

Honglei Wang

List of Publications by Year in descending order

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70
papers

2,117
citations

201674

27
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254184

43
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71
docs citations

71
times ranked

2666
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Bismuth-Doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13891-13899.	13.8	179
2	High-density array of ferroelectric nanodots with robust and reversibly switchable topological domain states. <i>Science Advances</i> , 2017, 3, e1700919.	10.3	125
3	Efficient and carbon-based hole transport layer-free CsPb ₂ Br planar perovskite solar cells using PMMA modification. <i>Journal of Materials Chemistry C</i> , 2019, 7, 3852-3861.	5.5	102
4	Flexible, Semitransparent, and Inorganic Resistive Memory based on BaTi _{0.95} Co _{0.05} O ₃ Film. <i>Advanced Materials</i> , 2017, 29, 1700425.	21.0	89
5	A Robust PtNi Nanoframe/N-Doped Graphene Aerogel Electrocatalyst with Both High Activity and Stability. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9590-9597.	13.8	88
6	Low-temperature fabrication of sputtered high- κ HfO ₂ gate dielectric for flexible a-IGZO thin film transistors. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	84
7	Current rectifying and resistive switching in high density BiFeO ₃ nanocapacitor arrays on Nb-SrTiO ₃ substrates. <i>Scientific Reports</i> , 2015, 5, 9680.	3.3	68
8	Promoting the Hole Extraction with Co ₃ O ₄ Nanomaterials for Efficient Carbon-Based CsPb ₂ Br Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800315.	5.8	65
9	Controlling Resistance Switching Polarities of Epitaxial BaTiO ₃ Films by Mediation of Ferroelectricity and Oxygen Vacancies. <i>Advanced Electronic Materials</i> , 2015, 1, 1500069.	5.1	64
10	Resistive switching induced by charge trapping/detrapping: a unified mechanism for colossal electroresistance in certain Nb:SrTiO ₃ -based heterojunctions. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7317-7327.	5.5	61
11	All-sputtered, flexible, bottom-gate IGZO/Al ₂ O ₃ bi-layer thin film transistors on PEN fabricated by a fully room temperature process. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7043-7050.	5.5	56
12	High Mobility Amorphous Indium-Gallium-Zinc-Oxide Thin-Film Transistor by Aluminum Oxide Passivation Layer. <i>IEEE Electron Device Letters</i> , 2017, 38, 879-882.	3.9	54
13	Enhanced performance of CH ₃ NH ₃ PbI _{3-x} Cl _x perovskite solar cells by CH ₃ NH ₃ I modification of TiO ₂ -perovskite layer interface. <i>Nanoscale Research Letters</i> , 2016, 11, 316.	5.7	50
14	Preparation of epitaxial hexagonal YMnO ₃ thin films and observation of ferroelectric vortex domains. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	49
15	Optimization of hierarchical structure and nanoscale-enabled plasmonic refraction for window electrodes in photovoltaics. <i>Nature Communications</i> , 2016, 7, 12825.	12.8	46
16	Ferroelectric Diodes with Charge Injection and Trapping. <i>Physical Review Applied</i> , 2017, 7, .	3.8	43
17	A Practical ITO Replacement Strategy: Sputtering-Free Processing of a Metallic Nanonetwork. <i>Advanced Materials Technologies</i> , 2017, 2, 1700061.	5.8	39
18	High mobility solution-processed C ₈ -BTBT organic thin-film transistors via UV-ozone interface modification. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10652-10659.	5.5	39

