles prediction. <i>Journal of Applied Physics</i> , 2012 , 111, 044329 | 2.5 | 24 |
| 79 | The magnetic and optical properties of 3d transition metal doped SnO2 nanosheets. <i>RSC Advances</i> , 2015 , 5, 24306-24312 | 3.7 | 22 |
| 78 | Robust Room-Temperature Quantum Spin Hall Effect in Methyl-functionalized InBi honeycomb film. <i>Scientific Reports</i> , 2016 , 6, 23242 | 4.9 | 22 |
| 77 | Intrinsic ferromagnetism with high temperature, strong anisotropy and controllable magnetization in the CrX (X = P, As) monolayer. <i>Nanoscale</i> , 2020 , 12, 5464-5470 | 7.7 | 21 |
| 76 | First-principle study on the electronic and optical properties of Mn-doped SnO2. <i>Physica B: Condensed Matter</i> , 2011 , 406, 3137-3141 | 2.8 | 20 |
| 75 | Robust room-temperature inversion-asymmetry topological transitions in functionalized HgSe monolayer. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2243-2251 | 7.1 | 20 |
| 74 | Tunable electronic properties in the van der Waals heterostructure of germanene/germanane. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 12194-8 | 3.6 | 18 |
| 73 | First-principles study of hydrogen storage on Li-decorated silicene. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1 | 2.3 | 18 |
| 72 | First-principles study on ferromagnetism in W-doped graphene. <i>RSC Advances</i> , 2013 , 3, 26261 | 3.7 | 18 |

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| 71 | First-principles study of AlN nanosheets with chlorination. <i>RSC Advances</i> , 2014 , 4, 7500 | 3.7 | 17 |
| 70 | Tunable electronic and magnetic properties in stanene by 3d transition metal atoms absorption. <i>Superlattices and Microstructures</i> , 2017 , 103, 139-144 | 2.8 | 17 |
| 69 | First-principles prediction of a giant-gap quantum spin Hall insulator in Pb thin film. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31862-31868 | 3.6 | 16 |
| 68 | Design of ferromagnetism in Co-doped SnO ₂ nanosheets: a first-principles study. <i>RSC Advances</i> , 2014 , 4, 9602 | 3.7 | 16 |
| 67 | Electronic structure and optical properties of Bi,N co-doped SnO ₂ . <i>Journal of Materials Science</i> , 2015 , 50, 6993-6999 | 4.3 | 15 |
| 66 | Discovery of multiferroics with tunable magnetism in two-dimensional lead oxide. <i>Applied Physics Letters</i> , 2020 , 116, 172105 | 3.4 | 15 |
| 65 | Glide Mirror Plane Protected Nodal-Loop in an Anisotropic Half-Metallic MnNF Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 485-491 | 6.4 | 15 |
| 64 | Prediction of flatness-driven quantum spin Hall effect in functionalized germanene and stanene. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 28134-28139 | 3.6 | 15 |
| 63 | Prediction of tunable quantum spin Hall effect in methyl-functionalized tin film. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2656-2661 | 7.1 | 14 |
| 62 | Two-dimensional honeycomb-kagome TaS: a promising single-spin Dirac fermion and quantum anomalous hall insulator with half-metallic edge states. <i>Nanoscale</i> , 2019 , 11, 5666-5673 | 7.7 | 14 |
| 61 | Giant gap quantum spin Hall effect and valley-polarized quantum anomalous Hall effect in cyanided bismuth bilayers. <i>New Journal of Physics</i> , 2016 , 18, 083002 | 2.9 | 14 |
| 60 | Emergence of a spin-valley Dirac semimetal in a strained group-VA monolayer. <i>Nanoscale</i> , 2020 , 12, 3950-3957 | 7.3 | 13 |
| 59 | Tunable Electronic and Topological Properties of Germanene by Functional Group Modification. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 13 |
| 58 | Two-dimensional GaGeTe film: a promising graphene-like material with tunable band structure and high carrier mobility. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8847-8853 | 7.1 | 13 |
| 57 | Electronic structures and optical properties of TM (Cr, Mn, Fe or Co) atom doped ZnSe nanosheets. <i>RSC Advances</i> , 2015 , 5, 106227-106233 | 3.7 | 13 |
| 56 | Discovery of a new quantum spin Hall phase in bilayer plumbene. <i>Chemical Physics Letters</i> , 2018 , 712, 78-82 | 2.5 | 13 |
| 55 | Two-Dimensional Large Gap Topological Insulators with Tunable Rashba Spin-Orbit Coupling in Group-IV films. <i>Scientific Reports</i> , 2017 , 7, 45923 | 4.9 | 12 |
| 54 | The effects of biaxial strain and electric field on the electronic properties in stanene. <i>Materials Research Express</i> , 2016 , 3, 105008 | 1.7 | 12 |

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| 53 | Stanene cyanide: a novel candidate of Quantum Spin Hall insulator at high temperature. <i>Scientific Reports</i> , 2015 , 5, 18604 | 4.9 | 12 |
