

Ni Zhao

List of Publications by Year in descending order

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163
papers

15,185
citations

15504
65
h-index

18130
120
g-index

164
all docs

164
docs citations

164
times ranked

19558
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy Level Modification in Lead Sulfide Quantum Dot Thin Films through Ligand Exchange. ACS Nano, 2014, 8, 5863-5872.	14.6	843
2	Unobtrusive Sensing and Wearable Devices for Health Informatics. IEEE Transactions on Biomedical Engineering, 2014, 61, 1538-1554.	4.2	607
3	Phenylalkylamine Passivation of Organolead Halide Perovskites Enabling High Efficiency and Air-Stable Photovoltaic Cells. Advanced Materials, 2016, 28, 9986-9992.	21.0	532
4	Downscaling of self-aligned, all-printed polymer thin-film transistors. Nature Nanotechnology, 2007, 2, 784-789.	31.5	515
5	Inorganic-Organic Hybrid Solar Cell: Bridging Quantum Dots to Conjugated Polymer Nanowires. Nano Letters, 2011, 11, 3998-4002.	9.1	440
6	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. ACS Nano, 2017, 11, 4507-4513.	14.6	435
7	Colloidal PbS Quantum Dot Solar Cells with High Fill Factor. ACS Nano, 2010, 4, 3743-3752.	14.6	416
8	Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement. Advanced Functional Materials, 2016, 26, 1178-1187.	14.9	367
9	Emerging Technologies of Flexible Pressure Sensors: Materials, Modeling, Devices, and Manufacturing. Advanced Functional Materials, 2019, 29, 1808509.	14.9	316
10	The Role of Chlorine in the Formation Process of $\text{CH}_3\text{NH}_3\text{PbCl}_x$ Perovskite. Advanced Functional Materials, 2014, 24, 7102-7108.	14.9	294
11	HPbI_3 : A New Precursor Compound for Highly Efficient Solution-Processed Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 1120-1126.	14.9	293
12	Nitrogen-doped hierarchically porous carbon foam: A free-standing electrode and mechanical support for high-performance supercapacitors. Nano Energy, 2016, 25, 193-202.	16.0	287
13	Improved Current Extraction from ZnO/PbS Quantum Dot Heterojunction Photovoltaics Using a MoO_3 Interfacial Layer. Nano Letters, 2011, 11, 2955-2961.	9.1	265
14	Molecular-weight dependence of interchain polaron delocalization and exciton bandwidth in high-mobility conjugated polymers. Physical Review B, 2006, 74, .	3.2	262
15	Amorphous nanostructured FeOOH and Co-Ni double hydroxides for high-performance aqueous asymmetric supercapacitors. Nano Energy, 2016, 21, 145-153.	16.0	254
16	Interstitial Occupancy by Extrinsic Alkali Cations in Perovskites and Its Impact on Ion Migration. Advanced Materials, 2018, 30, e1707350.	21.0	233
17	Organic Cation-Dependent Degradation Mechanism of Organotin Halide Perovskites. Advanced Functional Materials, 2016, 26, 3417-3423.	14.9	229
18	Native Defect-Induced Hysteresis Behavior in Organolead Iodide Perovskite Solar Cells. Advanced Functional Materials, 2016, 26, 1411-1419.	14.9	218

