

# Chengliang Lu

## List of Publications by Year in descending order

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42  
papers

1,092  
citations

394421

19  
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395702

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all docs

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docs citations

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times ranked

1746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Successive electric polarization transitions induced by high magnetic field in the single-crystal antiferromagnet $\text{Co}_2\text{O}_8$ . Physical Review B, 2022, 105, .	3.2	13
2	Effect of nonmagnetic substituent Zn on the phase competition and multiferroic properties in the polar magnet $\text{Fe}_2\text{Mo}_3\text{O}_8$ . Applied Physics Letters, 2021, 118, 112901.	3.3	5
3	Ferroelectric polarization reversal in multiferroic $\text{MnWO}_4$ via a rotating magnetic field up to 52 T. Physical Review B, 2021, 104, .	3.2	13
4	Structural origin of the $J_{\text{eff}}=1/2$ antiferromagnetic phase in Ga-doped $\text{Sr}_2\text{IrO}_4$ . Physical Review Materials, 2021, 5, .	2.4	0
5	The $J_{\text{eff}}=1/2$ Antiferromagnet $\text{Sr}_2\text{IrO}_4$ : A Golden Avenue toward New Physics and Functions. Advanced Materials, 2020, 32, e1904508.	21.0	24
6	$\text{MnO}_2$ -doping induced enhanced multiferroicity in $\text{Bi}_{0.83}\text{Sm}_{0.17}\text{Fe}_{0.95}\text{Sc}_{0.05}\text{O}_3$ ceramics. Applied Physics Letters, 2020, 116, .	3.3	6
7	Single-phase multiferroics: new materials, phenomena, and physics. National Science Review, 2019, 6, 653-668.	9.5	136
8	Successive electric-polarization switches in the $S=1/2$ skew chain $\text{Co}_2\text{V}_2\text{O}_7$ induced by a high magnetic field. Physical Review B, 2019, 100, .	3.2	7
9	Absence of ferroelectricity in double-perovskite $\text{Y}_2\text{CoMnO}_6$ single crystals. Journal of Applied Physics, 2019, 126, 084102.	2.5	1
10	Giant anisotropic magnetoresistance and nonvolatile memory in canted antiferromagnet $\text{Sr}_2\text{IrO}_4$ . Nature Communications, 2019, 10, 2280.	12.8	55
11	Revealing Controllable Anisotropic Magnetoresistance in Spin-Orbit Coupled Antiferromagnet $\text{Sr}_2\text{IrO}_4$ . Advanced Functional Materials, 2018, 28, 1706589.	14.9	33
12	Proton transfer ferroelectricity/multiferroicity in rutile oxyhydroxides. Nanoscale, 2018, 10, 9509-9515.	5.6	13
13	Metal-to-insulator transition and its effective manipulation studied from investigations in $\text{V}_1\text{-Nb}_2\text{O}_7$ bulks. Ceramics International, 2018, 44, 2809-2813.	4.8	12
14	Understanding of metal-insulator transition in $\text{VO}_2$ based on experimental and theoretical investigations of magnetic features. Scientific Reports, 2018, 8, 17093.	3.3	42
15	Magnetic field induced ferroelectricity and half magnetization plateau in polycrystalline $\text{R}_2\text{V}_2\text{O}_7$ ( $\text{R}=\text{Ni}, \text{Co}$ ). Physical Review B, 2018, 98, .	3.2	31
16	Unusual magnetoelectric memory and polarization reversal in the kagome staircase compound $\text{Ni}_3\text{V}_2\text{O}_7$ . Physical Review B, 2018, 98, .	3.2	17
17	Persistent large Anisotropic Magnetoresistance and Insulator-to-Metal Transition in Spin-Orbit-Coupled $\text{Sr}_2\text{IrO}_4$ . Physical Review Letters, 2018, 121, 077201.	3.8	7
18	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

