

Ni Zhao

List of Publications by Year in descending order

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papers

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15466

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164
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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.	7.3	843
2	Unobtrusive Sensing and Wearable Devices for Health Informatics. IEEE Transactions on Biomedical Engineering, 2014, 61, 1538-1554.	2.5	607
3	Phenylalkylamine Passivation of Organolead Halide Perovskites Enabling High Efficiency and Air Stable Photovoltaic Cells. Advanced Materials, 2016, 28, 9986-9992.	11.1	532
4	Downscaling of self-aligned, all-printed polymer thin-film transistors. Nature Nanotechnology, 2007, 2, 784-789.	15.6	515
5	Inorganic-Organic Hybrid Solar Cell: Bridging Quantum Dots to Conjugated Polymer Nanowires. Nano Letters, 2011, 11, 3998-4002.	4.5	440
6	Flexible Piezoelectric-Induced Pressure Sensors for Static Measurements Based on Nanowires/Graphene Heterostructures. ACS Nano, 2017, 11, 4507-4513.	7.3	435
7	Colloidal PbS Quantum Dot Solar Cells with High Fill Factor. ACS Nano, 2010, 4, 3743-3752.	7.3	416
8	Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement. Advanced Functional Materials, 2016, 26, 1178-1187.	7.8	367
9	Emerging Technologies of Flexible Pressure Sensors: Materials, Modeling, Devices, and Manufacturing. Advanced Functional Materials, 2019, 29, 1808509.	7.8	316
10	The Role of Chlorine in the Formation Process of $\text{CH}_3\text{NH}_3\text{Pb}_3\text{Cl}_x$ Perovskite. Advanced Functional Materials, 2014, 24, 7102-7108.	7.8	294
11	HPbI_3 : A New Precursor Compound for Highly Efficient Solution-Processed Perovskite Solar Cells. Advanced Functional Materials, 2015, 25, 1120-1126.	7.8	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.	8.2	287
13	Improved Current Extraction from ZnO/PbS Quantum Dot Heterojunction Photovoltaics Using a MoO_3 Interfacial Layer. Nano Letters, 2011, 11, 2955-2961.	4.5	265
14	Molecular-weight dependence of interchain polaron delocalization and exciton bandwidth in high-mobility conjugated polymers. Physical Review B, 2006, 74, .	1.1	262
15	Amorphous nanostructured FeOOH and Co-Ni double hydroxides for high-performance aqueous asymmetric supercapacitors. Nano Energy, 2016, 21, 145-153.	8.2	254
16	Interstitial Occupancy by Extrinsic Alkali Cations in Perovskites and Its Impact on Ion Migration. Advanced Materials, 2018, 30, e1707350.	11.1	233
17	Organic Cation-Dependent Degradation Mechanism of Organotin Halide Perovskites. Advanced Functional Materials, 2016, 26, 3417-3423.	7.8	229
18	Native Defect-Induced Hysteresis Behavior in Organolead Iodide Perovskite Solar Cells. Advanced Functional Materials, 2016, 26, 1411-1419.	7.8	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.	11.1	213
20	Hidden Structure Ordering Along Backbone of Fused-Ring Electron Acceptors Enhanced by Ternary Bulk Heterojunction. <i>Advanced Materials</i> , 2018, 30, e1802888.	11.1	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.	5.8	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.	7.7	194
23	Flexible Organic/Inorganic Hybrid Near-Infrared Photoplethysmogram Sensor for Cardiovascular Monitoring. <i>Advanced Materials</i> , 2017, 29, 1700975.	11.1	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.	5.2	192
25	Quantum dot field effect transistors. <i>Materials Today</i> , 2013, 16, 312-325.	8.3	188
26	Benzylamine-Treated Wide-Bandgap Perovskite with High Thermal-Photostability and Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2017, 7, 1701048.	10.2	188
27	Charge Transport Physics of Conjugated Polymer Field-Effect Transistors. <i>Advanced Materials</i> , 2010, 22, 3893-3898.	11.1	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.	11.1	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.	7.8	166
30	Efficient Red Perovskite Light-Emitting Diodes Based on Solution-Processed Multiple Quantum Wells. <i>Advanced Materials</i> , 2017, 29, 1606600.	11.1	155
31	Understanding Morphology Compatibility for High-Performance Ternary Organic Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 6186-6195.	3.2	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.	1.6	149
33	Downscaling of Organic Field-Effect Transistors with a Polyelectrolyte Gate Insulator. <i>Advanced Materials</i> , 2008, 20, 4708-4713.	11.1	138
34	A high-sensitivity near-infrared phototransistor based on an organic bulk heterojunction. <i>Nanoscale</i> , 2013, 5, 11850.	2.8	134
35	Controlled orientation of liquid-crystalline polythiophene semiconductors for high-performance organic thin-film transistors. <i>Applied Physics Letters</i> , 2005, 86, 142102.	1.5	130
36	Bidirectional optical signal transmission between two identical devices using perovskite diodes. <i>Nature Electronics</i> , 2020, 3, 156-164.	13.1	126

