

# Liang Fang

## List of Publications by Year in descending order

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76  
papers

4,025  
citations

147566

31  
h-index

118652

62  
g-index

78  
all docs

78  
docs citations

78  
times ranked

5744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-Based Materials for Hydrogen Generation from Light-Driven Water Splitting. <i>Advanced Materials</i> , 2013, 25, 3820-3839.	11.1	704
2	Enhanced Photocatalytic Activity and Ferromagnetism in Gd Doped BiFeO <sub>3</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21390-21396.	1.5	353
3	High-Efficiency Ferroelectric-Film Solar Cells with an n-type Cu <sub>2</sub> O Cathode Buffer Layer. <i>Nano Letters</i> , 2012, 12, 2803-2809.	4.5	193
4	Enhancing ferroelectric photovoltaic effect by polar order engineering. <i>Science Advances</i> , 2018, 4, eaat3438.	4.7	152
5	Inverse opal structured Ag/TiO <sub>2</sub> plasmonic photocatalyst prepared by pulsed current deposition and its enhanced visible light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 824-832.	5.2	133
6	Enhancement of magnetization in Eu doped BiFeO <sub>3</sub> nanoparticles. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	116
7	Experimental and theoretical evidence of enhanced ferromagnetism in sonochemical synthesized BiFeO <sub>3</sub> nanoparticles. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	113
8	Effects of postanneal conditions on the dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films prepared on Pt/Ti/SiO <sub>2</sub> /Si substrates. <i>Journal of Applied Physics</i> , 2004, 95, 6483-6485.	1.1	96
9	Efficient and Stable Silicon Photocathodes Coated with Vertically Standing Nano-MoS <sub>2</sub> Films for Solar Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6123-6129.	4.0	96
10	Above 1% efficiency of a ferroelectric solar cell based on the Pb(Zr,Ti)O <sub>3</sub> film. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1363-1368.	5.2	94
11	Magnetically separable BiFeO <sub>3</sub> nanoparticles with a <sup>57</sup> Fe <sub>2</sub> O <sub>3</sub> parasitic phase: controlled fabrication and enhanced visible-light photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2011, 21, 18645.	6.7	88
12	Pr <sup>3+</sup> photoluminescence in ferroelectric (Ba <sub>0.77</sub> Ca <sub>0.23</sub> )TiO <sub>3</sub> ceramics: Sensitive to polarization and phase transitions. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	86
13	Separation of the Schottky barrier and polarization effects on the photocurrent of Pt sandwiched Pb(Zr <sub>0.20</sub> Ti <sub>0.80</sub> )O <sub>3</sub> films. <i>Applied Physics Letters</i> , 2008, 93, 172101.	1.5	85
14	Sol-Gel Synthesis and Photo-Fenton-Like Catalytic Activity of EuFeO <sub>3</sub> Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3418-3424.	1.9	85
15	Deposition and dielectric properties of CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films on Pt/Ti/SiO <sub>2</sub> /Si substrates using pulsed-laser deposition. <i>Thin Solid Films</i> , 2003, 440, 60-65.	0.8	76
16	Switchable photovoltaic response from polarization modulated interfaces in BiFeO <sub>3</sub> thin films. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	76
17	Carbon quantum dots coated BiVO <sub>4</sub> inverse opals for enhanced photoelectrochemical hydrogen generation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	64
18	Enhanced ferroelectric photoelectrochemical properties of polycrystalline BiFeO <sub>3</sub> film by decorating with Ag nanoparticles. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	64

