

Jian-Sheng Jie

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244
papers

12,082
citations

60
h-index

100
g-index

254
ext. papers

13,768
ext. citations

9.2
avg, IF

6.44
L-index

#	Paper	IF	Citations
244	Photoconductive characteristics of single-crystal CdS nanoribbons. <i>Nano Letters</i> , 2006 , 6, 1887-92	11.5	498
243	Preparation of Large-Area Uniform Silicon Nanowires Arrays through Metal-Assisted Chemical Etching. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4444-4450	3.8	448
242	MoS ₂ /Si Heterojunction with Vertically Standing Layered Structure for Ultrafast, High-Detectivity, Self-Driven Visible-Near Infrared Photodetectors. <i>Advanced Functional Materials</i> , 2015 , 25, 2910-2919	15.6	427
241	Silicon nanowires for rechargeable lithium-ion battery anodes. <i>Applied Physics Letters</i> , 2008 , 93, 033105	3.4	329
240	Aligned Single-Crystalline Perovskite Microwire Arrays for High-Performance Flexible Image Sensors with Long-Term Stability. <i>Advanced Materials</i> , 2016 , 28, 2201-8	24	283
239	One-dimensional III-V nanostructures: Synthesis, properties and optoelectronic applications. <i>Nano Today</i> , 2010 , 5, 313-336	17.9	261
238	Monolayer graphene film on ZnO nanorod array for high-performance Schottky junction ultraviolet photodetectors. <i>Small</i> , 2013 , 9, 2872-9	11	236
237	Photoresponse Properties of CdSe Single-Nanoribbon Photodetectors. <i>Advanced Functional Materials</i> , 2007 , 17, 1795-1800	15.6	236
236	p-Type ZnO nanowire arrays. <i>Nano Letters</i> , 2008 , 8, 2591-7	11.5	223
235	Highly Polarization-Sensitive, Broadband, Self-Powered Photodetector Based on Graphene/PdSe/Germanium Heterojunction. <i>ACS Nano</i> , 2019 , 13, 9907-9917	16.7	218
234	Solution-processed graphene quantum dot deep-UV photodetectors. <i>ACS Nano</i> , 2015 , 9, 1561-70	16.7	206
233	High-Responsivity, High-Detectivity, Ultrafast Topological Insulator Bi ₂ Se ₃ /Silicon Heterostructure Broadband Photodetectors. <i>ACS Nano</i> , 2016 , 10, 5113-22	16.7	202
232	Organometal Halide Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 4797-4802	15.6	196
231	Indium-doped zinc oxide nanobelts. <i>Chemical Physics Letters</i> , 2004 , 387, 466-470	2.5	190
230	Tunable n-Type Conductivity and Transport Properties of Ga-doped ZnO Nanowire Arrays. <i>Advanced Materials</i> , 2008 , 20, 168-173	24	186
229	Ultrahigh-Responsivity Photodetectors from Perovskite Nanowire Arrays for Sequentially Tunable Spectral Measurement. <i>Nano Letters</i> , 2017 , 17, 2482-2489	11.5	184
228	Metal Acetylacetonate Series in Interface Engineering for Full Low-Temperature-Processed, High-Performance, and Stable Planar Perovskite Solar Cells with Conversion Efficiency over 16% on 1 cm Scale. <i>Advanced Materials</i> , 2017 , 29, 1603923	24	164

