

Chengliang Lu

List of Publications by Year in descending order

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42
papers

1,092
citations

394421

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42
all docs

42
docs citations

42
times ranked

1746
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-phase multiferroics: new materials, phenomena, and physics. National Science Review, 2019, 6, 653-668.	9.5	136
2	Multiferroic oxide thin films and heterostructures. Applied Physics Reviews, 2015, 2, .	11.3	131
3	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO ₃ thin films. Applied Physics Letters, 2011, 98, .	3.3	73
4	Crossover of conduction mechanism in Sr ₂ IrO ₄ epitaxial thin films. Applied Physics Letters, 2014, 105, .	3.3	59
5	Giant anisotropic magnetoresistance and nonvolatile memory in canted antiferromagnet Sr ₂ IrO ₄ . Nature Communications, 2019, 10, 2280.	12.8	55
6	Uniaxial Magnetic Anisotropy in La _{0.7} Sr _{0.3} MnO ₃ Thin Films Induced by Multiferroic BiFeO ₃ with Striped Ferroelectric Domains. Advanced Materials, 2010, 22, 4964-4968.	21.0	52
7	Understanding of metal-insulator transition in VO ₂ based on experimental and theoretical investigations of magnetic features. Scientific Reports, 2018, 8, 17093.	3.3	42
8	Polarization enhancement and ferroelectric switching enabled by interacting magnetic structures in DyMnO ₃ thin films. Scientific Reports, 2013, 3, 3374.	3.3	39
9	Revealing Controllable Anisotropic Magnetoresistance in Spin-Orbit Coupled Antiferromagnet Sr ₂ IrO ₄ . Advanced Functional Materials, 2018, 28, 1706589.	14.9	33
10	Novel multiferroicity in GdMnO ₃ thin films with self-assembled nano-twinned domains. Scientific Reports, 2014, 4, 7019.	3.3	31
11	DyMnO ₃ : A model system of type-II multiferroics. Journal of Materiomics, 2016, 2, 213-224.	5.7	31
12	Magnetic field induced ferroelectricity and half magnetization plateau in polycrystalline R ₂ V ₂ O ₇ (R=Ni,Co). Physical Review B, 2018, 98, .	3.2	31
13	High discharged energy density of nanocomposites filled with double-layered core-shell nanoparticles by reducing space charge polarization. Ceramics International, 2018, 44, 19330-19337.	4.8	31
14	Dual gate control of bulk transport and magnetism in the spin-orbit insulator $Sr_{2-x}Ir_{x}O_{4}$. Physical Review B, 2015, 91, .	3.2	27
15	Superconducting gap induced barrier enhancement in a BiFeO ₃ -based heterostructure. Applied Physics Letters, 2010, 97, .	3.3	24
16	The $J_{eff} = 1/2$ Antiferromagnet Sr ₂ IrO ₄ : A Golden Avenue toward New Physics and Functions. Advanced Materials, 2020, 32, e1904508.	21.0	24
17	Ru doping induced quantum paraelectricity in ferroelectric Sr _{0.9} Ba _{0.1} TiO ₃ . Applied Physics Letters, 2008, 92, 172912.	3.3	21
18	Ultra-low coercive field of improper ferroelectric Ca ₃ Ti ₂ O ₇ epitaxial thin films. Applied Physics Letters, 2017, 110, .	3.3	20