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19	More than 10% efficiency and one-week stability of Si photocathodes for water splitting by manipulating the loading of the Pt catalyst and TiO <sub>2</sub> protective layer. Journal of Materials Chemistry A, 2017, 5, 18744-18751.	5.2	61
20	Stable and efficient multi-crystalline n+p silicon photocathode for H <sub>2</sub> production with pyramid-like surface nanostructure and thin Al <sub>2</sub> O <sub>3</sub> protective layer. Applied Physics Letters, 2015, 106, .	1.5	60
21	The electrode/sample contact effects on the dielectric properties of the CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramic. Materials Letters, 2005, 59, 3990-3993.	1.3	59
22	Copper nanoparticles with near-unity, omnidirectional, and broadband optical absorption for highly efficient solar steam generation. Nanotechnology, 2019, 30, 015402.	1.3	59
23	Effects of Eu substituting positions and concentrations on luminescent, dielectric, and magnetic properties of SrTiO <sub>3</sub> ceramics. Applied Physics Letters, 2009, 94, .	1.5	50
24	Characterization and visible light photocatalytic mechanism of size-controlled BiFeO <sub>3</sub> nanoparticles. Materials Research Bulletin, 2013, 48, 3017-3024.	2.7	49
25	Enhanced Photoelectrochemical Performance in Reduced Graphene Oxide/BiFeO <sub>3</sub> Heterostructures. Small, 2017, 13, 1603457.	5.2	46
26	Reduced dielectric loss and leakage current in CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /SiO <sub>2</sub> /CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> multilayered films. Solid State Communications, 2006, 137, 381-386.	0.9	45
27	Photocathodic behavior of ferroelectric Pb(Zr,Ti)O <sub>3</sub> films decorated with silver nanoparticles. Chemical Communications, 2013, 49, 3769.	2.2	40
28	Experimental and Theoretical Evidence of Enhanced Visible Light Photoelectrochemical and Photocatalytic Properties in MoS <sub>2</sub> /TiO <sub>2</sub> Nanohole Arrays. Journal of Physical Chemistry C, 2018, 122, 15055-15062.	1.5	40
29	Dielectric responses and multirelaxation behaviors of pure and doped CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> ceramics. Journal of Applied Physics, 2008, 104, .	1.1	39
30	Interface effect on the photocurrent: A comparative study on Pt sandwiched (Bi <sub>3.7</sub> Nd <sub>0.3</sub> )Ti <sub>3</sub> O <sub>12</sub> and Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> films. Applied Physics Letters, 2010, 96, .	1.5	39
31	Enhanced photocurrent in Pb(Zr <sub>0.2</sub> Ti <sub>0.8</sub> )O <sub>3</sub> ferroelectric film by artificially introducing asymmetrical interface Schottky barriers. Materials Chemistry and Physics, 2012, 135, 304-308.	2.0	35
32	Interface layer thickness effect on the photocurrent of Pt sandwiched polycrystalline ferroelectric Pb(Zr,Ti)O <sub>3</sub> films. Applied Physics Letters, 2010, 97, .	1.5	31
33	Photovoltaic property of domain engineered epitaxial BiFeO <sub>3</sub> films. Applied Physics Letters, 2014, 105, .	1.5	31
34	Effect of oxygen vacancies on the red emission of SrTiO <sub>3</sub> :Pr <sup>3+</sup> phosphor films. Applied Physics Letters, 2009, 94, .	1.5	30
35	Enhanced photoelectrochemical and photocatalytic activity in visible-light-driven Ag/BiVO <sub>4</sub> inverse opals. Applied Physics Letters, 2016, 108, .	1.5	30
36	Understanding the nature of remnant polarization enhancement, coercive voltage offset and time-dependent photocurrent in ferroelectric films irradiated by ultraviolet light. Journal of Materials Chemistry, 2012, 22, 12592.	6.7	29

