

Xizu Wang

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,127
citations

201658

27
h-index

161844

54
g-index

70
all docs

70
docs citations

70
times ranked

5145
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of catalytic sites for oxygen reduction and oxygen evolution in N-doped graphene materials: Development of highly efficient metal-free bifunctional electrocatalyst. <i>Science Advances</i> , 2016, 2, e1501122.	10.3	1,078
2	Localized Electron Density Engineering for Stabilized $\text{B-}\hat{1}^3\text{ CsSnl}₃</math>-Based Perovskite Solar Cells with Efficiencies \hat{g}t;10\%. ACS Energy Letters, 0, , 1480-1489.$	17.4	125
3	Enhancement of thermoelectric performance of PEDOT:PSS films by post-treatment with a superacid. <i>RSC Advances</i> , 2018, 8, 18334-18340.	3.6	118
4	Ultra-high Seebeck coefficient and low thermal conductivity of a centimeter-sized perovskite single crystal acquired by a modified fast growth method. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1255-1260.	5.5	101
5	Degradation mechanisms in organic solar cells: Localized moisture encroachment and cathode reaction. <i>Solar Energy Materials and Solar Cells</i> , 2012, 104, 1-6.	6.2	93
6	Significant Enhancement in the Seebeck Coefficient and Power Factor of p-Type Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) through the Incorporation of n-Type MXene. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 13013-13020.	8.0	82
7	Cesium Carbonate Functionalized Graphene Quantum Dots as Stable Electron-Selective Layer for Improvement of Inverted Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1092-1099.	8.0	77
8	Modulation of the doping level of PEDOT:PSS film by treatment with hydrazine to improve the Seebeck coefficient. <i>RSC Advances</i> , 2020, 10, 1786-1792.	3.6	77
9	Enhanced Thermoelectric Performance of PEDOT:PSS Films by Sequential Post-treatment with Formamide. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700429.	3.6	69
10	Graphene quantum dots-incorporated cathode buffer for improvement of inverted polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 214-218.	6.2	64
11	Tailoring the phase transition temperature to achieve high-performance cubic GeTe-based thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 18880-18890.	10.3	61
12	Achieving high thermoelectric quality factor toward high figure of merit in GeTe. <i>Materials Today Physics</i> , 2020, 14, 100239.	6.0	61
13	High-performance thermoelectric materials based on ternary $\text{TiO}_2/\text{CNT}/\text{PANI}$ composites. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 9411-9418.	2.8	55
14	Enhancement of the performance of organic solar cells by electrospray deposition with optimal solvent system. <i>Solar Energy Materials and Solar Cells</i> , 2014, 121, 119-125.	6.2	49
15	Bottom-Up Engineering Strategies for High-Performance Thermoelectric Materials. <i>Nano-Micro Letters</i> , 2021, 13, 119.	27.0	48
16	Elimination of Burn-in Open-Circuit Voltage Degradation by ZnO Surface Modification in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 1608-1615.	8.0	45
17	Effective enhancement of thermoelectric and mechanical properties of germanium telluride <i>via</i> rhenium-doping. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16940-16948.	5.5	38
18	Transparent flexible thin-film $\hat{p}\hat{n}$ junction thermoelectric module. <i>Npj Flexible Electronics</i> , 2020, 4, .	10.7	37

