

Yakun Yuan

List of Publications by Year in descending order

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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	Polar metals by geometric design. Nature, 2016, 533, 68-72.	27.8	262
2	Determining the three-dimensional atomic structure of an amorphous solid. Nature, 2021, 592, 60-64.	27.8	193
3	Optical creation of a supercrystal with three-dimensional nanoscale periodicity. Nature Materials, 2019, 18, 377-383.	27.5	105
4	Correlating the three-dimensional atomic defects and electronic properties of two-dimensional transition metal dichalcogenides. Nature Materials, 2020, 19, 867-873.	27.5	96
5	Does the Dirac Cone Exist in Silicene on Metal Substrates?. Scientific Reports, 2014, 4, 5476.	3.3	92
6	Terahertz Emission from Hybrid Perovskites Driven by Ultrafast Charge Separation and Strong Electron-Phonon Coupling. Advanced Materials, 2018, 30, 1704737.	21.0	86
7	Tunable band gap in germanene by surface adsorption. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 59, 60-65.	2.7	84
8	Subterahertz collective dynamics of polar vortices. Nature, 2021, 592, 376-380.	27.8	66
9	Observation of Quasi-Two-Dimensional Polar Domains and Ferroelastic Switching in a Metal, $\text{Ca}_3\text{Ru}_2\text{O}_7$. Nano Letters, 2018, 18, 3088-3095.	9.1	62
10	Artificial two-dimensional polar metal at room temperature. Nature Communications, 2018, 9, 1547.	12.8	61
11	Interfacial Octahedral Rotation Mismatch Control of the Symmetry and Properties of SrRuO_3 . ACS Applied Materials & Interfaces, 2016, 8, 14871-14878.	8.0	59
12	Strain-induced ferroelectricity and spin-lattice coupling in SrMnO_3 thin films. Physical Review B, 2018, 97, .	3.2	51
13	Interaction between organic semiconductors and LiF dopant. Applied Physics Letters, 2004, 85, 4959-4961.	3.3	50
14	Continuously Tuning Epitaxial Strains by Thermal Mismatch. ACS Nano, 2018, 12, 1306-1312.	14.6	44
15	Three-dimensional atomic packing in amorphous solids with liquid-like structure. Nature Materials, 2022, 21, 95-102.	27.5	44
16	Strong band hybridization between silicene and Ag(111) substrate. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 58, 38-42.	2.7	43
17	Light-Activated Gigahertz Ferroelectric Domain Dynamics. Physical Review Letters, 2018, 120, 096101.	7.8	39
18	Three-dimensional atomic scale electron density reconstruction of octahedral tilt epitaxy in functional perovskites. Nature Communications, 2018, 9, 5220.	12.8	32

#	ARTICLE	IF	CITATIONS
19	Designing Optimal Perovskite Structure for High Ionic Conduction. <i>Advanced Materials</i> , 2020, 32, e1905178.	21.0	30
20	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. <i>Journal of Applied Physics</i> , 2005, 98, 084110.	2.5	28
21	Linear and nonlinear optical probe of the ferroelectric-like phase transition in a polar metal, LiOsO ₃ . <i>Applied Physics Letters</i> , 2018, 113, .	3.3	26
22	Fullerene-doped hole transport molecular films for organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 86, 143509.	3.3	25
23	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. <i>Journal of Applied Physics</i> , 2005, 97, 074108.	2.5	21
24	Making EuO multiferroic by epitaxial strain engineering. <i>Communications Materials</i> , 2020, 1, .	6.9	21
25	Relaxor Behavior in Ordered Lead Magnesium Niobate (PbMg ^{1/3} Nb ^{2/3} O ₃) Thin Films. <i>Advanced Functional Materials</i> , 2019, 29, 1804258.	14.9	17
26	In-plane quasi-single-domain BaTiO ₃ via interfacial symmetry engineering. <i>Nature Communications</i> , 2021, 12, 6784.	12.8	16
27	Chemistry, growth kinetics, and epitaxial stabilization of Sn ²⁺ in Sn-doped SrTiO ₃ using (CH ₃) ₆ Sn ₂ tin precursor. <i>APL Materials</i> , 2016, 4, .	5.1	15
28	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. <i>Science Advances</i> , 2021, 7, eabi6699.	10.3	13
29	Nano-imaging of strain-tuned stripe textures in a Mott crystal. <i>Npj Quantum Materials</i> , 2021, 6, .	5.2	12
30	The morphology and growth mechanism of TiC whisker prepared by chemical vapour deposition. <i>Journal of Materials Science</i> , 1998, 33, 5773-5780.	3.7	11
31	Sub-wavelength modulation of $\chi^{(2)}$ optical nonlinearity in organic thin films. <i>Nature Communications</i> , 2017, 8, 14269.	12.8	11
32	Ultrafast quasiparticle dynamics in the correlated semimetal Ca ₃ Ru ₂ O ₇ . <i>Physical Review B</i> , 2019, 99, .	3.2	8
33	Comprehensive magnetic phase diagrams of the polar metal $\chi^{(2)}$ C		

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37	Ultrafast spatio-temporal mapping of gigahertz lattice distortion in a ferroelectric crystal (Conference Presentation). , 2016, , .		0
38	Light-activated gigahertz ferroelectric domain dynamics (Conference Presentation). , 2018, , .		0