#	ARTICLE	IF	CITATIONS
19	Hollow-Structured Graphene-Silicone-Composite-Based Piezoresistive Sensors: Decoupled Property Tuning and Bending Reliability. <i>Advanced Materials</i> , 2017, 29, 1702675.	21.0	213
20	Hidden Structure Ordering Along Backbone of Fused-Ring Electron Acceptors Enhanced by Ternary Bulk Heterojunction. <i>Advanced Materials</i> , 2018, 30, e1802888.	21.0	212
21	High-performance planar heterojunction perovskite solar cells: Preserving long charge carrier diffusion lengths and interfacial engineering. <i>Nano Research</i> , 2014, 7, 1749-1758.	10.4	205
22	Photoexcitation dynamics in solution-processed formamidinium lead iodide perovskite thin films for solar cell applications. <i>Light: Science and Applications</i> , 2016, 5, e16056-e16056.	16.6	194
23	Flexible Organic/Inorganic Hybrid Near-Infrared Photoplethysmogram Sensor for Cardiovascular Monitoring. <i>Advanced Materials</i> , 2017, 29, 1700975.	21.0	193
24	High performance inverted structure perovskite solar cells based on a PCBM:polystyrene blend electron transport layer. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9098-9102.	10.3	192
25	Quantum dot field effect transistors. <i>Materials Today</i> , 2013, 16, 312-325.	14.2	188
26	Benzylamine-Treated Wide-Bandgap Perovskite with High Thermal-Photostability and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1701048.	19.5	188
27	Charge Transport Physics of Conjugated Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2010, 22, 3893-3898.	21.0	178
28	Electron Mobility Exceeding $10 \text{ cm}^2/\text{Vs}$ and Band-Like Charge Transport in Solution-Processed n-Channel Organic Thin-Film Transistors. <i>Advanced Materials</i> , 2016, 28, 5276-5283.	21.0	173
29	Anisotropy of Charge Transport in a Uniaxially Aligned and Chain-Extended, High-Mobility, Conjugated Polymer Semiconductor. <i>Advanced Functional Materials</i> , 2011, 21, 932-940.	14.9	166
30	Efficient Red Perovskite Light-Emitting Diodes Based on Solution-Processed Multiple Quantum Wells. <i>Advanced Materials</i> , 2017, 29, 1606600.	21.0	155
31	Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 6186-6195.	6.7	150
32	Pulse Transit Time Based Continuous Cuffless Blood Pressure Estimation: A New Extension and A Comprehensive Evaluation. <i>Scientific Reports</i> , 2017, 7, 11554.	3.3	149
33	Downscaling of Organic Field-Effect Transistors with a Polyelectrolyte Gate Insulator. <i>Advanced Materials</i> , 2008, 20, 4708-4713.	21.0	138
34	A high-sensitivity near-infrared phototransistor based on an organic bulk heterojunction. <i>Nanoscale</i> , 2013, 5, 11850.	5.6	134
35	Controlled orientation of liquid-crystalline polythiophene semiconductors for high-performance organic thin-film transistors. <i>Applied Physics Letters</i> , 2005, 86, 142102.	3.3	130
36	Bidirectional optical signal transmission between two identical devices using perovskite diodes. <i>Nature Electronics</i> , 2020, 3, 156-164.	26.0	126

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37	Continuous Blood Pressure Measurement From Invasive to Unobtrusive: Celebration of 200th Birth Anniversary of Carl Ludwig. IEEE Journal of Biomedical and Health Informatics, 2016, 20, 1455-1465.	6.3	124
38	Composition-Engineered Tuned Wide Bandgap Perovskites: From Grain Engineering to Stability and Performance Improvement. Advanced Functional Materials, 2018, 28, 1803130.	14.9	121
39	Interfacial Laser-Induced Graphene Enabling High-Performance Liquid-Solid Triboelectric Nanogenerator. Advanced Materials, 2021, 33, e2104290.	21.0	120
40	Photocurrent Enhancement of HgTe Quantum Dot Photodiodes by Plasmonic Gold Nanorod Structures. ACS Nano, 2014, 8, 8208-8216.	14.6	116
41	Template-grown graphene/porous Fe ₂ O ₃ nanocomposite: A high-performance anode material for pseudocapacitors. Nano Energy, 2015, 15, 719-728.	16.0	116
42	Low-temperature solution-processed NiO _x films for air-stable perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 11071-11077.	10.3	113
43	Fused-Ring Electron Acceptor ITIC ₂ : A Novel Stabilizer for Halide Perovskite Precursor Solution. Advanced Energy Materials, 2018, 8, 1703399.	19.5	112
44	Mercury Telluride Quantum Dot Based Phototransistor Enabling High-Sensitivity Room-Temperature Photodetection at 2000 nm. ACS Nano, 2017, 11, 5614-5622.	14.6	110
45	Phenylalkylammonium passivation enables perovskite light emitting diodes with record high-radiance operational lifetime: the chain length matters. Nature Communications, 2021, 12, 644.	12.8	109
46	Long-term blood pressure prediction with deep recurrent neural networks. , 2018, , .		108
47	Polaron Localization at Interfaces in High-Mobility Microcrystalline Conjugated Polymers. Advanced Materials, 2009, 21, 3759-3763.	21.0	105
48	Bias-Stress Effect in 1,2-Ethanedithiol-Treated PbS Quantum Dot Field-Effect Transistors. ACS Nano, 2012, 6, 3121-3127.	14.6	102
49	Heterojunction with Organic Thin Layers on Silicon for Record Efficiency Hybrid Solar Cells. Advanced Energy Materials, 2014, 4, 1300923.	19.5	100
50	Facile and scalable fabrication of three-dimensional Cu(OH) ₂ nanoporous nanorods for solid-state supercapacitors. Journal of Materials Chemistry A, 2015, 3, 17385-17391.	10.3	100
51	Heterojunction Photovoltaics Using GaAs Nanowires and Conjugated Polymers. Nano Letters, 2011, 11, 408-413.	9.1	98
52	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. ACS Energy Letters, 2019, 4, 534-541.	17.4	96
53	A thermal interface material based on foam-templated three-dimensional hierarchical porous boron nitride. Journal of Materials Chemistry A, 2018, 6, 17540-17547.	10.3	94
54	Microscopic Studies on Liquid Crystal Poly(3,3'-di-alkylquaterthiophene) Semiconductor. Macromolecules, 2004, 37, 8307-8312.	4.8	86

