

Jun-Ming Liu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

467
papers

18,067
citations

45
h-index

124
g-index

491
ext. papers

20,887
ext. citations

5.7
avg, IF

6.71
L-index

#	Paper	IF	Citations
467	Observation of magnetoelectric effect in the $S = 1/2$ spin chain compound CoSe ₂ O ₅ single crystal. <i>Applied Physics Letters</i> , 2022 , 120, 052901	3.4	
466	Stability and low-energy orientations of interphase boundaries in multiaxial ferroelectrics: Phase-field simulations. <i>Physical Review B</i> , 2022 , 105,	3.3	1
465	Experimental demonstration of skyrmionic magnetic tunnel junction at room temperature. <i>Science Bulletin</i> , 2022 ,	10.6	10
464	Nonvolatile ferroelectric domain wall memory embedded in complex topological domain structure.. <i>Advanced Materials</i> , 2022 , e2107711	24	7
463	Universal substrate growth of Ag-modified ReS ₂ as visible-light-driven photocatalyst for highly efficient water disinfection. <i>Chemical Engineering Journal</i> , 2022 , 430, 132918	14.7	1
462	Enhanced ferroelectric polarization with less wake-up effect and improved endurance of Hf _{0.5} Zr _{0.5} O ₂ thin films by implementing W electrode. <i>Journal of Materials Science and Technology</i> , 2022 , 104, 1-7	9.1	5
461	Tuning the morphology and optoelectronic properties of AgBiI ₄ film through isopropanol treatment. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 5321-5327	7.1	1
460	Significantly enhanced interlayer ferromagnetic coupling in van der Waals Fe ₃ GeTe ₂ bilayer by Be-ion intercalation. <i>Applied Physics Letters</i> , 2022 , 120, 073106	3.4	0
459	Ferroelectric photosensor network: an advanced hardware solution to real-time machine vision.. <i>Nature Communications</i> , 2022 , 13, 1707	17.4	8
458	A Mixed Antisolvent-Assisted Crystallization Strategy for Efficient All-Inorganic CsPbI ₃ Perovskite Solar Cells by a Low-Temperature Process. <i>ACS Applied Energy Materials</i> , 2022 , 5, 2881-2889	6.1	2
457	Emergence of magnetic order and enhanced magnetoelectric coupling in Lu-doped Sm ₂ BaCuO ₅ . <i>Ceramics International</i> , 2022 , 48, 10244-10250	5.1	1
456	Additive Engineering in Antisolvent for Widening the Processing Window and Promoting Perovskite Seed Formation in Perovskite Solar Cells.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	3
455	Superior energy storage of sandwiched PVDF films by separate introduction of core-shell Ag@BT nanoparticles and 2D MXene nanosheets. <i>Ceramics International</i> , 2022 ,	5.1	3
454	Controllable Coercive Field of Ferroelectric HfO ₂ Films via UV-Ozone Surface Modification. <i>IEEE Transactions on Electron Devices</i> , 2022 , 1-6	2.9	2
453	High-performance self-driven photodetectors based on self-polarized Bi _{0.9} Eu _{0.1} FeO ₃ / Nb-doped SrTiO ₃ p-n heterojunctions. <i>Journal of Alloys and Compounds</i> , 2022 , 165451	5.7	0
452	Controlled switching of the number of skyrmions in a magnetic nanodot by electric fields.. <i>Advanced Materials</i> , 2021 , e2107908	24	3
451	Electrocatalytic performance of ReS ₂ nanosheets in hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 2293-2293	6.7	0