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19	Improved Alignment of PEDOT:PSS Induced by in-situ Crystallization of "Green" Dimethylsulfone Molecules to Enhance the Polymer Thermoelectric Performance. <i>Frontiers in Chemistry</i> , 2019, 7, 783.	3.6	36
20	Enhanced Thermoelectric Performance of Nanocrystalline Indium Tin Oxide Pellets by Modulating the Density and Nanoporosity Via Spark Plasma Sintering. <i>ACS Applied Nano Materials</i> , 2020, 3, 10156-10165.	5.0	35
21	Improved Thermoelectric Properties and Environmental Stability of Conducting PEDOT:PSS Films Post-treated With Imidazolium Ionic Liquids. <i>Frontiers in Chemistry</i> , 2019, 7, 870.	3.6	35
22	Origin of High Thermoelectric Performance in Earth-Abundant Phosphide "Tetrahedrite. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 9150-9157.	8.0	35
23	Realizing zT Values of 2.0 in Cubic GeTe. <i>ChemNanoMat</i> , 2021, 7, 476-482.	2.8	35
24	Enhanced thermoelectric performance of poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonate) (PEDOT:PSS) with long-term humidity stability via sequential treatment with trifluoroacetic acid. <i>Polymer International</i> , 2020, 69, 84-92.	3.1	33
25	Rapid UV-Curable Form-Stable Polyethylene-Glycol-Based Phase Change Material. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2747-2756.	4.4	33
26	Surface modification of microencapsulated phase change materials with nanostructures for enhancement of their thermal conductivity. <i>Materials Chemistry and Physics</i> , 2022, 277, 125438.	4.0	32
27	Enhanced absorbance and electron collection in inverted organic solar cells: Optical admittance and transient photocurrent analyses. <i>Organic Electronics</i> , 2014, 15, 1306-1311.	2.6	31
28	Effect of substituents in sulfoxides on the enhancement of thermoelectric properties of PEDOT:PSS: experimental and modelling evidence. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 976-984.	3.4	29
29	High performance optoelectronic device based on semitransparent organic photovoltaic cell integrated with organic light-emitting diode. <i>Organic Electronics</i> , 2011, 12, 1429-1433.	2.6	26
30	Pinhole-free mixed perovskite film for bending durable mixed perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 175, 111-117.	6.2	26
31	Investigation of Interface Properties for ClAlPc/C ₆₀ Heterojunction-Based Inverted Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2521-2526.	3.1	25
32	Effects of Damkh"ler number of evaporation on the morphology of active layer and the performance of organic heterojunction solar cells fabricated by electrospray method. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 140-147.	6.2	25
33	Pure Blue-Light Emissive Poly(oligofluorenes) with Bifunctional POSS in the Main Chain. <i>Macromolecular Rapid Communications</i> , 2014, 35, 801-806.	3.9	24
34	Organic photovoltaic power conversion efficiency improved by AC electric field alignment during fabrication. <i>Applied Physics Letters</i> , 2011, 99, 053305.	3.3	23
35	Efficient Semitransparent Bulk-Heterojunction Organic Photovoltaic Cells With High-Performance Low Processing Temperature Indium-Tin Oxide Top Electrode. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 1685-1689.	2.9	21
36	Efficient, large area organic photovoltaic modules with active layers processed with non-halogenated solvents in air. <i>Organic Electronics</i> , 2017, 43, 55-63.	2.6	21

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37	Sodium formaldehyde sulfoxylate, an ionic-type, water-soluble reducing reagent to effectively improve seebeck coefficient of PEDOT:PSS film. <i>Organic Electronics</i> , 2020, 81, 105682.	2.6	21
38	Electrical property modified hole transport layer (PEDOT:PSS) enhance the efficiency of perovskite solar cells: Hybrid co-solvent post-treatment. <i>Organic Electronics</i> , 2020, 78, 105582.	2.6	20
39	Flexible elemental thermoelectrics with ultra-high power density. <i>Materials Today Energy</i> , 2022, 25, 100964.	4.7	20
40	A highly flexible form-stable silicone-octadecane PCM composite for heat harvesting. <i>Materials Today Advances</i> , 2022, 14, 100227.	5.2	20
41	Fully Printable Organic and Perovskite Solar Cells with Transfer-Printed Flexible Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18730-18738.	8.0	19
42	Binary treatment of PEDOT:PSS films with nitric acid and imidazolium-based ionic liquids to improve the thermoelectric properties. <i>Materials Advances</i> , 2020, 1, 3233-3242.	5.4	18
43	The benzyl viologen radical cation: an effective n-dopant for poly(naphthalenediimide-bithiophene). <i>Journal of Materials Chemistry A</i> , 2020, 8, 18916-18924.	10.3	18
44	Simultaneous enhancements in the Seebeck coefficient and conductivity of PEDOT:PSS by blending ferroelectric BaTiO ₃ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16952-16960.	10.3	16
45	Performance enhancement in organic photovoltaic devices using plasma-polymerized fluorocarbon-modified Ag nanoparticles. <i>Organic Electronics</i> , 2011, 12, 1943-1947.	2.6	14
46	Aqueous Synthesis, Doping, and Processing of n-Type Ag ₂ Se for High Thermoelectric Performance at Near-Room-Temperature. <i>Inorganic Chemistry</i> , 2022, 61, 6451-6458.	4.0	14
47	Photoresponsive Thermoelectric Materials Derived from Fullerene-C ₆₀ PEDOT Hybrid Polymers. <i>ACS Applied Energy Materials</i> , 2020, 3, 6726-6734.	5.1	13
48	Gallium-Doped Zinc Oxide Nanostructures for Tunable Transparent Thermoelectric Films. <i>ACS Applied Nano Materials</i> , 2022, 5, 8631-8639.	5.0	13
49	Soluble bipolar star-shaped molecule as highly stable and efficient blue light emitter. <i>RSC Advances</i> , 2015, 5, 15399-15406.	3.6	12
50	Crowning of dibenzosilole with a naphthalenediimide functional group to prepare an electron acceptor for organic solar cells. <i>Dyes and Pigments</i> , 2015, 120, 314-321.	3.7	12
51	A high work function anode interfacial layer via mild temperature thermal decomposition of a C60F36 thin film on ITO. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1491.	5.5	11
52	An Electron-Accepting Chromophore Based on Fluorene and Naphthalenediimide Building Blocks for Solution-Processable Bulk Heterojunction Devices. <i>Asian Journal of Organic Chemistry</i> , 2015, 4, 800-807.	2.7	11
53	Growth and in-plane undulations of GaAs/Ge superlattices on [001]-oriented Ge and GaAs substrates: formation of regular 3D island-in-network nanostructures. <i>Journal of Materials Chemistry C</i> , 2018, 6, 13059-13068.	5.5	9
54	Ultrathin Film Broadband Terahertz Antireflection Coating Based on Impedance Matching Method. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-8.	2.9	8

