Jian-Sheng Jie

List of Publications by Year in Descending Order

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	Scalable Growth of Organic Single-Crystal Films via Orientation Filter Funnel for High-Performance Transistors with Excellent Uniformity.. *Advanced Materials*, **2022**, e2109818	24	6
243	Wafer-Scale Fabrication of Silicon Nanocones via Controlling Catalyst Evolution in All-Wet Metal-Assisted Chemical Etching.. *ACS Omega*, **2022**, 7, 2234-2243	3.9	2
242	Enhancing the efficiency and stability of Organic/Silicon solar cells using graphene electrode and Double-layer Anti-reflection coating. *Solar Energy*, **2022**, 234, 111-118	6.8	1
241	Fabrication of PdSe/GaN Schottky Junction for Polarization-Sensitive Ultraviolet Photodetection with High Dichroic Ratio.. *ACS Nano*, **2022**,	16.7	23
240	Fully Solution-Printed Photosynaptic Transistor Array with Ultralow Energy Consumption for Artificial Vision Neural Network.. *Advanced Materials*, **2022**, e2200380	24	9
239	Bilayer-passivated stable dif-TES-ADT organic thin-film transistors. *Applied Physics Letters*, **2021**, 119, 183301	3.4	2
238	Patterning Liquid Crystalline Organic Semiconductors via Inkjet Printing for High-Performance Transistor Arrays and Circuits. *Advanced Functional Materials*, **2021**, 31, 2100237	15.6	22
237	High-Performance Nondoped Organic Light-Emitting Diode Based on a Thermally Activated Delayed Fluorescence Emitter with 1D Intermolecular Hydrogen Bonding Interactions. *Advanced Optical Materials*, **2021**, 9, 2100461	8.1	8
236	Ultrabroadband and High-Detectivity Photodetector Based on WS/Ge Heterojunction through Defect Engineering and Interface Passivation. *ACS Nano*, **2021**, 15, 10119-10129	16.7	73
235	Single-Crystalline Silicon Frameworks: A New Platform for Transparent Flexible Optoelectronics. *Advanced Materials*, **2021**, 33, e2008171	24	4
234	Water-Surface Drag Coating: A New Route Toward High-Quality Conjugated Small-Molecule Thin Films with Enhanced Charge Transport Properties. *Advanced Materials*, **2021**, 33, e2005915	24	23
233	Solution-Processable Carbon and Graphene Quantum Dots Photodetectors. *Lecture Notes in Nanoscale Science and Technology*, **2021**, 157-214	0.3	
232	2D molecular crystal templated organic p□ heterojunctions for high-performance ambipolar organic field-effect transistors. *Journal of Materials Chemistry C*, **2021**, 9, 5758-5764	7.1	6
231	Precise patterning of single crystal arrays of organic semiconductors by a patterned microchannel dip-coating method for organic field-effect transistors. *Journal of Materials Chemistry C*, **2021**, 9, 5174-5181	7.1	1
230	Improving Ideality of P-Type Organic Field-Effect Transistors via Preventing Undesired Minority Carrier Injection. *Advanced Functional Materials*, **2021**, 31, 2100202	15.6	12
229	Organic Semiconductor Crystal Engineering for High-Resolution Layer-Controlled 2D Crystal Arrays. *Advanced Materials*, **2021**, e2104166	24	4
228	Characterizing the Conformational Distribution in an Amorphous Film of an Organic Emitter and Its Application in a "Self-Doping" Organic Light-Emitting Diode. *Angewandte Chemie - International Edition*, **2021**, 60, 25878-25883	16.4	11

227	Van der Waals Epitaxial Growth of Mosaic-Like 2D Platinum Ditelluride Layers for Room-Temperature Mid-Infrared Photodetection up to 10.6 μm. *Advanced Materials*, **2020**, 32, e2004412	24	86
226	Fast deposition of an ultrathin, highly crystalline organic semiconductor film for high-performance transistors. *Nanoscale Horizons*, **2020**, 5, 1096-1105	10.8	14
225	Few-Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. *Advanced Electronic Materials*, **2020**, 6, 2000062	6.4	15
224	Ultraminiaturized Stretchable Strain Sensors Based on Single Silicon Nanowires for Imperceptible Electronic Skins. *Nano Letters*, **2020**, 20, 2478-2485	11.5	34