227	Surface-Dominated Transport Properties of Silicon Nanowires. <i>Advanced Functional Materials</i> , 2008 , 18, 3251-3257	15.6	161
226	Synthesis and optical properties of well-aligned ZnO nanorod array on an undoped ZnO film. <i>Applied Physics Letters</i> , 2005 , 86, 031909	3.4	148
225	Ultrafast, Broadband Photodetector Based on MoSe/Silicon Heterojunction with Vertically Standing Layered Structure Using Graphene as Transparent Electrode. <i>Advanced Science</i> , 2016 , 3, 1600018	13.6	146
224	Homoepitaxial Growth and Lasing Properties of ZnS Nanowire and Nanoribbon Arrays. <i>Advanced Materials</i> , 2006 , 18, 1527-1532	24	124
223	Solution-Processed 3D RGO-MoS /Pyramid Si Heterojunction for Ultrahigh Detectivity and Ultra-Broadband Photodetection. <i>Advanced Materials</i> , 2018 , 30, e1801729	24	117
222	Facile One-Step Growth and Patterning of Aligned Squaraine Nanowires via Evaporation-Induced Self-Assembly. <i>Advanced Materials</i> , 2008 , 20, 1716-1720	24	112
221	High-Sensitivity and Fast-Response Graphene/Crystalline Silicon Schottky Junction-Based Near-IR Photodetectors. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1337-1339	4.4	109
220	Surface passivation and band engineering: a way toward high efficiency graphene/planar Si solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 8567	13	108
219	Alignment and Patterning of Ordered Small-Molecule Organic Semiconductor Micro-/Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016 , 28, 2475-503	24	108
218	High-efficiency graphene/Si nanoarray Schottky junction solar cells via surface modification and graphene doping. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6593	13	107
217	Monolayer graphene film/silicon nanowire array Schottky junction solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 133113	3.4	107
216	Surface Charge Transfer Doping of Low-Dimensional Nanostructures toward High-Performance Nanodevices. <i>Advanced Materials</i> , 2016 , 28, 10409-10442	24	105
215	On the Mechanism of Hydrophilicity of Graphene. <i>Nano Letters</i> , 2016 , 16, 4447-53	11.5	102
214	Crystalline Si/Graphene Quantum Dots Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5164-5171	3.8	102
213	Photoconductivity of a Single Small-Molecule Organic Nanowire. <i>Advanced Materials</i> , 2008 , 20, 2427-2432	24	101
212	Synthesis and Characterization of Aligned ZnO Nanorods on Porous Aluminum Oxide Template. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11976-80	3.4	98
211	Polyhedral organic microcrystals: from cubes to rhombic dodecahedra. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9121-3	16.4	91
210	12.35% efficient graphene quantum dots/silicon heterojunction solar cells using graphene transparent electrode. <i>Nano Energy</i> , 2017 , 31, 359-366	17.1	90

209	Synthesis and Characterization of ZnO:In Nanowires with Superlattice Structure. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17027-17031	3.4	89
208	Carrier-free functionalized multidrug nanorods for synergistic cancer therapy. <i>Biomaterials</i> , 2013 , 34, 8960-7	15.6	88
207	Mixed-dimensional PdSe ₂ /SiNWA heterostructure based photovoltaic detectors for self-driven, broadband photodetection, infrared imaging and humidity sensing. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 3632-3642	13	87
206	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm . <i>Advanced Materials</i> , 2020 , 32, e2004412 ²⁴		86
205	Device structure-dependent field-effect and photoresponse performances of p-type ZnTe:Sb nanoribbons. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6206		85
204	Graphene Transparent Conductive Electrodes for Highly Efficient Silicon Nanostructures-Based Hybrid Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 11968-11976	3.8	85
203	Single-crystalline ZnTe nanowires for application as high-performance green/ultraviolet photodetector. <i>Optics Express</i> , 2011 , 19, 6100-8	3.3	80
202	Wafer-Scale Precise Patterning of Organic Single-Crystal Nanowire Arrays via a Photolithography-Assisted Spin-Coating Method. <i>Advanced Materials</i> , 2015 , 27, 7305-12	24	76
201	Efficient and Stable Silicon Photocathodes Coated with Vertically Standing Nano-MoS Films for Solar Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6123-6129	9.5	75
200	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. <i>Materials Today</i> , 2019 , 24, 17-25	21.8	75
199	High-efficiency, air stable graphene/Si micro-hole array Schottky junction solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 15348	13	74
198	Silicon nanowire sensors for Hg ²⁺ and Cd ²⁺ ions. <i>Applied Physics Letters</i> , 2009 , 94, 193101	3.4	74
197	Surface induced negative photoconductivity in p-type ZnSe : Bi nanowires and their nano-optoelectronic applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6736		73
196	Ultrabroadband and High-Detectivity Photodetector Based on WS ₂ /Ge Heterojunction through Defect Engineering and Interface Passivation. <i>ACS Nano</i> , 2021 , 15, 10119-10129	16.7	73
195	Tuning electrical and photoelectrical properties of CdSe nanowires via indium doping. <i>Small</i> , 2009 , 5, 345-50	11	72
194	2D RuddlesdenPopper Perovskite Nanoplate Based Deep-Blue Light-Emitting Diodes for Light Communication. <i>Advanced Functional Materials</i> , 2019 , 29, 1903861	15.6	71
193	Surface plasmon resonance enhanced highly efficient planar silicon solar cell. <i>Nano Energy</i> , 2014 , 9, 112-120	17.0	69
192	Aluminium-doped n-type ZnS nanowires as high-performance UV and humidity sensors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6856		69