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37	Continuous Blood Pressure Measurement From Invasive to Unobtrusive: Celebration of 200th Birth Anniversary of Carl Ludwig. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1455-1465.	3.9	124
38	Composition-Tuned Wide Bandgap Perovskites: From Grain Engineering to Stability and Performance Improvement. <i>Advanced Functional Materials</i> , 2018, 28, 1803130.	7.8	121
39	Interfacial Laser-Induced Graphene Enabling High-Performance Liquid-Solid Triboelectric Nanogenerator. <i>Advanced Materials</i> , 2021, 33, e2104290.	11.1	120
40	Photocurrent Enhancement of HgTe Quantum Dot Photodiodes by Plasmonic Gold Nanorod Structures. <i>ACS Nano</i> , 2014, 8, 8208-8216.	7.3	116
41	Template-grown graphene/porous Fe ₂ O ₃ nanocomposite: A high-performance anode material for pseudocapacitors. <i>Nano Energy</i> , 2015, 15, 719-728.	8.2	116
42	Low-temperature solution-processed NiO _x films for air-stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11071-11077.	5.2	113
43	Fused-Ring Electron Acceptor ITIC _h : A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018, 8, 1703399.	10.2	112
44	Mercury Telluride Quantum Dot Based Phototransistor Enabling High-Sensitivity Room-Temperature Photodetection at 2000 nm. <i>ACS Nano</i> , 2017, 11, 5614-5622.	7.3	110
45	Phenylalkylammonium passivation enables perovskite light emitting diodes with record high-radiance operational lifetime: the chain length matters. <i>Nature Communications</i> , 2021, 12, 644.	5.8	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. <i>Advanced Materials</i> , 2009, 21, 3759-3763.	11.1	105
48	Bias-Stress Effect in 1,2-Ethanedithiol-Treated PbS Quantum Dot Field-Effect Transistors. <i>ACS Nano</i> , 2012, 6, 3121-3127.	7.3	102
49	Heterojunction with Organic Thin Layers on Silicon for Record Efficiency Hybrid Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300923.	10.2	100
50	Facile and scalable fabrication of three-dimensional Cu(OH) ₂ nanoporous nanorods for solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015, 3, 17385-17391.	5.2	100
51	Heterojunction Photovoltaics Using GaAs Nanowires and Conjugated Polymers. <i>Nano Letters</i> , 2011, 11, 408-413.	4.5	98
52	Ag-Doped Halide Perovskite Nanocrystals for Tunable Band Structure and Efficient Charge Transport. <i>ACS Energy Letters</i> , 2019, 4, 534-541.	8.8	96
53	A thermal interface material based on foam-templated three-dimensional hierarchical porous boron nitride. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17540-17547.	5.2	94
54	Microscopic Studies on Liquid Crystal Poly(3,3'-di-alkylquaterthiophene) Semiconductor. <i>Macromolecules</i> , 2004, 37, 8307-8312.	2.2	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.	11.1	85
56	Fast, Air-Stable Infrared Photodetectors based on Spray-Deposited Aqueous HgTe Quantum Dots. <i>Advanced Functional Materials</i> , 2014, 24, 53-59.	7.8	82
57	Wood Derived Composites for High Sensitivity and Wide Linear-Range Pressure Sensing. <i>Small</i> , 2018, 14, e1801520.	5.2	79
58	Multi-wavelength photoplethysmography method for skin arterial pulse extraction. <i>Biomedical Optics Express</i> , 2016, 7, 4313.	1.5	77
59	Recent Advances in Biointegrated Optoelectronic Devices. <i>Advanced Materials</i> , 2018, 30, e1800156.	11.1	76
60	UV Laser-Induced Polyimide-to-Graphene Conversion: Modeling, Fabrication, and Application. <i>Small Methods</i> , 2019, 3, 1900208.	4.6	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.	2.5	76
62	High efficiency ternary organic solar cell with morphology-compatible polymers. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11739-11745.	5.2	74
63	Self-aligned inkjet printing of highly conducting gold electrodes with submicron resolution. <i>Journal of Applied Physics</i> , 2007, 101, 064513.	1.1	73
64	Textile-Enabled Highly Reproducible Flexible Pressure Sensors for Cardiovascular Monitoring. <i>Advanced Materials Technologies</i> , 2018, 3, 1700222.	3.0	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.	10.2	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.	8.2	69
67	Interfacial Recombination for Fast Operation of a Planar Organic/QD Infrared Photodetector. <i>Advanced Materials</i> , 2010, 22, 5250-5254.	11.1	66
68	Degradation mechanism of organic solar cells with aluminum cathode. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3303-3310.	3.0	65
69	Stabilizing Perovskite Light-Emitting Diodes by Incorporation of Binary Alkali Cations. <i>Advanced Materials</i> , 2020, 32, e1907786.	11.1	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.	11.1	63
71	Local Charge Trapping in Conjugated Polymers Resolved by Scanning Kelvin Probe Microscopy. <i>Physical Review Letters</i> , 2009, 103, 256803.	2.9	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.	4.0	61