223	A Microchannel-Confined Crystallization Strategy Enables Blade Coating of Perovskite Single Crystal Arrays for Device Integration. *Advanced Materials*, **2020**, 32, e1908340	24	39
222	Meniscus-guided coating of organic crystalline thin films for high-performance organic field-effect transistors. *Journal of Materials Chemistry C*, **2020**, 8, 9133-9146	7.1	24
221	Controlled 2D growth of organic semiconductor crystals by suppressing □offee-ring□effect. *Nano Research*, **2020**, 13, 2478-2484	10	9
220	An ultrasensitive self-driven broadband photodetector based on a 2D-WS/GaAs type-II Zener heterojunction. *Nanoscale*, **2020**, 12, 4435-4444	7.7	29
219	Mixed-dimensional PdSe2/SiNWA heterostructure based photovoltaic detectors for self-driven, broadband photodetection, infrared imaging and humidity sensing. *Journal of Materials Chemistry A* , **2020**, 8, 3632-3642	13	87
218	Roles of interfaces in the ideality of organic field-effect transistors. *Nanoscale Horizons*, **2020**, 5, 454-472	10.8	18
217	Cation exchange synthesis of two-dimensional vertical Cu2S/CdS heterojunctions for photovoltaic device applications. *Journal of Materials Chemistry A*, **2020**, 8, 789-796	13	16
216	Theoretical Studies of Bipolar Transport in CBTBT-FTCNQ Donor-Acceptor Cocrystals. *Journal of Physical Chemistry Letters*, **2020**, 11, 359-365	6.4	10
215	Surficial Marangoni Flow-Induced Growth of Ultrathin 2D Molecular Crystals on Target Substrates. *Advanced Materials Interfaces*, **2020**, 7, 1901753	4.6	7
214	Ultrahigh Speed and Broadband Few-Layer MoTe2/Si 2D□3D Heterojunction-Based Photodiodes Fabricated by Pulsed Laser Deposition. *Advanced Functional Materials*, **2020**, 30, 1907951	15.6	68
213	High-resolution patterning of organic semiconductor single crystal arrays for high-integration organic field-effect transistors. *Materials Today*, **2020**, 40, 82-90	21.8	27
212	Atomic-Scale Interface Engineering for Constructing p-CuPc/n-CdS Core□Shell Heterojunctions toward Light-Harvesting Application. *ACS Applied Energy Materials*, **2020**, 3, 8765-8773	6.1	2
211	Hydrogen bond-modulated molecular packing and its applications in high-performance non-doped organic electroluminescence. *Materials Horizons*, **2020**, 7, 2734-2740	14.4	21
210	Graphene-Quantum-Dots-Induced Centimeter-Sized Growth of Monolayer Organic Crystals for High-Performance Transistors. *Advanced Materials*, **2020**, 32, e2003315	24	14

209	Air Effect on the Ideality of p-Type Organic Field-Effect Transistors: A Double-Edged Sword. *Advanced Functional Materials*, **2019**, 29, 1906653	15.6	15
208	Precise Positioning of Organic Semiconductor Single Crystals with Two-Component Aligned Structure through 3D Wettability-Induced Sequential Assembly. *ACS Applied Materials & Interfaces*, **2019**, 11, 36205-36212	9.5	12
207	One-step growth of large-area silicon nanowire fabrics for high-performance multifunctional wearable sensors. *Nano Research*, **2019**, 12, 2723-2728	10	7
206	External-force-driven solution epitaxy of large-area 2D organic single crystals for high-performance field-effect transistors. *Nano Research*, **2019**, 12, 2796-2801	10	18
205	Quantum transport characteristics of heavily doped bismuth selenide nanoribbons. *Npj Quantum Materials*, **2019**, 4,	5	20
204	Tuning Electrical and Raman Scattering Properties of Cadmium Sulfide Nanoribbons via Surface Charge Transfer Doping. *Journal of Physical Chemistry C*, **2019**, 123, 15794-15801	3.8	5
203	A Facile Method for the Growth of Organic Semiconductor Single Crystal Arrays on Polymer Dielectric toward Flexible Field-Effect Transistors. *Advanced Functional Materials*, **2019**, 29, 1902494	15.6	30
202	High-Performance Nanofloating Gate Memory Based on Lead Halide Perovskite Nanocrystals. *ACS Applied Materials & Interfaces*, **2019**, 11, 24367-24376	9.5	15
201	Dual-Band, High-Performance Phototransistors from Hybrid Perovskite and Organic Crystal Array for Secure Communication Applications. *ACS Nano*, **2019**, 13, 5910-5919	16.7	43
