

Hongliang Zhang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6843428/hongliang-zhang-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,075
citations

19
h-index

31
g-index

58
ext. papers

1,330
ext. citations

5.8
avg, IF

4.27
L-index

#	Paper	IF	Citations
55	Interfacial Charge Transfer and Zinc Ion Intercalation and Deintercalation Dynamics in Flexible Multicolor Electrochromic Energy Storage Devices. <i>ACS Applied Energy Materials</i> , 2022 , 5, 88-97	6.1	5
54	Air Nanocolumn-SiO ₂ composite film with adjustable anisotropic refractive index. <i>Materials Today Physics</i> , 2022 , 26, 100722	8	
53	Aluminum-ion-intercalation nickel oxide thin films for high-performance electrochromic energy storage devices. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 17427-17436	7.1	0
52	Mechanistic insights into the dry prelithiated WO ₃ thin films in electrochromic devices. <i>Solid State Ionics</i> , 2021 , 373, 115814	3.3	0
51	Long-term-stable WO ₃ -PB complementary electrochromic devices. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 158534	5.7	15
50	A Self-Bleaching Electrochromic Mirror Based on Metal Organic Frameworks. <i>Materials</i> , 2021 , 14,	3.5	2
49	Boosting charge-transfer kinetics and cyclic stability of complementary WO ₃ /LiO electrochromic devices via SnO _x interfacial layer. <i>Journal of Science: Advanced Materials and Devices</i> , 2021 , 6, 494-500	4.2	5
48	In situ TEM investigation of hexagonal WO ₃ irreversible transformation to Li ₂ WO ₄ . <i>Scripta Materialia</i> , 2021 , 203, 114090	5.6	2
47	Microstructural and optical characterization of polymer nanotemplates with different morphologies. <i>Vacuum</i> , 2021 , 193, 110512	3.7	
46	Substrate-bias-aided preparation and properties of amorphous gallium oxide films and their deep-ultraviolet photodetectors. <i>Ceramics International</i> , 2021 , 47, 32138-32143	5.1	1
45	Direct Growth of Vertically Orientated Nanocavity Arrays for Plasmonic Color Generation. <i>Advanced Functional Materials</i> , 2020 , 30, 2002287	15.6	18
44	Specific phase modulation and infrared photon confinement in solar selective absorbers. <i>Applied Materials Today</i> , 2020 , 18, 100533	6.6	6
43	Broadband Optoelectronic Synaptic Thin-Film Transistors Based on Oxide Semiconductors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900630	2.5	10
42	Electrochromism of Nanocrystal-in-Glass Tungsten Oxide Thin Films under Various Conduction Cations. <i>Inorganic Chemistry</i> , 2019 , 58, 2089-2098	5.1	29
41	Optoelectronic neuromorphic thin-film transistors capable of selective attention and with ultra-low power dissipation. <i>Nano Energy</i> , 2019 , 62, 772-780	17.1	48
40	Aqueous solution-processed, self-flattening AlO _x :Y dielectrics for fully-transparent thin-film transistors. <i>Ceramics International</i> , 2019 , 45, 15883-15891	5.1	4
39	Broadband hyperbolic metamaterial covering the whole visible-light region. <i>Optics Letters</i> , 2019 , 44, 2970-2973	3	7

38	Latent Fingerprint Visualization and Subsequent DNA Extraction Using Electron Beam Evaporation of Metallic Ultra-Thin Films. <i>Current Nanoscience</i> , 2019 , 15, 248-253	1.4	
37	Flexible Electrochromic V2O5 Thin Films with Ultrahigh Coloration Efficiency on Graphene Electrodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D183-D189	3.9	18
36	High-Performance Visible-Blind Ultraviolet Photodetector Based on IGZO TFT Coupled with p-n Heterojunction. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8102-8109	9.5	67
35	Design, Properties, and TFT Application of Solution-Processed In-Ga-Cd-O Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800034	2.5	5
34	Structural and Electrochromic Properties of Undoped and Mo-Doped V2O5 Thin Films by a Two-Electrode Electrodeposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 7502-7507	1.3	3
33	Band Offset Engineering in ZnSnN2-Based Heterojunction for Low-Cost Solar Cells. <i>ACS Photonics</i> , 2018 , 5, 2094-2099	6.3	25
32	Thin Film Solar Cell Based on ZnSnN2/SnO Heterojunction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700332	2.5	22
31	Template-Free Growth of Well-Ordered Silver Nano Forest/Ceramic Metamaterial Films with Tunable Optical Responses. <i>Advanced Materials</i> , 2017 , 29, 1605324	24	32
30	Ultrasensitive Memristive Synapses Based on Lightly Oxidized Sulfide Films. <i>Advanced Materials</i> , 2017 , 29, 1606927	24	127
29	High-temperature tolerance in WTi-Al ₂ O ₃ cermet-based solar selective absorbing coatings with low thermal emissivity. <i>Nano Energy</i> , 2017 , 37, 232-241	17.1	84
28	Combined control of the cation and anion to make ZnSnON thin films for visible-light phototransistors with high responsivity. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6480-6487	7.1	7
27	The same batch enabled threshold voltage tuning for vertically- or laterally-gated transparent InZnO thin-film transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1600918 ¹⁶		
26	Proton conducting sodium-alginate-gated oxide thin-film transistors with varying device structure. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 3103-3109	1.6	4
25	Threshold Voltage Tuning in a-IGZO TFTs With Ultrathin SnOx Capping Layer and Application to Depletion-Load Inverter. <i>IEEE Electron Device Letters</i> , 2016 , 37, 422-425	4.4	24
24	Effect of post-annealing on structural and electrochromic properties of Mo-doped V2O5 thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 77, 604-609	2.3	13
23	Plasmonic AgAl Bimetallic Alloy Nanoparticle/Al ₂ O ₃ Nanocermet Thin Films with Robust Thermal Stability for Solar Thermal Applications. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600248	4.6	20
22	The electrical properties of n-ZnO/p-SnO heterojunction diodes. <i>Applied Physics Letters</i> , 2016 , 109, 123507	9.4	15
21	Anomalous rectification in a purely electronic memristor. <i>Applied Physics Letters</i> , 2016 , 109, 143505	3.4	14

