

Yi Shi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

291
papers

11,650
citations

53
h-index

100
g-index

328
ext. papers

13,972
ext. citations

8.2
avg, IF

6.48
L-index

#	Paper	IF	Citations
291	Antiferromagnetic FMnTe : Molten-Salt-Assisted Chemical Vapor Deposition Growth and Magneto-Transport Properties. <i>Chemistry of Materials</i> , 2022 , 34, 873-880	9.6	0
290	Highly Stretchable High-Performance Silicon Nanowire Field Effect Transistors Integrated on Elastomer Substrates.. <i>Advanced Science</i> , 2022 , e2105623	13.6	2
289	Retina-Inspired Self-Powered Artificial Optoelectronic Synapses with Selective Detection in Organic Asymmetric Heterojunctions.. <i>Advanced Science</i> , 2022 , e2103494	13.6	6
288	Emerging Logic Devices beyond CMOS.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1914-1924	6.4	0
287	A Photoelectric Spiking Neuron for Visual Depth Perception.. <i>Advanced Materials</i> , 2022 , e2201895	24	10
286	Challenges in Materials and Devices of Electronic Skin 2022 , 4, 577-599		6
285	Stable single-mode 20-channel uniform buried grating DFB QCL array emitting at $\sim 8.3\mu\text{m}$. <i>Optical and Quantum Electronics</i> , 2022 , 54, 1	2.4	1
284	Molecular-Layer-Defined Asymmetric Schottky Contacts in Organic Planar Diodes for Self-Powered Optoelectronic Synapses.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2338-2347	6.4	1
283	Non-invasive digital etching of van der Waals semiconductors.. <i>Nature Communications</i> , 2022 , 13, 1844	17.4	1
282	Ballpoint-pen like probes for multipoint dynamic pulse diagnosis system. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	
281	Uniform nucleation and epitaxy of bilayer molybdenum disulfide on sapphire.. <i>Nature</i> , 2022 , 605, 69-75	50.4	19
280	Observation of chiral and slow plasmons in twisted bilayer graphene.. <i>Nature</i> , 2022 , 605, 63-68	50.4	5
279	Wearable Near-Field Communication Sensors for Healthcare: Materials, Fabrication and Application. <i>Micromachines</i> , 2022 , 13, 784	3.3	0
278	Long-term cell culture and electrically monitoring of living cells based on a polyaniline hydrogel sensor. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 9514-9523	7.3	2
277	Electrolyte-gated neuromorphic transistors for brain-like dynamic computing. <i>Journal of Applied Physics</i> , 2021 , 130, 190904	2.5	8
276	Prospective on doping engineering of conductive polymers for enhanced interfacial properties. <i>Applied Physics Letters</i> , 2021 , 119, 150504	3.4	1
275	A compact model for transition metal dichalcogenide field effect transistors with effects of interface traps. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	2

274	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021 , 12, 1928	17.4	28
273	Photoresist as a choice of molecularly thin gate dielectrics in graphene-based devices. <i>APL Materials</i> , 2021 , 9, 031104	5.7	
272	Highly Sensitive Ammonia Gas Detection at Room Temperature by Integratable Silicon Nanowire Field-Effect Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14377-14384	9.5	13
271	Synergistic Modulation of Synaptic Plasticity in IGZO-Based Photoelectric Neuromorphic TFTs. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 1659-1663	2.9	9
270	Nonequilibrium phonon tuning and mapping in few-layer graphene with infrared nanoscopy. <i>Physical Review B</i> , 2021 , 103,	3.3	2
269	Recent Progress on Emerging Transistor-Based Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000210	6	14
268	Flexible Dual-Gate MoS ₂ Neuromorphic Transistors on Freestanding Proton-Conducting Chitosan Membranes. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 3119-3123	2.9	5
267	Insights into Growth-Oriented Interfacial Modulation within Semiconductor Multilayers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 27262-27269	9.5	2
266	Freestanding Dual-Gate Oxide-Based Neuromorphic Transistors for Flexible Artificial Nociceptors. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 415-420	2.9	7
265	Analysis and Mitigation of Coupling-Dependent Data Flipping in Wireless Power and Data Transfer System. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 1-12	3.9	1
264	Synaptic metaplasticity emulation in a freestanding oxide-based neuromorphic transistor with dual in-plane gates. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 185106	3	5
263	Controlling relaxation dynamics of excitonic states in monolayer transition metal dichalcogenides WS ₂ through interface engineering. <i>Applied Physics Letters</i> , 2021 , 118, 121104	3.4	3
262	Compensation mechanism of carriers within weakly coupled quantum wells. <i>Applied Physics Letters</i> , 2021 , 118, 122107	3.4	
261	Multiterminal Ionic Synaptic Transistor With Artificial Blink Reflex Function. <i>IEEE Electron Device Letters</i> , 2021 , 42, 351-354	4.4	8
260	Design, Shaping, and Assembly of Free-Standing Silicon Nanoprobes. <i>Nano Letters</i> , 2021 , 21, 2773-2779	11.5	6
259	Artificial Reflex Arc: An Environment-Adaptive Neuromorphic Camouflage Device. <i>IEEE Electron Device Letters</i> , 2021 , 42, 1224-1227	4.4	1
258	Nanomaterials and their applications on bio-inspired wearable electronics. <i>Nanotechnology</i> , 2021 , 32,	3.4	6
257	Spatiotemporal dynamics in soil iron affected by wetland conversion on the Sanjiang Plain. <i>Land Degradation and Development</i> , 2021 , 32, 4669	4.4	1

