Teng Lu

List of Publications by Year
in descending order

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	Dualâ€Ion Flux Management for Stable High Areal Capacity Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2022, 12, .	19.5	14
2	Centimetre-scale perovskite solar cells with fill factors of more than 86 per cent. Nature, 2022, 601, 573-578.	27.8	137
3	Simultaneously achieving large energy density and high efficiency in NaNbO₃â€“(Sr,Bi)TiO₃â€“Bi(Mg,Zr)O₃ relaxor ferroelectric ceramics for dielectric capacitor applications. Journal of Materials Chemistry A, 2022, 10, 13907-13916.	10.3	23
4	Ferroelectric Ceramics for Pyroelectric Detection Applications: A Review. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 242-252.	3.0	10
5	Defect engineering for creating and enhancing bulk photovoltaic effect in centrosymmetric materials. Journal of Materials Chemistry A, 2021, 9, 13182-13191.	10.3	12
6	Nanoscale localized contacts for high fill factors in polymer-passivated perovskite solar cells. Science, 2021, 371, 390-395.	12.6	270
7	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
8	Efficient and stable wide bandgap perovskite solar cells through surface passivation with long alkyl chain organic cations. Journal of Materials Chemistry A, 2021, 9, 18454-18465.	10.3	32
9	Large electrocaloric and pyroelectric energy harvesting effect over a broad temperature range via modulating the relaxor behavior in non-relaxor ferroelectrics. Journal of Materials Chemistry A, 2021, 9, 22015-22024.	10.3	6
10	Role of A-Site Molecular Ions in the Polar Functionality of Metalâ€“Organic Framework Perovskites. Chemistry of Materials, 2021, 33, 9666-9676.	6.7	3
11	Interface-Charge Induced Giant Electrocaloric Effect in Lead Free Ferroelectric Thin-Film Bilayers. Nano Letters, 2020, 20, 1262-1271.	9.1	95
12	High performance bulk photovoltaics in narrow-bandgap centrosymmetric ultrathin films. Materials Horizons, 2020, 7, 898-904.	12.2	6
13	In Situ Formation of Mixedâ€Dimensional Surface Passivation Layers in Perovskite Solar Cells with Dualâ€Isomer Alkylammonium Cations. Small, 2020, 16, e2005022.	10.0	34
14	Structure-Driven, Ferroelectric Wake-Up Effect for Electrical Fatigue Relief. Chemistry of Materials, 2020, 32, 6456-6463.	6.7	12
15	Piezoelectric Responses of Mechanically Exfoliated Two-Dimensional SnS₂ Nanosheets. ACS Applied Materials & Interfaces, 2020, 12, 51662-51668.	8.0	45
16	Janus Conductive/Insulating Microporous Ion-Sieving Membranes for Stable Liâ€“S Batteries. ACS Nano, 2020, 14, 13852-13864.	14.6	74
17	Lead-free (Ag,K)NbO ₃ materials for high-performance explosive energy conversion. Science Advances, 2020, 6, eaba0367.	10.3	38
18	Synthesis, structure and dielectric properties of the Sr₃Ti_{1â^'x}Zr_xNb₄O₁₅, (0 â‰¤ x â‰¤ 1), series of tungsten bronze type compounds. CrystEngComm, 2020, 22, 4994-5001.	2.6	3