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55	Ion Migration in Perovskite Light-Emitting Diodes: Mechanism, Characterizations, and Material and Device Engineering. <i>Advanced Materials</i> , 2022, 34, e2108102.	21.0	85
56	Fast, Air-Stable Infrared Photodetectors based on Spray-Deposited Aqueous HgTe Quantum Dots. <i>Advanced Functional Materials</i> , 2014, 24, 53-59.	14.9	82
57	Wood Derived Composites for High Sensitivity and Wide Linear-Range Pressure Sensing. <i>Small</i> , 2018, 14, e1801520.	10.0	79
58	Multi-wavelength photoplethysmography method for skin arterial pulse extraction. <i>Biomedical Optics Express</i> , 2016, 7, 4313.	2.9	77
59	Recent Advances in Biointegrated Optoelectronic Devices. <i>Advanced Materials</i> , 2018, 30, e1800156.	21.0	76
60	UV Laser-Induced Polyimide-to-Graphene Conversion: Modeling, Fabrication, and Application. <i>Small Methods</i> , 2019, 3, 1900208.	8.6	76
61	Multi-Wavelength Photoplethysmography Enabling Continuous Blood Pressure Measurement With Compact Wearable Electronics. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 1514-1525.	4.2	76
62	High efficiency ternary organic solar cell with morphology-compatible polymers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11739-11745.	10.3	74
63	Self-aligned inkjet printing of highly conducting gold electrodes with submicron resolution. <i>Journal of Applied Physics</i> , 2007, 101, 064513.	2.5	73
64	Textile-Enabled Highly Reproducible Flexible Pressure Sensors for Cardiovascular Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1700222.	5.8	72
65	How Far Are We from Achieving Self-Powered Flexible Health Monitoring Systems: An Energy Perspective. <i>Advanced Energy Materials</i> , 2021, 11, 2002646.	19.5	70
66	Investigation of Na ₃ V ₂ (PO ₄) ₂ O ₂ F as a sodium ion battery cathode material: Influences of morphology and voltage window. <i>Nano Energy</i> , 2019, 60, 510-519.	16.0	69
67	Interfacial Recombination for Fast Operation of a Planar Organic/QD Infrared Photodetector. <i>Advanced Materials</i> , 2010, 22, 5250-5254.	21.0	66
68	Degradation mechanism of organic solar cells with aluminum cathode. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3303-3310.	6.2	65
69	Stabilizing Perovskite Light-Emitting Diodes by Incorporation of Binary Alkali Cations. <i>Advanced Materials</i> , 2020, 32, e1907786.	21.0	64
70	Ultrafast-Response/Recovery Flexible Piezoresistive Sensors with DNA-Like Double Helix Yarns for Epidermal Pulse Monitoring. <i>Advanced Materials</i> , 2022, 34, e2104313.	21.0	63
71	Local Charge Trapping in Conjugated Polymers Resolved by Scanning Kelvin Probe Microscopy. <i>Physical Review Letters</i> , 2009, 103, 256803.	7.8	61
72	Low-Voltage Organic Field-Effect Transistors (OFETs) with Solution-Processed Metal-Oxide as Gate Dielectric. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 4662-4667.	8.0	61