450	Low-cost and efficient hole transport materials based on 9-phenyl-9H-carbazole branch for perovskite solar cells. <i>Surfaces and Interfaces</i> , 2021 , 28, 101598	4.1	0
449	Strain-mediated voltage-controlled magnetic double-vortex states in elliptical nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 547, 168729	2.8	0
448	The equivalence of thermodynamic potentials for ferroelectric thin films. <i>Journal of Applied Physics</i> , 2021 , 130, 144103	2.5	
447	Understanding the effect of antisolvent on processing window and efficiency for large-area flexible perovskite solar cells. <i>Materials Today Physics</i> , 2021 , 21, 100565	8	4
446	Coexistence of multiple morphotropic phase boundaries in strained La-doped BiFeO ₃ thin films. <i>Materials Today Physics</i> , 2021 , 17, 100345	8	2
445	Deviation from universal dielectric response in CaCu ₃ Ti ₄ O ₁₂ . <i>AIP Advances</i> , 2021 , 11, 035124	1.5	
444	Effect of nonmagnetic substituent Zn on the phase competition and multiferroic properties in the polar magnet Fe ₂ Mo ₃ O ₈ . <i>Applied Physics Letters</i> , 2021 , 118, 112901	3.4	1
443	Sr-doping effects on conductivity, charge transport, and ferroelectricity of Ba _{0.7} La _{0.3} TiO ₃ epitaxial thin films*. <i>Chinese Physics B</i> , 2021 , 30, 027701	1.2	
442	Magnetoelectric coupling in self-assembled BiFeO ₃ /CoFe ₂ O ₄ nanocomposites on (110)-LaAlO ₃ substrates. <i>APL Materials</i> , 2021 , 9, 041109	5.7	3
441	Flexible asymmetric supercapacitors based on NiCo ₂ O ₄ in a neutral electrolyte achieving 2.4V voltage window. <i>Journal of Alloys and Compounds</i> , 2021 , 860, 158346	5.7	10
440	Anisotropic spin-driven ferroelectricity and magnetoelectric effect in a Y-type hexaferrite. <i>Applied Physics Letters</i> , 2021 , 118, 142902	3.4	1
439	Strain engineering of epitaxial oxide heterostructures beyond substrate limitations. <i>Matter</i> , 2021 , 4, 1323-1334	12.7	12
438	Novel D-A-D type small-molecular hole transport materials for stable inverted perovskite solar cells. <i>Organic Electronics</i> , 2021 , 92, 106102	3.5	4
437	Tuning the large magnetoelectric coupling in Co ₄ Nb ₂ O ₉ with Mn substitution. <i>Ceramics International</i> , 2021 , 47, 14041-14047	5.1	0
436	An electroforming-free, analog interface-type memristor based on a SrFeO _x epitaxial heterojunction for neuromorphic computing. <i>Materials Today Physics</i> , 2021 , 18, 100392	8	12
435	4-Bromoaniline Passivation for Efficient and Stable All-Inorganic CsPbI ₂ Br Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5415-5423	6.1	3
434	Stability phase diagrams and tuning of magnetic skyrmionium and other states. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 526, 167706	2.8	2
433	High-performance complementary resistive switching in ferroelectric film. <i>AIP Advances</i> , 2021 , 11, 0652025		

