

# Honglei Wang

## List of Publications by Year in descending order

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70  
papers

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citations

201674

27  
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254184

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71  
all docs

71  
docs citations

71  
times ranked

2666  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonvolatile Ferroelectric Domain Wall Memory Embedded in a Complex Topological Domain Structure. <i>Advanced Materials</i> , 2022, 34, e2107711.	21.0	32
2	Aqueous Synthesis of Covalent Organic Frameworks as Photocatalysts for Hydrogen Peroxide Production. <i>CCS Chemistry</i> , 2022, 4, 3751-3761.	7.8	39
3	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
4	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
5	A Mixed Antisolvent-Assisted Crystallization Strategy for Efficient All-Inorganic CsPbBr <sub>2</sub> Perovskite Solar Cells by a Low-Temperature Process. <i>ACS Applied Energy Materials</i> , 2022, 5, 2881-2889.	5.1	18
6	Controllable Coercive Field of Ferroelectric HfO <sub>2</sub> Films via UV-Ozone Surface Modification. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3094-3099.	3.0	4
7	Guanidine Thiocyanate-Induced High-Quality Perovskite Film for Efficient Tin-Based Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	5.8	12
8	Epitaxial strain tunable conductivity and charge transport of Ba <sub>0.6</sub> La <sub>0.4</sub> TiO <sub>3</sub> thin films deposited by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	1
9	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
10	Enhanced energy storage performance and thermal stability in relaxor ferroelectric (1-x)BiFeO <sub>3</sub> -x(0.85BaTiO <sub>3</sub> -0.15Bi(Sn <sub>0.5</sub> Zn <sub>0.5</sub> )O <sub>3</sub> ) ceramics. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2646-2654.	3.8	38
11	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
12	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
13	Binary Solvent Systems for Piezoelectric Printing Crack-Free PAM/ZrO <sub>x</sub> Hybrid Thin Films through Nanostructure Modulation. <i>Langmuir</i> , 2021, 37, 5979-5985.	3.5	2
14	Enhancement of ferroelectricity and homogeneity of orthorhombic phase in Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> thin films. <i>Nanotechnology</i> , 2021, 32, 335704.	2.6	6
15	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
16	Reaction-Induced Phase Separation and Morphology Evolution of Benzoxazine/Epoxy/Imidazole Ternary Blends. <i>Polymers</i> , 2021, 13, 2945.	4.5	3
17	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
18	Functional Metal Oxide Ink Systems for Drop-on-Demand Printed Thin-Film Transistors. <i>Langmuir</i> , 2020, 36, 8655-8667.	3.5	14