200	Precise Patterning of Organic Semiconductor Crystals for Integrated Device Applications. *Small*, **2019**, 15, e1900332	11	31
199	Memory phototransistors based on exponential-association photoelectric conversion law. *Nature Communications*, **2019**, 10, 1294	17.4	29
198	Photodetectors based on small-molecule organic semiconductor crystals. *Chinese Physics B*, **2019**, 28, 038102	1.2	10
197	Application of Silicon Oxide on High Efficiency Monocrystalline Silicon PERC Solar Cells. *Energies*, **2019**, 12, 1168	3.1	13
196	The Impact of Thermal Treatment on Light-Induced Degradation of Multicrystalline Silicon PERC Solar Cell. *Energies*, **2019**, 12, 416	3.1	9
195	Channel-restricted meniscus self-assembly for uniformly aligned growth of single-crystal arrays of organic semiconductors. *Materials Today*, **2019**, 24, 17-25	21.8	75
194	Layer-Defining Strategy to Grow Two-Dimensional Molecular Crystals on a Liquid Surface down to the Monolayer Limit. *Angewandte Chemie - International Edition*, **2019**, 58, 16082-16086	16.4	31
193	2D Ruddlesden–Popper Perovskite Nanoplate Based Deep-Blue Light-Emitting Diodes for Light Communication. *Advanced Functional Materials*, **2019**, 29, 1903861	15.6	71
192	Highly Polarization-Sensitive, Broadband, Self-Powered Photodetector Based on Graphene/PdSe/Germanium Heterojunction. *ACS Nano*, **2019**, 13, 9907-9917	16.7	218

191	Unraveling the Mechanism of the Persistent Photoconductivity in Organic Phototransistors. *Advanced Functional Materials*, **2019**, 29, 1905657	15.6	25
190	Organic molecular crystal-based photosynaptic devices for an artificial visual-perception system. *NPG Asia Materials*, **2019**, 11,	10.3	40
189	Few-layer formamidinium lead bromide nanoplatelets for ultrapure-green and high-efficiency light-emitting diodes. *Nano Research*, **2019**, 12, 171-176	10	17
188	Saturated Vapor-Assisted Growth of Single-Crystalline Organic-Inorganic Hybrid Perovskite Nanowires for High-Performance Photodetectors with Robust Stability. *ACS Applied Materials & Interfaces*, **2018**, 10, 10287-10295	9.5	34
187	Organic□inorganic hybrid perovskite quantum dots for light-emitting diodes. *Journal of Materials Chemistry C*, **2018**, 6, 4831-4841	7.1	49
186	Tuning the electronic transport anisotropy in □phase phosphorene through superlattice design. *Physical Review B*, **2018**, 97,	3.3	8
185	Hue tunable, high color saturation and high-efficiency graphene/silicon heterojunction solar cells with MgF2/ZnS double anti-reflection layer. *Nano Energy*, **2018**, 46, 257-265	17.1	33
184	CdS Nanoribbon-Based Resistive Switches with Ultrawidely Tunable Power by Surface Charge Transfer Doping. *Advanced Functional Materials*, **2018**, 28, 1706577	15.6	14
183	Facile Assembly of High-Quality Organic□inorganic Hybrid Perovskite Quantum Dot Thin Films for Bright Light-Emitting Diodes. *Advanced Functional Materials*, **2018**, 28, 1705189	15.6	48
182	Integrated MoSe2 with n+p-Si photocathodes for solar water splitting with high efficiency and stability. *Applied Physics Letters*, **2018**, 112, 013902	3.4	24
181	Advanced interface modelling of n-Si/HNO3 doped graphene solar cells to identify pathways to high efficiency. *Applied Surface Science*, **2018**, 434, 102-111	6.7	6
180	Solution-Processed 3D RGO-MoS /Pyramid Si Heterojunction for Ultrahigh Detectivity and Ultra-Broadband Photodetection. *Advanced Materials*, **2018**, 30, e1801729	24	117
179	1D Organic□inorganic Hybrid Perovskite Micro/Nanocrystals: Fabrication, Assembly, and Optoelectronic Applications. *Small Methods*, **2018**, 2, 1700340	12.8	18
178	Light-trapping enhanced ZnO□MoS2 core□shell nanopillar arrays for broadband ultraviolet-visible-near infrared photodetection. *Journal of Materials Chemistry C*, **2018**, 6, 7077-7084	7.1	36
177	ZnSe nanoribbon-Si nanowire crossed p-n nano-heterojunctions: Electrical characterizations and photovoltaic applications. *Solar Energy Materials and Solar Cells*, **2018**, 176, 411-417	6.4	2