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19	Aqueous Synthesis of Covalent Organic Frameworks as Photocatalysts for Hydrogen Peroxide Production. <i>CCS Chemistry</i> , 2022, 4, 3751-3761.	7.8	39
20	High-performance flexible oxide TFTs: optimization of a-IGZO film by modulating the voltage waveform of pulse DC magnetron sputtering without post treatment. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2522-2532.	5.5	38
21	Enhanced energy storage performance and thermal stability in relaxor ferroelectric $(1-x)\text{BiFeO}_3 \cdot x(0.85\text{BaTiO}_3 \cdot 0.15\text{Bi}(\text{Sn}_{0.5}\text{Zn}_{0.5})\text{O}_3)$ ceramics. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2646-2654.	3.6	38
22	Oriented Growth of Thin Films of Covalent Organic Frameworks with Large Single-Crystalline Domains on the Water Surface. <i>Journal of the American Chemical Society</i> , 2022, 144, 3233-3241.	13.7	38
23	Flexible, Fatigue-Free, and Large-Scale $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ Ferroelectric Memories. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21428-21433.	8.0	35
24	Nonvolatile Ferroelectric Domain Wall Memory Embedded in a Complex Topological Domain Structure. <i>Advanced Materials</i> , 2022, 34, e2107711.	21.0	32
25	Nanoporous and Highly Thermal Conductive Thin Film of Single-Crystal Covalent Organic Frameworks Ribbons. <i>Journal of the American Chemical Society</i> , 2021, 143, 3927-3933.	13.7	31
26	An Unusual Mechanism for Negative Differential Resistance in Ferroelectric Nanocapacitors: Polarization Switching-Induced Charge Injection Followed by Charge Trapping. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 27120-27126.	8.0	30
27	Colossal Figure of Merit in Transparent Conducting Metallic Ribbon Networks. <i>Advanced Materials Technologies</i> , 2016, 1, .	5.8	29
28	Large electroresistance and tunable photovoltaic properties of ferroelectric nanoscale capacitors based on ultrathin super-tetragonal BiFeO_3 films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3323-3329.	5.5	29
29	Morphology Modulation of Direct Inkjet Printing by Incorporating Polymers and Surfactants into a Sol-Gel Ink System. <i>Langmuir</i> , 2018, 34, 6413-6419.	3.5	28
30	A Simple Method for High-Performance, Solution-Processed, Amorphous ZrO_2 Gate Insulator TFT with a High Concentration Precursor. <i>Materials</i> , 2017, 10, 972.	2.9	24
31	Tungsten Oxide/Reduced Graphene Oxide Aerogel with Low-Content Platinum as High-Performance Electrocatalyst for Hydrogen Evolution Reaction. <i>Small</i> , 2021, 17, e2102159.	10.0	24
32	Boosting Both Electrocatalytic Activity and Durability of Metal Aerogels via Intrinsic Hierarchical Porosity and Continuous Conductive Network Backbone Preservation. <i>Advanced Energy Materials</i> , 2021, 11, 2002276.	19.5	24
33	High-Performance Bismuth-Doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. <i>Angewandte Chemie</i> , 2020, 132, 13995-14003.	2.0	22
34	Tuning electrical conductivity, charge transport, and ferroelectricity in epitaxial BaTiO_3 films by Nb-doping. <i>Applied Physics Letters</i> , 2017, 110, 182903.	3.3	18
35	Mobility Enhancement in Amorphous In-Ga-Zn-O Thin-Film Transistor by Induced Metallic in Nanoparticles and Cu Electrodes. <i>Nanomaterials</i> , 2018, 8, 197.	4.1	18
36	A Mixed Antisolvent-Assisted Crystallization Strategy for Efficient All-Inorganic CsPbBr_2 Perovskite Solar Cells by a Low-Temperature Process. <i>ACS Applied Energy Materials</i> , 2022, 5, 2881-2889.	5.1	18

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37	Electronic Structure and Charge-Trapping Characteristics of the Al ₂ O ₃ -TiAlO-SiO ₂ Gate Stack for Nonvolatile Memory Applications. <i>Nanoscale Research Letters</i> , 2017, 12, 270.	5.7	17
38	A Simple, Low Cost Ink System for Drop-on-Demand Printing High Performance Metal Oxide Dielectric Film at Low Temperature. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5193-5199.	8.0	16
39	Creation of a two-dimensional polymer and graphene heterostructure. <i>Nanoscale</i> , 2020, 12, 5170-5174.	5.6	16
40	Brownian motion and entropic torque driven motion of domain walls in antiferromagnets. <i>Physical Review B</i> , 2018, 97, .	3.2	14
41	Functional Metal Oxide Ink Systems for Drop-on-Demand Printed Thin-Film Transistors. <i>Langmuir</i> , 2020, 36, 8655-8667.	3.5	14
42	Self-assembled nanoscale capacitor cells based on ultrathin BiFeO ₃ films. <i>Applied Physics Letters</i> , 2014, 104, 182903.	3.3	13
43	Simultaneously enhanced J_{sc} and FF by employing two solution-processed interfacial layers for inverted planar perovskite solar cells. <i>RSC Advances</i> , 2017, 7, 39523-39529.	3.6	13
44	Room Temperature Fabrication of High Quality ZrO ₂ Dielectric Films for High Performance Flexible Organic Transistor Applications. <i>IEEE Electron Device Letters</i> , 2018, 39, 280-283.	3.9	13
45	Guanidine Thiocyanate-Induced High-Quality Perovskite Film for Efficient Tin-Based Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	5.8	12
46	A room temperature strategy towards enhanced performance and bias stability of oxide thin film transistor with a sandwich structure channel layer. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	11
47	Surfactants Mediated Synthesis of Highly Crystalline Thin Films of Imine-Linked Covalent Organic Frameworks on Water Surface. <i>Chinese Journal of Chemistry</i> , 0, , .	4.9	11
48	Inorganic Solar Cells Based on Electrospun ZnO Nanofibrous Networks and Electrodeposited Cu ₂ O. <i>Nanoscale Research Letters</i> , 2015, 10, 465.	5.7	10
49	Island-Like AZO/Al ₂ O ₃ Bilayer Channel Structure for Thin Film Transistors. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700063.	3.7	10
50	Facile Room Temperature Routes to Improve Performance of IGZO Thin-Film Transistors by an Ultrathin Al ₂ O ₃ Passivation Layer. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 537-541.	3.0	10
51	Bias Stability Enhancement in Thin-Film Transistor with a Solution-Processed ZrO ₂ Dielectric as Gate Insulator. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 806.	2.5	9
52	Investigation of direct inkjet-printed versus spin-coated ZrO ₂ for sputter IGZO thin film transistor. <i>Nanoscale Research Letters</i> , 2019, 14, 80.	5.7	9
53	A Robust PtNi Nanoframe/N-Doped Graphene Aerogel Electrocatalyst with Both High Activity and Stability. <i>Angewandte Chemie</i> , 2021, 133, 9676-9683.	2.0	9
54	Synthesis of Thin Film of a 3D Covalent Organic Framework as Anti-Counterfeiting Label. <i>Chinese Journal of Chemistry</i> , 2022, 40, 1171-1176.	4.9	9