191	Applications of silicon nanowires functionalized with palladium nanoparticles in hydrogen sensors. <i>Nanotechnology</i> , 2007 , 18, 345502	3.4	69
190	Growth of Ternary Oxide Nanowires by Gold-Catalyzed Vapor-Phase Evaporation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8249-8253	3.4	68
189	Ultrahigh Speed and Broadband Few-Layer MoTe ₂ /Si 2DBD Heterojunction-Based Photodiodes Fabricated by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2020 , 30, 1907951	15.6	68
188	Facile One-Step Fabrication of Ordered Organic Nanowire Films. <i>Advanced Materials</i> , 2009 , 21, 4172-4175	5.4	64
187	Controllable synthesis and optical properties of novel ZnO cone arrays via vapor transport at low temperature. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2733-8	3.4	64
186	High-gain visible-blind UV photodetectors based on chlorine-doped n-type ZnS nanoribbons with tunable optoelectronic properties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 12632		62
185	Surface Charge Transfer Doping of Monolayer Phosphorene via Molecular Adsorption. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4701-10	6.4	61
184	Transparent and flexible selenium nanobelt-based visible light photodetector. <i>CrystEngComm</i> , 2012 , 14, 1942	3.3	60
183	Schottky solar cells based on graphene nanoribbon/multiple silicon nanowires junctions. <i>Applied Physics Letters</i> , 2012 , 100, 193103	3.4	59
182	Chlorine-doped n-type CdS nanowires with enhanced photoconductivity. <i>Nanotechnology</i> , 2010 , 21, 505203	3.03	59
181	Flexible graphene/silicon heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14370-14377	3.7	57
180	Single-crystal CdSe nanoribbon field-effect transistors and photoelectric applications. <i>Applied Physics Letters</i> , 2006 , 89, 133118	3.4	54
179	Clean surface transfer of graphene films via an effective sandwich method for organic light-emitting diode applications. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 201-207	7.1	52
178	Sn-catalyzed synthesis of SnO ₂ nanowires and their optoelectronic characteristics. <i>Nanotechnology</i> , 2011 , 22, 485701	3.4	51
177	Precise Patterning of Laterally Stacked Organic Microbelt Heterojunction Arrays by Surface-Energy-Controlled Stepwise Crystallization for Ambipolar Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2018 , 30, e1800187	24	51
176	Organic/inorganic hybrid perovskite quantum dots for light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4831-4841	7.1	49
175	Facile Assembly of High-Quality Organic/inorganic Hybrid Perovskite Quantum Dot Thin Films for Bright Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1705189	15.6	48
174	Enhanced p-Type Conductivity of ZnTe Nanoribbons by Nitrogen Doping. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7980-7985	3.8	48

