Yalin Lu

List of Publications by Year
in descending order

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70 papers	1,290 citations	430874 18 h-index	361022 35 g-index
70 all docs	70 docs citations	70 times ranked	1094 citing authors

#	Article	IF	Citations
1	Effects of Laser Shock Peening on the Mechanical Behaviors and Microstructure of Friction Stir Processed 2A14 Aluminum Alloy. Journal of Materials Engineering and Performance, 2021, 30, 239-247.	2.5	4
2	Effect of Multi-pass Friction Stir Processing on Microstructures and Mechanical Behaviors of As-Cast 2A14 Aluminum Alloy. Journal of Materials Engineering and Performance, 2021, 30, 3033-3043.	2.5	9
3	Disorder-driven ferromagnetic insulator phase in manganite heterostructures. Ceramics International, 2021, 48, 8374-8374.	4.8	0
4	Robust Ferroelectric Properties in (K,Na)NbO₃-Based Lead-Free Films via a Self-Assembled Nanocomposite Approach. ACS Applied Materials & Interfaces, 2020, 12, 4616-4624.	8.0	14
5	Anisotropic magnetoresistance and nonvolatile memory in superlattices of La2/3Sr1/3MnO3 and antiferromagnet Sr2IrO4. Journal of Materials Science, 2020, 55, 8211-8219.	3.7	6
6	Effects of Nano TiC Particles on Recrystallization and Mechanical Properties of Al-Zn-Mg-Cu Alloy. Metals, 2019, 9, 753.	2.3	2
7	The effect of Ca addition on microstructure and mechanical properties of extruded AZ31 alloys. Vacuum, 2019, 168, 108822.	3.5	10
8	Effects of cooling condition on microstructural evolution and mechanical properties of friction stir processed 2A14 aluminum alloy. Materials Research Express, 2019, 6, 126577.	1.6	13
9	Multiferroic properties of high Curie temperature Bi₆Fe_{1.4}Ni_{0.6}Ti₃O₁₈ ceramics. Japanese Journal of Applied Physics, 2019, 58, 075510.	1.5	3
10	Tunable morphology, bandgap, photocatalysis and magnetic properties of Bi6Fe2Ti3O18 nanocrystals by doping cobalt ions. Journal of Alloys and Compounds, 2019, 799, 474-480.	5.5	14
11	Mechanical properties and microstructural response of 2A14 aluminum alloy subjected to multiple laser shock peening impacts. Vacuum, 2019, 165, 193-198.	3.5	25
12	Magnetocrystalline anisotropy in the Co/Fe codoped Aurivillius oxide with different perovskite layer number. Journal of the American Ceramic Society, 2018, 101, 2417-2427.	3.8	14
13	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
14	Effect of interface defects on the magnetoresistance in Bi4Ti3O12/(La,ÂSr)Mn1â^'xO3 heterostructures. Journal of Materials Science, 2018, 53, 9627-9634.	3.7	6
15	Distinguishing charge and strain coupling in ultrathin (001)-La0.7Sr0.3MnO3/PMN-PT heterostructures. Applied Physics Letters, 2018, 113, .	3.3	7
16	Influence of Homogenization on Microstructural Response and Mechanical Property of Al-Cu-Mn Alloy. Materials, 2018, 11, 914.	2.9	8
17	Microstructures, Mechanical and Corrosion Properties of the Extruded AZ31-xCaO Alloys. Materials, 2018, 11, 1467.	2.9	8
18	Effect of Zn and Ca Addition on Microstructure and Strength at Room Temperature of As-Cast and As-Extruded Mg-Sn Alloys. Materials, 2018, 11, 1490.	2.9	9