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73	Photoluminescence Enhancement in Formamidinium Lead Iodide Thin Films. <i>Advanced Functional Materials</i> , 2016, 26, 4653-4659.	7.8	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.	10.2	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.	5.2	56
76	Composition-Dependent Light-Induced Dipole Moment Change in Organometal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1253-1259.	1.5	53
77	Alignment-Free Liquid-Capsule Pressure Sensor for Cardiovascular Monitoring. <i>Advanced Functional Materials</i> , 2018, 28, 1805045.	7.8	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.	5.6	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.	4.0	51
80	Substituent Effects on Physical and Photovoltaic Properties of 5,6-Difluorobenzo[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.	2.2	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.	7.3	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.	4.0	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.	7.8	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.	8.2	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.	3.7	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, .	1.5	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.	7.8	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.	7.8	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.	8.8	39

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91	Low-temperature Ni particle-templated chemical vapor deposition growth of curved graphene for supercapacitor applications. <i>Nano Energy</i> , 2015, 13, 458-466.	8.2	37
92	Thin Film Electrochemical Capacitors Based on Organolead Triiodide Perovskite. <i>Advanced Electronic Materials</i> , 2016, 2, 1600114.	2.6	37
93	Flexure-based Roll-to-roll Platform: A Practical Solution for Realizing Large-area Microcontact Printing. <i>Scientific Reports</i> , 2015, 5, 10402.	1.6	36
94	Integrated Plasmonic Infrared Photodetector Based on Colloidal HgTe Quantum Dots. <i>Advanced Materials Technologies</i> , 2019, 4, 1900354.	3.0	36
95	Integration of Colloidal Quantum Dots with Photonic Structures for Optoelectronic and Optical Devices. <i>Advanced Science</i> , 2021, 8, e2101560.	5.6	35
96	High-performance chemical vapor deposited graphene-on-silicon nitride waveguide photodetectors. <i>Optics Letters</i> , 2018, 43, 1399.	1.7	33
97	Graphene/Metal Contacts: Bistable States and Novel Memory Devices. <i>Advanced Materials</i> , 2012, 24, 2614-2619.	11.1	32
98	Molecular Packing and Electronic Processes in Amorphous-like Polymer Bulk Heterojunction Solar Cells with Fullerene Intercalation. <i>Scientific Reports</i> , 2014, 4, 5211.	1.6	32
99	A highly stretchable and conductive composite based on an emulsion-templated silver nanowire aerogel. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1724-1730.	5.2	32
100	Hybrid Anodic and Metal-Assisted Chemical Etching Method Enabling Fabrication of Silicon Carbide Nanowires. <i>Small</i> , 2019, 15, e1803898.	5.2	31
101	Spectroscopic Study of Electron and Hole Polarons in a High-Mobility Donor-Acceptor Conjugated Copolymer. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6835-6841.	1.5	29
102	Distribution of bromine in mixed iodide-bromide organolead perovskites and its impact on photovoltaic performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 16191-16197.	5.2	29
103	Interface Engineering of Flexible Piezoresistive Sensors via Near-Field Electrospinning Processed Spacer Layers. <i>Small Methods</i> , 2021, 5, e2000842.	4.6	29