256	Epitaxial growth of wafer-scale molybdenum disulfide semiconductor single crystals on sapphire. <i>Nature Nanotechnology</i> , 2021 , 16, 1201-1207	28.7	75
255	Three-dimensional monolithic micro-LED display driven by atomically thin transistor matrix. <i>Nature Nanotechnology</i> , 2021 , 16, 1231-1236	28.7	20
254	High-Performance CVD MoS ₂ Transistors with Self-Aligned Top-Gate and Bi Contact 2021 ,		4
253	A Smarter Pavlovian Dog with Optically Modulated Associative Learning in an Organic Ferroelectric Neuromem.. <i>Research</i> , 2021 , 2021, 9820502	7.8	4
252	Inkjet printing for flexible and wearable electronics. <i>APL Materials</i> , 2020 , 8, 120705	5.7	30
251	An Optically Modulated Organic Schottky-Barrier Planar-Diode-Based Artificial Synapse. <i>Advanced Optical Materials</i> , 2020 , 8, 2000153	8.1	23
250	Few-Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000062	6.4	15
249	Observation of excitonic series in monolayer and few-layer black phosphorus. <i>Physical Review B</i> , 2020 , 101,	3.3	14
248	Molecular Layer-Defined Transition of Carrier Distribution and Correlation with Transport in Organic Crystalline Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 26267-26275	9.5	4
247	Cylindrical Line-Feeding Growth of Free-Standing Silicon Nanohelices as Elastic Springs and Resonators. <i>Nano Letters</i> , 2020 , 20, 5072-5080	11.5	11
246	The discovery of dynamic chiral anomaly in a Weyl semimetal NbAs. <i>Nature Communications</i> , 2020 , 11, 1259	17.4	10
245	Sharply Increased Current in Asymmetrically Aligned Polycrystalline Polymer Transistors With Sub-Domain-Size Channels. <i>IEEE Electron Device Letters</i> , 2020 , 41, 589-592	4.4	3
244	IGZO-based floating-gate synaptic transistors for neuromorphic computing. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 215106	3	24
243	Realization of regular resonance mode in GaN-based polygonal microdisks on Si. <i>Journal of Applied Physics</i> , 2020 , 127, 113102	2.5	0
242	High-Responsivity Graphene/4H-SiC Ultraviolet Photodetector Based on a Planar Junction Formed by the Dual Modulation of Electric and Light Fields. <i>Advanced Optical Materials</i> , 2020 , 8, 2000559	8.1	8
241	Role of Schottky Barrier and Access Resistance in Organic Field-Effect Transistors. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1466-1472	6.4	11
240	Understanding the role of interface in advanced semiconductor nanostructure and its interplay with wave function overlap. <i>Nano Research</i> , 2020 , 13, 1536-1543	10	4
239	On-Chip Measurement of Photoluminescence with High Sensitivity Monolithic Spectrometer. <i>Advanced Optical Materials</i> , 2020 , 8, 2000191	8.1	7