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19	MnO <sub>2</sub> -doping induced enhanced multiferroicity in Bi <sub>0.83</sub> Sm <sub>0.17</sub> Fe <sub>0.95</sub> Sc <sub>0.05</sub> O <sub>3</sub> ceramics. Applied Physics Letters, 2020, 116, .	3.3	6
20	High-Performance Bismuth-Doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. Angewandte Chemie, 2020, 132, 13995-14003.	2.0	22
21	Enhanced Stability of Antiferromagnetic Skyrmion during Its Motion by Anisotropic Dzyaloshinskii-Moriya Interaction. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000157.	2.4	4
22	Creation of a two-dimensional polymer and graphene heterostructure. Nanoscale, 2020, 12, 5170-5174.	5.6	16
23	High-Performance Bismuth-Doped Nickel Aerogel Electrocatalyst for the Methanol Oxidation Reaction. Angewandte Chemie - International Edition, 2020, 59, 13891-13899.	13.8	179
24	Investigation of direct inkjet-printed versus spin-coated ZrO <sub>2</sub> for sputter IGZO thin film transistor. Nanoscale Research Letters, 2019, 14, 80.	5.7	9
25	Oxygen vacancy mediated conductivity and charge transport properties of epitaxial Ba <sub>0.6</sub> La <sub>0.4</sub> TiO <sub>3</sub> thin films. Applied Physics Letters, 2019, 114, .	3.3	6
26	Efficient and carbon-based hole transport layer-free CsPb <sub>2</sub> Br planar perovskite solar cells using PMMA modification. Journal of Materials Chemistry C, 2019, 7, 3852-3861.	5.5	102
27	A Simple, Low Cost Ink System for Drop-on-Demand Printing High Performance Metal Oxide Dielectric Film at Low Temperature. ACS Applied Materials & Interfaces, 2019, 11, 5193-5199.	8.0	16
28	Promoting the Hole Extraction with Co <sub>3</sub> O <sub>4</sub> Nanomaterials for Efficient Carbon-Based CsPb <sub>2</sub> Br Perovskite Solar Cells. Solar Rrl, 2019, 3, 1800315.	5.8	65
29	Room Temperature Fabrication of High Quality ZrO <sub>2</sub> Dielectric Films for High Performance Flexible Organic Transistor Applications. IEEE Electron Device Letters, 2018, 39, 280-283.	3.9	13
30	High-performance flexible oxide TFTs: optimization of a-IGZO film by modulating the voltage waveform of pulse DC magnetron sputtering without post treatment. Journal of Materials Chemistry C, 2018, 6, 2522-2532.	5.5	38
31	Brownian motion and entropic torque driven motion of domain walls in antiferromagnets. Physical Review B, 2018, 97, .	3.2	14
32	Induced nano-scale self-formed metal-oxide interlayer in amorphous silicon tin oxide thin film transistors. Scientific Reports, 2018, 8, 4160.	3.3	7
33	Facile Room Temperature Routes to Improve Performance of IGZO Thin-Film Transistors by an Ultrathin Al <sub>2</sub> O <sub>3</sub> Passivation Layer. IEEE Transactions on Electron Devices, 2018, 65, 537-541.	3.0	10
34	Low-temperature fabrication of sputtered high-k HfO <sub>2</sub> gate dielectric for flexible a-IGZO thin film transistors. Applied Physics Letters, 2018, 112, .	3.3	84
35	Highly Conductive and Transparent AZO Films Fabricated by PLD as Source/Drain Electrodes for TFTs. Materials, 2018, 11, 2480.	2.9	8
36	Direct evidence for the coexistence of nanoscale high-conduction and low-conduction phases in VO <sub>2</sub> films. Applied Physics Letters, 2018, 113, .	3.3	7

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37	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
38	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
39	Bias Stability Enhancement in Thin-Film Transistor with a Solution-Processed ZrO <sub>2</sub> Dielectric as Gate Insulator. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 806.	2.5	9
40	Flexible, Fatigue-Free, and Large-Scale Bi <sub>3.25</sub> La <sub>0.75</sub> Ti <sub>3</sub> O <sub>12</sub> Ferroelectric Memories. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 21428-21433.	8.0	35
41	Ferroelectric Diodes with Charge Injection and Trapping. <i>Physical Review Applied</i> , 2017, 7, .	3.8	43
42	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
43	Tuning electrical conductivity, charge transport, and ferroelectricity in epitaxial BaTiO <sub>3</sub> films by Nb-doping. <i>Applied Physics Letters</i> , 2017, 110, 182903.	3.3	18
44	Flexible, Semitransparent, and Inorganic Resistive Memory based on BaTi <sub>0.95</sub> Co <sub>0.05</sub> O <sub>3</sub> Film. <i>Advanced Materials</i> , 2017, 29, 1700425.	21.0	89
45	All-sputtered, flexible, bottom-gate IGZO/Al <sub>2</sub> O <sub>3</sub> 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
46	Island-Like AZO/Al <sub>2</sub> O <sub>3</sub> Bilayer Channel Structure for Thin Film Transistors. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700063.	3.7	10
47	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
48	A Practical ITO Replacement Strategy: Sputtering-Free Processing of a Metallic Nanonetwork. <i>Advanced Materials Technologies</i> , 2017, 2, 1700061.	5.8	39
49	Large electroresistance and tunable photovoltaic properties of ferroelectric nanoscale capacitors based on ultrathin super-tetragonal BiFeO <sub>3</sub> films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3323-3329.	5.5	29
50	High mobility solution-processed C <sub>8</sub> -BTBT organic thin-film transistors via UV-ozone interface modification. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10652-10659.	5.5	39
51	Resistive switching induced by charge trapping/detrapping: a unified mechanism for colossal electroresistance in certain Nb:SrTiO <sub>3</sub> -based heterojunctions. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7317-7327.	5.5	61
52	An Unusual Mechanism for Negative Differential Resistance in Ferroelectric Nanocapacitors: Polarization Switching-Induced Charge Injection Followed by Charge Trapping. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27120-27126.	8.0	30
53	Metallic Nanonetworks: A Practical ITO Replacement Strategy: Sputtering-Free Processing of a Metallic Nanonetwork (Adv. Mater. Technol. 8/2017). <i>Advanced Materials Technologies</i> , 2017, 2, .	5.8	0
54	High-density array of ferroelectric nanodots with robust and reversibly switchable topological domain states. <i>Science Advances</i> , 2017, 3, e1700919.	10.3	125