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19	Extended Near-Infrared Photoactivity of Bi6Fe1.9Co0.1Ti3O18 by Upconversion Nanoparticles. Nanomaterials, 2018, 8, 534.	4.1	10
20	Hot Deformation Behavior of a Ti-40Al-10V Alloy with Quenching-Tempering Microstructure. Materials, 2018, 11, 872.	2.9	0
21	Characterization of a New Microstructure in a Î²-Solidifying TiAl Alloy after Air-Cooling from a Î² Phase Field and Subsequent Tempering. Metals, 2018, 8, 156.	2.3	14
22	Sonocatalysis of the magnetic recyclable layered perovskite oxides. Ultrasonics Sonochemistry, 2018, 49, 260-267.	8.2	11
23	Ferroelectric Polarizationâ€Assisted Sensitive and Highâ€Power Photodetector in Broad Ultravioletâ€toâ€Visible Range. Advanced Optical Materials, 2017, 5, 1700158.	7.3	19
24	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
25	Intrinsic multiferroics in an individual single-crystalline Bi₅Fe_{0.9}Co_{0.1}Ti₃O₁₅ nanoplate. Nanoscale, 2017, 9, 15291-15297.	5.6	10
26	Morphology control of layered Bi₁₁Fe_{2.8}Co_{0.2}Ti₆O₃₃ microcrystals: critical role of NaOH concentration and citric acid. CrystEngComm, 2017, 19, 7001-7008.	2.6	10
27	Multifunctional Single-Phase Photocatalysts: Extended Near Infrared Photoactivity and Reliable Magnetic Recyclability. Scientific Reports, 2015, 5, 15511.	3.3	28
28	Structural Evolution and Multiferroics in Srâ€Doped Bi₇Fe_{1.5}Co_{1.5}Ti₃O₂₁ Ceramics. Journal of the American Ceramic Society, 2015, 98, 1528-1535.	3.8	27
29	Platinum-induced structural collapse in layered oxide polycrystalline films. Applied Physics Letters, 2015, 106, .	3.3	10
30	Facile route to prepare grain-oriented multiferroic Bi7Fe3â˜Co Ti3O21 ceramics. Journal of the European Ceramic Society, 2015, 35, 3437-3443.	5.7	19
31	Growth of single-crystalline Bi6FeCoTi3O18 thin films and their magneticâ€“ferroelectric properties. Applied Physics Express, 2015, 8, 054001.	2.4	13
32	Interface engineering in epitaxial growth of layered oxides via a conducting layer insertion. Applied Physics Letters, 2015, 107, .	3.3	18
33	Low magnetic field response single-phase multiferroics under high temperature. Materials Horizons, 2015, 2, 232-236.	12.2	79
34	Effect of layer number on ferromagnetic properties in aurivillius Bi4Bin-3Fen-3.2Co0.2Ti3O3n+3 ceramics. Materials Letters, 2015, 139, 348-351.	2.6	12
35	Determination of Thermal History by Photoluminescence of Coreâ€Shelled Quantum Dots Going Through Heating Events. Particle and Particle Systems Characterization, 2015, 32, 65-71.	2.3	13
36	Pyrochloreâ€Free Ferroelectric 0.64<scp><scp>Pb</scp></scp>(<scp><scp>Ni</scp></scp>_{1/3}<scp><scp>Nb</scp></scp>_{2/3})<scp><scp> Ceramics Synthesized by the Combustion Method. Journal of the American Ceramic Society, 2014, 97, 2130-2134.	3.8	2

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37	Ferromagnetic and ferroelectric properties of Aurivillius phase Bi9Fe4.7Me0.3Ti3O27 (MeÂ=ÂFe, Co, Ni,) Tj ETQq1 1 0.784314 rgBT /O	1.7	8
38	Yttrium-modified Bi₇Fe_{1.5}Co_{1.5}Ti₃O₂₁ceramics with improved room temperature multiferroic properties. RSC Advances, 2014, 4, 29264.	3.6	19
39	Visible light responsive Bi₇Fe₃Ti₃O₂₁nanoshelf photocatalysts with ferroelectricity and ferromagnetism. Journal of Materials Chemistry A, 2014, 2, 13366.	10.3	79
40	Nanoscale structural modulation and enhanced room-temperature multiferroic properties. Nanoscale, 2014, 6, 13494-13500.	5.6	53
41	Ferroelectric and ferromagnetic properties of Bi7â''xLaxFe1.5Co1.5Ti3O21 ceramics prepared by the hot-press method. Journal of Alloys and Compounds, 2014, 600, 168-171.	5.5	35
42	Nanoporous gallium nitride square microtubes. Journal of Materials Science, 2013, 48, 7703-7707.	3.7	2
43	Synthesis of Ni-substituted Bi7Fe3Ti3O21 ceramics and their superior room temperature multiferroic properties. RSC Advances, 2013, 3, 18567.	3.6	44
44	Ferromagnetic, ferroelectric properties, and magneto-dielectric effect of Bi4.25La0.75Fe0.5Co0.5Ti3O15 ceramics. Applied Physics Letters, 2013, 102, .	3.3	92
45	Temperature-agile and structure-tunable optical properties of VO2/Ag thin films. Applied Physics A: Materials Science and Processing, 2012, 109, 845-849.	2.3	3
46	Structural, Magnetic and Ferroelectric Properties of Bi5FeTi3O15 and Bi5Fe0.5Co0.5Ti3O15 Ceramics. Integrated Ferroelectrics, 2012, 132, 16-21.	0.7	6
47	Influence of different synthesizing steps on the multiferroic properties of Bi5Fe1Ti3O15 and Bi5Fe0.5Co0.5Ti3O15 ceramics. Journal of Materials Science, 2012, 47, 2960-2965.	3.7	29
48	Tunable transmission and enhanced emission in ordered metallic nanostructures having varying channel shape. Applied Physics A: Materials Science and Processing, 2011, 103, 597-605.	2.3	0
49	Manipulation of absorption in Si thin films with ordered nanostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 839-842.	0.8	1
50	Adding a thin metallic plasmonic layer to silicon thin film solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 843-845.	0.8	4
51	Deformation Behavior and Constitutive Equation Coupled the Grain Size of Semi-Solid Aluminum Alloy. Journal of Materials Engineering and Performance, 2010, 19, 1337-1343.	2.5	5
52	Plasmon-enhanced luminescence in Yb3+:Y2O3 thin film and the potential for solar cell photon harvesting. Applied Physics Letters, 2009, 94, .	3.3	34
53	Analytical and Experimental Investigations of Electromagnetic Field Enhancement Among Nanospheres With Varying Spacing. Journal of Heat Transfer, 2009, 131, .	2.1	3
54	NEGATIVE REFRACTION OXIDE SUPERLATTICES. Integrated Ferroelectrics, 2009, 110, 123-130.	0.7	1

