# Jun Yan

List of Publications by Year
in descending order



| 37 | 3,561 | 257450 24 | 361022 35 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 38 | 38 | 38 | 5747 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Electric Field Effect Tuning of Electron-Phonon Coupling in Graphene. Physical Review Letters, 2007, 98, 166802. | 7.8 | 996 |
| 2 | Sensitive room-temperature terahertz detection via the photothermoelectric effect in graphene. Nature Nanotechnology, 2014, 9, 814-819. | 31.5 | 474 |
| 3 | Dual-gated bilayer graphene hot-electron bolometer. Nature Nanotechnology, 2012, 7, 472-478. | 31.5 | 409 |
| 4 | Helicity-Resolved Raman Scattering of MoS<sub>2</sub>, MoSe<sub>2</sub>, WS<sub>2</sub>, and WSe<sub>2</sub> Atomic Layers. Nano Letters, 2015, 15, 2526-2532. | 9.1 | 241 |
| 5 | Observation of Anomalous Phonon Softening in Bilayer Graphene. Physical Review Letters, 2008, 101, 136804. | 7.8 | 160 |
| 6 | Correlated Charged Impurity Scattering in Graphene. Physical Review Letters, 2011, 107, 206601. | 7.8 | 142 |
| 7 | Antenna Enhanced Graphene THz Emitter and Detector. Nano Letters, 2015, 15, 5295-5301. | 9.1 | 138 |
| 8 | Coulomb-bound four- and five-particle intervalley states in an atomically-thin semiconductor. Nature Communications, 2018, 9, 3717. | 12.8 | 127 |
| 9 | Activation of New Raman Modes by Inversion Symmetry Breaking in Type II Weyl Semimetal Candidate Tâ€²-MoTe<sub>2</sub>. Nano Letters, 2016, 16, 5852-5860. | 9.1 | 102 |
| 10 | Charge Transport in Dual Gated Bilayer Graphene with Corbino Geometry. Nano Letters, 2010, 10, 4521-4525. | 9.1 | 76 |
| 11 | Optical phonon mixing in bilayer graphene with a broken inversion symmetry. Physical Review B, 2009, 80, . | 3.2 | 73 |
| 12 | Luminescent Emission of Excited Rydberg Excitons from Monolayer WSe<sub>2</sub>. Nano Letters, 2019, 19, 2464-2471. | 9.1 | 51 |
| 13 | Observation of Magnetophonon Resonance of Dirac Fermions in Graphite. Physical Review Letters, 2010, 105, 227401. | 7.8 | 47 |
| 14 | Rapid Collapse of Spin Waves in Nonuniform Phases of the Second Landau Level. Physical Review Letters, 2011, 106, 196805. | 7.8 | 46 |
| 15 | Raman scattering and tunable electronâ€“phonon coupling in single layer graphene. Solid State Communications, 2007, 143, 39-43. | 1.9 | 43 |
| 16 | Photothermal Response in Dual-Gated Bilayer Graphene. Physical Review Letters, 2013, 110, 247402. | 7.8 | 41 |
| 17 | Raman scattering and anomalous Stokesâ€“anti-Stokes ratio in MoTe2 atomic layers. Scientific Reports, 2016, 6, 28024. | 3.3 | 41 |
| 18 | The range of non-Kitaev terms and fractional particles in Î±-RuCl3. Npj Quantum Materials, 2020, 5, . | 5.2 | 38 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Intrinsic Phonon Bands in High-Quality Monolayer Tâ€² Molybdenum Ditelluride. ACS Nano, 2017, 11, 814-820. | 14.6 | 37 |
| 20 | Soft Spin Wave near<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î½</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:math>: Evidence for a Magnetic Instability in Skyrmion Systems. Physical Review Letters, 2008, 100, 086806. | 7.8 | 36 |
| 21 | Multilayer graphene films grown by molecular beam deposition. Solid State Communications, 2010, 150, 809-811. | 1.9 | 35 |
| 22 | Edge-state transport in graphene<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>p</mml:mi><mml:mo>â^'</mml:mo><mml:mi>i</mml:mi> in the quantum Hall regime. Physical Review B, 2015, 92, . | 3.2 | 34 |
| 23 | Valley Polarization and Coherence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:math> Excitons in Monolayer <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> Physical Review Letters, 2018, 120, 046402. | 7.8 | 31 |
| 24 | Ground and excited state exciton polarons in monolayer MoSe2. Journal of Chemical Physics, 2020, 153, 071101. | 3.0 | 30 |
| 25 | Raman spectroscopy of magneto-phonon resonances in graphene and graphite. Solid State Communications, 2012, 152, 1289-1293. | 1.9 | 22 |
| 26 | Up- and Down-Conversion between Intra- and Intervalley Excitons in Waveguide Coupled Monolayer WSe<sub>2</sub>. ACS Nano, 2020, 14, 10503-10509. | 14.6 | 14 |
| 27 | Axial Higgs mode detected by quantum pathway interference in RTe3. Nature, 2022, 606, 896-901. | 27.8 | 14 |
| 28 | Asymmetric Two-Terminal Graphene Detector for Broadband Radiofrequency Heterodyne- and Self-Mixing. Nano Letters, 2018, 18, 3516-3522. | 9.1 | 12 |
| 29 | Enhancement of exciton valley polarization in monolayer MoS2 induced by scattering. Physical Review B, 2021, 104, . | 3.2 | 12 |
| 30 | Excited-state trions in two-dimensional materials. Physical Review B, 2020, 101, . | 3.2 | 10 |
| 31 | Pulsed Near-IR Photoresponse in a Bi-metal Contacted Graphene Photodetector. Scientific Reports, 2015, 5, 14803. | 3.3 | 7 |
| 32 | Probing the bright exciton state in twisted bilayer graphene via resonant Raman scattering. Applied Physics Letters, 2021, 119, . | 3.3 | 7 |
| 33 | Negative valley polarization in doped monolayer MoSe<sub>2</sub>. Physical Chemistry Chemical Physics, 2021, 24, 191-196. | 2.8 | 6 |
| 34 | Observation of Ultrastrong Coupling between Substrate and the Magnetic Topological Insulator MnBi<sub>2</sub>Te<sub>4</sub>. Nano Letters, 2022, 22, 3856-3864. | 9.1 | 6 |
| 35 | The Spin Excitation Spectrum in Quantum Hall Systems: Insights from Light Scattering Experiments. International Journal of Modern Physics B, 2007, 21, 1209-1218. | 2.0 | 3 |
| 36 | THz radiation from SWCNTs, graphene and metallic thin films: A comparative study. , 2014, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Characterization of Fast Temporal Photoreponse in a Broadband Graphene Photodetector. , 2014, , . | | 0 |