173	Transport properties of single-crystal CdS nanoribbons. <i>Applied Physics Letters</i> , 2006 , 89, 223117	3.4	48
172	Annealing effect on optical properties of ZnO films fabricated by cathodic electrodeposition. <i>Thin Solid Films</i> , 2005 , 492, 61-65	2.2	48
171	Surface charge transfer doping induced inversion layer for high-performance graphene/silicon heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 285-291	13	46
170	Two-dimensional layered material/silicon heterojunctions for energy and optoelectronic applications. <i>Nano Research</i> , 2016 , 9, 72-93	10	44
169	Tuning the electrical transport properties of n-type CdS nanowires via Ga doping and their nano-optoelectronic applications. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 14663-7	3.6	44
168	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. <i>ACS Nano</i> , 2019 , 13, 5910-5919	16.7	43
167	High-performance, fully transparent, and flexible zinc-doped indium oxide nanowire transistors. <i>Applied Physics Letters</i> , 2009 , 94, 123103	3.4	43
166	Shape design of high drug payload nanoparticles for more effective cancer therapy. <i>Chemical Communications</i> , 2013 , 49, 10989-91	5.8	41
165	Aligned ultralong nanowire arrays and their application in flexible photodetector devices. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14357		40
164	Organic molecular crystal-based photosynaptic devices for an artificial visual-perception system. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	40
163	A Microchannel-Confined Crystallization Strategy Enables Blade Coating of Perovskite Single Crystal Arrays for Device Integration. <i>Advanced Materials</i> , 2020 , 32, e1908340	24	39
162	Formation and Photoelectric Properties of Periodically Twinned ZnSe/SiO ₂ Nanocables. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 834-838	3.8	38
161	Non-aqueous cathodic electrodeposition of large-scale uniform ZnO nanowire arrays embedded in anodic alumina membrane. <i>Materials Letters</i> , 2005 , 59, 1378-1382	3.3	38
160	The application of single-layer graphene modified with solution-processed TiO _x and PEDOT:PSS as a transparent conductive anode in organic light-emitting diodes. <i>Organic Electronics</i> , 2013 , 14, 3348-3354	4.5	37
159	High-performance CdS:P nanoribbon field-effect transistors constructed with high- κ dielectric and top-gate geometry. <i>Applied Physics Letters</i> , 2010 , 96, 123118	3.4	37
158	Construction of high-quality CdS:Ga nanoribbon/silicon heterojunctions and their nano-optoelectronic applications. <i>Nanotechnology</i> , 2011 , 22, 405201	3.4	37
157	Tectonic arrangement of Bi ₂ S ₃ nanocrystals into 2D networks. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3378		37
156	Light-trapping enhanced ZnO/MoS ₂ core-shell nanopillar arrays for broadband ultraviolet-visible-near infrared photodetection. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7077-7084	7.1	36

155	p-CdTe nanoribbon/n-silicon nanowires array heterojunctions: photovoltaic devices and zero-power photodetectors. <i>CrystEngComm</i> , 2012 , 14, 7222	3.3	36
154	Organic nanowire/crystalline silicon p-n heterojunctions for high-sensitivity, broadband photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2039-45	9.5	35
153	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. <i>Nano Letters</i> , 2020 , 20, 2478-2485	11.5	34
152	Saturated Vapor-Assisted Growth of Single-Crystalline Organic-Inorganic Hybrid Perovskite Nanowires for High-Performance Photodetectors with Robust Stability. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 10287-10295	9.5	34
151	Ultrahigh Mobility of p-Type CdS Nanowires: Surface Charge Transfer Doping and Photovoltaic Devices. <i>Advanced Energy Materials</i> , 2013 , 3, 579-583	21.8	34
150	Topological insulator Bi ₂ Se ₃ nanowire/Si heterostructure photodetectors with ultrahigh responsivity and broadband response. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5648-5655	7.1	34
149	MoO ₃ Nanodots Decorated CdS Nanoribbons for High-Performance, Homo Junction Photovoltaic Devices on Flexible Substrates. <i>Nano Letters</i> , 2015 , 15, 3590-6	11.5	33
148	Bilayer graphene based surface passivation enhanced nano structured self-powered near-infrared photodetector. <i>Optics Express</i> , 2015 , 23, 4839-46	3.3	33
147	Hue tunable, high color saturation and high-efficiency graphene/silicon heterojunction solar cells with MgF ₂ /ZnS double anti-reflection layer. <i>Nano Energy</i> , 2018 , 46, 257-265	17.1	33
146	Fabrication of p-type ZnSe:Sb nanowires for high-performance ultraviolet light photodetector application. <i>Nanotechnology</i> , 2013 , 24, 095603	3.4	33
145	Precise Patterning of Organic Semiconductor Crystals for Integrated Device Applications. <i>Small</i> , 2019 , 15, e1900332	11	31
144	Layer-Defining Strategy to Grow Two-Dimensional Molecular Crystals on a Liquid Surface down to the Monolayer Limit. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16082-16086	16.4	31
143	Aligned nanowire arrays on thin flexible substrates for organic transistors with high bending stability. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1314-1320	7.1	31
142	Nano-Schottky barrier diodes based on Sb-doped ZnS nanoribbons with controlled p-type conductivity. <i>Applied Physics Letters</i> , 2011 , 98, 123117	3.4	31
141	A Facile Method for the Growth of Organic Semiconductor Single Crystal Arrays on Polymer Dielectric toward Flexible Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1902494	15.6	30
140	Large-area aligned growth of single-crystalline organic nanowire arrays for high-performance photodetectors. <i>Nanotechnology</i> , 2013 , 24, 355201	3.4	30
139	Tuning the Electronic and Optical Properties of Monolayers As, Sb, and Bi via Surface Charge Transfer Doping. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 19530-19537	3.8	30
138	Self-driven, broadband and ultrafast photovoltaic detectors based on topological crystalline insulator SnTe/Si heterostructures. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11171-11178	13	29