176	Flexible integrated diode-transistor logic (DTL) driving circuits based on printed carbon nanotube thin film transistors with low operation voltage. *Nanoscale*, **2018**, 10, 614-622	7.7	21
175	High-mobility air-stable n-type field-effect transistors based on large-area solution-processed organic single-crystal arrays. *Nano Research*, **2018**, 11, 882-891	10	22
174	Graphene/MoS2/Si Nanowires Schottky-NP Bipolar van der Waals Heterojunction for Ultrafast Photodetectors. *IEEE Electron Device Letters*, **2018**, 39, 1688-1691	4.4	16

173	Precise Patterning of Laterally Stacked Organic Microbelt Heterojunction Arrays by Surface-Energy-Controlled Stepwise Crystallization for Ambipolar Organic Field-Effect Transistors. *Advanced Materials*, **2018**, 30, e1800187	24	51
172	Efficient photovoltaic devices based on p-ZnSe/n-CdS core□shell heterojunctions with high open-circuit voltage. *Journal of Materials Chemistry C*, **2017**, 5, 2107-2113	7.1	11
171	Efficient and Stable Silicon Photocathodes Coated with Vertically Standing Nano-MoS Films for Solar Hydrogen Production. *ACS Applied Materials & Interfaces*, **2017**, 9, 6123-6129	9.5	75
170	Ultrahigh-Responsivity Photodetectors from Perovskite Nanowire Arrays for Sequentially Tunable Spectral Measurement. *Nano Letters*, **2017**, 17, 2482-2489	11.5	184
169	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. *Advanced Materials*, **2017**, 29, 1603923	24	164
168	Ordered and Patterned Assembly of Organic Micro/Nanocrystals for Flexible Electronic and Optoelectronic Devices. *Advanced Materials Technologies*, **2017**, 2, 1600280	6.8	18
167	Precise Patterning of Organic Single Crystals via Capillary-Assisted Alternating-Electric Field. *Small*, **2017**, 13, 1604261	11	15
166	One-step fabrication of CdS:Mo□CdMoO4 core□shell nanoribbons for nonvolatile memory devices with high resistance switching. *Journal of Materials Chemistry C*, **2017**, 5, 6156-6162	7.1	8
165	Self-driven, broadband and ultrafast photovoltaic detectors based on topological crystalline insulator SnTe/Si heterostructures. *Journal of Materials Chemistry A*, **2017**, 5, 11171-11178	13	29
164	12.35% efficient graphene quantum dots/silicon heterojunction solar cells using graphene transparent electrode. *Nano Energy*, **2017**, 31, 359-366	17.1	90
163	Large-Scale Fabrication of Silicon Nanowires for Solar Energy Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 34527-34543	9.5	26
162	Controlled Growth of Large-Area Aligned Single-Crystalline Organic Nanoribbon Arrays for Transistors and Light-Emitting Diodes Driving. *Nano-Micro Letters*, **2017**, 9, 52	19.5	17
161	Tuning the Electronic and Optical Properties of Monolayers As, Sb, and Bi via Surface Charge Transfer Doping. *Journal of Physical Chemistry C*, **2017**, 121, 19530-19537	3.8	30
160	Centimeter-Long Single-Crystalline Si Nanowires. *Nano Letters*, **2017**, 17, 7323-7329	11.5	23
159	Surface charge transfer doping induced inversion layer for high-performance graphene/silicon heterojunction solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 285-291	13	46
158	Surface Charge Transfer Doping of Low-Dimensional Nanostructures toward High-Performance Nanodevices. *Advanced Materials*, **2016**, 28, 10409-10442	24	105
157	An Inherent Multifunctional Sellotape Substrate for High-Performance Flexible and Wearable Organic Single-Crystal Nanowire Array-Based Transistors. *Advanced Electronic Materials*, **2016**, 2, 1600129	6.4	8
156	Surface Charge Transfer Doping via Transition Metal Oxides for Efficient p-Type Doping of II-VI Nanostructures. *ACS Nano*, **2016**, 10, 10283-10293	16.7	26

155	Organometal Halide Perovskite Quantum Dot Light-Emitting Diodes. *Advanced Functional Materials* , **2016**, 26, 4797-4802	15.6	196
154	High-sensitivity and self-driven photodetectors based on Ge□CdS core□shell heterojunction nanowires via atomic layer deposition. *CrystEngComm*, **2016**, 18, 3919-3924	3.3	14
