

# Jian-Sheng Jie

## List of Publications by Year in descending order

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252  
papers

15,465  
citations

16451

64  
h-index

22166

113  
g-index

254  
all docs

254  
docs citations

254  
times ranked

16126  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Semiconductor Crystal Engineering for High-Resolution Layer-Controlled 2D Crystal Arrays. <i>Advanced Materials</i> , 2022, 34, e2104166.	21.0	18
2	Ambient instability of organic field-effect transistors and their improvement strategies. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 053001.	2.8	8
3	Applying intermolecular hydrogen bonding to exploit TADF emitters for high-performance orange-red non-doped OLEDs. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4717-4722.	5.5	7
4	Conformal MoS <sub>2</sub> /Silicon Nanowire Array Heterojunction with Enhanced Light Trapping and Effective Interface Passivation for Ultraweak Infrared Light Detection. <i>Advanced Functional Materials</i> , 2022, 32, 2108174.	14.9	32
5	Scalable Growth of Organic Single-Crystal Films via an Orientation Filter Funnel for High-Performance Transistors with Excellent Uniformity. <i>Advanced Materials</i> , 2022, 34, e2109818.	21.0	29
6	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching. <i>ACS Omega</i> , 2022, 7, 2234-2243.	3.5	7
7	Soft template-assisted self-assembly: a general strategy toward two-dimensional molecular crystals for high-performance organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2575-2580.	5.5	5
8	Enhancing the efficiency and stability of Organic/Silicon solar cells using graphene electrode and Double-layer Anti-reflection coating. <i>Solar Energy</i> , 2022, 234, 111-118.	6.1	13
9	<i>In Situ</i> Fabrication of PdSe <sub>2</sub> /GaN Schottky Junction for Polarization-Sensitive Ultraviolet Photodetection with High Dichroic Ratio. <i>ACS Nano</i> , 2022, 16, 5545-5555.	14.6	139
10	A Fully Solution-Printed Photosynaptic Transistor Array with Ultralow Energy Consumption for Artificial Vision Neural Networks. <i>Advanced Materials</i> , 2022, 34, e2200380.	21.0	75
11	A Three-Dimensional Confined Crystallization Strategy Toward Controllable Growth of High-Quality and Large-Area Perovskite Single Crystals. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	17
12	High-Luminance Microsized CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Single-Crystal-Based Light-Emitting Diodes via a Facile Liquid-Insulator Bridging Route. <i>ACS Nano</i> , 2022, 16, 6394-6403.	14.6	13
13	Ultra-Sensitive and Low-Power-Consumption Organic Phototransistor Enables Nighttime Illumination Perception for Bionic Mesopic Vision. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	10
14	High-Barrier-Height Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> /Si Microstructure Schottky Junction-Based Self-Powered Photodetectors for Photoplethysmographic Monitoring. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	15
15	Insights into the Origins of Minority Carrier Traps in Solution-Processed Organic Semiconductors and Their Effects on Transistor Photostability. <i>Advanced Electronic Materials</i> , 2022, 8, .	5.1	5
16	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.	21.0	52
17	Solution-Processable Carbon and Graphene Quantum Dots Photodetectors. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021, , 157-214.	0.8	1
18	2D molecular crystal templated organic p-n heterojunctions for high-performance ambipolar organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5758-5764.	5.5	12