238	MXenes and Their Applications in Wearable Sensors. <i>Frontiers in Chemistry</i> , 2020 , 8, 297	5	56
237	Ultrafast microwave synthesis of rambutan-like CMK-3/carbon nanotubes nanocomposites for high-performance supercapacitor electrode materials. <i>Scientific Reports</i> , 2020 , 10, 6227	4.9	7
236	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. <i>Advanced Materials</i> , 2020 , 32, e1902039	24	53
235	Approaching isotropic transfer integrals in crystalline organic semiconductors. <i>Physical Review Materials</i> , 2020 , 4,	3.2	3
234	Low Voltage Operating 2D MoS Ferroelectric Memory Transistor with HfZrO Gate Structure. <i>Nanoscale Research Letters</i> , 2020 , 15, 157	5	17
233	Different ultrafast dynamics of neutral and charged excitons in monolayer WS ₂ 2020 ,		1
232	Corrections to Sharply Increased Current in Asymmetrically Aligned Polycrystalline Polymer Transistors With Sub-Domain-Size Channels[Apr 20 589-592]. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1265-1265	4.4	
231	Advanced Wearable Microfluidic Sensors for Healthcare Monitoring. <i>Small</i> , 2020 , 16, e1903822	11	53
230	Precise Extraction of Charge Carrier Mobility for Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 1904508	15.6	20
229	Solution-processed organic single-crystalline semiconductors with a fence-like shape via ultrasound concussion. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2589-2593	7.1	2
228	Robust Impact-Ionization Field-Effect Transistor Based on Nanoscale Vertical Graphene/Black Phosphorus/Indium Selenide Heterostructures. <i>ACS Nano</i> , 2020 , 14, 434-441	16.7	15
227	Fabrication and Electrical Properties of Silver Telluride Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 2628-2632	1.3	5
226	Hydroxyl-Assisted Phosphorene Stabilization with Robust Device Performances. <i>Nano Letters</i> , 2020 , 20, 81-87	11.5	9
225	Low-power-consumption organic field-effect transistors. <i>JPhys Materials</i> , 2020 , 3, 014009	4.2	9
224	Ultrafine Co:FeS ₂ /CoS ₂ Heterostructure Nanowires for Highly Efficient Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 514-520	6.1	14
223	Photoelectric Cardiac Pacing by Flexible and Degradable Amorphous Si Radial Junction Stimulators. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901342	10.1	6
222	Flexible Oxide-Based Schottky Neuromorphic TFTs With Configurable Spiking Dynamic Functions. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 5216-5220	2.9	6
221	Unprecedented Uniform 3D Growth Integration of 10-Layer Stacked Si Nanowires on Tightly Confined Sidewall Grooves. <i>Nano Letters</i> , 2020 , 20, 7489-7497	11.5	9

220	Room-temperature valleytronic transistor. <i>Nature Nanotechnology</i> , 2020 , 15, 743-749	28.7	33
219	Third harmonic generation in Dirac semimetal Cd ₃ As ₂ . <i>Applied Physics Letters</i> , 2020 , 117, 011102	3.4	11
218	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Graphene-Silicon Photodetector. <i>ACS Nano</i> , 2020 ,	16.7	30
217	Freestanding Multi-Gate Amorphous Oxide-Based TFTs on Graphene Oxide Enhanced Electrolyte Membranes. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1360-1363	4.4	4
216	Effect of access resistance on the experimentally measured temperature barrier mobility dependence in highly-crystalline DNNT-based transistors. <i>Materials Advances</i> , 2020 , 1, 1799-1804	3.3	2
215	Device Based on Polymer Schottky Junctions and Their Applications: A Review. <i>IEEE Access</i> , 2020 , 8, 189646-189660	3.5	60
214	Frequency-Enabled Decouplable Dual-Modal Flexible Pressure and Temperature Sensor. <i>IEEE Electron Device Letters</i> , 2020 , 41, 1568-1571	4.4	8
213	Patterning 2D Organic Crystalline Semiconductors via Thermally Induced Self-Assembly. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000438	6.4	6
212	Domino Effect of Thickness Fluctuation on Subband Structure and Electron Transport within Semiconductor Cascade Structures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41950-41959	9.5	2
211	Probing Coulomb Interactions on Charge Transport in Few-Layer Organic Crystalline Semiconductors by the Gated van der Pauw Method. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000136	6.4	3
210	Tailoring exciton dynamics of monolayer transition metal dichalcogenides by interfacial electron-phonon coupling. <i>Communications Physics</i> , 2019 , 2,	5.4	19
209	Observation of ballistic avalanche phenomena in nanoscale vertical InSe/BP heterostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 217-222	28.7	99
208	Low-Voltage Oxide-Based Synaptic Transistors for Spiking Humidity Detection. <i>IEEE Electron Device Letters</i> , 2019 , 40, 459-462	4.4	11
207	Highly stretchable graphene nanoribbon springs by programmable nanowire lithography. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	13
206	Thickness-Dependent Asymmetric Potential Landscape and Polarization Relaxation in Ferroelectric HfxZr1-xO ₂ Thin Films through Interfacial Bound Charges. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900554	6.4	8
205	pJ-Level Energy-Consuming, Low-Voltage Ferroelectric Organic Field-Effect Transistor Memories. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2335-2340	6.4	20
204	Heterointerface-Driven Band Alignment Engineering and its Impact on Macro-Performance in Semiconductor Multilayer Nanostructures. <i>Small</i> , 2019 , 15, e1900837	11	14
203	3D Sidewall Integration of Ultrahigh-Density Silicon Nanowires for Stacked Channel Electronics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800627	6.4	14