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55	NONLINEAR REFRACTION AND NONLINEAR SCATTERING IN HIGHLY ORIENTED LEAD MAGNESIUM NIOBATE-LEAD TITANATE MULTILAYERS. Integrated Ferroelectrics, 2009, 110, 115-122.	0.7	0
56	Multiferroic properties of layer-structured Bi5Fe0.5Co0.5Ti3O15 ceramics. Applied Physics Letters, 2009, 95, .	3.3	212
57	Structural Combinatorial Strategy for Advanced Nanotechnology Researches. Journal of Nanoscience and Nanotechnology, 2009, 9, 1190-1193.	0.9	0
58	Microstructure and Element Distribution during Partial Remelting of an Al-4Cu-Mg alloy. Journal of Materials Engineering and Performance, 2008, 17, 25-29.	2.5	7
59	Combinatorial Screening of the BiDyYb Iron Garnet Material System for High Kerr Rotation Composition. IEEE Transactions on Magnetics, 2008, 44, 2091-2094.	2.1	3
60	BANDWIDTH ENGINEERING FOR EFFICIENT FREQUENCY DOUBLING OF HIGH POWER FIBER LASERS USING PERIODICALLY POLED KTP CRYSTALS. Integrated Ferroelectrics, 2008, 98, 241-250.	0.7	0
61	TERAHERTZ FREQUENCY RANGE DIELECTRIC TUNABILITY OF Pb(Mg1/3Nb2/3)O3-PbTiO3 HETERO-PHASE SUPERLATTICES. Integrated Ferroelectrics, 2008, 97, 3-11.	0.7	0
62	NOVEL SLAB-COUPLED LiNbO₃ WAVEGUIDE FOR NONLINEAR OPTICAL APPLICATIONS. Integrated Ferroelectrics, 2008, 98, 147-155.	0.7	0
63	Optical limiting in lead magnesium niobateâ€“lead titanate multilayers. Applied Physics Letters, 2008, 92, .	3.3	5
64	Progress in Domain-Engineered Photonics Materials. Advances in OptoElectronics, 2008, 2008, 1-2.	0.6	0
65	Negative Refraction Using Frequency-Tuned Oxide Multilayer Structure. Advances in OptoElectronics, 2008, 2008, 1-4.	0.6	0
66	FABRICATION AND CHARACTERIZATION OF PERIODICALLY POLED LITHIUM NIOBATE SINGLE CRYSTAL FIBERS. Integrated Ferroelectrics, 2007, 90, 53-62.	0.7	0
67	BANDWIDTH ENGINEERING FOR EFFICIENT FREQUENCY DOUBLING OF HIGH POWER FIBER LASERS USING PERIODICALLY POLED KTP CRYSTALS. Integrated Ferroelectrics, 2007, 95, 158-167.	0.7	1
68	ELECTRO-OPTIC EFFECT IN RELAXOR FERROELECTRIC FILMS AND SUPERLATTICES. Integrated Ferroelectrics, 2006, 80, 29-37.	0.7	3
69	In-plane electro-optic anisotropy of (1âˆ'x)Pb(Mg1/3Nb2/3)O3â€“xPbTiO3 thin films grown on (100)-cut LaAlO3. Applied Physics Letters, 1999, 74, 3764-3766.	3.3	55
70	Fabrication and optical characterization of Pb(Mg1/3Nb2/3)O3-PbTiO3 planar thin film optical waveguides. Applied Physics Letters, 1998, 72, 2927-2929.	3.3	56