

Xiuxun Han

List of Publications by Year in descending order

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37
papers

1,081
citations

623574

14
h-index

414303

32
g-index

37
all docs

37
docs citations

37
times ranked

2000
citing authors

#	ARTICLE	IF	CITATIONS
1	One-pot sonochemical preparation of fluorographene and selective tuning of its fluorine coverage. <i>Journal of Materials Chemistry</i> , 2012, 22, 16950.	6.7	193
2	Facile Synthesis of MoS ₂ /g-C ₃ N ₄ /GO Ternary Heterojunction with Enhanced Photocatalytic Activity for Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7878-7886.	3.2	145
3	A Green Anti-Solvent Process for High Performance Carbon-Based CsPbI ₂ Br All-Inorganic Perovskite Solar Cell. <i>Solar Rrl</i> , 2018, 2, 1800139.	3.1	126
4	Ag ₂ S nanoparticle-decorated MoS ₂ for enhanced electrocatalytic and photoelectrocatalytic activity in water splitting. <i>Dalton Transactions</i> , 2017, 46, 483-490.	1.6	69
5	Cooperatively exfoliated fluorinated graphene with full-color emission. <i>RSC Advances</i> , 2012, 2, 11681.	1.7	60
6	Colorimetric detection of H ₂ O ₂ using flower-like Fe ₂ (MoO ₄) ₃ microparticles as a peroxidase mimic. <i>Mikrochimica Acta</i> , 2016, 183, 3025-3033.	2.5	47
7	Synthesis of a porous birnessite manganese dioxide hierarchical structure using thermally reduced graphene oxide paper as a sacrificing template for supercapacitor application. <i>New Journal of Chemistry</i> , 2012, 36, 1490.	1.4	45
8	Enhancing Open-Circuit Voltage of Solution-Processed Cu ₂ ZnSn(S,Se) ₄ Solar Cells With Ag Substitution. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 874-881.	1.5	44
9	Optimization of DMSO-based precursor solution by H ₂ O additive for performance enhancement of kesterite photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2018, 179, 427-434.	3.0	42
10	<i>In situ</i> ion exchange synthesis of MoS ₂ /g-C ₃ N ₄ heterojunctions for highly efficient hydrogen production. <i>New Journal of Chemistry</i> , 2018, 42, 910-917.	1.4	40
11	BiOI hierarchical nanoflowers as novel robust peroxidase mimetics for colorimetric detection of H ₂ O ₂ . <i>RSC Advances</i> , 2016, 6, 17483-17493.	1.7	38
12	Carbon-based all-inorganic perovskite solar cells: Progress, challenges and strategies toward 20% efficiency. <i>Materials Today</i> , 2021, 50, 239-258.	8.3	33
13	Enhanced Peroxidase-Like Activity of MoS ₂ Quantum Dots Functionalized g-C ₃ N ₄ Nanosheets towards Colorimetric Detection of H ₂ O ₂ . <i>Nanomaterials</i> , 2018, 8, 976.	1.9	26
14	Fabrication and enhanced hydrogen evolution reaction performance of a Cu ₃ BiS ₃ nanorods/TiO ₂ heterojunction film. <i>New Journal of Chemistry</i> , 2018, 42, 4114-4120.	1.4	16
15	Step-by-step build-up of ordered p-n heterojunctions at nanoscale for efficient light harvesting. <i>RSC Advances</i> , 2013, 3, 166-171.	1.7	14
16	The precursor-compensation strategy boosts the photoresponse performance of air-stable, self-powered Cs ₂ SnI ₆ photodetectors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14217-14225.	2.7	13
17	Direct solution coating of pure-phase Cu ₂ SnS ₃ thin films without sulfurization. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 3481-3486.	1.1	12
18	Impact of Ag doping on Cu ₃ BiS ₃ solar cell performance. <i>Solar Energy</i> , 2021, 221, 109-113.	2.9	12

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19	Magnesium acetate additive enables efficient and stable carbon electrode based CsPbI ₂ Br perovskite solar cells. <i>Solar Energy</i> , 2021, 222, 186-192.	2.9	11
20	Growth orientation dependent photoluminescence of GaAsN alloys. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	10
21	Pre-annealing induced oxide barrier to suppress the over-selenization of Mo contact. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11188-11191.	1.1	8
22	N incorporation and optical properties of GaAsN epilayers on (3â€‰%1â€‰%1)A/B GaAs substrates. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 015402.	1.3	7
23	Performance improvement of Cu ₂ ZnSn(S,Se) ₄ solar cells by ultraviolet ozone treatment on precursor films. <i>Solar Energy Materials and Solar Cells</i> , 2021, 226, 111092.	3.0	7
24	Defect healing <i>via</i> a gradient cooling strategy for efficient all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4276-4285.	2.7	7
25	Synthesis of the Cu ₂ ZnSn(S,Se) ₄ alloys with tunable phase structure and composition via a novel non-toxic solution method. <i>RSC Advances</i> , 2013, 3, 26160.	1.7	6
26	Structural, electronic and optical properties of famatinite and enargite Cu ₃ SbS ₄ under pressure: A theoretical investigation. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600608.	0.7	6
27	Effects of thiourea dosage on the structural, optical and electrical properties of one-step solution processed Cu ₃ BiS ₃ film for photovoltaics. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	6
28	Performance enhancement of all-inorganic carbon-based CsPbI ₂ Br solar cells by using silane modification. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 20936-20945.	1.1	6
29	Impact of the substrate orientation on the N incorporation in GaAsN: Theoretical and experimental investigations. <i>Journal of Alloys and Compounds</i> , 2016, 687, 42-46.	2.8	5
30	Effect of sulfurization process on the properties of solution-processed Cu ₂ SnS ₃ thin film solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 17947-17955.	1.1	5
31	Facile preparation of Cu ₃ BiS ₃ nanorods film through a solution dip-coating process. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 17772-17777.	1.1	4
32	A facile strategy for fabricating particle-on-flower Au-Cu ₃ BiS ₃ nanostructures for enhanced photoelectrocatalytic activity in water splitting. <i>New Journal of Chemistry</i> , 2021, 45, 1231-1239.	1.4	4
33	Constructing Co ₃ O ₄ /La ₂ Ti ₂ O ₇ p-n Heterojunction for the Enhancement of Photocatalytic Hydrogen Evolution. <i>Nanomaterials</i> , 2022, 12, 1695.	1.9	4
34	Self-passivated hybrid perovskite films for improved photovoltaic performance of solar cells. <i>Journal of Materials Science</i> , 2021, 56, 6374-6384.	1.7	3
35	Improved CZTSSe thin-film morphology and device performance by using DMSO/DMF blended solvent. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	1.1	3
36	Formation energies of substitutional NAs and split interstitial complexes in dilute GaAsN alloys with different growth orientations. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	2

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37	Green solvent assisted preparation of one-dimensional CsPbBr ₃ nanocrystals with a controllable morphology for cyan-emitting applications. CrystEngComm, 2021, 23, 7805-7812.	1.3	2