153	Length-dependent thermal transport in one-dimensional self-assembly of planar □conjugated molecules. *Nanoscale*, **2016**, 8, 11932-9	7.7	7
152	On the Mechanism of Hydrophilicity of Graphene. *Nano Letters*, **2016**, 16, 4447-53	11.5	102
151	Aligned Single-Crystalline Perovskite Microwire Arrays for High-Performance Flexible Image Sensors with Long-Term Stability. *Advanced Materials*, **2016**, 28, 2201-8	24	283
150	Two-dimensional layered material/silicon heterojunctions for energy and optoelectronic applications. *Nano Research*, **2016**, 9, 72-93	10	44
149	Bismuth-catalyzed and doped p-type ZnSe nanowires and their temperature-dependent charge transport properties. *Journal of Materials Chemistry C*, **2016**, 4, 857-862	7.1	3
148	Precisely Patterned Growth of Ultra-Long Single-Crystalline Organic Microwire Arrays for Near-Infrared Photodetectors. *ACS Applied Materials & Interfaces*, **2016**, 8, 7912-8	9.5	22
147	Alignment and Patterning of Ordered Small-Molecule Organic Semiconductor Micro-/Nanocrystals for Device Applications. *Advanced Materials*, **2016**, 28, 2475-503	24	108
146	Topological insulator Bi2Se3 nanowire/Si heterostructure photodetectors with ultrahigh responsivity and broadband response. *Journal of Materials Chemistry C*, **2016**, 4, 5648-5655	7.1	34
145	A facile method for fabrication of highly integrated organic field-effect transistors on photoresist-unwettable insulators with remarkable stability. *Organic Electronics*, **2016**, 34, 104-110	3.5	4
144	High-Responsivity, High-Detectivity, Ultrafast Topological Insulator Bi2Se3/Silicon Heterostructure Broadband Photodetectors. *ACS Nano*, **2016**, 10, 5113-22	16.7	202
143	Ultrafast, Broadband Photodetector Based on MoSe/Silicon Heterojunction with Vertically Standing Layered Structure Using Graphene as Transparent Electrode. *Advanced Science*, **2016**, 3, 1600018	13.6	146
142	Shape and composition control of BiS(Br ,I) alloyed nanowires: the role of metal ions. *Chemical Science*, **2015**, 6, 4615-4622	9.4	13
141	Patterned growth of single-crystal 3, 4, 9, 10-perylenetetracarboxylic dianhydride nanowire arrays for field-emission and optoelectronic devices. *Nanotechnology*, **2015**, 26, 295302	3.4	4
140	MoO3 Nanodots Decorated CdS Nanoribbons for High-Performance, Homojunction Photovoltaic Devices on Flexible Substrates. *Nano Letters*, **2015**, 15, 3590-6	11.5	33
139	Bilayer graphene based surface passivation enhanced nano structured self-powered near-infrared photodetector. *Optics Express*, **2015**, 23, 4839-46	3.3	33
138	MoS2/Si Heterojunction with Vertically Standing Layered Structure for Ultrafast, High-Detectivity, Self-Driven Visible□Near Infrared Photodetectors. *Advanced Functional Materials*, **2015**, 25, 2910-2919	15.6	427

137	Macroscopic and Strong Ribbons of Functionality-Rich Metal Oxides from Highly Ordered Assembly of Unilamellar Sheets. *Journal of the American Chemical Society*, **2015**, 137, 13200-8	16.4	28
136	Surface Charge Transfer Doping of Monolayer Phosphorene via Molecular Adsorption. *Journal of Physical Chemistry Letters*, **2015**, 6, 4701-10	6.4	61
135	Interfacial state induced ultrasensitive ultraviolet light photodetector with resolved flux down to 85 photons per second. *Nano Research*, **2015**, 8, 1098-1107	10	16
134	Wafer-Scale Precise Patterning of Organic Single-Crystal Nanowire Arrays via a Photolithography-Assisted Spin-Coating Method. *Advanced Materials*, **2015**, 27, 7305-12	24	76
133	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	7.1	22
132	Flexible graphene/silicon heterojunction solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 14370-14377	13	57
131	A solution-phase approach to Cd3P2 nanowires: synthesis and characterization. *Chemical Communications*, **2015**, 51, 2593-6	5.8	3
130	Facile One-Step Fabrication of Ordered Ultra-Long Organic Microwires Film for Flexible Near-Infrared Photodetectors. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 4450-6	1.3	6
