

Feng Zhu

List of Publications by Year in descending order

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60
papers

2,436
citations

236925

25
h-index

206112

48
g-index

62
all docs

62
docs citations

62
times ranked

3258
citing authors

#	ARTICLE	IF	CITATIONS
1	Zn-ION Hybrid Micro-Supercapacitors with Ultrahigh Areal Energy Density and Long-Term Durability. <i>Advanced Materials</i> , 2019, 31, e1806005.	21.0	266
2	Compliant and stretchable thermoelectric coils for energy harvesting in miniature flexible devices. <i>Science Advances</i> , 2018, 4, eaau5849.	10.3	208
3	Weak Epitaxy Growth Affording High-Mobility Thin Films of Disk-Like Organic Semiconductors. <i>Advanced Materials</i> , 2007, 19, 2168-2171.	21.0	184
4	Recent Progress in Micro-Supercapacitor Design, Integration, and Functionalization. <i>Small Methods</i> , 2019, 3, 1800367.	8.6	154
5	Stimulus-Responsive Micro-Supercapacitors with Ultrahigh Energy Density and Reversible Electrochromic Window. <i>Advanced Materials</i> , 2017, 29, 1604491.	21.0	153
6	Phthalocyanato Tin(IV) Dichloride: An Air-Stable, High-Performance, n-Type Organic Semiconductor with a High Field-Effect Electron Mobility. <i>Advanced Materials</i> , 2008, 20, 2142-2144.	21.0	87
7	Thermoswitchable on-chip microsupercapacitors: one potential self-protection solution for electronic devices. <i>Energy and Environmental Science</i> , 2018, 11, 1717-1722.	30.8	79
8	A flexible microsystem capable of controlled motion and actuation by wireless power transfer. <i>Nature Electronics</i> , 2020, 3, 172-180.	26.0	73
9	3D Self-Assembled Microelectronic Devices: Concepts, Materials, Applications. <i>Advanced Materials</i> , 2020, 32, e1902994.	21.0	67
10	Fully Integrated Organic Nanocrystal Diode as High Performance Room Temperature NO ₂ Sensor. <i>Advanced Materials</i> , 2016, 28, 2971-2977.	21.0	57
11	Self-Assembly of Integrated Tubular Microsupercapacitors with Improved Electrochemical Performance and Self-Protective Function. <i>ACS Nano</i> , 2019, 13, 8067-8075.	14.6	57
12	On-chip 3D interdigital micro-supercapacitors with ultrahigh areal energy density. <i>Energy Storage Materials</i> , 2020, 27, 17-24.	18.0	54
13	Ultrathin-Film Growth of <i>para</i> -Sexiphenyl (I): Submonolayer Thin-Film Growth as a Function of the Substrate Temperature. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7816-7820.	2.6	52
14	Stamping Fabrication of Flexible Planar Micro-Supercapacitors Using Porous Graphene Inks. <i>Advanced Science</i> , 2020, 7, 2001561.	11.2	49
15	Ultrathin-Film Growth of <i>para</i> -Sexiphenyl (II): Formation of Large-Size Domain and Continuous Thin Film. <i>Journal of Physical Chemistry B</i> , 2008, 112, 7821-7825.	2.6	47
16	Direct Thermal Enhancement of Hydrogen Evolution Reaction of On-Chip Monolayer MoS ₂ . <i>ACS Nano</i> , 2022, 16, 2921-2927.	14.6	44
17	Tin (IV) phthalocyanine oxide: An air-stable semiconductor with high electron mobility. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	41
18	Self-Assembled Flexible and Integratable 3D Microtubular Asymmetric Supercapacitors. <i>Advanced Science</i> , 2019, 6, 1901051.	11.2	39

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19	Weak Epitaxy Growth of Metal-Free Phthalocyanine on <i>p</i> -Sexiphenyl Monolayer and Double-Layer Films. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3132-3137.	2.6	38
20	All-organic tunnel junctions as connecting units in tandem organic solar cell. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	37
21	On-Chip Batteries for Dust-Sized Computers. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	36
22	Charge transport in accumulation layers of organic heterojunctions. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	32
23	High-efficiency non-doped deep-blue fluorescent organic light-emitting diodes based on carbazole/phenanthroimidazole derivatives. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10185-10190.	5.5	31
24	Single-crystal-like organic heterojunction with 40 nm thick charge accumulation layers. <i>Applied Physics Letters</i> , 2009, 94, 143305.	3.3	29
25	Simultaneous enhancement of charge transport and exciton diffusion in single-crystal-like organic semiconductors. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	28
26	Sulfate radical-based removal of chloride ion from strongly acidic wastewater: Kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 410, 124540.	12.4	27
27	Imperceptible Supercapacitors with High Area-Specific Capacitance. <i>Small</i> , 2021, 17, e2101704.	10.0	26
28	Heteroepitaxy growth high performance films of perylene diimide derivatives. <i>Organic Electronics</i> , 2010, 11, 195-201.	2.6	25
29	Integrated molecular diode as 10 ⁶ MHz half-wave rectifier based on an organic nanostructure heterojunction. <i>Nature Communications</i> , 2020, 11, 3592.	12.8	25
30	Recent developments of stamped planar micro-supercapacitors: Materials, fabrication and perspectives. <i>Nano Materials Science</i> , 2021, 3, 154-169.	8.8	25
31	Fluoride removal efficiencies and mechanism of schwertmannite from KMnO ₄ /MnO ₂ -Fe(II) processes. <i>Journal of Hazardous Materials</i> , 2020, 397, 122789.	12.4	24
32	Crystalline Organic Heterostructures Engineering Based on Vanadyl Phthalocyanine and Rod-Like Conjugated Organic Semiconductors with Selected Central Groups. <i>Advanced Functional Materials</i> , 2012, 22, 4598-4607.	14.9	23
33	Understanding Triplet Formation Pathways in Bulk Heterojunction Polymer:Fullerene Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2015, 5, 1401109.	19.5	23
34	Weak Epitaxy Growth and Phase Behavior of Planar Phthalocyanines on <i>p</i> -Sexiphenyl Monolayer Film. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6786-6792.	2.6	20
35	A novel precipitant for the selective removal of fluoride ion from strongly acidic wastewater: Synthesis, efficiency, and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 403, 124039.	12.4	20
36	Crystalline organic superlattice. <i>Applied Physics Letters</i> , 2009, 95, 203106.	3.3	19