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73	Photoluminescence Enhancement in Formamidinium Lead Iodide Thin Films. <i>Advanced Functional Materials</i> , 2016, 26, 4653-4659.	14.9	61
74	High Performance Flexible Transparent Electrode via One-Step Multifunctional Treatment for Ag Nanonetwork Composites Semi-Embedded in Low-Temperature-Processed Substrate for Highly Performed Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2020, 10, 1903919.	19.5	58
75	Porous PbI ₂ films for the fabrication of efficient, stable perovskite solar cells via sequential deposition. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10223-10230.	10.3	56
76	Composition-Dependent Light-Induced Dipole Moment Change in Organometal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1253-1259.	3.1	53
77	Alignment-Free Liquid-Capsule Pressure Sensor for Cardiovascular Monitoring. <i>Advanced Functional Materials</i> , 2018, 28, 1805045.	14.9	52
78	Solution Processed Hybrid Polymer: HgTe Quantum Dot Phototransistor with High Sensitivity and Fast Infrared Response up to 2400Ånm at Room Temperature. <i>Advanced Science</i> , 2020, 7, 2000068.	11.2	52
79	Solution-Processed Ambipolar Organic Thin-Film Transistors by Blending p- and n-Type Semiconductors: Solid Solution versus Microphase Separation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28019-28026.	8.0	51
80	Substituent Effects on Physical and Photovoltaic Properties of 5,6-Difluorobenzo[<i>c</i>][1,2,5]thiadiazole-Based D-A Polymers: Toward a Donor Design for High Performance Polymer Solar Cells. <i>Macromolecules</i> , 2013, 46, 9587-9592.	4.8	50
81	Single crystal n-channel field effect transistors from solution-processed silylethynylated tetraazapentacene. <i>Journal of Materials Chemistry</i> , 2011, 21, 15201.	6.7	48
82	Control of the Carrier Type in InAs Nanocrystal Films by Predeposition Incorporation of Cd. <i>ACS Nano</i> , 2010, 4, 7373-7378.	14.6	46
83	Liquid-Solid Dual-Gate Organic Transistors with Tunable Threshold Voltage for Cell Sensing. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38687-38694.	8.0	46
84	Role of Excess FAI in Formation of High-Efficiency FAPbI ₃ -Based Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 1906875.	14.9	44
85	Sequentially-processed Na ₃ V ₂ (PO ₄) ₃ for cathode material of aprotic sodium ion battery. <i>Nano Energy</i> , 2018, 50, 323-330.	16.0	43
86	Core-dependent properties of copper nanoclusters: valence-pure nanoclusters as NIR TADF emitters and mixed-valence ones as semiconductors. <i>Chemical Science</i> , 2019, 10, 10122-10128.	7.4	42
87	Device lifetime improvement of polymer-based bulk heterojunction solar cells by incorporating copper oxide layer at Al cathode. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	41
88	Enhanced Incorporation of Guanidinium in Formamidinium-Based Perovskites for Efficient and Stable Photovoltaics: The Role of Cs and Br. <i>Advanced Functional Materials</i> , 2019, 29, 1905739.	14.9	41
89	Degradation Mechanism of Perovskite Light-Emitting Diodes: An In Situ Investigation via Electroabsorption Spectroscopy and Device Modelling. <i>Advanced Functional Materials</i> , 2020, 30, 1910464.	14.9	41
90	Understanding Charge Transport in All-Inorganic Halide Perovskite Nanocrystal Thin-Film Field Effect Transistors. <i>ACS Energy Letters</i> , 2020, 5, 2614-2623.	17.4	39