129	Organic nanowire/crystalline silicon p-n heterojunctions for high-sensitivity, broadband photodetectors. *ACS Applied Materials & Interfaces*, **2015**, 7, 2039-45	9.5	35
128	Solution-processed graphene quantum dot deep-UV photodetectors. *ACS Nano*, **2015**, 9, 1561-70	16.7	206
127	A high-yield two-step transfer printing method for large-scale fabrication of organic single-crystal devices on arbitrary substrates. *Scientific Reports*, **2014**, 4, 5358	4.9	25
126	Very facile fabrication of aligned organic nanowires based high-performance top-gate transistors on flexible, transparent substrate. *Organic Electronics*, **2014**, 15, 1317-1323	3.5	18
125	Highly luminescent and photostable core-shell dye nanoparticles for high efficiency bioimaging. *Chemical Communications*, **2014**, 50, 737-9	5.8	17
124	Clean surface transfer of graphene films via an effective sandwich method for organic light-emitting diode applications. *Journal of Materials Chemistry C*, **2014**, 2, 201-207	7.1	52
123	Aligned nanowire arrays on thin flexible substrates for organic transistors with high bending stability. *Journal of Materials Chemistry C*, **2014**, 2, 1314-1320	7.1	31
122	Functional core/shell drug nanoparticles for highly effective synergistic cancer therapy. *Advanced Healthcare Materials*, **2014**, 3, 1475-85	10.1	19
121	Surface plasmon resonance enhanced highly efficient planar silicon solar cell. *Nano Energy*, **2014**, 9, 112-120	17.1	69
120	Large-scale assembly of organic micro/nanocrystals into highly ordered patterns and their applications for strain sensors. *ACS Applied Materials & Interfaces*, **2014**, 6, 11018-24	9.5	16

119	Air heating approach for multilayer etching and roll-to-roll transfer of silicon nanowire arrays as SERS substrates for high sensitivity molecule detection. *ACS Applied Materials & Interfaces*, **2014**, 6, 977-84	9.5	16
118	Crystalline Si/Graphene Quantum Dots Heterojunction Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 5164-5171	3.8	102
117	Interfacially Engineered High-Speed Nonvolatile Memories Employing p-Type Nanoribbons. *Advanced Materials Interfaces*, **2014**, 1, 1400130	4.6	3
116	Smart nanorods for highly effective cancer theranostic applications. *Advanced Healthcare Materials*, **2014**, 3, 906-15	10.1	13
115	High-efficiency graphene/Si nanoarray Schottky junction solar cells via surface modification and graphene doping. *Journal of Materials Chemistry A*, **2013**, 1, 6593	13	107
114	In situ integration of squaraine-nanowire-array-based Schottky-type photodetectors with enhanced switching performance. *ACS Applied Materials & Interfaces*, **2013**, 5, 12288-94	9.5	24
113	Ultralow Contact Resistivity of Cu/Au With p -Type ZnS Nanoribbons for Nanoelectronic Applications. *IEEE Electron Device Letters*, **2013**, 34, 810-812	4.4	8
112	Large-area aligned growth of single-crystalline organic nanowire arrays for high-performance photodetectors. *Nanotechnology*, **2013**, 24, 355201	3.4	30
111	CTAB Assisted Synthesis of CuS Microcrystals: Synthesis, Mechanism, and Electrical Properties. *Journal of Materials Science and Technology*, **2013**, 29, 1047-1052	9.1	28
110	The application of single-layer graphene modified with solution-processed TiOx and PEDOT:PSS as a transparent conductive anode in organic light-emitting diodes. *Organic Electronics*, **2013**, 14, 3348-3354	3.5	37
109	High-Sensitivity and Fast-Response Graphene/Crystalline Silicon Schottky Junction-Based Near-IR Photodetectors. *IEEE Electron Device Letters*, **2013**, 34, 1337-1339	4.4	109
108	Large conductance switching nonvolatile memories based on p-ZnS nanoribbon/n-Si heterojunction. *Journal of Materials Chemistry C*, **2013**, 1, 1238-1244	7.1	10
107	Large-scale assembly of semiconductor nanowires into desired patterns for sensor applications. *New Journal of Chemistry*, **2013**, 37, 1776	3.6	6