| 52 | Electronic structures and optical properties for Ag-N-codoped ZnO nanotubes. <i>Nanoscale Research Letters</i> , 2013 , 8, 365 | 5 | 11 |
| 51 | Electronic Structure and Energy Band of IIIA Doped Group ZnO Nanosheets. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-6 | 3.2 | 11 |
| 50 | The electronic and optical properties of indium doped zinc oxide nanosheets. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013 , 54, 144-148 | 3 | 10 |
| 49 | Electronic structure and optical properties of Ag-doped SnO ₂ nanoribbons. <i>RSC Advances</i> , 2014 , 4, 41819-41824 | 3.7 | 10 |
| 48 | Controllable electronic and magnetic properties in a two-dimensional germanene heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12169-74 | 3.6 | 10 |
| 47 | Quantum spin Hall insulator BiXH (XH = OH, SH) monolayers with a large bulk band gap. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13632-13636 | 3.6 | 9 |
| 46 | A novel optical property induced by MO, S vacancy and V-doped in monolayer MoS ₂ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 73, 83-88 | 3 | 9 |
| 45 | Low-energy electronic properties of a Weyl semimetal quantum dot. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1 | 3.6 | 9 |
| 44 | Two-Dimensional Honeycomb B ₂ Se with Orthogonal Lattice: High Stability and Strong Anisotropic Dirac Cone. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7558-7565 | 3.8 | 8 |
| 43 | A two-dimensional robust topological insulator with coexisting ferroelectric and valley polarization. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9406-9412 | 7.1 | 8 |
| 42 | Prediction of half-metallic ferromagnetism in C-doped CdS nanowire. <i>RSC Advances</i> , 2014 , 4, 24399 | 3.7 | 8 |
| 41 | Quantum spin Hall phase transitions in two-dimensional SbBi alloy films. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2649-2655 | 7.1 | 7 |
| 40 | A new topological crystalline insulator in two-dimensional PbPo with tunable large bulk gaps. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8745-8749 | 7.1 | 7 |
| 39 | First-principles prediction of inversion-asymmetric topological insulator in hexagonal BiPbH monolayer. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 8750-8757 | 7.1 | 7 |
| 38 | Prediction of topological crystalline insulators and topological phase transitions in two-dimensional PbTe films. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29647-29652 | 3.6 | 6 |
| 37 | Electric structure and optical properties of ReS ₂ nanomaterials. <i>Superlattices and Microstructures</i> , 2018 , 122, 262-267 | 2.8 | 6 |
| 36 | Nontrivial topology and topological phase transition in two-dimensional monolayer Tl. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24790-24795 | 3.6 | 6 |

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| 35 | Electronic Structural and Optical Properties of Multilayer Blue Phosphorus: A First-Principle Study. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-8 | 3.2 | 5 |
| 34 | First-principles prediction of graphene/SnO ₂ heterostructure as a promising candidate for FET. <i>RSC Advances</i> , 2015 , 5, 35377-35383 | 3.7 | 5 |
| 33 | Germanene/GaGeTe heterostructure: a promising electric-field induced data storage device with high carrier mobility. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5163-5169 | 3.6 | 5 |
| 32 | Strain-Tuned Topological Insulator and Rashba-Induced Anisotropic Momentum-Locked Dirac Cones in Two-Dimensional SeTe Monolayers. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43962-43969 | 3.5 | 5 |
| 31 | Two-dimensional Weyl semi-half-metallic NiCS with a band structure controllable by the direction of magnetization. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12068-12074 | 3.6 | 5 |
| 30 | Discovery of a ferroelastic topological insulator in a two-dimensional tetragonal lattice. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5165-5169 | 3.6 | 4 |
| 29 | Two-dimensional ligand-functionalized plumbene: A promising candidate for ferroelectric and topological order with a large bulk band gap. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 120, 114095 | 3 | 4 |
| 28 | The Electronic Structure and Optical Properties of Ag-Doped SnO ₂ Monolayer. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 064701 | 1.5 | 4 |
| 27 | Strain-Induced Quantum Spin Hall Effect in Two-Dimensional Methyl-Functionalized Silicene SiCH ₃ . <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 4 |
| 26 | Films based on group IV/VI elements for the design of a large-gap quantum spin Hall insulator with tunable Rashba splitting. <i>RSC Advances</i> , 2017 , 7, 11636-11643 | 3.7 | 3 |