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55	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
56	Electronic Structure and Charge-Trapping Characteristics of the Al <sub>2</sub> O <sub>3</sub> -TiAlO-SiO <sub>2</sub> Gate Stack for Nonvolatile Memory Applications. <i>Nanoscale Research Letters</i> , 2017, 12, 270.	5.7	17
57	A Simple Method for High-Performance, Solution-Processed, Amorphous ZrO <sub>2</sub> Gate Insulator TFT with a High Concentration Precursor. <i>Materials</i> , 2017, 10, 972.	2.9	24
58	High Conductivity and Adhesion of Cu-Cr-Zr Alloy for TFT Gate Electrode. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 820.	2.5	6
59	Properties-Adjustable Alumina-Zirconia Nanolaminate Dielectric Fabricated by Spin-Coating. <i>Nanomaterials</i> , 2017, 7, 419.	4.1	5
60	Plasmonic refraction-induced ultrahigh transparency of highly conducting metallic networks. <i>Laser and Photonics Reviews</i> , 2016, 10, 465-472.	8.7	6
61	Enhanced performance of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3-x</sub> Cl <sub>x</sub> perovskite solar cells by CH <sub>3</sub> NH <sub>3</sub> I modification of TiO <sub>2</sub> -perovskite layer interface. <i>Nanoscale Research Letters</i> , 2016, 11, 316.	5.7	50
62	Colossal Figure of Merit in Transparent Conducting Metallic Ribbon Networks. <i>Advanced Materials Technologies</i> , 2016, 1, .	5.8	29
63	Optimization of hierarchical structure and nanoscale-enabled plasmonic refraction for window electrodes in photovoltaics. <i>Nature Communications</i> , 2016, 7, 12825.	12.8	46
64	Preparation of epitaxial hexagonal YMnO <sub>3</sub> thin films and observation of ferroelectric vortex domains. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	49
65	Vertically Free-Standing Ordered Pb(Zr <sub>0.52</sub> Ti <sub>0.48</sub> )O <sub>3</sub> Nanocup Arrays by Template-Assisted Ion Beam Etching. <i>Nanoscale Research Letters</i> , 2016, 11, 225.	5.7	4
66	Inorganic Solar Cells Based on Electrospun ZnO Nanofibrous Networks and Electrodeposited Cu <sub>2</sub> O. <i>Nanoscale Research Letters</i> , 2015, 10, 465.	5.7	10
67	Current rectifying and resistive switching in high density BiFeO <sub>3</sub> nanocapacitor arrays on Nb-SrTiO <sub>3</sub> substrates. <i>Scientific Reports</i> , 2015, 5, 9680.	3.3	68
68	Controlling Resistance Switching Polarities of Epitaxial BaTiO <sub>3</sub> Films by Mediation of Ferroelectricity and Oxygen Vacancies. <i>Advanced Electronic Materials</i> , 2015, 1, 1500069.	5.1	64
69	Self-assembled nanoscale capacitor cells based on ultrathin BiFeO <sub>3</sub> films. <i>Applied Physics Letters</i> , 2014, 104, 182903.	3.3	13
70	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