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91	Low-temperature Ni particle-templated chemical vapor deposition growth of curved graphene for supercapacitor applications. Nano Energy, 2015, 13, 458-466.	16.0	37
92	Thin Film Electrochemical Capacitors Based on Organolead Triiodide Perovskite. Advanced Electronic Materials, 2016, 2, 1600114.	5.1	37
93	Flexure-based Roll-to-roll Platform: A Practical Solution for Realizing Large-area Microcontact Printing. Scientific Reports, 2015, 5, 10402.	3.3	36
94	Integrated Plasmonic Infrared Photodetector Based on Colloidal HgTe Quantum Dots. Advanced Materials Technologies, 2019, 4, 1900354.	5.8	36
95	Integration of Colloidal Quantum Dots with Photonic Structures for Optoelectronic and Optical Devices. Advanced Science, 2021, 8, e2101560.	11.2	35
96	High-performance chemical vapor deposited graphene-on-silicon nitride waveguide photodetectors. Optics Letters, 2018, 43, 1399.	3.3	33
97	Graphene/Metal Contacts: Bistable States and Novel Memory Devices. Advanced Materials, 2012, 24, 2614-2619.	21.0	32
98	Molecular Packing and Electronic Processes in Amorphous-like Polymer Bulk Heterojunction Solar Cells with Fullerene Intercalation. Scientific Reports, 2014, 4, 5211.	3.3	32
99	A highly stretchable and conductive composite based on an emulsion-templated silver nanowire aerogel. Journal of Materials Chemistry A, 2020, 8, 1724-1730.	10.3	32
100	Hybrid Anodic and Metal-Assisted Chemical Etching Method Enabling Fabrication of Silicon Carbide Nanowires. Small, 2019, 15, e1803898.	10.0	31
101	Spectroscopic Study of Electron and Hole Polarons in a High-Mobility Donor-Acceptor Conjugated Copolymer. Journal of Physical Chemistry C, 2013, 117, 6835-6841.	3.1	29
102	Distribution of bromine in mixed iodide-bromide organolead perovskites and its impact on photovoltaic performance. Journal of Materials Chemistry A, 2016, 4, 16191-16197.	10.3	29
103	Interface Engineering of Flexible Piezoresistive Sensors via Near-Field Electrospinning Processed Spacer Layers. Small Methods, 2021, 5, e2000842.	8.6	29
104	Ternary Bulk Heterojunction Photovoltaic Cells Composed of Small Molecule Donor Additive as Cascade Material. Journal of Physical Chemistry C, 2014, 118, 20094-20099.	3.1	28
105	Characterization of MOS Structures Based on Poly (3,3'-Dialkyl-Quaterthiophene). IEEE Transactions on Electron Devices, 2005, 52, 2150-2156.	3.0	27
106	Ternary morphology facilitated thick-film organic solar cell. RSC Advances, 2015, 5, 88500-88507.	3.6	27
107	Carrier-Activated Polarization in Organometal Halide Perovskites. Journal of Physical Chemistry C, 2016, 120, 2536-2541.	3.1	27
108	Room Temperature Synthesis of HgTe Quantum Dots in an Aprotic Solvent Realizing High Photoluminescence Quantum Yields in the Infrared. Chemistry of Materials, 2017, 29, 7859-7867.	6.7	27

