

Feng Jiang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Pt/In ₂ S ₃ /CdS/Cu ₂ ZnSnS ₄ Thin Film as an Efficient and Stable Photocathode for Water Reduction under Sunlight Radiation. <i>Journal of the American Chemical Society</i> , 2015, 137, 13691-13697.	13.7	262
2	Pure Sulfide Cu ₂ ZnSnS ₄ Thin Film Solar Cells Fabricated by Preheating an Electrodeposited Metallic Stack. <i>Advanced Energy Materials</i> , 2014, 4, 1301381.	19.5	144
3	Over 1% Efficient Unbiased Stable Solar Water Splitting Based on a Sprayed Cu ₂ ZnSnS ₄ Photocathode Protected by a HfO ₂ Photocorrosion-Resistant Film. <i>ACS Energy Letters</i> , 2018, 3, 1875-1881.	17.4	82
4	3.17% efficient Cu ₂ ZnSnS ₄ BiVO ₄ integrated tandem cell for standalone overall solar water splitting. <i>Energy and Environmental Science</i> , 2021, 14, 1480-1489.	30.8	74
5	Preparation and properties of AZO thin films on different substrates. <i>Progress in Natural Science: Materials International</i> , 2010, 20, 44-48.	4.4	73
6	Cu ₂ ZnSnS ₄ thin film solar cells with 5.8% conversion efficiency obtained by a facile spray pyrolysis technique. <i>RSC Advances</i> , 2015, 5, 77565-77571.	3.6	58
7	Preparation and properties of SnS film grown by two-stage process. <i>Applied Surface Science</i> , 2011, 257, 4901-4905.	6.1	51
8	Promising GeSe Nanosheet-Based Thin-Film Photocathode for Efficient and Stable Overall Solar Water Splitting. <i>ACS Catalysis</i> , 2019, 9, 3090-3097.	11.2	48
9	Wittichenite semiconductor of Cu ₃ BiS ₃ films for efficient hydrogen evolution from solar driven photoelectrochemical water splitting. <i>Nature Communications</i> , 2021, 12, 3795.	12.8	48
10	Effect of Indium Doping on Surface Optoelectrical Properties of Cu ₂ ZnSnS ₄ Photoabsorber and Interfacial/Photovoltaic Performance of Cadmium Free In ₂ S ₃ /Cu ₂ ZnSnS ₄ Heterojunction Thin Film Solar Cell. <i>Chemistry of Materials</i> , 2016, 28, 3283-3291.	6.7	45
11	MoS _x -CdS/Cu ₂ ZnSnS ₄ -based thin film photocathode for solar hydrogen evolution from water. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118438.	20.2	41
12	Preparation and Properties of Cu ₂ ZnSnS ₄ Absorber and Cu ₂ ZnSnS ₄ /Amorphous Silicon Thin-Film Solar Cell. <i>Applied Physics Express</i> , 2011, 4, 074101.	2.4	39
13	Preparation of SnS Film by Sulfurization and SnS/a-Si Heterojunction Solar Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, H235-H238.	2.9	38
14	Impact of alloying duration of an electrodeposited Cu/Sn/Zn metallic stack on properties of Cu ₂ ZnSnS ₄ absorbers for thin-film solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1884-1895.	8.1	38
15	CdxZn1-xS/Sb2Se3 thin film photocathode for efficient solar water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119872.	20.2	37
16	Photocathode-assisted redox flow desalination. <i>Green Chemistry</i> , 2020, 22, 4133-4139.	9.0	29
17	Environmentally friendly Cu ₂ ZnSnS ₄ -based photocathode modified with a ZnS protection layer for efficient solar water splitting. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 9-16.	9.4	28
18	Optical and Electrical Properties of Cu ₂ ZnSnS ₄ Film Prepared by Sulfurization Method. <i>Journal of Electronic Materials</i> , 2012, 41, 2204-2209.	2.2	26