| 25 | SnP Monolayers: a New Type of Two-Dimensional Materials with High Stability, Carrier Mobility, and Magnetic Properties. <i>Nanoscale Research Letters</i> , 2020 , 15, 155 | 5 | 3 |
| 24 | The electric-field and strain inducing electronic and optical properties of the blue phosphorene/ZnO heterostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 115, 113650 | 3 | 3 |
| 23 | Half-Dirac semimetals and the quantum anomalous Hall effect in Kagome Cd ₂ N ₃ lattices. <i>Nanoscale Advances</i> , 2021 , 3, 847-854 | 5.1 | 3 |
| 22 | Prediction of topological property in TlPBr monolayer with appreciable Rashba effect. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 4308-4316 | 3.6 | 2 |
| 21 | Hydrogenated group-IV binary monolayers: a new family of inversion-asymmetric topological insulators. <i>RSC Advances</i> , 2016 , 6, 79452-79458 | 3.7 | 2 |
| 20 | Novel optical properties of MoS ₂ on monolayer zinc tellurium substrate. <i>Journal of Materials Science</i> , 2016 , 51, 4580-4587 | 4.3 | 2 |
| 19 | Strain-Mediated Stability of Structures and Electronic Properties of ReS ₂ , Janus ReSSe, and ReSe ₂ Monolayers. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-8 | 3.2 | 2 |
| 18 | 2D ternary nitrides XNY (X=Ti, Zr, Hf; YF, Cl, Br) with applications as photoelectric and photocatalytic materials featuring mechanical and optical anisotropy: A DFT study. <i>Journal of Solid State Chemistry</i> , 2021 , 303, 122517 | 3.3 | 2 |

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| 17 | The biaxial strain induced properties of ReX ₂ and ReXS (X = S, Se, Te) monolayers. <i>Materials Research Express</i> , 2020 , 7, 055018 | 1.7 | 1 |
| 16 | Discovery of asymmetric NaXBi (X= Sn /Pb) monolayers with non-trivial topological properties.. <i>RSC Advances</i> , 2018 , 8, 27995-28001 | 3.7 | 1 |
| 15 | The Electronic Structures and Optical Properties of Electron Tuned Fe-Doped SnO ₂ Materials. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-6 | 3.2 | 1 |
| 14 | First-Principles Prediction on Long-Range Ferromagnetism Induced by Vacancies in SnO ₂ Nanosheet. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 104601 | 1.5 | 1 |
| 13 | Influence of Oxygen Vacancy on Electronic and Magnetic Properties in Cr Doped SnO ₂ Superlattice. <i>Journal of the Physical Society of Japan</i> , 2011 , 80, 124709 | 1.5 | 1 |
| 12 | Strain-Tuned Nodal Ring in Two-Dimensional Zn ₃ C ₆ S ₆ Monolayers. <i>Journal of Nanomaterials</i> , 2020 , 2020, 1-6 | 3.2 | 1 |
| 11 | Novel two-dimensional KAB (A = Cu, Au, B = S, Se) photoelectric materials with Prominent carrier mobility and optical properties. <i>Superlattices and Microstructures</i> , 2021 , 149, 106773 | 2.8 | 1 |
| 10 | Novel 2D Germanene Dioxide Monolayers: Mechanical Properties, Hole-Mobility Values, and Carrier Mobility. <i>Annalen Der Physik</i> , 2018 , 530, 1800214 | 2.6 | 1 |
| 9 | Tuning the electronic and optical properties of two-dimensional AgBiP ₂ Se ₆ and AgInP ₂ Se ₆ Janus monolayers. <i>Chemical Physics Letters</i> , 2021 , 780, 138933 | 2.5 | 1 |
| 8 | Novel graphene-like two-dimensional bilayer germanene dioxide: electronic structure and optical properties.. <i>RSC Advances</i> , 2019 , 9, 9633-9639 | 3.7 | 0 |
| 7 | IZrP: Two-dimensional narrow band gap semiconductor with high Stability, anisotropic electronic properties and high carrier mobility. <i>Computational and Theoretical Chemistry</i> , 2021 , 1205, 113458 | 2 | 0 |
| 6 | Intrinsic direct bandgap semiconductor with high stability, strong anisotropy and controllable edge position in BrHfN monolayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022 , 135, 114971 ³ | | 0 |
| 5 | NbCX (X=F, Cl, Br, I) with Highly Anisotropic Fermi Velocity, Optical, Mechanical and Electric Transport Properties. <i>Chemical Physics</i> , 2022 , 111551 | 2.3 | 0 |
| 4 | Thermoelectric Efficiency Enhanced by Fano Interference in a Quantum Anomalous Hall Insulator Quantum Dot. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800629 | 1.3 | |
| 3 | Tunable SnO ₂ Nanoribbon by Electric Fields and Hydrogen Passivation. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-12 | 3.2 | |
| 2 | Prediction of nodal-line semimetals in 2D ScX (X = P, As) with high stability and considerable fermi velocities. <i>Chemical Physics</i> , 2022 , 552, 111375 | 2.3 | |
| 1 | CuP: A new type of anisotropic and very stable Dirac cone material. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 129, 114637 | 3 | |