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19	Precise patterning of single crystal arrays of organic semiconductors by a patterned microchannel dip-coating method for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5174-5181.	5.5	10
20	Improving Ideality of p-Type Organic Field-Effect Transistors via Preventing Undesired Minority Carrier Injection. <i>Advanced Functional Materials</i> , 2021, 31, 2100202.	14.9	21
21	Patterning Liquid Crystalline Organic Semiconductors via Inkjet Printing for High-Performance Transistor Arrays and Circuits. <i>Advanced Functional Materials</i> , 2021, 31, 2100237.	14.9	57
22	High-Performance Nondoped Organic Light-Emitting Diode Based on a Thermally Activated Delayed Fluorescence Emitter with 1D Intermolecular Hydrogen Bonding Interactions. <i>Advanced Optical Materials</i> , 2021, 9, 2100461.	7.3	16
23	Ultrabroadband and High-Detectivity Photodetector Based on WS <sub>2</sub> /Ge Heterojunction through Defect Engineering and Interface Passivation. <i>ACS Nano</i> , 2021, 15, 10119-10129.	14.6	252
24	Single-Crystalline Silicon Frameworks: A New Platform for Transparent Flexible Optoelectronics. <i>Advanced Materials</i> , 2021, 33, e2008171.	21.0	13
25	A phototransistor with visual adaptation. <i>Nature Electronics</i> , 2021, 4, 460-461.	26.0	4
26	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a "Self-Doping" Organic Light-Emitting Diode. <i>Angewandte Chemie</i> , 2021, 133, 26082-26087.	2.0	8
27	Wafer-Scale Growth of Aligned C <sub>60</sub> Single Crystals via Solution-Phase Epitaxy for High-Performance Transistors. <i>Advanced Functional Materials</i> , 2021, 31, 2105459.	14.9	9
28	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a "Self-Doping" Organic Light-Emitting Diode. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25878-25883.	13.8	35
29	Bilayer-passivated stable dif-TES-ADT organic thin-film transistors. <i>Applied Physics Letters</i> , 2021, 119, 183301.	3.3	4
30	Roles of interfaces in the ideality of organic field-effect transistors. <i>Nanoscale Horizons</i> , 2020, 5, 454-472.	8.0	25
31	Cation exchange synthesis of two-dimensional vertical Cu <sub>2</sub> S/CdS heterojunctions for photovoltaic device applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 789-796.	10.3	23
32	Theoretical Studies of Bipolar Transport in CnBTBT/FmTCNQ Donor-Acceptor Cocrystals. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 359-365.	4.6	15
33	Surfacial Marangoni Flow-Induced Growth of Ultrathin 2D Molecular Crystals on Target Substrates. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901753.	3.7	10
34	Ultrahigh Speed and Broadband Few-Layer MoTe <sub>2</sub> /Si 2D-3D Heterojunction-Based Photodiodes Fabricated by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2020, 30, 1907951.	14.9	119
35	High-resolution patterning of organic semiconductor single crystal arrays for high-integration organic field-effect transistors. <i>Materials Today</i> , 2020, 40, 82-90.	14.2	53
36	Atomic-Scale Interface Engineering for Constructing p-CuPc/n-CdS Core-Shell Heterojunctions toward Light-Harvesting Application. <i>ACS Applied Energy Materials</i> , 2020, 3, 8765-8773.	5.1	2

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37	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. <i>Materials Horizons</i> , 2020, 7, 2734-2740.	12.2	51
38	Graphene-Quantum-Dots-Induced Centimeter-Sized Growth of Monolayer Organic Crystals for High-Performance Transistors. <i>Advanced Materials</i> , 2020, 32, e2003315.	21.0	27
39	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 $\mu\text{m}$ . <i>Advanced Materials</i> , 2020, 32, e2004412.	21.0	202
40	Fast deposition of an ultrathin, highly crystalline organic semiconductor film for high-performance transistors. <i>Nanoscale Horizons</i> , 2020, 5, 1096-1105.	8.0	20
41	Few-Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. <i>Advanced Electronic Materials</i> , 2020, 6, 2000062.	5.1	22
42	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. <i>Nano Letters</i> , 2020, 20, 2478-2485.	9.1	51
43	A Microchannel-Confined Crystallization Strategy Enables Blade Coating of Perovskite Single Crystal Arrays for Device Integration. <i>Advanced Materials</i> , 2020, 32, e1908340.	21.0	75
44	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.	5.5	49
45	Controlled 2D growth of organic semiconductor crystals by suppressing the coffee-ring effect. <i>Nano Research</i> , 2020, 13, 2478-2484.	10.4	11
46	An ultrasensitive self-driven broadband photodetector based on a 2D-WS <sub>2</sub> /GaAs type-II Zener heterojunction. <i>Nanoscale</i> , 2020, 12, 4435-4444.	5.6	56
47	Mixed-dimensional PdSe <sub>2</sub> /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.	10.3	158
48	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. <i>Materials Today</i> , 2019, 24, 17-25.	14.2	98
49	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.	13.8	53
50	2D Ruddlesden-Popper Perovskite Nanoplate Based Deep-Blue Light-Emitting Diodes for Light Communication. <i>Advanced Functional Materials</i> , 2019, 29, 1903861.	14.9	101
51	Highly Polarization-Sensitive, Broadband, Self-Powered Photodetector Based on Graphene/PdSe <sub>2</sub> /Germanium Heterojunction. <i>ACS Nano</i> , 2019, 13, 9907-9917.	14.6	420
52	Unraveling the Mechanism of the Persistent Photoconductivity in Organic Phototransistors. <i>Advanced Functional Materials</i> , 2019, 29, 1905657.	14.9	54
53	Air Effect on the Ideality of p-Type Organic Field-Effect Transistors: A Double-Edged Sword. <i>Advanced Functional Materials</i> , 2019, 29, 1906653.	14.9	25
54	Precise Positioning of Organic Semiconductor Single Crystals with Two-Component Aligned Structure through 3D Wettability-Induced Sequential Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36205-36212.	8.0	17