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19	The crucial role of Mn spiral spin order in stabilizing the Dy <sup>4f</sup> -Mn exchange striction in multiferroic DyMnO <sub>3</sub> . Physical Chemistry Chemical Physics, 2017, 19, 3706-3712.	2.8	5
20	Ultra-low coercive field of improper ferroelectric Ca <sub>3</sub> Ti <sub>2</sub> O <sub>7</sub> epitaxial thin films. Applied Physics Letters, 2017, 110, .	3.3	20
21	Cycloidal magnetism driven ferroelectricity in double tungstate LiFe(WO <sub>4</sub> ) <sub>2</sub> . Physical Review B, 2017, 95, .	3.2	20
22	Continuous Magnetoelectric Control in Multiferroic DyMnO <sub>3</sub> Films with Twin-like Domains. Scientific Reports, 2016, 6, 20175.	3.3	11
23	Interfacial effects revealed by ultrafast relaxation dynamics in $\text{BiFeO}_3/\text{YBaCuO}_2/\text{BiFeO}_3/\text{CuO}$ bilayers. Physical Re	3.2	7
24	DyMnO <sub>3</sub> : A model system of type-II multiferroics. Journal of Materiomics, 2016, 2, 213-224.	5.7	31
25	Multiferroic oxide thin films and heterostructures. Applied Physics Reviews, 2015, 2, .	11.3	131
26	Dual gate control of bulk transport and magnetism in the spin-orbit insulator $\text{Sr}_2\text{IrO}_7$ . Physical Review B, 2015, 91, .	3.2	27
27	Multiferroicity and Magnetoelectric Coupling in TbMnO <sub>3</sub> Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 26603-26607.	8.0	17
28	Crossover of conduction mechanism in Sr <sub>2</sub> IrO <sub>4</sub> epitaxial thin films. Applied Physics Letters, 2014, 105, .	3.3	59
29	High magnetic field phase diagram in electron-doped manganites La <sub>0.4</sub> Ca <sub>0.6</sub> Mn <sub>1-y</sub> CryO <sub>3</sub> . Scientific Reports, 2014, 4, 4902.	3.3	19
30	Novel multiferroicity in GdMnO <sub>3</sub> thin films with self-assembled nano-twinning domains. Scientific Reports, 2014, 4, 7019.	3.3	31
31	Polarization enhancement and ferroelectric switching enabled by interacting magnetic structures in DyMnO <sub>3</sub> thin films. Scientific Reports, 2013, 3, 3374.	3.3	39
32	Electric field driven phase transition and possible twinning quasi-tetragonal phase in compressively strained BiFeO <sub>3</sub> thin films. Frontiers of Physics, 2012, 7, 424-428.	5.0	4
33	A-site disorder effects in electron-doped manganite La <sub>0.4</sub> Ca <sub>0.6</sub> MnO <sub>3</sub> . Applied Physics A: Materials Science and Processing, 2011, 103, 485-491.	2.3	6
34	Thickness-dependent magnetism and spin-glass behaviors in compressively strained BiFeO <sub>3</sub> thin films. Applied Physics Letters, 2011, 98, .	3.3	73
35	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
36	Cooling field and temperature dependence on training effect in NiFe <sub>2</sub> O <sub>4</sub> -NiO nanogranular system. Journal of Applied Physics, 2011, 110, 103902.	2.5	6

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37	Enhanced polarization and magnetoelectric response in $\text{Ho}_x\text{MnO}_3$ . Applied Physics A: Materials Science and Processing, 2010, 99, 323-331.	2.3	18
38	Dynamical transport behavior in electron-doped manganites $\text{La}_{0.4}\text{Ca}_{0.6}(\text{Mn}_{1-x}\text{Ru}_x)\text{O}_3$ . Applied Physics A: Materials Science and Processing, 2010, 100, 1211-1215.	2.3	1
39	Uniaxial Magnetic Anisotropy in $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ Thin Films Induced by Multiferroic $\text{BiFeO}_3$ with Striped Ferroelectric Domains. Advanced Materials, 2010, 22, 4964-4968.	21.0	52
40	Superconducting gap induced barrier enhancement in a $\text{BiFeO}_3$ -based heterostructure. Applied Physics Letters, 2010, 97, .	3.3	24
41	An investigation on magnetism, spin-phonon coupling, and ferroelectricity in multiferroic $\text{GdMn}_2\text{O}_5$ . Applied Physics A: Materials Science and Processing, 2009, 96, 991-996.	2.3	17
42	Ru doping induced quantum paraelectricity in ferroelectric $\text{Sr}_{0.9}\text{Ba}_{0.1}\text{TiO}_3$ . Applied Physics Letters, 2008, 92, 172912.	3.3	21