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37	Effect of lanthanum doping on tetragonal-like $\text{BiFeO}_3$ with mixed-phase domain structures. <i>Physical Review B</i> , 2014, 90, .	1.1	28
38	Efficient and stable $\text{MoS}_2$ catalyst integrated on Si photocathodes by photoreduction and post-annealing for water splitting. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	28
39	Complementary etching behavior of alkali, metal-catalyzed chemical, and post-etching of multicrystalline silicon wafers. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 511-519.	4.4	27
40	Space charge effect on the photocurrent of Pt-sandwiched $\text{Pb}(\text{Zr}_{0.20}\text{Ti}_{0.80})\text{O}_3$ film capacitors. <i>Journal of Applied Physics</i> , 2009, 106, 113705.	1.1	26
41	Photovoltaic, photo-impedance, and photo-capacitance effects of the flexible (111) $\text{BiFeO}_3$ film. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	26
42	Effect of tartaric acid on the microstructure and photoluminescence of $\text{SrTiO}_3:\text{Pr}^{3+}$ phosphors prepared by a sol-gel method. <i>Materials Chemistry and Physics</i> , 2010, 123, 284-288.	2.0	23
43	Effect of double-sided $\text{CaTiO}_3$ buffer layers on the electrical properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ films on $\text{Pt}/\text{Ti}/\text{SiO}_2/\text{Si}$ substrates. <i>Journal of Applied Physics</i> , 2006, 100, 104101.	1.1	22
44	Photovoltaic enhancement due to surface-plasmon assisted visible-light absorption at the interfacial surface of lead zirconate titanate film. <i>Nanoscale</i> , 2014, 6, 2915-2921.	2.8	22
45	Effect of charge compensation on the photoelectrochemical properties of Ho-doped $\text{SrTiO}_3$ films. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	21
46	Nano-Au and Ferroelectric Polarization Mediated $\text{Si}/\text{ITO}/\text{BiFeO}_3$ Tandem Photocathode for Efficient $\text{H}_2$ Production. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600485.	1.9	21
47	The effect of $\text{SiO}_2$ barrier layer on the dielectric properties of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ films. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 4236-4240.	1.3	20
48	Effect of Ca deficiencies on the photoluminescence of $\text{CaTiO}_3:\text{Pr}^{3+}$ . <i>Journal of Alloys and Compounds</i> , 2009, 474, 330-333.	2.8	19
49	Polarization effect on the photocurrent of Pt sandwiched multi-crystalline ferroelectric films. <i>Materials Chemistry and Physics</i> , 2011, 129, 783-786.	2.0	19
50	Enhanced photocatalytic and photoelectrochemical performance of $\text{g-C}_3\text{N}_4/\text{BiVO}_4$ heterojunction: A combined experimental and theoretical study. <i>AIP Advances</i> , 2019, 9, .	0.6	19
51	Dual role of $\text{TiO}_2$ buffer layer in Pt catalyzed $\text{BiFeO}_3$ photocathodes: Efficiency enhancement and surface protection. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	18
52	Fe(III) doped and grafted $\text{PbTiO}_3$ film photocathode with enhanced photoactivity for hydrogen production. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	17
53	Pre-texturing multi-crystalline silicon wafer via a two-step alkali etching method to achieve efficient nanostructured solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 121-127.	3.0	16
54	The photocathodic properties of a $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ wrapped $\text{CaFe}_2\text{O}_4$ layer on ITO coated quartz for water splitting. <i>Chemical Communications</i> , 2014, 50, 6346-6348.	2.2	15

