

Yalin Lu

List of Publications by Year in descending order

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70
papers

1,290
citations

430874

18
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361022

35
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all docs

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docs citations

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times ranked

1094
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiferroic properties of layer-structured Bi ₅ Fe _{0.5} Co _{0.5} Ti ₃ O ₁₅ ceramics. Applied Physics Letters, 2009, 95, .	3.3	212
2	Ferromagnetic, ferroelectric properties, and magneto-dielectric effect of Bi _{4.25} La _{0.75} Fe _{0.5} Co _{0.5} Ti ₃ O ₁₅ ceramics. Applied Physics Letters, 2013, 102, .	3.3	92
3	Visible light responsive Bi ₇ Fe ₃ Ti ₃ O ₂₁ nanoshelf photocatalysts with ferroelectricity and ferromagnetism. Journal of Materials Chemistry A, 2014, 2, 13366.	10.3	79
4	Low magnetic field response single-phase multiferroics under high temperature. Materials Horizons, 2015, 2, 232-236.	12.2	79
5	Fabrication and optical characterization of Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ planar thin film optical waveguides. Applied Physics Letters, 1998, 72, 2927-2929.	3.3	56
6	In-plane electro-optic anisotropy of (1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ -xPbTiO ₃ thin films grown on (100)-cut LaAlO ₃ . Applied Physics Letters, 1999, 74, 3764-3766.	3.3	55
7	Nanoscale structural modulation and enhanced room-temperature multiferroic properties. Nanoscale, 2014, 6, 13494-13500.	5.6	53
8	Synthesis of Ni-substituted Bi ₇ Fe ₃ Ti ₃ O ₂₁ ceramics and their superior room temperature multiferroic properties. RSC Advances, 2013, 3, 18567.	3.6	44
9	Effects of pre-deformation on the microstructures and corrosion behavior of 2219 aluminum alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 723, 204-211.	5.6	43
10	Effect of pre-deformation on the microstructures and properties of 2219 aluminum alloy during aging treatment. Journal of Alloys and Compounds, 2017, 699, 1140-1145.	5.5	40
11	Ferroelectric and ferromagnetic properties of Bi _{7-x} La _x Fe _{1.5} Co _{1.5} Ti ₃ O ₂₁ ceramics prepared by the hot-press method. Journal of Alloys and Compounds, 2014, 600, 168-171.	5.5	35
12	Plasmon-enhanced luminescence in Yb ³⁺ :Y ₂ O ₃ thin film and the potential for solar cell photon harvesting. Applied Physics Letters, 2009, 94, .	3.3	34
13	Influence of different synthesizing steps on the multiferroic properties of Bi ₅ Fe ₁ Ti ₃ O ₁₅ and Bi ₅ Fe _{0.5} Co _{0.5} Ti ₃ O ₁₅ ceramics. Journal of Materials Science, 2012, 47, 2960-2965.	3.7	29
14	Multifunctional Single-Phase Photocatalysts: Extended Near Infrared Photoactivity and Reliable Magnetic Recyclability. Scientific Reports, 2015, 5, 15511.	3.3	28
15	Structural Evolution and Multiferroics in Sr-Doped Bi ₇ Fe _{1.5} Co _{1.5} Ti ₃ O ₂₁ Ceramics. Journal of the American Ceramic Society, 2015, 98, 1528-1535.	3.8	27
16	Mechanical properties and microstructural response of 2A14 aluminum alloy subjected to multiple laser shock peening impacts. Vacuum, 2019, 165, 193-198.	3.5	25
17	Yttrium-modified Bi ₇ Fe _{1.5} Co _{1.5} Ti ₃ O ₂₁ ceramics with improved room temperature multiferroic properties. RSC Advances, 2014, 4, 29264.	3.6	19
18	Facile route to prepare grain-oriented multiferroic Bi ₇ Fe _{3-x} Co Ti ₃ O ₂₁ ceramics. Journal of the European Ceramic Society, 2015, 35, 3437-3443.	5.7	19