137	Memory phototransistors based on exponential-association photoelectric conversion law. <i>Nature Communications</i> , 2019 , 10, 1294	17.4	29
136	An ultrasensitive self-driven broadband photodetector based on a 2D-WS/GaAs type-II Zener heterojunction. <i>Nanoscale</i> , 2020 , 12, 4435-4444	7.7	29
135	Macroscopic and Strong Ribbons of Functionality-Rich Metal Oxides from Highly Ordered Assembly of Unilamellar Sheets. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13200-8	16.4	28
134	CTAB Assisted Synthesis of CuS Microcrystals: Synthesis, Mechanism, and Electrical Properties. <i>Journal of Materials Science and Technology</i> , 2013 , 29, 1047-1052	9.1	28
133	Synthesis of CdS _x Se _{1-x} Nanoribbons with Uniform and Controllable Compositions via Sulfurization: Optical and Electronic Properties Studies. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17183-17187	3.8	27
132	Single zinc-doped indium oxide nanowire as driving transistor for organic light-emitting diode. <i>Applied Physics Letters</i> , 2008 , 92, 153312	3.4	27
131	High-resolution patterning of organic semiconductor single crystal arrays for high-integration organic field-effect transistors. <i>Materials Today</i> , 2020 , 40, 82-90	21.8	27
130	Surface Charge Transfer Doping via Transition Metal Oxides for Efficient p-Type Doping of II-VI Nanostructures. <i>ACS Nano</i> , 2016 , 10, 10283-10293	16.7	26
129	Large-Scale Fabrication of Silicon Nanowires for Solar Energy Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34527-34543	9.5	26
128	ZnSe nanoribbon/Si nanowire p-n heterojunction arrays and their photovoltaic application with graphene transparent electrodes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 22873		26
127	A high-yield two-step transfer printing method for large-scale fabrication of organic single-crystal devices on arbitrary substrates. <i>Scientific Reports</i> , 2014 , 4, 5358	4.9	25
126	Unraveling the Mechanism of the Persistent Photoconductivity in Organic Phototransistors. <i>Advanced Functional Materials</i> , 2019 , 29, 1905657	15.6	25
125	Tuning the p-type conductivity of ZnSe nanowires via silver doping for rectifying and photovoltaic device applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1148-1154	13	25
124	Meniscus-guided coating of organic crystalline thin films for high-performance organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 9133-9146	7.1	24
123	Integrated MoSe ₂ with n+p-Si photocathodes for solar water splitting with high efficiency and stability. <i>Applied Physics Letters</i> , 2018 , 112, 013902	3.4	24
122	In situ integration of squaraine-nanowire-array-based Schottky-type photodetectors with enhanced switching performance. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12288-94	9.5	24
121	Doping dependent crystal structures and optoelectronic properties of n-type CdSe:Ga nanowires. <i>Nanoscale</i> , 2011 , 3, 4798-803	7.7	24
120	Centimeter-Long Single-Crystalline Si Nanowires. <i>Nano Letters</i> , 2017 , 17, 7323-7329	11.5	23

