

# Teng Lu

## List of Publications by Year in descending order

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44  
papers

2,034  
citations

331670

21  
h-index

254184

43  
g-index

44  
all docs

44  
docs citations

44  
times ranked

3092  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface passivation using ultrathin polymer–fullerene films for high-efficiency perovskite solar cells with negligible hysteresis. <i>Energy and Environmental Science</i> , 2017, 10, 1792-1800.	30.8	381
2	Antiferroelectrics for Energy Storage Applications: a Review. <i>Advanced Materials Technologies</i> , 2018, 3, 1800111.	5.8	334
3	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. <i>Science</i> , 2021, 371, 390-395.	12.6	270
4	Centimetre-scale perovskite solar cells with fill factors of more than 86 per cent. <i>Nature</i> , 2022, 601, 573-578.	27.8	137
5	Interface-Charge Induced Giant Electrocaloric Effect in Lead Free Ferroelectric Thin-Film Bilayers. <i>Nano Letters</i> , 2020, 20, 1262-1271.	9.1	95
6	Janus Conductive/Insulating Microporous Ion-Sieving Membranes for Stable Li–S Batteries. <i>ACS Nano</i> , 2020, 14, 13852-13864.	14.6	74
7	Electrical conductivity of polycrystalline BiVO <sub>4</sub> samples having the scheelite structure. <i>Solid State Ionics</i> , 1986, 21, 339-342.	2.7	57
8	Reversible single crystal-to-single crystal double [2+2] cycloaddition induces multifunctional photo-mechano-electrochemical properties in framework materials. <i>Nature Communications</i> , 2020, 11, 2808.	12.8	46
9	Anomalous Photovoltaic Effect in Centrosymmetric Ferroelastic BiVO <sub>4</sub> . <i>Advanced Materials</i> , 2018, 30, e1801619.	21.0	45
10	Piezoelectric Responses of Mechanically Exfoliated Two-Dimensional SnS <sub>2</sub> Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 51662-51668.	8.0	45
11	Earth-abundant transition metal oxides with extraordinary reversible oxygen exchange capacity for efficient thermochemical synthesis of solar fuels. <i>Nano Energy</i> , 2018, 50, 347-358.	16.0	40
12	Lead-free (Ag,K)NbO <sub>3</sub> materials for high-performance explosive energy conversion. <i>Science Advances</i> , 2020, 6, eaba0367.	10.3	38
13	Tunable Optoelectronic Properties of WS <sub>2</sub> by Local Strain Engineering and Folding. <i>Advanced Electronic Materials</i> , 2020, 6, 1901381.	5.1	38
14	In Situ Formation of Mixed-Dimensional Surface Passivation Layers in Perovskite Solar Cells with Dual-Isomer Alkylammonium Cations. <i>Small</i> , 2020, 16, e2005022.	10.0	34
15	Introduction of TiO <sub>2</sub> in CuI for Its Improved Performance as a p-Type Transparent Conductor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24254-24263.	8.0	33
16	Efficient and stable wide bandgap perovskite solar cells through surface passivation with long alkyl chain organic cations. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18454-18465.	10.3	32
17	High performance Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> -BiAlO <sub>3</sub> -K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> lead-free pyroelectric ceramics for thermal detectors. <i>Applied Physics Letters</i> , 2018, 112, 142903.	3.3	28
18	Above-Band Gap Photoinduced Stabilization of Engineered Ferroelectric Domains. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12781-12789.	8.0	26