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55	Enhanced photoelectrochemical water splitting of BiVO <sub>4</sub> photonic crystal photoanode by decorating with MoS <sub>2</sub> nanosheets. Applied Physics Letters, 2018, 112, .	1.5	15
56	Structural, electrical, luminescent, and magnetic properties of Ba <sub>0.77</sub> Ca <sub>0.23</sub> TiO <sub>3</sub> :Eu ceramics. Materials Chemistry and Physics, 2009, 118, 484-489.	2.0	14
57	Enhanced photocathodic behaviors of Pb(Zr <sub>0.20</sub> Ti <sub>0.80</sub> )O <sub>3</sub> films on Si substrates for hydrogen production. Applied Physics Letters, 2015, 106, .	1.5	14
58	Enhanced photoelectrochemical properties of copper-assisted catalyzed etching black silicon by electrodepositing cobalt. Applied Physics Letters, 2017, 111, .	1.5	14
59	Composition dependence of the photochemical reduction of Ag <sup>+</sup> by as-grown Pb(Zr <sub>x</sub> Ti <sub>1-x</sub> )O <sub>3</sub> films on indium tin oxide electrode. Applied Physics Letters, 2013, 103, .	1.5	13
60	Enhanced photoelectrochemical performance in BiFeO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> p-n heterojunction photocathodes with ferroelectric polarization. Journal of Applied Physics, 2020, 128, .	1.1	13
61	Synthesis of TiO <sub>2</sub> /Pt/TiO <sub>2</sub> multilayer films via radio frequency magnetron sputtering and their enhanced photocatalytic activity. Thin Solid Films, 2012, 520, 5727-5732.	0.8	12
62	(K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> Bi(Mg <sub>0.5</sub> Ti <sub>0.5</sub> )O <sub>3</sub> solid solution: phase evolution, microstructure and electrical properties. Journal of Materials Science: Materials in Electronics, 2013, 24, 4346-4350.	1.1	12
63	Improved photocathodic performance in Pt catalyzed ferroelectric BiFeO <sub>3</sub> films sandwiched by a porous carbon layer. Chemical Communications, 2017, 53, 7052-7055.	2.2	11
64	Enhanced Photoelectrochemical Performance by Interface Engineering in Ternary g-C <sub>3</sub> N <sub>4</sub> /TiO <sub>2</sub> /PbTiO <sub>3</sub> Films. Advanced Materials Interfaces, 2020, 7, 2000185.	1.9	11
65	Effect of laser fluence on the microstructure and dielectric properties of pulsed laser-deposited CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> thin films. Journal of Crystal Growth, 2008, 310, 3470-3473.	0.7	10
66	Enhanced visible light photocatalytic properties of TiO <sub>2</sub> thin films on the textured multicrystalline silicon wafers. Journal of Materials Chemistry A, 2015, 3, 4903-4908.	5.2	10
67	EFFECTS OF Eu-DOPING SITE ON STRUCTURAL AND PHOTOLUMINESCENT PROPERTIES OF CaTiO <sub>3</sub> PARTICLES. Journal of Advanced Dielectrics, 2011, 01, 215-221.	1.5	8
68	Large enhancement of photoluminescence in SrTiO <sub>3</sub> :Pr <sup>3+</sup> powders by fluorhydric acid treatment. Journal of Luminescence, 2010, 130, 1349-1352.	1.5	6
69	Combined experimental and theoretical study of the low temperature dielectric and magnetic properties of trivalent Eu ion doped SrTiO <sub>3</sub> ceramics. Journal of Applied Physics, 2012, 111, .	1.1	5
70	Efficient hydrothermal growth of high-performance MoS <sub>2</sub> /pyramid-Si photocathodes by surface hydrophilicity engineering. Applied Physics Letters, 2021, 118, .	1.5	4
71	Enhancing power conversion efficiency of multicrystalline silicon solar cells by plasmonic effect of Ag nanoparticles embedded in SiN <sub>x</sub> layer. AIP Advances, 2019, 9, .	0.6	3
72	Self-Regulated Chemical Substitution in a Highly Strained Perovskite Oxide. Advanced Functional Materials, 2022, 32, .	7.8	3

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73	Anomalous dielectric properties in (BaSr)TiO <sub>3</sub> films fabricated by pulsed-laser deposition in N <sub>2</sub> atmosphere. Solid State Communications, 2005, 135, 707-710.	0.9	2
74	Effect of polarization rotation on the optical and photovoltaic properties of BiFeO <sub>3</sub> thin films. Journal of Physics Condensed Matter, 2021, 33, 354002.	0.7	2
75	Understanding improved photoelectrochemical performance in Ba <sub>x</sub> Sr <sub>1-x</sub> TiO <sub>3</sub> /TiO <sub>2</sub> rod@shell nanostructures. AIP Advances, 2021, 11, .	0.6	1
76	Efficient photocatalytic degradation by a silicon solar cell module with two Schottky junction TiO <sub>2</sub> /Ti electrodes. Applied Physics Letters, 2018, 112, 063905.	1.5	0