# Cong Wang

List of Publications by Year
in descending order

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| 63 | 9,876 | 147566 31 | 118652 62 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 63 | 63 | 63 | 12244 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | High-mobility transport anisotropy and linear dichroism in few-layer black phosphorus. Nature Communications, 2014, 5, 4475. | 5.8 | 3,568 |
| 2 | Exploring atomic defects in molybdenum disulphide monolayers. Nature Communications, 2015, 6, 6293. | 5.8 | 1,124 |
| 3 | Highâ€Electronâ€Mobility and Airâ€Stable 2D Layered PtSe<sub>2</sub> FETs. Advanced Materials, 2017, 29, 1604230. | 11.1 | 502 |
| 4 | Interaction of Black Phosphorus with Oxygen and Water. Chemistry of Materials, 2016, 28, 8330-8339. | 3.2 | 436 |
| 5 | Extraordinarily Strong Interlayer Interaction in 2D Layered PtS<sub>2</sub>. Advanced Materials, 2016, 28, 2399-2407. | 11.1 | 415 |
| 6 | Universal mechanical exfoliation of large-area 2D crystals. Nature Communications, 2020, 11, 2453. | 5.8 | 394 |
| 7 | Real-Space Identification of Intermolecular Bonding with Atomic Force Microscopy. Science, 2013, 342, 611-614. | 6.0 | 365 |
| 8 | Stacking tunable interlayer magnetism in bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn></mml:msub></mml: Physical Review B, 2019, 99, . | 1.1 | 287 |
| 9 | Optical Anisotropy of Black Phosphorus in the Visible Regime. Journal of the American Chemical Society, 2016, 138, 300-305. | 6.6 | 273 |
| 10 | Few-layer Tellurium: one-dimensional-like layered elementary semiconductor with striking physical properties. Science Bulletin, 2018, 63, 159-168. | 4.3 | 207 |
| 11 | Van der Waals epitaxial growth of air-stable CrSe2 nanosheets with thickness-tunable magnetic order. Nature Materials, 2021, 20, 818-825. | 13.3 | 206 |
| 12 | Defect Structure of Localized Excitons in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></ Monolayer. Physical Review Letters, 2017, 119, 046101. | 2.9 | 170 |
| 13 | Interlayer electronic hybridization leads to exceptional thickness-dependent vibrational properties in few-layer black phosphorus. Nanoscale, 2016, 8, 2740-2750. | 2.8 | 153 |
| 14 | Interface Coupling in Twisted Multilayer Graphene by Resonant Raman Spectroscopy of Layer Breathing Modes. ACS Nano, 2015, 9, 7440-7449. | 7.3 | 127 |
| 15 | Polytypism and unexpected strong interlayer coupling in two-dimensional layered ReS<sub>2</sub>. Nanoscale, 2016, 8, 8324-8332. | 2.8 | 120 |
| 16 | Strainâ€Sensitive Magnetization Reversal of a van der Waals Magnet. Advanced Materials, 2020, 32, e2004533. | 11.1 | 119 |
| 17 | Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. Science, 2022, 376, 973-978. | 6.0 | 105 |
| 18 | Giant Anisotropic Raman Response of Encapsulated Ultrathin Black Phosphorus by Uniaxial Strain. Advanced Functional Materials, 2017, 27, 1600986. | 7.8 | 100 |

