Liang Fang

List of Publications by Year
in descending order

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76	4,025	147566	118652
papers	citations	31	62
		h-index	g-index

78	78	78	5744
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selfâ€Regulated Chemical Substitution in a Highly Strained Perovskite Oxide. Advanced Functional Materials, 2022, 32, .	7.8	3
2	Efficient hydrothermal growth of high-performance MoS2/pyramid-Si photocathodes by surface hydrophilicity engineering. Applied Physics Letters, 2021, 118, .	1.5	4
3	Effect of polarization rotation on the optical and photovoltaic properties of BiFeO3 thin films. Journal of Physics Condensed Matter, 2021, 33, 354002.	0.7	2
4	Understanding improved photoelectrochemical performance in BaxSr1â^'xTiO3/TiO2 rodâ€"shell nanostructures. AIP Advances, 2021, 11, .	0.6	1
5	Enhanced photoelectrochemical performance in BiFeO3/g-C3N4 pâ€"n heterojunction photocathodes with ferroelectric polarization. Journal of Applied Physics, 2020, 128, .	1.1	13
6	Enhanced Photoelectrochemical Performance by Interface Engineering in Ternary gâ€€₃N₄/TiO₂/PbTiO₃ Films. Advanced Materials Interfaces, 2020, 7, 2000185.	1.9	11
7	Enhanced photocatalytic and photoelectrochemical performance of g-C3N4/BiVO4 heterojunction: A combined experimental and theoretical study. AIP Advances, 2019, 9, .	0.6	19
8	Photovoltaic, photo-impedance, and photo-capacitance effects of the flexible (111) BiFeO3 film. Applied Physics Letters, 2019, 115, .	1.5	26
9	Enhancing power conversion efficiency of multicrystalline silicon solar cells by plasmonic effect of Ag nanoparticles embedded in SiNx layer. AIP Advances, 2019, 9, .	0.6	3
10	Complementary etching behavior of alkali, metalâ€catalyzed chemical, and postâ€etching of multicrystalline silicon wafers. Progress in Photovoltaics: Research and Applications, 2019, 27, 511-519.	4.4	27
11	Copper nanoparticles with near-unity, omnidirectional, and broadband optical absorption for highly efficient solar steam generation. Nanotechnology, 2019, 30, 015402.	1.3	59
12	Enhanced photoelectrochemical water splitting of BiVO4 photonic crystal photoanode by decorating with MoS2 nanosheets. Applied Physics Letters, 2018, 112, .	1.5	15
13	Efficient photocatalytic degradation by a silicon solar cell module with two Schottky junction TiO2/Ti electrodes. Applied Physics Letters, 2018, 112, 063905.	1.5	0
14	Enhancing ferroelectric photovoltaic effect by polar order engineering. Science Advances, 2018, 4, eaat3438.	4.7	152
15	Experimental and Theoretical Evidence of Enhanced Visible Light Photoelectrochemical and Photocatalytic Properties in MoS₂/TiO₂ Nanohole Arrays. Journal of Physical Chemistry C, 2018, 122, 15055-15062.	1.5	40
16	Efficient and Stable Silicon Photocathodes Coated with Vertically Standing Nano-MoS₂ Films for Solar Hydrogen Production. ACS Applied Materials & Interfaces, 2017, 9, 6123-6129.	4.0	96
17	Enhanced Photoelectrochemical Performance in Reduced Graphene Oxide/BiFeO₃ Heterostructures. Small, 2017, 13, 1603457.	5.2	46
18	Improved photocathodic performance in Pt catalyzed ferroelectric BiFeO₃ films sandwiched by a porous carbon layer. Chemical Communications, 2017, 53, 7052-7055.	2.2	11