432	High-La ₂ O ₃ as an anode modifier to reduce leakage current for efficient perovskite solar cells. <i>Surfaces and Interfaces</i> , 2021 , 24, 101102	4.1	1
431	A structural perspective on giant permittivity CaCu ₃ Ti ₄ O ₁₂ : One way to quantum dielectric physics in solids. <i>Open Ceramics</i> , 2021 , 6, 100126	3.3	2
430	Control of large linear magnetoelectricity in Co ₃ NiNb ₂ O ₉ . <i>Journal of Materiomics</i> , 2021 , 7, 810-814	6.7	1
429	Li-ion intercalation enhanced ferromagnetism in van der Waals Fe ₃ GeTe ₂ bilayer. <i>Applied Physics Letters</i> , 2021 , 119, 012405	3.4	5
428	Ultra-high piezoelectric coefficients and strain-sensitive Curie temperature in hydrogen-bonded systems. <i>National Science Review</i> , 2021 , 8, nwaa203	10.8	5
427	A flexible adhesive with a conductivity of 5240 S/cm. <i>Science Bulletin</i> , 2021 , 66, 657-660	10.6	0
426	Highly Reproducible Fabrication of Perovskite Films with an Ultrawide Antisolvent Dripping Window for Large-Scale Flexible Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2000646	7.1	8
425	Boosting the performance of low-temperature processed CsPbI ₂ Br planar perovskite solar cells by interface engineering. <i>Dyes and Pigments</i> , 2021 , 186, 109024	4.6	4
424	Simultaneously enhanced energy storage density and efficiency in novel BiFeO ₃ -based lead-free ceramic capacitors. <i>Journal of the European Ceramic Society</i> , 2021 , 41, 387-393	6	19
423	High-efficient smart windows enabled by self-forming fractal networks and electrophoresis of core-shell TiO ₂ @SiO ₂ particles. <i>Energy and Buildings</i> , 2021 , 232, 110657	7	2
422	Emergent strain engineering of multiferroic BiFeO ₃ thin films. <i>Journal of Materiomics</i> , 2021 , 7, 281-294	6.7	8
421	Wood-derived electrode supporting CVD-grown ReS ₂ for efficient and stable hydrogen production. <i>Journal of Materials Science</i> , 2021 , 56, 1551-1560	4.3	5
420	Epitaxial strain tunable conductivity and charge transport of Ba _{0.6} La _{0.4} TiO ₃ thin films deposited by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2021 , 129, 025106	2.5	
419	Metamagnetic transitions and magnetoelectricity in the spin-1 honeycomb antiferromagnet Ni ₂ Mo ₃ O ₈ . <i>Physical Review B</i> , 2021 , 103,	3.3	2
418	Pressure effects on the structures and electronic properties of halide perovskite CsPbX (X = I, Br, Cl). <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 3479-3484	3.6	1
417	Enhancement of electrical properties of solution-processed oxide thin film transistors using ZrO ₂ gate dielectrics deposited by an oxygen-doped solution. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 125101	3.1	2
416	Emerging phenomena from exotic ferroelectric topological states. <i>APL Materials</i> , 2021 , 9, 020907	5.7	5
415	Rapid Microwave-Assisted Synthesis of SnO ₂ Quantum Dots for Efficient Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 1887-1893	6.1	12

414	Quasi-one-dimensional metallic conduction channels in exotic ferroelectric topological defects. <i>Nature Communications</i> , 2021 , 12, 1306	17.4	12
413	Field-Free Manipulation of Skyrmion Creation and Annihilation by Tunable Strain Engineering. <i>Advanced Functional Materials</i> , 2021 , 31, 2008715	15.6	7
412	Realization of tunable artificial synapse through ambipolar charge trapping in organic transistor with pentacene/poly(β -methylstyrene) architecture. <i>Journal of Applied Physics</i> , 2021 , 129, 074903	2.5	0
411	Enhanced energy storage performance and thermal stability in relaxor ferroelectric (1-x)BiFeO ₃ -x(0.85BaTiO ₃ -0.15Bi(Sn _{0.5} Zn _{0.5})O ₃) ceramics. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 2646-2654	3.8	5
410	Giant Bulk Photostriction of Lead Halide Perovskite Single Crystals. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32263-32269	9.5	0
409	Improving stability and efficiency of perovskite solar cells via a cerotic acid interfacial layer. <i>Surfaces and Interfaces</i> , 2021 , 25, 101163	4.1	3
408	Extremely flat band in antiferroelectric bilayer Hn ₂ Se ₃ with large twist-angle. <i>New Journal of Physics</i> , 2021 , 23, 083019	2.9	1
407	Spontaneous Topological Magnetic Transitions in NdCo Rare-Earth Magnets. <i>Advanced Materials</i> , 2021 , 33, e2103751	24	4
406	Permittivity order modulation by intrinsic dielectric coupling. <i>AIP Advances</i> , 2021 , 11, 015354	1.5	0
405	Reversible Ionic Polarization in Metal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 283-289	3.89	2
404	Disorder-induced broadening of the spin waves in the triangular-lattice quantum spin liquid candidate YbZnGaO ₄ . <i>Physical Review B</i> , 2021 , 104,	3.3	1
403	Ultralow thermal conductivity of thermoelectric compound Ag ₂ BaGeSe ₄ . <i>AIP Advances</i> , 2021 , 11, 125320.5	2.5	0
402	Giant modulation of photoluminescence in CsPbBr ₃ films through polarization switching of PMN-PT. <i>Applied Physics Letters</i> , 2021 , 119, 252903	3.4	0
401	Suppression of vortex-antivortex structures by anti-trimer point defects in hexagonal manganites. <i>Journal of Applied Physics</i> , 2020 , 127, 194106	2.5	5
400	MnO ₂ -doping induced enhanced multiferroicity in Bi _{0.83} Sm _{0.17} Fe _{0.95} Sc _{0.05} O ₃ ceramics. <i>Applied Physics Letters</i> , 2020 , 116, 152901	3.4	4
399	Emergence of Ferroelectricity in Halide Perovskites. <i>Small Methods</i> , 2020 , 4, 2000149	12.8	37
398	Antiferromagnetism of Double Molybdate LiFe(MoO). <i>Inorganic Chemistry</i> , 2020 , 59, 8127-8133	5.1	5
397	Electro-opto-mechano driven reversible multi-state memory devices based on photocurrent in BiEuFeO/LaSrMnO/PMN-PT heterostructures.. <i>RSC Advances</i> , 2020 , 10, 15784-15793	3.7	1