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|---|---|---|---|
| 19 | Two-dimensional ferroelectricity and switchable spin-textures in ultra-thin elemental Te multilayers. Materials Horizons, 2018, 5, 521-528. | 6.4 | 96 |
| 20 | Layer and doping tunable ferromagnetic order in two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Cr</mml:mi><mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> layers. Physical Review B, 2018, 97, . | 1.1 | 96 |
| 21 | A family of high-temperature ferromagnetic monolayers with locked spin-dichroism-mobility anisotropy: MnNX and CrCX (Xâ€¯=â€¯Cl, Br, I; Câ€¯=â€¯S, Se, Te). Science Bulletin, 2019, 64, 293-300. | 4.3 | 96 |
| 22 | Epitaxial Synthesis of Monolayer PtSe<sub>2</sub> Single Crystal on MoSe<sub>2</sub> with Strong Interlayer Coupling. ACS Nano, 2019, 13, 10929-10938. | 7.3 | 72 |
| 23 | A Gd@C82 single-molecule electret. Nature Nanotechnology, 2020, 15, 1019-1024. | 15.6 | 70 |
| 24 | Spin mapping of intralayer antiferromagnetism and field-induced spin reorientation in monolayer CrTe2. Nature Communications, 2022, 13, 257. | 5.8 | 62 |
| 25 | Domain wall pinning and hard magnetic phase in Co-doped bulk single crystalline <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Fe</mml:mi><mml:mn>1</mml:mn></mml:msub></mml:mrow></mml:math> Physical Review B, 2019, 99, . | 1.1 | 58 |
| 26 | Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer MoSe<sub>2</sub>. Nano Letters, 2017, 17, 6653-6660. | 4.5 | 51 |
| 27 | UV-SWIR broad range photodetectors made from few-layer Î±-In<sub>2</sub>Se<sub>3</sub> nanosheets. Nanoscale, 2019, 11, 12817-12828. | 2.8 | 47 |
| 28 | Bethe-Slater-curve-like behavior and interlayer spin-exchange coupling mechanisms in two-dimensional magnetic bilayers. Physical Review B, 2020, 102, . | 1.1 | 46 |
| 29 | Electron Core-Hole Interaction and Its Induced Ionic Structural Relaxation in Molecular Systems under X-Ray Irradiation. Physical Review Letters, 2006, 97, 246101. | 2.9 | 40 |
| 30 | Emerging Groupâ€VI Elemental 2D Materials: Preparations, Properties, and Device Applications. Small, 2020, 16, e2003319. | 5.2 | 38 |
| 31 | Engineering Point-Defect States in Monolayer WSe<sub>2</sub>. ACS Nano, 2019, 13, 1595-1602. | 7.3 | 35 |
| 32 | Giant anisotropic photonics in the 1D van der Waals semiconductor fibrous red phosphorus. Nature Communications, 2021, 12, 4822. | 5.8 | 32 |
| 33 | Charge-governed phase manipulation of few-layer tellurium. Nanoscale, 2018, 10, 22263-22269. | 2.8 | 28 |
| 34 | Light helicity detector based on 2D magnetic semiconductor CrI3. Nature Communications, 2021, 12, 6874. | 5.8 | 25 |
| 35 | Nonvolatile electric field control of magnetism in bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CrI</mml:mi><mml:mn>3</mml:mn></mml:msub></m on monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>In</mml:mi><mml:mn>2</mml:mn></mml:mn> Physical Review B, 2021, 104, . | 1.1 | 24 |
| 36 | Layer-Dependent Interlayer Antiferromagnetic Spin Reorientation in Air-Stable Semiconductor CrSBr. ACS Nano, 2022, 16, 11876-11883. | 7.3 | 22 |