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19	Dual role of TiO2 buffer layer in Pt catalyzed BiFeO3 photocathodes: Efficiency enhancement and surface protection. Applied Physics Letters, 2017, 111, .	1.5	18
20	More than 10% efficiency and one-week stability of Si photocathodes for water splitting by manipulating the loading of the Pt catalyst and TiO₂ protective layer. Journal of Materials Chemistry A, 2017, 5, 18744-18751.	5.2	61
21	Enhanced photoelectrochemical properties of copper-assisted catalyzed etching black silicon by electrodepositing cobalt. Applied Physics Letters, 2017, 111, .	1.5	14
22	Pre-texturing multi-crystalline silicon wafer via a two-step alkali etching method to achieve efficient nanostructured solar cells. Solar Energy Materials and Solar Cells, 2017, 159, 121-127.	3.0	16
23	Efficient and stable MoS2 catalyst integrated on Si photocathodes by photoreduction and post-annealing for water splitting. Applied Physics Letters, 2016, 108, .	1.5	28
24	Enhanced ferroelectric photoelectrochemical properties of polycrystalline BiFeO3 film by decorating with Ag nanoparticles. Applied Physics Letters, 2016, 108, .	1.5	64
25	Enhanced photoelectrochemical and photocatalytic activity in visible-light-driven Ag/BiVO4 inverse opals. Applied Physics Letters, 2016, 108, .	1.5	30
26	Nanoâ€Au and Ferroelectric Polarization Mediated Si/ITO/BiFeO₃ Tandem Photocathode for Efficient H₂ Production. Advanced Materials Interfaces, 2016, 3, 1600485.	1.9	21
27	Stable and efficient multi-crystalline n+p silicon photocathode for H2 production with pyramid-like surface nanostructure and thin Al2O3 protective layer. Applied Physics Letters, 2015, 106, .	1.5	60
28	Enhanced visible light photocatalytic properties of TiO₂ thin films on the textured multicrystalline silicon wafers. Journal of Materials Chemistry A, 2015, 3, 4903-4908.	5.2	10
29	Carbon quantum dots coated BiVO4 inverse opals for enhanced photoelectrochemical hydrogen generation. Applied Physics Letters, 2015, 106, .	1.5	64
30	Enhanced photocathodic behaviors of Pb(Zr0.20Ti0.80)O3 films on Si substrates for hydrogen production. Applied Physics Letters, 2015, 106, .	1.5	14
31	Photovoltaic property of domain engineered epitaxial BiFeO3 films. Applied Physics Letters, 2014, 105, .	1.5	31
32	Switchable photovoltaic response from polarization modulated interfaces in BiFeO3 thin films. Applied Physics Letters, 2014, 104, .	1.5	76
33	Fe(III) doped and grafted PbTiO3 film photocathode with enhanced photoactivity for hydrogen production. Applied Physics Letters, 2014, 105, .	1.5	17
34	Above 1% efficiency of a ferroelectric solar cell based on the Pb(Zr,Ti)O₃film. Journal of Materials Chemistry A, 2014, 2, 1363-1368.	5.2	94
35	Effect of lanthanum doping on tetragonal-like<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>with mixed-phase domain structures. Physical Review B, 2014, 90, .	1.1	28
36	Inverse opal structured Ag/TiO₂plasmonic photocatalyst prepared by pulsed current deposition and its enhanced visible light photocatalytic activity. Journal of Materials Chemistry A, 2014, 2, 824-832.	5.2	133

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37	Photovoltaic enhancement due to surface-plasmon assisted visible-light absorption at the inartificial surface of lead zirconateâ€“titanate film. Nanoscale, 2014, 6, 2915-2921.	2.8	22
38	The photocathodic properties of a Pb(Zr_{0.2}Ti_{0.8})O₃ wrapped CaFe₂O₄ layer on ITO coated quartz for water splitting. Chemical Communications, 2014, 50, 6346-6348.	2.2	15
39	Characterization and visible light photocatalytic mechanism of size-controlled BiFeO3 nanoparticles. Materials Research Bulletin, 2013, 48, 3017-3024.	2.7	49
40	(K0.5Na0.5)NbO3â€“Bi(Mg0.5Ti0.5)O3 solid solution: phase evolution, microstructure and electrical properties. Journal of Materials Science: Materials in Electronics, 2013, 24, 4346-4350.	1.1	12
41	Composition dependence of the photochemical reduction of Ag+ by as-grown Pb(ZrxTi1â^'x)O3 films on indium tin oxide electrode. Applied Physics Letters, 2013, 103, .	1.5	13
42	Photocathodic behavior of ferroelectric Pb(Zr,Ti)O3 films decorated with silver nanoparticles. Chemical Communications, 2013, 49, 3769.	2.2	40
43	Effect of charge compensation on the photoelectrochemical properties of Ho-doped SrTiO3 films. Applied Physics Letters, 2013, 102, .	1.5	21
44	Grapheneâ€Based Materials for Hydrogen Generation from Lightâ€Driven Water Splitting. Advanced Materials, 2013, 25, 3820-3839.	11.1	704
45	Combined experimental and theoretical study of the low temperature dielectric and magnetic properties of trivalent Eu ion doped SrTiO3 ceramics. Journal of Applied Physics, 2012, 111, .	1.1	5
46	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
47	Enhanced photocurrent in Pb(Zr0.2Ti0.8)O3 ferroelectric film by artificially introducing asymmetrical interface Schottky barriers. Materials Chemistry and Physics, 2012, 135, 304-308.	2.0	35
48	High-Efficiency Ferroelectric-Film Solar Cells with an n-type Cu₂O Cathode Buffer Layer. Nano Letters, 2012, 12, 2803-2809.	4.5	193
49	Synthesis of TiO2/Pt/TiO2 multilayer films via radio frequency magnetron sputtering and their enhanced photocatalytic activity. Thin Solid Films, 2012, 520, 5727-5732.	0.8	12
50	EFFECTS OF Eu-DOPING SITE ON STRUCTURAL AND PHOTOLUMINESCENT PROPERTIES OF CaTiO₃ PARTICLES. Journal of Advanced Dielectrics, 2011, 01, 215-221.	1.5	8
51	Polarization effect on the photocurrent of Pt sandwiched multi-crystalline ferroelectric films. Materials Chemistry and Physics, 2011, 129, 783-786.	2.0	19
52	Solâ€“Gel Synthesis and Photoâ€Fentonâ€Like Catalytic Activity of EuFeO₃ Nanoparticles. Journal of the American Ceramic Society, 2011, 94, 3418-3424.	1.9	85
53	Magnetically separable BiFeO3 nanoparticles with a Î³-Fe2O3 parasitic phase: controlled fabrication and enhanced visible-light photocatalytic activity. Journal of Materials Chemistry, 2011, 21, 18645.	6.7	88
54	Effect of tartaric acid on the microstructure and photoluminescence of SrTiO3:Pr3+ phosphors prepared by a solâ€“gel method. Materials Chemistry and Physics, 2010, 123, 284-288.	2.0	23