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55	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. <i>Nano Research</i> , 2019, 12, 2723-2728.	10.4	11
56	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.	10.4	26
57	Quantum transport characteristics of heavily doped bismuth selenide nanoribbons. <i>Npj Quantum Materials</i> , 2019, 4, .	5.2	40
58	Tuning Electrical and Raman Scattering Properties of Cadmium Sulfide Nanoribbons via Surface Charge Transfer Doping. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15794-15801.	3.1	7
59	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.	14.9	54
60	High-Performance Nanofloating Gate Memory Based on Lead Halide Perovskite Nanocrystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24367-24376.	8.0	23
61	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. <i>ACS Nano</i> , 2019, 13, 5910-5919.	14.6	72
62	Precise Patterning of Organic Semiconductor Crystals for Integrated Device Applications. <i>Small</i> , 2019, 15, e1900332.	10.0	41
63	Memory phototransistors based on exponential-association photoelectric conversion law. <i>Nature Communications</i> , 2019, 10, 1294.	12.8	47
64	Photodetectors based on small-molecule organic semiconductor crystals. <i>Chinese Physics B</i> , 2019, 28, 038102.	1.4	16
65	Application of Silicon Oxide on High Efficiency Monocrystalline Silicon PERC Solar Cells. <i>Energies</i> , 2019, 12, 1168.	3.1	19
66	The Impact of Thermal Treatment on Light-Induced Degradation of Multicrystalline Silicon PERC Solar Cell. <i>Energies</i> , 2019, 12, 416.	3.1	14
67	Organic molecular crystal-based photosynaptic devices for an artificial visual-perception system. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	81
68	Few-layer formamidinium lead bromide nanoplatelets for ultrapure-green and high-efficiency light-emitting diodes. <i>Nano Research</i> , 2019, 12, 171-176.	10.4	34
69	Saturated Vapor-Assisted Growth of Single-Crystalline Organic-Inorganic Hybrid Perovskite Nanowires for High-Performance Photodetectors with Robust Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10287-10295.	8.0	49
70	Organic-inorganic hybrid perovskite quantum dots for light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4831-4841.	5.5	62
71	Tuning the electronic transport anisotropy in $\hat{1}\pm$ -phase phosphorene through superlattice design. <i>Physical Review B</i> , 2018, 97, .	3.2	11
72	Hue tunable, high color saturation and high-efficiency graphene/silicon heterojunction solar cells with MgF <sub>2</sub> /ZnS double anti-reflection layer. <i>Nano Energy</i> , 2018, 46, 257-265.	16.0	51

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73	CdS Nanoribbon-Based Resistive Switches with Ultrawidely Tunable Power by Surface Charge Transfer Doping. <i>Advanced Functional Materials</i> , 2018, 28, 1706577.	14.9	16
74	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.	14.9	52
75	Integrated MoSe <sub>2</sub> with n+p-Si photocathodes for solar water splitting with high efficiency and stability. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	30
76	Advanced interface modelling of n-Si/HNO <sub>3</sub> doped graphene solar cells to identify pathways to high efficiency. <i>Applied Surface Science</i> , 2018, 434, 102-111.	6.1	10
77	ZnSe nanoribbon-Si nanowire crossed p-n nano-heterojunctions: Electrical characterizations and photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2018, 176, 411-417.	6.2	2
78	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.	5.6	23
79	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.	10.4	25
80	Graphene/MoS <sub>2</sub> /Si Nanowires Schottky-NP Bipolar van der Waals Heterojunction for Ultrafast Photodetectors. <i>IEEE Electron Device Letters</i> , 2018, 39, 1688-1691.	3.9	21
81	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.	21.0	56
82	Solution-Processed 3D RGO-MoS <sub>2</sub> /Pyramid Si Heterojunction for Ultrahigh Detectivity and Ultra-Broadband Photodetection. <i>Advanced Materials</i> , 2018, 30, e1801729.	21.0	175
83	1D Organic-Inorganic Hybrid Perovskite Micro/Nanocrystals: Fabrication, Assembly, and Optoelectronic Applications. <i>Small Methods</i> , 2018, 2, 1700340.	8.6	27
84	Light-trapping enhanced ZnO-MoS <sub>2</sub> core-shell nanopillar arrays for broadband ultraviolet-visible-near infrared photodetection. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7077-7084.	5.5	52
85	Efficient photovoltaic devices based on p-ZnSe/n-CdS core-shell heterojunctions with high open-circuit voltage. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2107-2113.	5.5	12
86	Efficient and Stable Silicon Photocathodes Coated with Vertically Standing Nano-MoS <sub>2</sub> Films for Solar Hydrogen Production. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 6123-6129.	8.0	96
87	Ultrahigh-Responsivity Photodetectors from Perovskite Nanowire Arrays for Sequentially Tunable Spectral Measurement. <i>Nano Letters</i> , 2017, 17, 2482-2489.	9.1	242
88	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 <sup>2</sup> Scale. <i>Advanced Materials</i> , 2017, 29, 1603923.	21.0	190
89	Ordered and Patterned Assembly of Organic Micro/Nanocrystals for Flexible Electronic and Optoelectronic Devices. <i>Advanced Materials Technologies</i> , 2017, 2, 1600280.	5.8	21
90	Precise Patterning of Organic Single Crystals via Capillary-Assisted Alternating Electric Field. <i>Small</i> , 2017, 13, 1604261.	10.0	18