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55	Highly Conductive and Transparent AZO Films Fabricated by PLD as Source/Drain Electrodes for TFTs. <i>Materials</i> , 2018, 11, 2480.	2.9	8
56	Induced nano-scale self-formed metal-oxide interlayer in amorphous silicon tin oxide thin film transistors. <i>Scientific Reports</i> , 2018, 8, 4160.	3.3	7
57	Direct evidence for the coexistence of nanoscale high-conduction and low-conduction phases in VO ₂ films. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	7
58	Plasmonic refractive-index induced ultrahigh transparency of highly conducting metallic networks. <i>Laser and Photonics Reviews</i> , 2016, 10, 465-472.	8.7	6
59	High Conductivity and Adhesion of Cu-Cr-Zr Alloy for TFT Gate Electrode. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 820.	2.5	6
60	Oxygen vacancy mediated conductivity and charge transport properties of epitaxial Ba _{0.6} La _{0.4} TiO ₃ thin films. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	6
61	MnO ₂ -doping induced enhanced multiferroicity in Bi _{0.83} Sm _{0.17} Fe _{0.95} Sc _{0.05} O ₃ ceramics. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	6
62	Enhancement of ferroelectricity and homogeneity of orthorhombic phase in Hf _{0.5} Zr _{0.5} O ₂ thin films. <i>Nanotechnology</i> , 2021, 32, 335704.	2.6	6
63	Properties-Adjustable Alumina-Zirconia Nanolaminate Dielectric Fabricated by Spin-Coating. <i>Nanomaterials</i> , 2017, 7, 419.	4.1	5
64	Vertically Free-Standing Ordered Pb(Zr _{0.52} Ti _{0.48})O ₃ Nanocup Arrays by Template-Assisted Ion Beam Etching. <i>Nanoscale Research Letters</i> , 2016, 11, 225.	5.7	4
65	Enhanced Stability of Antiferromagnetic Skyrmion during Its Motion by Anisotropic Dzyaloshinskii-Moriya Interaction. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000157.	2.4	4
66	Controllable Coercive Field of Ferroelectric HfO ₂ Films via UV-Ozone Surface Modification. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3094-3099.	3.0	4
67	Reaction-Induced Phase Separation and Morphology Evolution of Benzoxazine/Epoxy/Imidazole Ternary Blends. <i>Polymers</i> , 2021, 13, 2945.	4.5	3
68	Binary Solvent Systems for Piezoelectric Printing Crack-Free PAM/ZrO _x Hybrid Thin Films through Nanostructure Modulation. <i>Langmuir</i> , 2021, 37, 5979-5985.	3.5	2
69	Epitaxial strain tunable conductivity and charge transport of Ba _{0.6} La _{0.4} TiO ₃ thin films deposited by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	1
70	Metallic Nanonetworks: A Practical ITO Replacement Strategy: Sputtering-Free Processing of a Metallic Nanonetwork (<i>Adv. Mater. Technol.</i> 8/2017). <i>Advanced Materials Technologies</i> , 2017, 2, .	5.8	0