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19	Ferroelectric Polarization-Assisted Sensitive and High-Power Photodetector in Broad Ultraviolet-Visible Range. <i>Advanced Optical Materials</i> , 2017, 5, 1700158.	7.3	19
20	Interface engineering in epitaxial growth of layered oxides via a conducting layer insertion. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	18
21	Magnetocrystalline anisotropy in the Co/Fe codoped Aurivillius oxide with different perovskite layer number. <i>Journal of the American Ceramic Society</i> , 2018, 101, 2417-2427.	3.8	14
22	Characterization of a New Microstructure in a β -Solidifying TiAl Alloy after Air-Cooling from a β Phase Field and Subsequent Tempering. <i>Metals</i> , 2018, 8, 156.	2.3	14
23	Tunable morphology, bandgap, photocatalysis and magnetic properties of Bi ₆ Fe ₂ Ti ₃ O ₁₈ nanocrystals by doping cobalt ions. <i>Journal of Alloys and Compounds</i> , 2019, 799, 474-480.	5.5	14
24	Robust Ferroelectric Properties in (K,Na)NbO ₃ -Based Lead-Free Films via a Self-Assembled Nanocomposite Approach. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 4616-4624.	8.0	14
25	Growth of single-crystalline Bi ₆ FeCoTi ₃ O ₁₈ thin films and their magnetic-ferroelectric properties. <i>Applied Physics Express</i> , 2015, 8, 054001.	2.4	13
26	Determination of Thermal History by Photoluminescence of Core-Shell Quantum Dots Going Through Heating Events. <i>Particle and Particle Systems Characterization</i> , 2015, 32, 65-71.	2.3	13
27	Effects of cooling condition on microstructural evolution and mechanical properties of friction stir processed 2A14 aluminum alloy. <i>Materials Research Express</i> , 2019, 6, 126577.	1.6	13
28	Effect of layer number on ferromagnetic properties in aurivillius Bi ₄ B _n -3Fe _{n-3} Co _{0.2} Ti ₃ O _{3n+3} ceramics. <i>Materials Letters</i> , 2015, 139, 348-351.	2.6	12
29	Sonocatalysis of the magnetic recyclable layered perovskite oxides. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 260-267.	8.2	11
30	Platinum-induced structural collapse in layered oxide polycrystalline films. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	10
31	Intrinsic multiferroics in an individual single-crystalline Bi ₅ Fe _{0.9} Co _{0.1} Ti ₃ O ₁₅ nanoplate. <i>Nanoscale</i> , 2017, 9, 15291-15297.	5.6	10
32	Morphology control of layered Bi ₁₁ Fe _{2.8} Co _{0.2} Ti ₆ O ₃₃ microcrystals: critical role of NaOH concentration and citric acid. <i>CrystEngComm</i> , 2017, 19, 7001-7008.	2.6	10
33	Extended Near-Infrared Photoactivity of Bi ₆ Fe _{1.9} Co _{0.1} Ti ₃ O ₁₈ by Upconversion Nanoparticles. <i>Nanomaterials</i> , 2018, 8, 534.	4.1	10
34	The effect of Ca addition on microstructure and mechanical properties of extruded AZ31 alloys. <i>Vacuum</i> , 2019, 168, 108822.	3.5	10
35	Effect of Zn and Ca Addition on Microstructure and Strength at Room Temperature of As-Cast and As-Extruded Mg-Sn Alloys. <i>Materials</i> , 2018, 11, 1490.	2.9	9
36	Effect of Multi-pass Friction Stir Processing on Microstructures and Mechanical Behaviors of As-Cast 2A14 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 3033-3043.	2.5	9

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37	Ferromagnetic and ferroelectric properties of Aurivillius phase Bi ₉ Fe _{4.7} Me _{0.3} Ti ₃ O ₂₇ (Me = Fe, Co, Ni). <i>TJ ETQq1</i> 1.0.784314 rgBT /Ov	1.7	8
38	Influence of Homogenization on Microstructural Response and Mechanical Property of Al-Cu-Mn Alloy. <i>Materials</i> , 2018, 11, 914.	2.9	8
39	Microstructures, Mechanical and Corrosion Properties of the Extruded AZ31-xCaO Alloys. <i>Materials</i> , 2018, 11, 1467.	2.9	8
40	Microstructure and Element Distribution during Partial Remelting of an Al-4Cu-Mg alloy. <i>Journal of Materials Engineering and Performance</i> , 2008, 17, 25-29.	2.5	7
41	Distinguishing charge and strain coupling in ultrathin (001)-La _{0.7} Sr _{0.3} MnO ₃ /PMN-PT heterostructures. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	7
42	Structural, Magnetic and Ferroelectric Properties of Bi ₅ FeTi ₃ O ₁₅ and Bi ₅ Fe _{0.5} Co _{0.5} Ti ₃ O ₁₅ Ceramics. <i>Integrated Ferroelectrics</i> , 2012, 132, 16-21.	0.7	6
43	Effect of interface defects on the magnetoresistance in Bi ₄ Ti ₃ O ₁₂ /(La,Sr)Mn _{1-x} O ₃ heterostructures. <i>Journal of Materials Science</i> , 2018, 53, 9627-9634.	3.7	6
44	Anisotropic magnetoresistance and nonvolatile memory in superlattices of La _{2/3} Sr _{1/3} MnO ₃ and antiferromagnet Sr ₂ IrO ₄ . <i>Journal of Materials Science</i> , 2020, 55, 8211-8219.	3.7	6
45	Optical limiting in lead magnesium niobate-lead titanate multilayers. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	5
46	Deformation Behavior and Constitutive Equation Coupled the Grain Size of Semi-Solid Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 1337-1343.	2.5	5
47	Adding a thin metallic plasmonic layer to silicon thin film solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 843-845.	0.8	4
48	Effects of Laser Shock Peening on the Mechanical Behaviors and Microstructure of Friction Stir Processed 2A14 Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 239-247.	2.5	4
49	ELECTRO-OPTIC EFFECT IN RELAXOR FERROELECTRIC FILMS AND SUPERLATTICES. <i>Integrated Ferroelectrics</i> , 2006, 80, 29-37.	0.7	3
50	Combinatorial Screening of the BiDyYb Iron Garnet Material System for High Kerr Rotation Composition. <i>IEEE Transactions on Magnetics</i> , 2008, 44, 2091-2094.	2.1	3
51	Analytical and Experimental Investigations of Electromagnetic Field Enhancement Among Nanospheres With Varying Spacing. <i>Journal of Heat Transfer</i> , 2009, 131, .	2.1	3
52	Temperature-agile and structure-tunable optical properties of VO ₂ /Ag thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 109, 845-849.	2.3	3
53	Multiferroic properties of high Curie temperature Bi ₆ Fe _{1.4} Ni _{0.6} Ti ₃ O ₁₈ ceramics. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 075510.	1.5	3
54	Nanoporous gallium nitride square microtubes. <i>Journal of Materials Science</i> , 2013, 48, 7703-7707.	3.7	2

