

Yakun Yuan

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,736
citations

304743

22
h-index

345221

36
g-index

38
all docs

38
docs citations

38
times ranked

3007
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Three-dimensional atomic packing in amorphous solids with liquid-like structure. Nature Materials, 2022, 21, 95-102. | 27.5 | 44 |
| 2 | Determining the three-dimensional atomic structure of an amorphous solid. Nature, 2021, 592, 60-64. | 27.8 | 193 |
| 3 | Subterahertz collective dynamics of polar vortices. Nature, 2021, 592, 376-380. | 27.8 | 66 |
| 4 | Nano-imaging of strain-tuned stripe textures in a Mott crystal. Npj Quantum Materials, 2021, 6, . | 5.2 | 12 |
| 5 | Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. Science Advances, 2021, 7, eabi6699. | 10.3 | 13 |
| 6 | In-plane quasi-single-domain BaTiO ₃ via interfacial symmetry engineering. Nature Communications, 2021, 12, 6784. | 12.8 | 16 |
| 7 | Designing Optimal Perovskite Structure for High Ionic Conduction. Advanced Materials, 2020, 32, e1905178. | 21.0 | 30 |
| 8 | Making EuO multiferroic by epitaxial strain engineering. Communications Materials, 2020, 1, . | 6.9 | 21 |
| 9 | Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. Nature Materials, 2020, 19, 867-873. | 27.5 | 96 |
| 10 | Determining the 3D Atomic Coordinates and Crystal Defects in 2D Materials with Picometer Precision. Microscopy and Microanalysis, 2019, 25, 404-405. | 0.4 | 1 |
| 11 | Comprehensive magnetic phase diagrams of the polar metal C | | |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Continuously Tuning Epitaxial Strains by Thermal Mismatch. ACS Nano, 2018, 12, 1306-1312. | 14.6 | 44 |
| 20 | Terahertz Emission: Terahertz Emission from Hybrid Perovskites Driven by Ultrafast Charge Separation and Strong Electron-Phonon Coupling (Adv. Mater. 11/2018). Advanced Materials, 2018, 30, 1870079. | 21.0 | 2 |
| 21 | Overlapping growth windows to build complex oxide superlattices. APL Materials, 2018, 6, 111104. | 5.1 | 3 |
| 22 | Three-dimensional atomic scale electron density reconstruction of octahedral tilt epitaxy in functional perovskites. Nature Communications, 2018, 9, 5220. | 12.8 | 32 |
| 23 | Linear and nonlinear optical probe of the ferroelectric-like phase transition in a polar metal, LiOsO ₃ . Applied Physics Letters, 2018, 113, . | 3.3 | 26 |
| 24 | Strain-induced ferroelectricity and spin-lattice coupling in SrMnO_3 thin films. Physical Review B, 2018, 97, . | 3.2 | 51 |
| 25 | Light-activated gigahertz ferroelectric domain dynamics (Conference Presentation). , 2018, , . | | 0 |
| 26 | Sub-wavelength modulation of $\chi^{(2)}$ optical nonlinearity in organic thin films. Nature Communications, 2017, 8, 14269. | 12.8 | 11 |
| 27 | Ultrafast spatio-temporal mapping of gigahertz lattice distortion in a ferroelectric crystal (Conference Presentation). , 2016, , . | | 0 |
| 28 | Chemistry, growth kinetics, and epitaxial stabilization of Sn ²⁺ in Sn-doped SrTiO ₃ using (CH ₃) ₆ Sn ₂ tin precursor. APL Materials, 2016, 4, . | 5.1 | 15 |
| 29 | Interfacial Octahedral Rotation Mismatch Control of the Symmetry and Properties of SrRuO ₃ . ACS Applied Materials & Interfaces, 2016, 8, 14871-14878. | 8.0 | 59 |
| 30 | Polar metals by geometric design. Nature, 2016, 533, 68-72. | 27.8 | 262 |
| 31 | Strong band hybridization between silicene and Ag(111) substrate. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 38-42. | 2.7 | 43 |
| 32 | Tunable band gap in germanene by surface adsorption. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 59, 60-65. | 2.7 | 84 |
| 33 | Does the Dirac Cone Exist in Silicene on Metal Substrates?. Scientific Reports, 2014, 4, 5476. | 3.3 | 92 |
| 34 | Fullerene-doped hole transport molecular films for organic light-emitting diodes. Applied Physics Letters, 2005, 86, 143509. | 3.3 | 25 |
| 35 | Diffused ferroelectrics of Ba ₆ Ti ₂ Nb ₈ O ₃₀ and Sr ₆ Ti ₂ Nb ₈ O ₃₀ with filled tungsten-bronze structure. Journal of Applied Physics, 2005, 98, 084110. | 2.5 | 28 |
| 36 | Low loss dielectrics of Ba ₆ Ti ₂ Ta ₈ O ₃₀ and Sr ₆ Ti ₂ Ta ₈ O ₃₀ with tungsten-bronze structure. Journal of Applied Physics, 2005, 97, 074108. | 2.5 | 21 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Interaction between organic semiconductors and LiF dopant. Applied Physics Letters, 2004, 85, 4959-4961. | 3.3 | 50 |
| 38 | The morphology and growth mechanism of TiC whisker prepared by chemical vapour deposition. Journal of Materials Science, 1998, 33, 5773-5780. | 3.7 | 11 |