#	ARTICLE	IF	CITATIONS
19	Cycloidal magnetism driven ferroelectricity in double tungstate LiFe(WO ₄) ₂ . Physical Review B, 2017, 95, .	3.2	20
20	High magnetic field phase diagram in electron-doped manganites La _{0.4} Ca _{0.6} Mn _{1-y} CryO ₃ . Scientific Reports, 2014, 4, 4902.	3.3	19
21	Enhanced polarization and magnetoelectric response in Tb _{1-x} Ho _x MnO ₃ . Applied Physics A: Materials Science and Processing, 2010, 99, 323-331.	2.3	18
22	An investigation on magnetism, spin-phonon coupling, and ferroelectricity in multiferroic GdMn ₂ O ₅ . Applied Physics A: Materials Science and Processing, 2009, 96, 991-996.	2.3	17
23	Multiferroicity and Magnetoelectric Coupling in TbMnO ₃ Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 26603-26607.	8.0	17
24	Unusual magnetoelectric memory and polarization reversal in the kagome staircase compound $Ni_3Mn_2O_{10}$. Physical Review B, 2022, 105, .	3.2	17
25	Giant in-plane anisotropy in manganite thin films driven by strain-engineered double exchange interaction and electronic phase separation. Applied Physics Letters, 2011, 99, 122510.	3.3	14
26	Proton transfer ferroelectricity/multiferroicity in rutile oxyhydroxides. Nanoscale, 2018, 10, 9509-9515.	5.6	13
27	Successive electric polarization transitions induced by high magnetic field in the single-crystal antiferromagnet $Co_8Mn_2O_{13}$. Physical Review B, 2022, 105, .		
28	Metal-to-insulator transition and its effective manipulation studied from investigations in V ₁ -Nb ₂ O ₇ bulks. Ceramics International, 2018, 44, 2809-2813.	4.8	12
29	Continuous Magnetoelectric Control in Multiferroic DyMnO ₃ Films with Twin-like Domains. Scientific Reports, 2016, 6, 20175.	3.3	11
30	Interfacial effects revealed by ultrafast relaxation dynamics in $BiFeO_3/YBaCuO_2$ bilayers. Physical Review B, 2019, 100, .	3.2	7
31	Persistent large anomalous magnetoresistance and insulator-to-metal transition in Sr_2IrO_7 bilayers. Physical Review B, 2019, 100, .	3.8	7
32	Successive electric-polarization switches in the S=1/2 skew chain Co ₂ V ₂ O ₇ induced by a high magnetic field. Physical Review B, 2019, 100, .	3.2	7
33	A-site disorder effects in electron-doped manganite La _{0.4} Ca _{0.6} MnO ₃ . Applied Physics A: Materials Science and Processing, 2011, 103, 485-491.	2.3	6
34	Cooling field and temperature dependence on training effect in NiFe ₂ O ₄ -NiO nanogranular system. Journal of Applied Physics, 2011, 110, 103902.	2.5	6
35	MnO ₂ -doping induced enhanced multiferroicity in Bi _{0.83} Sm _{0.17} Fe _{0.95} Sc _{0.05} O ₃ ceramics. Applied Physics Letters, 2020, 116, .	3.3	6
36	Ferroelectric polarization reversal in multiferroic $MnWO_4$ via a rotating magnetic field up to 52 T. Physical Review B, 2021, 104, .	3.2	6

#	ARTICLE	IF	CITATIONS
37	The crucial role of Mn spiral spin order in stabilizing the Dy ²⁺ Mn exchange striction in multiferroic DyMnO ₃ . Physical Chemistry Chemical Physics, 2017, 19, 3706-3712.	2.8	5
38	Effect of nonmagnetic substituent Zn on the phase competition and multiferroic properties in the polar magnet Fe ₂ Mo ₃ O ₈ . Applied Physics Letters, 2021, 118, 112901.	3.3	5
39	Electric field driven phase transition and possible twinning quasi-tetragonal phase in compressively strained BiFeO ₃ thin films. Frontiers of Physics, 2012, 7, 424-428.	5.0	4
40	Dynamical transport behavior in electron-doped manganites La _{0.4} Ca _{0.6} (Mn _{1-x} Ru _x)O ₃ . Applied Physics A: Materials Science and Processing, 2010, 100, 1211-1215.	2.3	1
41	Absence of ferroelectricity in double-perovskite Y ₂ CoMnO ₆ single crystals. Journal of Applied Physics, 2019, 126, 084102.	2.5	1
42	Structural origin of the J _{eff} =1/2 antiferromagnetic phase in Ga-doped Sr ₂ IrO ₄ . Physical Review Materials, 2021, 5, .	2.4	0