#	Article	IF	Citations
19	Reversible single crystal-to-single crystal double [2+2] cycloaddition induces multifunctional photo-mechano-electrochemical properties in framework materials. Nature Communications, 2020, 11, 2808.	12.8	46
20	Tunable Optoelectronic Properties of WS₂ by Local Strain Engineering and Folding. Advanced Electronic Materials, 2020, 6, 1901381.	5.1	38
21	Evidence of phase coexistence in hydrothermally synthesized K_{0.5}Na_{0.5}NbO₃ nanofibers. Journal of Materials Chemistry A, 2020, 8, 8731-8739.	10.3	11
22	Reinvestigation of the photostrictive effect in lanthanumâ€modified lead zirconate titanate ferroelectrics. Journal of the American Ceramic Society, 2020, 103, 4074-4082.	3.8	17
23	Defect structure and property consequence when small Li+ ions meet BaTiO3. Physical Review Materials, 2020, 4, .	2.4	1
24	Introduction of TiO₂ in CuI for Its Improved Performance as a p-Type Transparent Conductor. ACS Applied Materials & Interfaces, 2019, 11, 24254-24263.	8.0	33
25	Collective nonlinear electric polarization via defect-driven local symmetry breaking. Materials Horizons, 2019, 6, 1717-1725.	12.2	25
26	Symmetry-mode analysis for intuitive observation of structureâ€“property relationships in the lead-free antiferroelectric (1â^’x)AgNbO₃â€“xLiTaO₃. IUCrJ, 2019, 6, 740-750.	2.2	11
27	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
28	High performance Bi0.5Na0.5TiO3-BiAlO3-K0.5Na0.5NbO3 lead-free pyroelectric ceramics for thermal detectors. Applied Physics Letters, 2018, 112, 142903.	3.3	28
29	Structure, dielectric and ferroelectric properties of lead free (K,Na)(Nb)O3-xBiErO3 piezoelectric ceramics. Journal of Materials Science: Materials in Electronics, 2018, 29, 7142-7151.	2.2	4
30	Above-Band Gap Photoinduced Stabilization of Engineered Ferroelectric Domains. ACS Applied Materials & Interfaces, 2018, 10, 12781-12789.	8.0	26
31	Anomolous Photovoltaics: Anomalous Photovoltaic Effect in Centrosymmetric Ferroelastic BiVO4 (Adv. Mater. 44/2018). Advanced Materials, 2018, 30, 1870334.	21.0	4
32	Magnetic structure and spin correlations in magnetoelectric honeycomb <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">n</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">T</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	3.2	19
33	Anomalous Photovoltaic Effect in Centrosymmetric Ferroelastic BiVO₄. Advanced Materials, 2018, 30, e1801619.	21.0	45
34	Earth-abundant transition metal oxides with extraordinary reversible oxygen exchange capacity for efficient thermochemical synthesis of solar fuels. Nano Energy, 2018, 50, 347-358.	16.0	40
35	Antiferroelectrics for Energy Storage Applications: a Review. Advanced Materials Technologies, 2018, 3, 1800111.	5.8	334
36	Photovoltaic Effect of a Ferroelectric-Luminescent Heterostructure under Infrared Light Illumination. ACS Applied Materials & Interfaces, 2018, 10, 29786-29794.	8.0	8

#	Article	IF	Citations
37	Thermally-enhanced electrostriction and polar surface phase in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">M</mml:mi><mml:msub><mml:mi mathvariant="normal">o</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	2.4	12
38	Trans-Regime Structural Transition of (In³⁺ + Nb⁵⁺) Co-Doped Anatase TiO₂ Nanocrystals under High Pressure. Crystal Growth and Design, 2017, 17, 2529-2535.	3.0	11
39	Interface passivation using ultrathin polymerâ€“fullerene films for high-efficiency perovskite solar cells with negligible hysteresis. Energy and Environmental Science, 2017, 10, 1792-1800.	30.8	381
40	Understanding the Unusual Response to High Pressure in KBe2BO3F2. Scientific Reports, 2017, 7, 4027.	3.3	2
41	Critical role of the coupling between the octahedral rotation and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>A</mml:mi></mml:math>-site ionic displacements in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>PbZr</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>-based antiferroelectric materials investigated by in situ neutron diffraction. Physical Review B, 2017, 9	3.2	20
42	Electric-field-induced AFE-FE transitions and associated strain/preferred orientation in antiferroelectric PLZST. Scientific Reports, 2016, 6, 23659.	3.3	24
43	Susceptible Ferroelectric/Antiferroelectric Phase Transition near the Surface of Nb-Doped Lead Zirconate Stannate Titanate from Surface Processing. ACS Applied Materials & Interfaces, 2016, 8, 14313-14317.	8.0	17
44	Electrical conductivity of polycrystalline BiVO4 samples having the scheelite structure. Solid State Ionics, 1986, 21, 339-342.	2.7	57