119	Self-assembly and hierarchical patterning of aligned organic nanowire arrays by solvent evaporation on substrates with patterned wettability. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 5757-62	9.5	23
118	In-situ device integration of large-area patterned organic nanowire arrays for high-performance optical sensors. <i>Scientific Reports</i> , 2013 , 3, 3248	4.9	23
117	Heterocrystal and bicrystal structures of ZnS nanowires synthesized by plasma enhanced chemical vapour deposition. <i>Nanotechnology</i> , 2006 , 17, 2913-2917	3.4	23
116	Water-Surface Drag Coating: A New Route Toward High-Quality Conjugated Small-Molecule Thin Films with Enhanced Charge Transport Properties. <i>Advanced Materials</i> , 2021 , 33, e2005915	24	23
115	Fabrication of PdSe/GaN Schottky Junction for Polarization-Sensitive Ultraviolet Photodetection with High Dichroic Ratio.. <i>ACS Nano</i> , 2022 ,	16.7	23
114	Precisely Patterned Growth of Ultra-Long Single-Crystalline Organic Microwire Arrays for Near-Infrared Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7912-8	9.5	22
113	Surface charge transfer induced p-CdS nanoribbon/n-Si heterojunctions as fast-speed self-driven photodetectors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6307-6313	7.1	22
112	Photoconductive properties of selenium nanowire photodetectors. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6292-8	1.3	22
111	Patterning Liquid Crystalline Organic Semiconductors via Inkjet Printing for High-Performance Transistor Arrays and Circuits. <i>Advanced Functional Materials</i> , 2021 , 31, 2100237	15.6	22
110	High-mobility air-stable n-type field-effect transistors based on large-area solution-processed organic single-crystal arrays. <i>Nano Research</i> , 2018 , 11, 882-891	10	22
109	ZnSe nanowire/Si p-n heterojunctions: device construction and optoelectronic applications. <i>Nanotechnology</i> , 2013 , 24, 395201	3.4	21
108	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. <i>Materials Horizons</i> , 2020 , 7, 2734-2740	14.4	21
107	Flexible integrated diode-transistor logic (DTL) driving circuits based on printed carbon nanotube thin film transistors with low operation voltage. <i>Nanoscale</i> , 2018 , 10, 614-622	7.7	21
106	Quantum transport characteristics of heavily doped bismuth selenide nanoribbons. <i>Npj Quantum Materials</i> , 2019 , 4,	5	20
105	Functional core/shell drug nanoparticles for highly effective synergistic cancer therapy. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1475-85	10.1	19
104	High-Performance CdSe:In Nanowire Field-Effect Transistors Based on Top-Gate Configuration with High- κ Non-Oxide Dielectrics. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4663-4668	3.8	19
103	Coaxial nanocables of p-type zinc telluride nanowires sheathed with silicon oxide: synthesis, characterization and properties. <i>Nanotechnology</i> , 2009 , 20, 455702	3.4	19
102	Growth and properties of well-aligned ZnO hexagonal cones prepared by carbonthermal reaction. <i>Journal of Crystal Growth</i> , 2004 , 267, 223-230	1.6	19

101	Ordered and Patterned Assembly of Organic Micro/Nanocrystals for Flexible Electronic and Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2017 , 2, 1600280	6.8	18
100	External-force-driven solution epitaxy of large-area 2D organic single crystals for high-performance field-effect transistors. <i>Nano Research</i> , 2019 , 12, 2796-2801	10	18
99	1D Organic/Inorganic Hybrid Perovskite Micro/Nanocrystals: Fabrication, Assembly, and Optoelectronic Applications. <i>Small Methods</i> , 2018 , 2, 1700340	12.8	18
98	Very facile fabrication of aligned organic nanowires based high-performance top-gate transistors on flexible, transparent substrate. <i>Organic Electronics</i> , 2014 , 15, 1317-1323	3.5	18
97	Structure and electrical properties of p-type twin ZnTe nanowires. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 102, 469-475	2.6	18
96	Surface Dangling Bond-Mediated Molecules Doping of Germanium Nanowires. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 24293-24299	3.8	18
95	Synthesis and Characterization of In-Doped ZnO Planar Superlattice Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5417-5421	3.8	18
94	Roles of interfaces in the ideality of organic field-effect transistors. <i>Nanoscale Horizons</i> , 2020 , 5, 454-472	10.8	18
93	Highly luminescent and photostable core-shell dye nanoparticles for high efficiency bioimaging. <i>Chemical Communications</i> , 2014 , 50, 737-9	5.8	17
92	Controlled Growth of Large-Area Aligned Single-Crystalline Organic Nanoribbon Arrays for Transistors and Light-Emitting Diodes Driving. <i>Nano-Micro Letters</i> , 2017 , 9, 52	19.5	17
91	Few-layer formamidinium lead bromide nanoplatelets for ultrapure-green and high-efficiency light-emitting diodes. <i>Nano Research</i> , 2019 , 12, 171-176	10	17
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