396	Room-Temperature-Processed ZrO ₂ Interlayer toward Efficient Planar Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3328-3336	6.1	3
395	Structural, magnetic, and dielectric properties of charge-order phases in manganite La(Ca _{0.8} Sr _{0.2}) ₂ Mn ₂ O ₇ . <i>Journal of Applied Physics</i> , 2020 , 127, 104104	2.5	
394	Surface-Induced 2D/1D Heterostructured Growth of ReS/CoS for High-Performance Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33586-33594	9.5	12
393	Absence of piezoelectric enhancement around the morphotropic phase boundaries for Bi _{1-x} NdxFeO ₃ ceramics. <i>AIP Advances</i> , 2020 , 10, 065329	1.5	1
392	From Unipolar, WORM-Type to Ambipolar, Bistable Organic Electret Memory Device by Controlling Minority Lateral Transport. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901320	6.4	11
391	Oxygen incorporated solution-processed high- κ La ₂ O ₃ dielectrics with large-area uniformity, low leakage and high breakdown field comparable with ALD deposited films. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5163-5173	7.1	5
390	Hall voltage reversal and structural phase transition in VO ₂ thin films. <i>Applied Physics Letters</i> , 2020 , 116, 082106	3.4	1
389	Enhanced performance and stability of ambient-processed CH ₃ NH ₃ PbI _{3-x} (SCN) _x planar perovskite solar cells by introducing ammonium salts. <i>Applied Surface Science</i> , 2020 , 513, 145790	6.7	7
388	Nanoscale Phase Mixture and Multifield-Induced Topotactic Phase Transformation in SrFeO. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 21883-21893	9.5	6
387	The J = 1/2 Antiferromagnet Sr IrO ₃ : A Golden Avenue toward New Physics and Functions. <i>Advanced Materials</i> , 2020 , 32, e1904508	24	5
386	Research progress and prospects of photocatalytic devices with perovskite ferroelectric semiconductors. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 127706	0.6	3
385	Vertically conductive MoS ₂ pyramids with a high density of active edge sites for efficient hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3017-3022	7.1	6
384	Band structure, ferroelectric instability, and spin-orbital coupling effect of bilayer Hn ₂ Se ₃ . <i>Journal of Applied Physics</i> , 2020 , 128, 234106	2.5	3
383	Monte Carlo study on domain wall dynamics of J1J2 triangular spin system. <i>Journal of Applied Physics</i> , 2020 , 128, 224106	2.5	0
382	Complex center-type topological domain in ferroelectric nanoislands of rhombohedral Pb(Zr _{0.7} Ti _{0.3})O ₃ . <i>Journal of Applied Physics</i> , 2020 , 128, 224103	2.5	2
381	Presence of a purely tetragonal phase in ultrathin BiFeO ₃ films: Thermodynamics and phase-field simulations. <i>Acta Materialia</i> , 2020 , 183, 110-117	8.4	8
380	A review of flexible perovskite oxide ferroelectric films and their application. <i>Journal of Materiomics</i> , 2020 , 6, 1-16	6.7	69
379	Conductivity, charge transport, and ferroelectricity of La-doped BaTiO ₃ epitaxial thin films. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 025301	3	4