20	Semiconducting ZnSnN ₂ thin films for Si/ZnSnN ₂ p-n junctions. <i>Applied Physics Letters</i> , 2016 , 108, 142104	3.4	44
19	Extended-gate-type IGZO electric-double-layer TFT immunosensor with high sensitivity and low operation voltage. <i>Applied Physics Letters</i> , 2016 , 109, 173501	3.4	19
18	Synaptic devices based on purely electronic memristors. <i>Applied Physics Letters</i> , 2016 , 108, 013504	3.4	52
17	Tunable crystallographic grain orientation and Raman fingerprints of polycrystalline SnO thin films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 1077-1081	7.1	21
16	Determination of the basic optical parameters of ZnSnN(2). <i>Optics Letters</i> , 2015 , 40, 1282-5	3	39
15	Single-crystalline metal filament-based resistive switching in a nitrogen-doped carbon film containing conical nanopores. <i>Applied Physics Letters</i> , 2015 , 106, 083104	3.4	17
14	Mechanism for resistive switching in chalcogenide-based electrochemical metallization memory cells. <i>AIP Advances</i> , 2015 , 5, 057125	1.5	41
13	n-type Polycrystalline Si Thick Films Deposited on SiN _x -coated Metallurgical Grade Si Substrates. <i>Journal of Materials Science and Technology</i> , 2015 , 31, 65-69	9.1	
12	Determination of some basic physical parameters of SnO based on SnO/Si pn heterojunctions. <i>Applied Physics Letters</i> , 2015 , 106, 132102	3.4	43
11	Alloyed nanoparticle-embedded alumina nanocermet film: A new attempt to improve the thermotolerance. <i>Applied Surface Science</i> , 2015 , 331, 285-291	6.7	11
10	Silver nanoparticles with an armor layer embedded in the alumina matrix to form nanocermet thin films with sound thermal stability. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11550-7	9.5	23
9	Surface Passivation Performance of Atomic-Layer-Deposited Al ₂ O ₃ on p-type Silicon Substrates. <i>Journal of Materials Science and Technology</i> , 2014 , 30, 835-838	9.1	4
8	Proton conducting zeolite films for low-voltage oxide-based electric-double-layer thin-film transistors and logic gates. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5669	7.1	19
7	Nanogranular Al ₂ O ₃ proton conducting films for low-voltage oxide-based homojunction thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2781	7.1	45
6	Tungsten oxide proton conducting films for low-voltage transparent oxide-based thin-film transistors. <i>Applied Physics Letters</i> , 2013 , 102, 052905	3.4	23
5	(001) CeO ₂ films epitaxially grown on SrTiO ₃ (001) substrates by pulsed laser deposition using a metallic Ce target. <i>Vacuum</i> , 2013 , 87, 81-83	3.7	7
4	In-Plane-Gate Oxide-Based Thin-Film Transistors Self-Aligned on Stacked Self-Assembled Monolayer/SiO ₂ Electrolyte Dielectrics. <i>IEEE Electron Device Letters</i> , 2012 , 33, 531-533	4.4	11
3	Transparent In-Plane-Gate Junctionless Oxide-Based TFTs Directly Written by Laser Scribing. <i>IEEE Electron Device Letters</i> , 2012 , 33, 1723-1725	4.4	7

- | | | | |
|---|---|-----|----|
| 2 | Low-Voltage Junctionless Oxide-Based Thin-Film Transistors Self-Assembled by a Gradient Shadow Mask. <i>IEEE Electron Device Letters</i> , 2012 , 33, 1720-1722 | 4-4 | 13 |
| 1 | Controllable growth of nanocomposite films with metal nanocrystals sandwiched between dielectric superlattices. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 6447-6453 | 2-3 | 3 |