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109	PCA-Based Multi-Wavelength Photoplethysmography Algorithm for Cuffless Blood Pressure Measurement on Elderly Subjects. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 663-673.	6.3	27
110	Achieving a sub-10 nm nanopore array in silicon by metal-assisted chemical etching and machine learning. International Journal of Extreme Manufacturing, 2021, 3, 035104.	12.7	27
111	Excess Ion-Induced Efficiency Roll-Off in High-Efficiency Perovskite Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2021, 13, 28546-28554.	8.0	27
112	Crosstalk-Free, High-Resolution Pressure Sensor Arrays Enabled by High-Throughput Laser Manufacturing. Advanced Materials, 2022, 34, e2200517.	21.0	27
113	Anisotropic Charge Transport Enabling High-Throughput and High-Aspect-Ratio Wet Etching of Silicon Carbide. Small Methods, 2022, 6, .	8.6	27
114	A preliminary study on multi-wavelength PPG based pulse transit time detection for cuffless blood pressure measurement. , 2016, 2016, 615-618.		25
115	Diammonium-Mediated Perovskite Film Formation for High-Luminescence Red Perovskite Light-Emitting Diodes. Advanced Materials, 2022, 34, .	21.0	23
116	A Facile, Low-Cost Plasma Etching Method for Achieving Size Controlled Non-Close-Packed Monolayer Arrays of Polystyrene Nano-Spheres. Nanomaterials, 2019, 9, 605.	4.1	22
117	Unveiling the crystalline packing of Y6 in thin films by thermally induced "backbone-on" orientation. Journal of Materials Chemistry A, 2021, 9, 17030-17038.	10.3	22
118	Highly Sensitive Terahertz Thin-Film Total Internal Reflection Spectroscopy Reveals in Situ Photoinduced Structural Changes in Methylammonium Lead Halide Perovskites. Journal of Physical Chemistry C, 2018, 122, 17552-17558.	3.1	21
119	Broad-Band Photodetectors Based on Copper Indium Diselenide Quantum Dots in a Methylammonium Lead Iodide Perovskite Matrix. ACS Applied Materials & Interfaces, 2020, 12, 35201-35210.	8.0	21
120	Red Phosphorus: An Elementary Semiconductor for Room-Temperature NO ₂ Gas Sensing. ACS Sensors, 2018, 3, 2629-2636.	7.8	19
121	Antidepressant Monotherapy and Combination Therapy with Acupuncture in Depressed Patients: A Resting-State Functional Near-Infrared Spectroscopy (fNIRS) Study. Neurotherapeutics, 2021, 18, 2651-2663.	4.4	19
122	Temperature- and density-dependent channel potentials in high-mobility organic field-effect transistors. Physical Review B, 2009, 80, .	3.2	18
123	Near-Field Electrospinning Enabled Highly Sensitive and Anisotropic Strain Sensors. Advanced Materials Technologies, 2020, 5, 2000550.	5.8	18
124	In situ modification of low-cost Cu electrodes for high-performance low-voltage pentacene thin film transistors (TFTs). Organic Electronics, 2013, 14, 775-781.	2.6	17
125	Mobile Health: Design of Flexible and Stretchable Electrophysiological Sensors for Wearable Healthcare Systems. , 2014, , .		17
126	Derivatization of pristine graphene for bulk heterojunction polymeric photovoltaic devices. Journal of Materials Chemistry, 2012, 22, 16723.	6.7	16

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127	Ternary Blending Driven Molecular Reorientation of Non-Fullerene Acceptor IDIC with Backbone Order. ACS Applied Energy Materials, 2020, 3, 10814-10822.	5.1	15
128	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer J-Aggregate Organic Crystal with Graphene. Advanced Optical Materials, 2021, 9, 2100158.	7.3	15
129	A low-temperature, solution-processed high- <i>k</i> dielectric for low-voltage, high-performance organic field-effect transistors (OFETs). Journal Physics D: Applied Physics, 2013, 46, 095105.	2.8	14
130	Improving Operational Stability of p-Type Field-Effect Transistors by Charge Selective Electrodes: a General Strategy. Advanced Electronic Materials, 2019, 5, 1900055.	5.1	14
131	Limit of Voc in polymeric bulk heterojunction solar cells predicted by a double-junction model. Solar Energy Materials and Solar Cells, 2013, 108, 17-21.	6.2	13
132	A flexible tonography-based body sensor network for cuffless measurement of arterial blood pressure. , 2015, , .		13
133	Alkali-cation-enhanced benzylammonium passivation for efficient and stable perovskite solar cells fabricated through sequential deposition. Journal of Materials Chemistry A, 2020, 8, 19357-19366.	10.3	13
134	Low-voltage flexible pentacene thin film transistors with a solution-processed dielectric and modified copper source-drain electrodes. Journal of Materials Chemistry C, 2013, 1, 2585.	5.5	12
135	Nanostructured Silicon-Based Heterojunction Solar Cells with Double Hole-Transporting Layers. Advanced Electronic Materials, 2019, 5, 1800070.	5.1	12
136	General observation of the memory effect in metal-insulator-ITO structures due to indium diffusion. Semiconductor Science and Technology, 2015, 30, 074002.	2.0	11
137	A round robin study of polymer solar cells and small modules across China. Solar Energy Materials and Solar Cells, 2013, 117, 382-389.	6.2	10
138	Influence of Donor-Acceptor Arrangement on Charge Transport in Conjugated Copolymers. Journal of Physical Chemistry C, 2014, 118, 5600-5605.	3.1	10
139	Wearable Sensors: Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement (Adv. Funct. Mater. 8/2016). Advanced Functional Materials, 2016, 26, 1303-1303.	14.9	9
140	Feasibility of Fingertip Oscillometric Blood Pressure Measurement: Model-Based Analysis and Experimental Validation. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 533-542.	6.3	9
141	Technology Development for Simultaneous Wearable Monitoring of Cerebral Hemodynamics and Blood Pressure. IEEE Journal of Biomedical and Health Informatics, 2019, 23, 1952-1963.	6.3	8
142	An organic water-gated ambipolar transistor with a bulk heterojunction active layer for stable and tunable photodetection. Applied Physics Letters, 2016, 109, .	3.3	7
143	Spectroscopic Study of Charge Transport at Organic Solid-Water Interface. Chemistry of Materials, 2018, 30, 5422-5428.	6.7	7
144	Non-Invasive Capillary Blood Pressure Measurement Enabling Early Detection and Classification of Venous Congestion. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2877-2886.	6.3	7