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91	One-step fabrication of CdS:MoO <sub>4</sub> core-shell nanoribbons for nonvolatile memory devices with high resistance switching. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6156-6162.	5.5	8
92	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.	10.3	40
93	12.35% efficient graphene quantum dots/silicon heterojunction solar cells using graphene transparent electrode. <i>Nano Energy</i> , 2017, 31, 359-366.	16.0	114
94	The way to high-performance single nanowire photodetectors: problems and prospects. <i>Science China: Physics, Mechanics and Astronomy</i> , 2017, 60, 1.	5.1	2
95	Large-Scale Fabrication of Silicon Nanowires for Solar Energy Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 34527-34543.	8.0	45
96	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.	27.0	21
97	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.	3.1	35
98	Centimeter-Long Single-Crystalline Si Nanowires. <i>Nano Letters</i> , 2017, 17, 7323-7329.	9.1	29
99	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.	10.3	52
100	Alignment and Patterning of Ordered Small-Molecule Organic Semiconductor Micro/Nanocrystals for Device Applications. <i>Advanced Materials</i> , 2016, 28, 2475-2503.	21.0	129
101	Topological insulator Bi <sub>2</sub> Se <sub>3</sub> nanowire/Si heterostructure photodetectors with ultrahigh responsivity and broadband response. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5648-5655.	5.5	44
102	A facile method for fabrication of highly integrated organic field-effect transistors on photoresist-unwetttable insulators with remarkable stability. <i>Organic Electronics</i> , 2016, 34, 104-110.	2.6	4
103	High-Responsivity, High-Detectivity, Ultrafast Topological Insulator Bi <sub>2</sub> Se <sub>3</sub> /Silicon Heterostructure Broadband Photodetectors. <i>ACS Nano</i> , 2016, 10, 5113-5122.	14.6	300
104	Ultrafast, Broadband Photodetector Based on MoSe <sub>2</sub> /Silicon Heterojunction with Vertically Standing Layered Structure Using Graphene as Transparent Electrode. <i>Advanced Science</i> , 2016, 3, 1600018.	11.2	210
105	Surface Charge Transfer Doping of Low-Dimensional Nanostructures toward High-Performance Nanodevices. <i>Advanced Materials</i> , 2016, 28, 10409-10442.	21.0	144
106	An Inherent Multifunctional Sellotape Substrate for High-Performance Flexible and Wearable Organic Single-Crystal Nanowire Array-Based Transistors. <i>Advanced Electronic Materials</i> , 2016, 2, 1600129.	5.1	8
107	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.	14.6	31
108	Organometal Halide Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016, 26, 4797-4802.	14.9	231