104	Ternary Bulk Heterojunction Photovoltaic Cells Composed of Small Molecule Donor Additive as Cascade Material. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20094-20099.	1.5	28
105	Characterization of MOS Structures Based on Poly(3,3'-Dialkyl-Quaterthiophene). <i>IEEE Transactions on Electron Devices</i> , 2005, 52, 2150-2156.	1.6	27
106	Ternary morphology facilitated thick-film organic solar cell. <i>RSC Advances</i> , 2015, 5, 88500-88507.	1.7	27
107	Carrier-Activated Polarization in Organometal Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2536-2541.	1.5	27
108	Room Temperature Synthesis of HgTe Quantum Dots in an Aprotic Solvent Realizing High Photoluminescence Quantum Yields in the Infrared. <i>Chemistry of Materials</i> , 2017, 29, 7859-7867.	3.2	27

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109	PCA-Based Multi-Wavelength Photoplethysmography Algorithm for Cuffless Blood Pressure Measurement on Elderly Subjects. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 663-673.	3.9	27
110	Achieving a sub-10 nm nanopore array in silicon by metal-assisted chemical etching and machine learning. <i>International Journal of Extreme Manufacturing</i> , 2021, 3, 035104.	6.3	27
111	Excess Ion-Induced Efficiency Roll-Off in High-Efficiency Perovskite Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28546-28554.	4.0	27
112	Crosstalk-Free, High-Resolution Pressure Sensor Arrays Enabled by High-Throughput Laser Manufacturing. <i>Advanced Materials</i> , 2022, 34, e2200517.	11.1	27
113	Anisotropic Charge Transport Enabling High-Throughput and High-Aspect-Ratio Wet Etching of Silicon Carbide. <i>Small Methods</i> , 2022, 6, .	4.6	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. <i>Advanced Materials</i> , 2022, 34, .	11.1	23
116	A Facile, Low-Cost Plasma Etching Method for Achieving Size Controlled Non-Close-Packed Monolayer Arrays of Polystyrene Nano-Spheres. <i>Nanomaterials</i> , 2019, 9, 605.	1.9	22
117	Unveiling the crystalline packing of Y6 in thin films by thermally induced backbone-on-orientation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17030-17038.	5.2	22
118	Highly Sensitive Terahertz Thin-Film Total Internal Reflection Spectroscopy Reveals in Situ Photoinduced Structural Changes in Methylammonium Lead Halide Perovskites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17552-17558.	1.5	21
119	Broad-Band Photodetectors Based on Copper Indium Diselenide Quantum Dots in a Methylammonium Lead Iodide Perovskite Matrix. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35201-35210.	4.0	21
120	Red Phosphorus: An Elementary Semiconductor for Room-Temperature NO ₂ Gas Sensing. <i>ACS Sensors</i> , 2018, 3, 2629-2636.	4.0	19
121	Antidepressant Monotherapy and Combination Therapy with Acupuncture in Depressed Patients: A Resting-State Functional Near-Infrared Spectroscopy (fNIRS) Study. <i>Neurotherapeutics</i> , 2021, 18, 2651-2663.	2.1	19
122	Temperature- and density-dependent channel potentials in high-mobility organic field-effect transistors. <i>Physical Review B</i> , 2009, 80, .	1.1	18
123	Near-Field Electrospinning Enabled Highly Sensitive and Anisotropic Strain Sensors. <i>Advanced Materials Technologies</i> , 2020, 5, 2000550.	3.0	18
124	In situ modification of low-cost Cu electrodes for high-performance low-voltage pentacene thin film transistors (TFTs). <i>Organic Electronics</i> , 2013, 14, 775-781.	1.4	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. <i>Journal of Materials Chemistry</i> , 2012, 22, 16723.	6.7	16