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37	In-Plane Thermal Conductivity of Radial and Planar Si/SiO ₂ Hybrid Nanomembrane Superlattices. ACS Nano, 2017, 11, 8215-8222.	14.6	18
38	Tunable charge transfer properties in metal-phthalocyanine heterojunctions. Nanoscale, 2016, 8, 8607-8617.	5.6	17
39	Electrical instability in vanadyl-phthalocyanine thin-film transistors. Applied Physics Letters, 2008, 93, .	3.3	15
40	Nano energy for miniaturized systems. Nano Materials Science, 2020, , .	8.8	15
41	Calcium sulfide-organosilicon complex for sustained release of H ₂ S in strongly acidic wastewater: Synthesis, mechanism and efficiency. Journal of Hazardous Materials, 2022, 421, 126745.	12.4	14
42	Doped crystalline thin-film deep-blue organic light-emitting diodes. Journal of Materials Chemistry C, 2021, 9, 2236-2242.	5.5	13
43	Highly Symmetric and Extremely Compact Multiple Winding Microtubes by a Dry Rolling Mechanism. Advanced Materials Interfaces, 2020, 7, 1902048.	3.7	12
44	Reductive Removal and Recovery of As(V) and As(III) from Strongly Acidic Wastewater by a UV/Formic Acid Process. Environmental Science & Technology, 2022, 56, 9732-9743.	10.0	12
45	Hole Transparent and Hole Blocking Transport in Single-Crystal-Like Organic Heterojunction: When Rods Hold up Disks. ACS Applied Materials & Interfaces, 2011, 3, 2195-2199.	8.0	11
46	Fully Integrated Microscale Quasi-2D Crystalline Molecular Field-Effect Transistors. Advanced Functional Materials, 2019, 29, 1903738.	14.9	11
47	Decoding of Oxygen Network Distortion in a Layered High-Rate Anode by <i>In Situ</i> Investigation of a Single Microelectrode. ACS Nano, 2020, 14, 11753-11764.	14.6	10
48	Highly oriented crystalline thin film with high electroluminescence performance fabricated by weak epitaxy growth. Organic Electronics, 2020, 84, 105806.	2.6	10
49	High-performance 2,9-DPh-DNTT organic thin-film transistor by weak epitaxy growth method. Organic Electronics, 2021, 93, 106170.	2.6	10
50	Crystalline organic thin films for crystalline OLEDs (I): orientation of phenanthroimidazole derivatives. Journal of Materials Chemistry C, 2022, 10, 2663-2670.	5.5	9
51	Very low hysteresis organic thin-film transistors. Semiconductor Science and Technology, 2009, 24, 085009.	2.0	8
52	Interfacial energy level bending in a crystalline p/p-type organic heterostructure. Applied Physics Letters, 2011, 98, .	3.3	8
53	Charge transport in organic nanocrystal diodes based on rolled-up robust nanomembrane contacts. Beilstein Journal of Nanotechnology, 2017, 8, 1277-1282.	2.8	8
54	Direct Imaging of Space-Charge Accumulation and Work Function Characteristics of Functional Organic Interfaces. Small, 2018, 14, e1703647.	10.0	8

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55	Hybrid semiconductor/metal nanomembrane superlattices for thermoelectric application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 620-625.	1.8	6
56	A Novel Large-Scale, Multilayer, and Facilely Aligned Micropatterning Technique Based on Flexible and Reusable SU-8 Shadow Masks. <i>Advanced Materials Technologies</i> , 2019, 4, 1900519.	5.8	4
57	Significant improvement of 2,9-DPh-DNTT organic thin-film transistors based on organic heterojunction buffer layer. <i>Organic Electronics</i> , 2021, 93, 106159.	2.6	4
58	A Memristor-Based Bioinspired Multimodal Sensory Memory System for Sensory Adaptation of Robots. <i>Advanced Intelligent Systems</i> , 2022, 4, .	6.1	4
59	On-chip integrated process-programmable sub-10-nm thick molecular devices switching between photomultiplication and memristive behaviour. <i>Nature Communications</i> , 2022, 13, .	12.8	4
60	The Recycling of Acid Wastewater with High Concentrations of Organic Matter: Recovery of H ₂ SO ₄ and Preparation of Activated Carbon. <i>Water (Switzerland)</i> , 2022, 14, 183.	2.7	3