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55	Pyrochlore-free Ferroelectric $0.64\text{Pb}(\text{Ni})_{1/3}\text{Nb}_{2/3}\text{O}_3$ Ceramics Synthesized by the Combustion Method. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2130-2134.	3.8	2
56	Effects of Nano TiC Particles on Recrystallization and Mechanical Properties of Al-Zn-Mg-Cu Alloy. <i>Metals</i> , 2019, 9, 753.	2.3	2
57	BANDWIDTH ENGINEERING FOR EFFICIENT FREQUENCY DOUBLING OF HIGH POWER FIBER LASERS USING PERIODICALLY POLED KTP CRYSTALS. <i>Integrated Ferroelectrics</i> , 2007, 95, 158-167.	0.7	1
58	NEGATIVE REFRACTION OXIDE SUPERLATTICES. <i>Integrated Ferroelectrics</i> , 2009, 110, 123-130.	0.7	1
59	Manipulation of absorption in Si thin films with ordered nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 839-842.	0.8	1
60	FABRICATION AND CHARACTERIZATION OF PERIODICALLY POLED LITHIUM NIOBATE SINGLE CRYSTAL FIBERS. <i>Integrated Ferroelectrics</i> , 2007, 90, 53-62.	0.7	0
61	BANDWIDTH ENGINEERING FOR EFFICIENT FREQUENCY DOUBLING OF HIGH POWER FIBER LASERS USING PERIODICALLY POLED KTP CRYSTALS. <i>Integrated Ferroelectrics</i> , 2008, 98, 241-250.	0.7	0
62	TERAHERTZ FREQUENCY RANGE DIELECTRIC TUNABILITY OF $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-PbTiO}_3$ HETERO-PHASE SUPERLATTICES. <i>Integrated Ferroelectrics</i> , 2008, 97, 3-11.	0.7	0
63	NOVEL SLAB-COUPLED LiNbO_3 WAVEGUIDE FOR NONLINEAR OPTICAL APPLICATIONS. <i>Integrated Ferroelectrics</i> , 2008, 98, 147-155.	0.7	0
64	Progress in Domain-Engineered Photonics Materials. <i>Advances in OptoElectronics</i> , 2008, 2008, 1-2.	0.6	0
65	Negative Refraction Using Frequency-Tuned Oxide Multilayer Structure. <i>Advances in OptoElectronics</i> , 2008, 2008, 1-4.	0.6	0
66	NONLINEAR REFRACTION AND NONLINEAR SCATTERING IN HIGHLY ORIENTED LEAD MAGNESIUM NIOBATE-LEAD TITANATE MULTILAYERS. <i>Integrated Ferroelectrics</i> , 2009, 110, 115-122.	0.7	0
67	Structural Combinatorial Strategy for Advanced Nanotechnology Researches. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1190-1193.	0.9	0
68	Tunable transmission and enhanced emission in ordered metallic nanostructures having varying channel shape. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 597-605.	2.3	0
69	Hot Deformation Behavior of a Ti-40Al-10V Alloy with Quenching-Tempering Microstructure. <i>Materials</i> , 2018, 11, 872.	2.9	0
70	Disorder-driven ferromagnetic insulator phase in manganite heterostructures. <i>Ceramics International</i> , 2021, 48, 8374-8374.	4.8	0