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127	Ternary Blending Driven Molecular Reorientation of Non-Fullerene Acceptor IDIC with Backbone Order. <i>ACS Applied Energy Materials</i> , 2020, 3, 10814-10822.	2.5	15
128	Ultra-Narrowband Photodetector with High Responsivity Enabled by Integrating Monolayer J-Aggregate Organic Crystal with Graphene. <i>Advanced Optical Materials</i> , 2021, 9, 2100158.	3.6	15
129	A low-temperature, solution-processed high- κ dielectric for low-voltage, high-performance organic field-effect transistors (OFETs). <i>Journal Physics D: Applied Physics</i> , 2013, 46, 095105.	1.3	14
130	Improving Operational Stability of p-Type Field-Effect Transistors by Charge Selective Electrodes: a General Strategy. <i>Advanced Electronic Materials</i> , 2019, 5, 1900055.	2.6	14
131	Limit of Voc in polymeric bulk heterojunction solar cells predicted by a double-junction model. <i>Solar Energy Materials and Solar Cells</i> , 2013, 108, 17-21.	3.0	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. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19357-19366.	5.2	13
134	Low-voltage flexible pentacene thin film transistors with a solution-processed dielectric and modified copper source-drain electrodes. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2585.	2.7	12
135	Nanostructured Silicon-Based Heterojunction Solar Cells with Double Hole-Transporting Layers. <i>Advanced Electronic Materials</i> , 2019, 5, 1800070.	2.6	12
136	General observation of the memory effect in metal-insulator-ITO structures due to indium diffusion. <i>Semiconductor Science and Technology</i> , 2015, 30, 074002.	1.0	11
137	A round robin study of polymer solar cells and small modules across China. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 382-389.	3.0	10
138	Influence of Donor-Acceptor Arrangement on Charge Transport in Conjugated Copolymers. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5600-5605.	1.5	10
139	Wearable Sensors: Flexible Piezoresistive Sensor Patch Enabling Ultralow Power Cuffless Blood Pressure Measurement (<i>Adv. Funct. Mater.</i> 8/2016). <i>Advanced Functional Materials</i> , 2016, 26, 1303-1303.	7.8	9
140	Feasibility of Fingertip Oscillometric Blood Pressure Measurement: Model-Based Analysis and Experimental Validation. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2020, 24, 533-542.	3.9	9
141	Technology Development for Simultaneous Wearable Monitoring of Cerebral Hemodynamics and Blood Pressure. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019, 23, 1952-1963.	3.9	8
142	An organic water-gated ambipolar transistor with a bulk heterojunction active layer for stable and tunable photodetection. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	7
143	Spectroscopic Study of Charge Transport at Organic Solid-Water Interface. <i>Chemistry of Materials</i> , 2018, 30, 5422-5428.	3.2	7
144	Non-Invasive Capillary Blood Pressure Measurement Enabling Early Detection and Classification of Venous Congestion. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 2877-2886.	3.9	7

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145	Spectral Signature of Intrachain and Interchain Polarons in Donor-Acceptor Copolymers. Acta Chimica Sinica, 2014, 72, 201.	0.5	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.	1.5	5
147	Super-linear rectifying property of rubrene single crystal devices. Organic Electronics, 2011, 12, 1731-1735.	1.4	4
148	Low-voltage graphene field-effect transistors based on octadecylphosphonic acid modified solution-processed high- κ dielectrics. Nanotechnology, 2014, 25, 265201.	1.3	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.	5.2	4
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