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55	Low band-gap weak donor-“strong acceptor conjugated polymer for organic solar cell. RSC Advances, 2015, 5, 98876-98879.	3.6	7
56	A dopant-free polymer as hole-transporting material for highly efficient and stable perovskite solar cells. Progress in Photovoltaics: Research and Applications, 2018, 26, 994-1002.	8.1	7
57	Organic photovoltaic initial stage degradation analysis using impedance spectroscopy. Synthetic Metals, 2015, 202, 63-67.	3.9	6
58	Organic photovoltaic annealing process analysis using impedance spectroscopy. Solar Energy, 2017, 144, 367-375.	6.1	6
59	Nitrogen-mediated aligned growth of hexagonal BN films for reliable high-performance InSe transistors. Journal of Materials Chemistry C, 2020, 8, 4421-4431.	5.5	5
60	Dual nanostructures in poly (3-hexylthiophene) based organic photovoltaics under alternative current electric field. Thin Solid Films, 2012, 520, 5770-5774.	1.8	4
61	Simultaneously enhancement of quantum efficiency and color purity by molecular design in star-shaped solution-processed blue emitters. Organic Electronics, 2016, 37, 14-23.	2.6	4
62	Dielectric dispersion and superior thermal characteristics in isotope-enriched hexagonal boron nitride thin films: evaluation as thermally self-dissipating dielectrics for GaN transistors. Journal of Materials Chemistry C, 2020, 8, 9558-9568.	5.5	4
63	Enhancement of the performance of planar perovskite solar cells by active-layer surface/interface modification with optimal mixed solvent-antisolvent post-treatment. Organic Electronics, 2022, 100, 106349.	2.6	4
64	Determination of dominant recombination site in perovskite solar cells through illumination-side-dependent impedance spectroscopy. Progress in Photovoltaics: Research and Applications, 0, , .	8.1	4
65	Integration of transmissible organic electronic devices for sensor application. , 2013, , .		1
66	Prolonged lifetime of polymer solar cells with amphiphilic monolayers modified cathodes. Organic Electronics, 2017, 49, 368-374.	2.6	1
67	Low-temperature processed, stable n-i-p perovskite solar cells with indene-C60-bisadduct as electron transport material. Journal of Materials Science: Materials in Electronics, 2021, 32, 12872-12880.	2.2	1
68	A simple green route to blue thermoelectric PEDOT: PSS. Applied Physics Letters, 2021, 119, 223904.	3.3	1
69	Synthesis and optical and electronic properties of one-dimensional sulfoxonium-based hybrid metal halide (CH ₃) ₃ SOPbI ₃ . Chemical Communications, 2021, 57, 5790-5793.	4.1	0
70	Highly Efficient IR Transparent Perovskite Solar Cells. , 2017, , .		0