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19	Collective nonlinear electric polarization <i>via</i> defect-driven local symmetry breaking. <i>Materials Horizons</i> , 2019, 6, 1717-1725.	12.2	25
20	Electric-field-induced AFE-FE transitions and associated strain/preferred orientation in antiferroelectric PLZST. <i>Scientific Reports</i> , 2016, 6, 23659.	3.3	24
21	Simultaneously achieving large energy density and high efficiency in $\text{NaNbO}_3 \cdot \text{Sr}(\text{Bi})\text{TiO}_3 \cdot \text{Bi}(\text{Mg}, \text{Zr})\text{O}_3$ relaxor ferroelectric ceramics. Critical role of the coupling between the octahedral rotation and $\text{Bi}^{3+}$ site ionic displacements in $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ based physical Review B, 2017, 10, 13907-13916.	10.3	23
22	Structure-Driven, Ferroelectric Wake-Up Effect for Electrical Fatigue Relief. <i>Chemistry of Materials</i> , 2020, 32, 6456-6463.	6.7	12
23	Defect engineering for creating and enhancing bulk photovoltaic effect in centrosymmetric materials. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13182-13191.	10.3	12
24	Structure-Driven, Ferroelectric Wake-Up Effect for Electrical Fatigue Relief. <i>Chemistry of Materials</i> , 2020, 32, 6456-6463.	6.7	12
25	Dual Ion Flux Management for Stable High Areal Capacity Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	14
26	Trans-Regime Structural Transition of $(\text{In}_{3+} + \text{Nb}_{5+})$ Co-Doped Anatase $\text{TiO}_2$ Nanocrystals under High Pressure. <i>Crystal Growth and Design</i> , 2017, 17, 2529-2535.	3.0	11
27	Evidence of phase coexistence in hydrothermally synthesized $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ nanofibers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8731-8739.	10.3	11
28	Symmetry-mode analysis for intuitive observation of structure-property relationships in the lead-free antiferroelectric $(1-x)\text{AgNbO}_3 \cdot x\text{LiTaO}_3$ . <i>IUCr</i> , 2019, 6, 740-750.	2.2	11
29	Ferroelectric Ceramics for Pyroelectric Detection Applications: A Review. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 242-252.	3.0	10
30	Photovoltaic Effect of a Ferroelectric-Luminescent Heterostructure under Infrared Light Illumination. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 29786-29794.	8.0	8
31	High performance bulk photovoltaics in narrow-bandgap centrosymmetric ultrathin films. <i>Materials Horizons</i> , 2020, 7, 898-904.	12.2	6
32	Large electrocaloric and pyroelectric energy harvesting effect over a broad temperature range <i>via</i> modulating the relaxor behavior in non-relaxor ferroelectrics. <i>Journal of Materials Chemistry A</i> , 2021, 9, 22015-22024.	10.3	6

#	ARTICLE	IF	CITATIONS
37	Study of the B-site ion behaviour in the multiferroic perovskite bismuth iron chromium oxide. Journal of Applied Physics, 2018, 123, 154104.	2.5	5
38	Structure, dielectric and ferroelectric properties of lead free (K,Na)(Nb)O <sub>3-x</sub> BiErO <sub>3</sub> piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 7142-7151.	2.2	4
39	Anomalous Photovoltaics: Anomalous Photovoltaic Effect in Centrosymmetric Ferroelastic BiVO <sub>4</sub> (Adv. Mater. 44/2018). Advanced Materials, 2018, 30, 1870334.	21.0	4
40	Synthesis, structure and dielectric properties of the Sr <sub>3</sub> Ti <sub>1-x</sub> Zr <sub>x</sub> Nb <sub>4</sub> O <sub>15</sub> , (0 ≤ x ≤ 1), series of tungsten bronze type compounds. CrystEngComm, 2020, 22, 4994-5001.	2.6	3
41	Role of A-Site Molecular Ions in the Polar Functionality of Metal-Organic Framework Perovskites. Chemistry of Materials, 2021, 33, 9666-9676.	6.7	3
42	Understanding the Unusual Response to High Pressure in KBe <sub>2</sub> BO <sub>3</sub> F <sub>2</sub> . Scientific Reports, 2017, 7, 4027.	3.3	2
43	The stress deformation response influenced by the chain rigidity for mesostructures in diblock copolymers. Physical Chemistry Chemical Physics, 2021, 23, 22992-23004.	2.8	1
44	Defect structure and property consequence when small Li <sup>+</sup> ions meet BaTiO <sub>3</sub> . Physical Review Materials, 2020, 4, .	2.4	1