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55	Large enhancement of photoluminescence in SrTiO3:Pr3+ powders by fluorhydric acid treatment. Journal of Luminescence, 2010, 130, 1349-1352.	1.5	6
56	Interface effect on the photocurrent: A comparative study on Pt sandwiched (Bi3.7Nd0.3)Ti3O12 and Pb(Zr0.2Ti0.8)O3 films. Applied Physics Letters, 2010, 96, .	1.5	39
57	Interface layer thickness effect on the photocurrent of Pt sandwiched polycrystalline ferroelectric Pb(Zr,Ti)O3 films. Applied Physics Letters, 2010, 97, .	1.5	31
58	Experimental and theoretical evidence of enhanced ferromagnetism in sonochemical synthesized BiFeO3 nanoparticles. Applied Physics Letters, 2010, 97, .	1.5	113
59	Enhanced Photocatalytic Activity and Ferromagnetism in Gd Doped BiFeO₃ Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 21390-21396.	1.5	353
60	Space charge effect on the photocurrent of Pt-sandwiched Pb(Zr0.20Ti0.80)O3 film capacitors. Journal of Applied Physics, 2009, 106, 113705.	1.1	26
61	Structural, electrical, luminescent, and magnetic properties of Ba0.77Ca0.23TiO3:Eu ceramics. Materials Chemistry and Physics, 2009, 118, 484-489.	2.0	14
62	Effect of oxygen vacancies on the red emission of SrTiO3:Pr3+ phosphor films. Applied Physics Letters, 2009, 94, .	1.5	30
63	Effect of Ca deficiencies on the photoluminescence of CaTiO3:Pr3+. Journal of Alloys and Compounds, 2009, 474, 330-333.	2.8	19
64	Enhancement of magnetization in Eu doped BiFeO3 nanoparticles. Applied Physics Letters, 2009, 95, .	1.5	116
65	Effects of Eu substituting positions and concentrations on luminescent, dielectric, and magnetic properties of SrTiO3 ceramics. Applied Physics Letters, 2009, 94, .	1.5	50
66	Effect of laser fluence on the microstructure and dielectric properties of pulsed laser-deposited CaCu3Ti4O12 thin films. Journal of Crystal Growth, 2008, 310, 3470-3473.	0.7	10
67	Dielectric responses and multirelaxation behaviors of pure and doped CaCu3Ti4O12 ceramics. Journal of Applied Physics, 2008, 104, .	1.1	39
68	Pr 3 + photoluminescence in ferroelectric (Ba0.77Ca0.23)TiO3 ceramics: Sensitive to polarization and phase transitions. Applied Physics Letters, 2008, 92, .	1.5	86
69	Separation of the Schottky barrier and polarization effects on the photocurrent of Pt sandwiched Pb(Zr0.20Ti0.80)O3 films. Applied Physics Letters, 2008, 93, 172101.	1.5	85
70	Reduced dielectric loss and leakage current in CaCu3Ti4O12/SiO2/CaCu3Ti4O12 multilayered films. Solid State Communications, 2006, 137, 381-386.	0.9	45
71	Effect of double-sided CaTiO3 buffer layers on the electrical properties of CaCu3Ti4O12 films on Ptâ•Tiâ•SiO2â•Si substrates. Journal of Applied Physics, 2006, 100, 104101.	1.1	22
72	Anomalous dielectric properties in (BaSr)TiO3 films fabricated by pulsed-laser deposition in N2 atmosphere. Solid State Communications, 2005, 135, 707-710.	0.9	2

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73	The electrode/sample contact effects on the dielectric properties of the CaCu3Ti4O12 ceramic. Materials Letters, 2005, 59, 3990-3993.	1.3	59
74	The effect of SiO2barrier layer on the dielectric properties of CaCu3Ti4O12films. Journal Physics D: Applied Physics, 2005, 38, 4236-4240.	1.3	20
75	Effects of postanneal conditions on the dielectric properties of CaCu3Ti4O12 thin films prepared on Pt/Ti/SiO2/Si substrates. Journal of Applied Physics, 2004, 95, 6483-6485.	1.1	96
76	Deposition and dielectric properties of CaCu3Ti4O12 thin films on Pt/Ti/SiO2/Si substrates using pulsed-laser deposition. Thin Solid Films, 2003, 440, 60-65.	0.8	76