378	Room-temperature multiferroicity and diversified magnetoelectric couplings in 2D materials. <i>National Science Review</i> , 2020 , 7, 373-380	10.8	23
377	Ultrathin Co ₃ O ₄ nanosheet clusters anchored on nitrogen doped carbon nanotubes/3D graphene as binder-free cathodes for Al-air battery. <i>Chemical Engineering Journal</i> , 2020 , 381, 122681	14.7	29
376	Strain-tuned optical property in magnetoelectric LiFe ₅ O ₈ thin film. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153199	5.7	1
375	Quaternary compounds Ag ₂ XYSe ₄ (X = Ba, Sr; Y = Sn, Ge) as novel potential thermoelectric materials. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 115302	3	9
374	Low-Temperature-Processed WO _x as Electron Transfer Layer for Planar Perovskite Solar Cells Exceeding 20% Efficiency. <i>Solar Rrl</i> , 2020 , 4, 1900499	7.1	17
373	Dopant-free F-substituted benzodithiophene copolymer hole-transporting materials for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1858-1864	13	37
372	Domain structure and multiferroic properties of epitaxial hexagonal ErMnO ₃ films. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153529	5.7	0
371	An Artificial Optoelectronic Synapse Based on a Photoelectric Memcapacitor. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900858	6.4	33
370	Stable Triple Cation Perovskite Precursor for Highly Efficient Perovskite Solar Cells Enabled by Interaction with 18C6 Stabilizer. <i>Advanced Functional Materials</i> , 2020 , 30, 1908613	15.6	32
369	Strain effects on conductivity and charge transport in La-doped BaTiO ₃ thin films. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 075305	3	3
368	A Gd@C single-molecule electret. <i>Nature Nanotechnology</i> , 2020 , 15, 1019-1024	28.7	25
367	A Solution-Processed Dopant-Free Tin Phthalocyanine (SnPc) Hole Transport Layer for Efficient and Stable Carbon-Based CsPbI ₂ Br Planar Perovskite Solar Cells Prepared by a Low-Temperature Process. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7832-7843	6.1	19
366	Experimental observation of ferroelectricity in ferrimagnet MnCr ₂ S ₄ . <i>Applied Physics Letters</i> , 2020 , 117, 032903	3.4	2
365	Magnetism and spin exchange coupling in strained monolayer CrOCl. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 17255-17262	3.6	9
364	Fluorinated interfacial layers in perovskite solar cells: efficient enhancement of the fill factor. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16527-16533	13	8
363	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. <i>Nature Communications</i> , 2020 , 11, 3577	17.4	40
362	Enhanced Ferroelectric Properties and Insulator-Metal Transition-Induced Shift of Polarization-Voltage Hysteresis Loop in VO-Capped HfZrO Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40510-40517	9.5	11
361	Remarkable magnetoelectric effect in single crystals of honeycomb magnet Mn ₄ Nb ₂ O ₉ . <i>Applied Physics Letters</i> , 2020 , 117, 072903	3.4	3