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|---|---|---|---|
| 37 | Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet. Nano Letters, 2022, 22, 1233-1241. | 4.5 | 21 |
| 38 | Ionic-Liquid-Gating Induced Protonation and Superconductivity in FeSe, FeSe<sub>0.93</sub>S<sub>0.07</sub>, ZrNCl, 1T-TaS<sub>2</sub> and Bi<sub>2</sub>Se<sub>3</sub> <sup>*</sup>. Chinese Physics Letters, 2019, 36, 077401. | 1.3 | 20 |
| 39 | Realizing nearly-free-electron like conduction band in a molecular film through mediating intermolecular van der Waals interactions. Nature Communications, 2019, 10, 3374. | 5.8 | 18 |
| 40 | Illuminating interlayer interactions. Nature Materials, 2018, 17, 211-213. | 13.3 | 17 |
| 41 | Topological phase change transistors based on tellurium Weyl semiconductor. Science Advances, 2022, 8, . | 4.7 | 17 |
| 42 | Surface stabilized cubic phase of CsPbI<sub>3</sub> and CsPbBr<sub>3</sub> at room temperature*. Chinese Physics B, 2019, 28, 056402. | 0.7 | 16 |
| 43 | Quantum spin Hall effect in monolayer and bilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">TaIrTe</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review B, 2020, 102, . | 1.1 | 16 |
| 44 | Strain- and twist-engineered optical absorption of few-layer black phosphorus. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1. | 2.0 | 12 |
| 45 | Chirality locking charge density waves in a chiral crystal. Nature Communications, 2022, 13, . | 5.8 | 12 |
| 46 | Magnetism in molybdenum disulphide monolayer with sulfur substituted by 3d transition metals. Journal of Applied Physics, 2016, 120, 144305. | 1.1 | 11 |
| 47 | Geometric stability and electronic structure of infinite and finite phosphorus atomic chains. Chinese Physics B, 2017, 26, 036803. | 0.7 | 11 |
| 48 | Unusually high electron density in an intermolecular non-bonding region: Role of metal substrate. Chinese Chemical Letters, 2017, 28, 759-764. | 4.8 | 11 |
| 49 | Advances in photonics of recently developed Xenes. Nanophotonics, 2020, 9, 1621-1649. | 2.9 | 11 |
| 50 | Raman detection of hidden phonons assisted by atomic point defects in a two-dimensional semimetal. Npj 2D Materials and Applications, 2019, 3, . | 3.9 | 10 |
| 51 | Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS2 and Au films. Science China Information Sciences, 2021, 64, 1. | 2.7 | 10 |
| 52 | Shallowing interfacial carrier trap in transition metal dichalcogenide heterostructures with interlayer hybridization. Nano Research, 2021, 14, 1390-1396. | 5.8 | 9 |
| 53 | Mass transport induced structural evolution and healing of sulfur vacancy lines and Mo chain in monolayer MoS2. Rare Metals, 2022, 41, 333-341. | 3.6 | 8 |
| 54 | Heterostructures of tellurium on NbSe<sub>2</sub> from sub-monolayer to few-layer films. Nanoscale, 2020, 12, 1994-2001. | 2.8 | 7 |

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|---|---|---|---|
| 55 | Quasi one-dimensional van der Waals gold selenide with strong interchain interaction and giant magnetoresistance. Science Bulletin, 2020, 65, 1451-1459. | 4.3 | 7 |
| 56 | Exceptionally Stiff Two-Dimensional Molecular Crystal by Substrate-Confinement. ACS Nano, 2014, 8, 11425-11431. | 7.3 | 6 |
| 57 | Two ultra-stable novel allotropes of tellurium few-layers*. Chinese Physics B, 2020, 29, 097103. | 0.7 | 5 |
| 58 | Twoâ€Dimensional Tellurene Transistors with Low Contact Resistance and Selfâ€Aligned Catalytic Thinning Process. Advanced Electronic Materials, 2022, 8, . | 2.6 | 5 |
| 59 | Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. Nano Research, 2022, 15, 5712-5718. | 5.8 | 4 |
| 60 | Investigating molecular orbitals with submolecular precision on pristine sites and single atomic vacancies of monolayer h-BN. Nano Research, 2020, 13, 2233-2238. | 5.8 | 3 |
| 61 | Quasiperiodic modulation of electronic states at edges of tellurium nanoribbons on <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>graphene</mml:mi><mml:mo>/</mml:mo><mml:mn>6</mml:mn><mml:mn>1</mml:mn><mml:mn>1</mml:mn> Physical Review B, 2021, 103, . | 3.6 | 3 |
| 62 | Selective linear etching of monolayer black phosphorus using electron beams*. Chinese Physics B, 2020, 29, 086801. | 0.7 | 2 |
| 63 | Epitaxial fabrication of AgTe monolayer on Ag(111) and the sequential growth of Te film. Frontiers of Physics, 2021, 16, 1. | 2.4 | 0 |