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109	High-sensitivity and self-driven photodetectors based on Ge/CdS core-shell heterojunction nanowires via atomic layer deposition. CrystEngComm, 2016, 18, 3919-3924.	2.6	18
110	Length-dependent thermal transport in one-dimensional self-assembly of planar $\pi$ -conjugated molecules. Nanoscale, 2016, 8, 11932-11939.	5.6	7
111	On the Mechanism of Hydrophilicity of Graphene. Nano Letters, 2016, 16, 4447-4453.	9.1	148
112	Aligned Single-Crystalline Perovskite Microwire Arrays for High-Performance Flexible Image Sensors with Long-Term Stability. Advanced Materials, 2016, 28, 2201-2208.	21.0	346
113	Two-dimensional layered material/silicon heterojunctions for energy and optoelectronic applications. Nano Research, 2016, 9, 72-93.	10.4	62
114	Bismuth-catalyzed and doped p-type ZnSe nanowires and their temperature-dependent charge transport properties. Journal of Materials Chemistry C, 2016, 4, 857-862.	5.5	4
115	Precisely Patterned Growth of Ultra-Long Single-Crystalline Organic Microwire Arrays for Near-Infrared Photodetectors. ACS Applied Materials & Interfaces, 2016, 8, 7912-7918.	8.0	26
116	Wafer-Scale Precise Patterning of Organic Single-Crystal Nanowire Arrays via a Photolithography-Assisted Spin-Coating Method. Advanced Materials, 2015, 27, 7305-7312.	21.0	84
117	P- and N-type Surface Charge Transfer Doping of II-VI Group Semiconductor Nanostructures and Their Enhanced Optoelectronic Properties. , 2015, , .		0
118	Surface charge transfer induced p-CdS nanoribbon/n-Si heterojunctions as fast-speed self-driven photodetectors. Journal of Materials Chemistry C, 2015, 3, 6307-6313.	5.5	24
119	Flexible graphene/silicon heterojunction solar cells. Journal of Materials Chemistry A, 2015, 3, 14370-14377.	10.3	74
120	A solution-phase approach to Cd <sub>3</sub> P <sub>2</sub> nanowires: synthesis and characterization. Chemical Communications, 2015, 51, 2593-2596.	4.1	3
121	Facile One-Step Fabrication of Ordered Ultra-Long Organic Microwires Film for Flexible Near-Infrared Photodetectors. Journal of Nanoscience and Nanotechnology, 2015, 15, 4450-4456.	0.9	7
122	Organic Nanowire/Crystalline Silicon $\pi$ - $n$ Heterojunctions for High-Sensitivity, Broadband Photodetectors. ACS Applied Materials & Interfaces, 2015, 7, 2039-2045.	8.0	43
123	Solution-Processed Graphene Quantum Dot Deep-UV Photodetectors. ACS Nano, 2015, 9, 1561-1570.	14.6	249
124	Shape and composition control of Bi <sub>19</sub> S <sub>27</sub> (Br <sub>3</sub> <sup>x</sup> ,I <sub>x</sub> ) alloyed nanowires: the role of metal ions. Chemical Science, 2015, 6, 4615-4622.	7.4	24
125	Patterned growth of single-crystal 3, 4, 9, 10-perylenetetracarboxylic dianhydride nanowire arrays for field-emission and optoelectronic devices. Nanotechnology, 2015, 26, 295302.	2.6	4
126	MoO <sub>3</sub> Nanodots Decorated CdS Nanoribbons for High-Performance, Homo Junction Photovoltaic Devices on Flexible Substrates. Nano Letters, 2015, 15, 3590-3596.	9.1	38



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127	Bilayer graphene based surface passivation enhanced nano structured self-powered near-infrared photodetector. <i>Optics Express</i> , 2015, 23, 4839.	3.4	39
128	MoS <sub>2</sub> /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.	14.9	554
129	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, 13200-13208.	13.7	32
130	Surface Charge Transfer Doping of Monolayer Phosphorene via Molecular Adsorption. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4701-4710.	4.6	63
131	Interfacial state induced ultrasensitive ultraviolet light photodetector with resolved flux down to 85 photons per second. <i>Nano Research</i> , 2015, 8, 1098-1107.	10.4	17
132	Smart Nanorods for Highly Effective Cancer Theranostic Applications. <i>Advanced Healthcare Materials</i> , 2014, 3, 906-915.	7.6	14
133	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.	2.6	23
134	Highly luminescent and photostable core-shell dye nanoparticles for high efficiency bioimaging. <i>Chemical Communications</i> , 2014, 50, 737-739.	4.1	17
135	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.	5.5	55
136	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.	5.5	36
137	Functional Core/Shell Drug Nanoparticles for Highly Effective Synergistic Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2014, 3, 1475-1485.	7.6	22
138	Surface plasmon resonance enhanced highly efficient planar silicon solar cell. <i>Nano Energy</i> , 2014, 9, 112-120.	16.0	83
139	Large-Scale Assembly of Organic Micro/Nanocrystals into Highly Ordered Patterns and Their Applications for Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 11018-11024.	8.0	18
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