360	Enhancing photoelectrochemical performance of the BiMoO photoanode by ferroelectric polarization regulation. <i>Nanoscale</i> , 2020 , 12, 18446-18454	7.7	9
359	Highly Controllable and Silicon-Compatible Ferroelectric Photovoltaic Synapses for Neuromorphic Computing. <i>IScience</i> , 2020 , 23, 101874	6.1	9
358	Strain-mediated electric manipulation of magnetic skyrmion and other topological states in geometric confined nanodiscs. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 014007	3	14
357	Nanoscale Topotactic Phase Transformation in SrFeO Epitaxial Thin Films for High-Density Resistive Switching Memory. <i>Advanced Materials</i> , 2019 , 31, e1903679	24	27
356	Absence of ferroelectricity in double-perovskite Y ₂ CoMnO ₆ single crystals. <i>Journal of Applied Physics</i> , 2019 , 126, 084102	2.5	0
355	Transparent, Flexible, Fatigue-Free, Optical-Read, and Nonvolatile Ferroelectric Memories. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35169-35176	9.5	21
354	Magnetism and hybrid improper ferroelectricity in LaMO/YMO superlattices. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 20132-20136	3.6	6
353	Enhanced photovoltaic efficiency and persisted photoresponse switchability in LaVO ₃ /Pb(Zr _{0.2} Ti _{0.8})O ₃ perovskite heterostructures. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12482-12490	7.1	3
352	Photovoltaic, photo-impedance, and photo-capacitance effects of the flexible (111) BiFeO ₃ film. <i>Applied Physics Letters</i> , 2019 , 115, 112902	3.4	19
351	An efficient multi-functional material based on polyether-substituted indolocarbazole for perovskite solar cells and solution-processed non-doped OLEDs. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1539-1547	13	31
350	Magnetic phase transition and multiferroic phase separation in Ho _{1-x} Gd _x MnO ₃ . <i>Ceramics International</i> , 2019 , 45, 8325-8332	5.1	4
349	High energy storage performances of Bi _{1-x} Sm _x Fe _{0.95} Sc _{0.05} O ₃ lead-free ceramics synthesized by rapid hot press sintering. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 2331-2338	6	49
348	A bio-inspired 3D quasi-fractal nanostructure for an improved oxygen evolution reaction. <i>Chemical Communications</i> , 2019 , 55, 357-360	5.8	2
347	A flexible memory with low-voltage and high-operation speed using an Al ₂ O ₃ /poly(β -methylstyrene) gate stack on a muscovite substrate. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1913-1918	7.1	13
346	Giant anisotropic magnetoresistance and nonvolatile memory in canted antiferromagnet SrIrO ₃ . <i>Nature Communications</i> , 2019 , 10, 2280	17.4	19
345	Oxygen vacancy mediated conductivity and charge transport properties of epitaxial Ba _{0.6} La _{0.4} TiO ₃ thin films. <i>Applied Physics Letters</i> , 2019 , 114, 202902	3.4	5
344	Direct growth of vertically aligned ReSe nanosheets on conductive electrode for electro-catalytic hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2019 , 553, 699-704	9.3	12
343	Effects of phase structure on up-conversion photoluminescence and dielectric performance in Er ³⁺ doped (Bi _{0.5} Na _{0.5})TiO ₃ -BaTiO ₃ lead-free ceramics. <i>Journal of Alloys and Compounds</i> , 2019 , 801, 619-625	5.7	5

342	Solvent-Assisted Low-Temperature Crystallization of SnO ₂ Electron-Transfer Layer for High-Efficiency Planar Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2019 , 29, 1900557	15.6	38
341	Manipulation of Conductive Domain Walls in Confined Ferroelectric Nanoislands. <i>Advanced Functional Materials</i> , 2019 , 29, 1807276	15.6	18
340	Geometric and anisotropy effects on voltage driven magnetic switching behaviors in nanoscale multiferroic heterostructure. <i>AIP Advances</i> , 2019 , 9, 045101	1.5	4
339	Stable, High-Sensitivity and Fast-Response Photodetectors Based on Lead-Free Cs ₂ AgBiBr ₆ Double Perovskite Films. <i>Advanced Optical Materials</i> , 2019 , 7, 1801732	8.1	77
338	Bioinspired High-Adhesion Metallic Networks as Flexible Transparent Conductors. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900056	6.8	7
337	Electric field driven multi-state magnetization switching in triangular nanomagnets on piezoelectric substrate. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 295802	1.8	3
336	Thinning ferroelectric films for high-efficiency photovoltaics based on the Schottky barrier effect. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	39
335	3D honeycomb NiCo ₂ S ₄ @ Ni(OH) ₂ nanosheets for flexible all-solid-state asymmetric supercapacitors with enhanced specific capacitance. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 693-702	5.7	14
334	Rational molecular passivation for high-performance perovskite light-emitting diodes. <i>Nature Photonics</i> , 2019 , 13, 418-424	33.9	638
333	Sodium bismuth dichalcogenides: candidates for ferroelectric high-mobility semiconductors for multifunctional applications. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 8553-8558	3.6	14
332	Unusual tunability of multiferroicity in GdMn ₂ O ₅ by electric field poling far above multiferroic ordering point. <i>Chinese Physics B</i> , 2019 , 28, 027502	1.2	2
331	Photocatalytic properties of a new Z-scheme system BaTiO/InS with a core-shell structure.. <i>RSC Advances</i> , 2019 , 9, 11377-11384	3.7	15
330	Controllable defect driven symmetry change and domain structure evolution in BiFeO with enhanced tetragonality. <i>Nanoscale</i> , 2019 , 11, 8110-8118	7.7	15
329	Depolarization-Field-Induced Retention Loss in Ferroelectric Diodes. <i>Physical Review Applied</i> , 2019 , 11,	4.3	7
328	Recyclable and Flexible Starch-Ag Networks and Its Application in Joint Sensor. <i>Nanoscale Research Letters</i> , 2019 , 14, 127	5	2
327	Lamellar NiMoCo@CuS enabling electrocatalytic activity and stability for hydrogen evolution. <i>Chemical Communications</i> , 2019 , 55, 10555-10558	5.8	4
326	The Ir ⁴⁺ substitution dependence of electric polarization as a probe of magnetic phase stability in multiferroic MnWO ₄ . <i>Journal of Applied Physics</i> , 2019 , 126, 064103	2.5	2
325	Multiferroics: a beautiful but challenging multi-polar world. <i>National Science Review</i> , 2019 , 6, 620	10.8	13