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19	Preparation of Cu ₂ ZnSnS ₄ film by sulfurizing solution deposited precursors. Applied Surface Science, 2012, 261, 189-192.	6.1	24
20	Co ²⁺ Electrodeposited Cu ₂ ZnSnS ₄ Thin Film Solar Cell and Cu ₂ ZnSnS ₄ Solar Cell μ -BiVO ₄ Tandem Device for Unbiased Solar Water Splitting. Solar Rrl, 2018, 2, 1700205.	5.8	19
21	Efficient carrier transfer route via the bridge of C60 particle to TiO ₂ nanoball based coverage layer enables stable and efficient cadmium free GeSe photocathode for solar hydrogen evolution. Applied Catalysis B: Environmental, 2021, 297, 120437.	20.2	19
22	Surface plasmon resonance effect of a Pt-nano-particles-modified TiO ₂ nanoball overlayer enables a significant enhancement in efficiency to 3.5% for a Cu ₂ ZnSnS ₄ -based thin film photocathode used for solar water splitting. Chemical Engineering Journal, 2020, 396, 125264.	12.7	18
23	Preparation and Optoelectronic Properties of Cu ₂ ZnSnS ₄ Film. Journal of the Electrochemical Society, 2012, 159, H565-H569.	2.9	17
24	Fabrication and photovoltaic properties of Cu ₂ ZnSnS ₄ /i-a-Si/n-a-Si thin film solar cells. Applied Surface Science, 2013, 280, 138-143.	6.1	17
25	Low-cost chemical fabrication of Cu ₂ ZnSnS ₄ microparticles and film. Journal of Materials Science: Materials in Electronics, 2013, 24, 1813-1817.	2.2	15
26	Formation of Photoconductive SnS Thin Films through Reaction of Sn-Metal Films in Sulfur-Vapor. ECS Journal of Solid State Science and Technology, 2013, 2, P478-P484.	1.8	15
27	Rapid thermal deposited GeSe nanowires as a promising anode material for lithium-ion and sodium-ion batteries. Journal of Colloid and Interface Science, 2020, 571, 387-397.	9.4	14
28	Preparation and the growth mechanism of zinc blende structure tin sulfide films by successive ionic layer adsorption and reaction. Journal of Crystal Growth, 2010, 312, 3009-3013.	1.5	11
29	The enhanced conductivity of AZO thin films on soda lime glass with an ultrathin Al ₂ O ₃ buffer layer. Physica B: Condensed Matter, 2010, 405, 3320-3323.	2.7	10
30	Three-dimensional GeSe Microstructured Air Brick Photocathode for Advanced Solar Water Splitting. Solar Rrl, 2020, 4, 1900559.	5.8	10
31	Fabrication of an efficient electrodeposited Cu ₂ ZnSnS ₄ -based solar cells with more than 6% conversion efficiency using a sprayed Ga-doped ZnO window layer. RSC Advances, 2014, 4, 24351-24355.	3.6	9
32	Research on the photoresponse current and photosensitive properties of Cu ₂ ZnSnS ₄ thin film prepared by sulfurization of a sputtered metal precursor. RSC Advances, 2013, 3, 23474.	3.6	8
33	Near-infrared-driven water splitting for hydrogen evolution using a Cu ₂ ZnSnS ₄ -based photocathode by the application of upconversion nanoparticles. Sustainable Energy and Fuels, 2020, 4, 2669-2674.	4.9	8
34	Effect of emitter layer doping concentration on the performance of a silicon thin film heterojunction solar cell. Chinese Physics B, 2013, 22, 016803.	1.4	7
35	Effect of the thickness on the optoelectronic properties of SnS films and photovoltaic performance of SnS/i-a-Si/n-a-Si solar cells. Applied Physics A: Materials Science and Processing, 2014, 117, 2167-2173.	2.3	5
36	A GeSe micro air brick crystal-based film for the sunlight photodegradation of dye-polluted waters. CrystEngComm, 2021, 23, 762-768.	2.6	5

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37	Polycrystalline silicon films fabricated by rapid thermal annealing. Journal of Materials Science: Materials in Electronics, 2012, 23, 1279-1283.	2.2	3
38	Kesterite Cu ₂ ZnSnS ₄ thin-film solar water-splitting photovoltaics for solar seawater desalination. Cell Reports Physical Science, 2021, 2, 100468.	5.6	3
39	Three-dimensional GeSe Microstructured Air Brick Photocathode for Advanced Solar Water Splitting. Solar Rrl, 2020, 4, 2070055.	5.8	1