

Hongliang Zhang

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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	Ultrasensitive Memristive Synapses Based on Lightly Oxidized Sulfide Films. <i>Advanced Materials</i> , 2017 , 29, 1606927	24	127
54	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
53	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
52	Synaptic devices based on purely electronic memristors. <i>Applied Physics Letters</i> , 2016 , 108, 013504	3.4	52
51	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
50	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
49	Semiconducting ZnSnN ₂ thin films for Si/ZnSnN ₂ p-n junctions. <i>Applied Physics Letters</i> , 2016 , 108, 142104	3.4	44
48	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
47	Mechanism for resistive switching in chalcogenide-based electrochemical metallization memory cells. <i>AIP Advances</i> , 2015 , 5, 057125	1.5	41
46	Determination of the basic optical parameters of ZnSnN(2). <i>Optics Letters</i> , 2015 , 40, 1282-5	3	39
45	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
44	Electrochromism of Nanocrystal-in-Glass Tungsten Oxide Thin Films under Various Conduction Cations. <i>Inorganic Chemistry</i> , 2019 , 58, 2089-2098	5.1	29
43	Band Offset Engineering in ZnSnN ₂ -Based Heterojunction for Low-Cost Solar Cells. <i>ACS Photonics</i> , 2018 , 5, 2094-2099	6.3	25
42	Threshold Voltage Tuning in a-IGZO TFTs With Ultrathin SnO _x Capping Layer and Application to Depletion-Load Inverter. <i>IEEE Electron Device Letters</i> , 2016 , 37, 422-425	4.4	24
41	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
40	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
39	Thin Film Solar Cell Based on ZnSnN ₂ /SnO Heterojunction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700332	2.5	22

38	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
37	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
36	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
35	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
34	Direct Growth of Vertically Orientated Nanocavity Arrays for Plasmonic Color Generation. <i>Advanced Functional Materials</i> , 2020 , 30, 2002287	15.6	18
33	Flexible Electrochromic V ₂ O ₅ Thin Films with Ultrahigh Coloration Efficiency on Graphene Electrodes. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D183-D189	3.9	18
32	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
31	Long-term-stable WO ₃ -PB complementary electrochromic devices. <i>Journal of Alloys and Compounds</i> , 2021 , 861, 158534	5.7	15
30	The electrical properties of n-ZnO/p-SnO heterojunction diodes. <i>Applied Physics Letters</i> , 2016 , 109, 123507	7.4	15
29	Anomalous rectification in a purely electronic memristor. <i>Applied Physics Letters</i> , 2016 , 109, 143505	3.4	14
28	Effect of post-annealing on structural and electrochromic properties of Mo-doped V ₂ O ₅ thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2016 , 77, 604-609	2.3	13
27	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
26	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
25	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
24	Broadband Optoelectronic Synaptic Thin-Film Transistors Based on Oxide Semiconductors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900630	2.5	10
23	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
22	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
21	(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

20	Broadband hyperbolic metamaterial covering the whole visible-light region. <i>Optics Letters</i> , 2019 , 44, 2970-2973	3	7
19	Specific phase modulation and infrared photon confinement in solar selective absorbers. <i>Applied Materials Today</i> , 2020 , 18, 100533	6.6	6
18	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
17	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
16	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
15	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
14	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
13	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
12	Structural and Electrochromic Properties of Undoped and Mo-Doped V ₂ O ₅ Thin Films by a Two-Electrode Electrodeposition. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 7502-7507	1.3	3
11	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
10	A Self-Bleaching Electrochromic Mirror Based on Metal Organic Frameworks. <i>Materials</i> , 2021 , 14,	3.5	2
9	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
8	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
7	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
6	Mechanistic insights into the dry prelithiated WO ₃ thin films in electrochromic devices. <i>Solid State Ionics</i> , 2021 , 373, 115814	3.3	0
5	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	1.6	0
4	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	0
3	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	0

- 2 Microstructural and optical characterization of polymer nanotemplates with different morphologies. *Vacuum*, **2021**, 193, 110512 3-7
- 1 Air Nanocolumn-SiO₂ composite film with adjustable anisotropic refractive index. *Materials Today Physics*, **2022**, 26, 100722 8