324	All-Inorganic Flexible BaSrTiO Thin Films with Excellent Dielectric Properties over a Wide Range of Frequencies. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27088-27097	9.5	16
323	Ultrafast depinning of domain walls in notched antiferromagnetic nanostructures. <i>Physical Review B</i> , 2019 , 100,	3.3	6
322	Single-phase multiferroics: new materials, phenomena, and physics. <i>National Science Review</i> , 2019 , 6, 653-668	10.8	65
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317	Collinear magnetic structure and multiferroicity in the polar magnet Co ₂ Mo ₃ O ₈ . <i>Physical Review B</i> , 2019 , 100,	3.3	17
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315	Thickness dependence of domain size in 2D ferroelectric CuInP ₂ S ₆ nanoflakes. <i>AIP Advances</i> , 2019 , 9, 115211	1.5	5
314	Cationic Vacancy Mediated Conductivity and Charge Transport in Non-Stoichiometric Epitaxial BaTi _{0.75} Nb _{0.25} O ₃ Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1900418	2.5	
313	Enhanced charge transport in ReSe-based 2D/3D electrodes for efficient hydrogen evolution reaction. <i>Chemical Communications</i> , 2019 , 56, 305-308	5.8	6
312	Efficient and carbon-based hole transport layer-free CsPbI ₂ Br planar perovskite solar cells using PMMA modification. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 3852-3861	7.1	70
311	Core-shell MoS ₂ @CoO Electrocatalyst for Water Splitting in Neutral and Alkaline Solutions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 5833-5839	3.8	24
310	Abnormal dependence of multiferroicity on high-temperature electro-poling in GdMn ₂ O ₅ . <i>Journal of Applied Physics</i> , 2019 , 126, 174104	2.5	3
309	Disorder-insensitivity of room-temperature giant permittivity in Ca _{4-3x} Cu _x Ti ₄ O ₁₂ (x = 3, 2 and 1) polycrystalline ceramics. <i>Journal of Applied Physics</i> , 2019 , 126, 224102	2.5	5
308	Quantitative estimation of inter-dipole interaction energy in giant-permittivity CaCu ₃ Ti ₄ O ₁₂ solid bulks. <i>AIP Advances</i> , 2019 , 9, 115108	1.5	1
307	Nondestructive Transfer Strategy for High-Efficiency Flexible Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47003-47007	9.5	10

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301	Recycling by-products in new small molecular electrochromic materials with ultra bistability. <i>Dyes and Pigments</i> , 2019 , 162, 697-703	4.6	3
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299	Ion Beam Defect Engineering on ReS ₂ /Si Photocathode with Significantly Enhanced Hydrogen Evolution Reaction. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801663	4.6	15
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297	Spin-Glass Ground State in a Triangular-Lattice Compound YbZnGaO ₄ . <i>Physical Review Letters</i> , 2018 , 120, 087201	7.4	72
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295	Polarization imprint effects on the photovoltaic effect in Pb(Zr,Ti)O ₃ thin films. <i>Applied Physics Letters</i> , 2018 , 112, 152905	3.4	16
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