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145	Spectral Signature of Intrachain and Interchain Polarons in Donor-Acceptor Copolymers. Acta Chimica Sinica, 2014, 72, 201.	1.4	6
146	In Situ Probing of the Charge Transport Process at the Polymer/Fullerene Heterojunction Interface. Journal of Physical Chemistry C, 2015, 119, 25598-25605.	3.1	5
147	Super-linear rectifying property of rubrene single crystal devices. Organic Electronics, 2011, 12, 1731-1735.	2.6	4
148	Low-voltage graphene field-effect transistors based on octadecylphosphonic acid modified solution-processed high- κ dielectrics. Nanotechnology, 2014, 25, 265201.	2.6	4
149	Dual-modality arterial pulse monitoring system for continuous blood pressure measurement. , 2016, 2016, 5773-5776.		4
150	Integrated near-infrared photodetector based on colloidal HgTe quantum dot loaded plasmonic waveguide. , 2017, , .		4
151	Sensitive, High-Speed, and Broadband Perovskite Photodetectors with Built-In TiO_2 Metalenses. Small, 2021, 17, e2102694.	10.0	4
152	Upconversion nanoparticles extending the spectral sensitivity of silicon photodetectors to $\lambda = 1.5 \mu\text{m}$. Nanotechnology, 2020, 31, 495201.	2.6	4
153	Coherence analysis of invasive blood pressure and its noninvasive indicators for improvement of cuffless measurement accuracy. , 2017, 2017, 2255-2258.		3
154	Comparisons of Oscillometric Blood Pressure Measurements at Different Sites of the Upper Limb. , 2018, 2018, 1168-1171.		3
155	Quasi-type-II amorphous red phosphorus@ TiO_2 hybrid films for photoanodic applications. Electrochimica Acta, 2018, 282, 185-193.	5.2	3
156	Organic Photovoltaics: High Performance Flexible Transparent Electrode via One-Step Multifunctional Treatment for Ag Nanonetwork Composites Semi-Embedded in Low-Temperature-Processed Substrate for Highly Performed Organic Photovoltaics (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	19.5	3
157	Unusual thermal transport behavior in self-assembled fullerene nanorods. RSC Advances, 2016, 6, 67509-67513.	3.6	2
158	Perovskites: Photoluminescence Enhancement in Formamidinium Lead Iodide Thin Films (Adv. Funct.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	14.9	1
159	Self-aligned printing of high-performance polymer thin-film transistors. , 2006, , .		0
160	Probing Photo-Induced Vibrational Kinetics in Perovskite Thin Films. , 2018, , .		0
161	Polarization Sensitive Plasmonic Photodetector Based on HgTe Quantum Dots. , 2018, , .		0
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