106	Hole-induced large-area homoepitaxial growth of CdSe nanowire arrays for photovoltaic application. *Journal of Materials Chemistry A*, **2013**, 1, 6313	13	6
105	High-efficiency, air stable graphene/Si micro-hole array Schottky junction solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 15348	13	74
104	Shape design of high drug payload nanoparticles for more effective cancer therapy. *Chemical Communications*, **2013**, 49, 10989-91	5.8	41
103	Tuning the p-type conductivity of ZnSe nanowires via silver doping for rectifying and photovoltaic device applications. *Journal of Materials Chemistry A*, **2013**, 1, 1148-1154	13	25
102	Carrier-free functionalized multidrug nanorods for synergistic cancer therapy. *Biomaterials*, **2013**, 34, 8960-7	15.6	88

101	Flexible CuS nanotubes-ITO film Schottky junction solar cells with enhanced light harvesting by using an Ag mirror. *Nanotechnology*, **2013**, 24, 045402	3.4	14
100	Monolayer graphene film on ZnO nanorod array for high-performance Schottky junction ultraviolet photodetectors. *Small*, **2013**, 9, 2872-9	11	236
99	Graphene Transparent Conductive Electrodes for Highly Efficient Silicon Nanostructures-Based Hybrid Heterojunction Solar Cells. *Journal of Physical Chemistry C*, **2013**, 117, 11968-11976	3.8	85
98	Surface passivation and band engineering: a way toward high efficiency graphene□planar Si solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 8567	13	108
97	Fabrication of p-type ZnSe:Sb nanowires for high-performance ultraviolet light photodetector application. *Nanotechnology*, **2013**, 24, 095603	3.4	33
96	Self-assembly and hierarchical patterning of aligned organic nanowire arrays by solvent evaporation on substrates with patterned wettability. *ACS Applied Materials & Interfaces*, **2013**, 5, 5757-62	9.5	23
95	Ultrahigh Mobility of p-Type CdS Nanowires: Surface Charge Transfer Doping and Photovoltaic Devices. *Advanced Energy Materials*, **2013**, 3, 579-583	21.8	34
94	ZnSe nanowire/Si p-n heterojunctions: device construction and optoelectronic applications. *Nanotechnology*, **2013**, 24, 395201	3.4	21
93	In-situ device integration of large-area patterned organic nanowire arrays for high-performance optical sensors. *Scientific Reports*, **2013**, 3, 3248	4.9	23
92	Composition tuning of room-temperature nanolasers. *Vacuum*, **2012**, 86, 737-741	3.7	13
91	Large-scale controllable patterning growth of aligned organic nanowires through evaporation-induced self-assembly. *Chemistry - A European Journal*, **2012**, 18, 975-80	4.8	16
90	ZnSe nanoribbon/Si nanowire p□ heterojunction arrays and their photovoltaic application with graphene transparent electrodes. *Journal of Materials Chemistry*, **2012**, 22, 22873		26
89	Surface charge transfer doping of germanium nanowires by MoO3 deposition. *RSC Advances*, **2012**, 2, 3361	3.7	7
88	Transparent and flexible selenium nanobelt-based visible light photodetector. *CrystEngComm*, **2012**, 14, 1942	3.3	60
87	Nonvolatile multibit Schottky memory based on single n-type Ga doped CdSe nanowires. *Nanotechnology*, **2012**, 23, 485203	3.4	11
86	Device structure-dependent field-effect and photoresponse performances of p-type ZnTe:Sb nanoribbons. *Journal of Materials Chemistry*, **2012**, 22, 6206		85
85	p-CdTe nanoribbon/n-silicon nanowires array heterojunctions: photovoltaic devices and zero-power photodetectors. *CrystEngComm*, **2012**, 14, 7222	3.3	36
84	Aligned ultralong nanowire arrays and their application in flexible photodetector devices. *Journal of Materials Chemistry*, **2012**, 22, 14357		40

83	Highly branched organic microcrystals via self-organization and growth kinetics manipulation. *CrystEngComm*, **2012**, 14, 8124	3.3	13
82	Facile formation of microscale hollow superstructures made of organic nanocrystals and their application as a humidity sensor. *CrystEngComm*, **2012**, 14, 819-823	3.3	7
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