202	Dual-Functional Long-Term Plasticity Emulated in IGZO-Based Photoelectric Neuromorphic Transistors. <i>IEEE Electron Device Letters</i> , 2019 , 40, 818-821	4.4	22
201	Ultrahigh conductivity in Weyl semimetal NbAs nanobelts. <i>Nature Materials</i> , 2019 , 18, 482-488	27	40
200	Spatiotemporal Information Processing Emulated by Multiterminal Neuro-Transistor Networks. <i>Advanced Materials</i> , 2019 , 31, e1900903	24	96
199	Ultrafast free carrier dynamics in black phosphorus/holybdenum disulfide (BP/MoS ₂) heterostructures. <i>Nanoscale Horizons</i> , 2019 , 4, 1099-1105	10.8	26
198	Multivariate Control of Effective Cobalt Doping in Tungsten Disulfide for Highly Efficient Hydrogen Evolution Reaction. <i>Scientific Reports</i> , 2019 , 9, 1357	4.9	11
197	Monolithic Integration of Silicon Nanowire Networks as a Soft Wafer for Highly Stretchable and Transparent Electronics. <i>Nano Letters</i> , 2019 , 19, 6235-6243	11.5	23
196	Skin-Inspired Electronics and Its Applications in Advanced Intelligent Systems. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900063	6	12
195	The fabrication of Co:ZnS/CoS ₂ heterostructure nanowires with a superior hydrogen evolution performance. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2771-2778	5.8	1
194	Near-Field Communication Sensors. <i>Sensors</i> , 2019 , 19,	3.8	29
193	Properties of conductive polymer hydrogels and their application in sensors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1606-1621	2.6	32
192	All-carbon hybrids for high-performance electronics, optoelectronics and energy storage. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	4
191	Control of electron tunnelling by fine band engineering of semiconductor potential barriers. <i>Nanoscale</i> , 2019 , 11, 21376-21385	7.7	3
190	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019 , 10, 5589	17.4	36
189	Uniform and ultrathin high- κ gate dielectrics for two-dimensional electronic devices. <i>Nature Electronics</i> , 2019 , 2, 563-571	28.4	93
188	IndiumGalliumZincOxide Schottky Synaptic Transistors for Silent Synapse Conversion Emulation. <i>IEEE Electron Device Letters</i> , 2019 , 40, 139-142	4.4	15
187	A MoS ₂ /PTCDA Hybrid Heterojunction Synapse with Efficient Photoelectric Dual Modulation and Versatility. <i>Advanced Materials</i> , 2019 , 31, e1806227	24	203
186	GeO ₂ Encapsulated Ge Nanostructure with Enhanced Lithium-Storage Properties. <i>Advanced Functional Materials</i> , 2019 , 29, 1807946	15.6	32
185	Solution-Processed 2D Molecular Crystals: Fabrication Techniques, Transistor Applications, and Physics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800182	6.8	36

184	High-Performance Black Phosphorus Field-Effect Transistors with Long-Term Air Stability. <i>Nano Letters</i> , 2019 , 19, 331-337	11.5	46
183	Spin-Coated Crystalline Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 1318-1323	6.4	31
182	Flexible Pressure Sensor With High Sensitivity and Low Hysteresis Based on a Hierarchically Microstructured Electrode. <i>IEEE Electron Device Letters</i> , 2018 , 39, 288-291	4.4	53
181	Flexible IZO Homo Junction TFTs With Graphene Oxide/Chitosan Composite Gate Dielectrics on Paper Substrates. <i>IEEE Electron Device Letters</i> , 2018 , 39, 363-366	4.4	24
180	All Inkjet-Printed Amperometric Multiplexed Biosensors Based on Nanostructured Conductive Hydrogel Electrodes. <i>Nano Letters</i> , 2018 , 18, 3322-3327	11.5	133
179	Unveiling the piezoelectric nature of polar β -phase P(VDF-TrFE) at quasi-two-dimensional limit. <i>Scientific Reports</i> , 2018 , 8, 532	4.9	11
178	Light Stimulated IGZO-Based Electric-Double-Layer Transistors For Photoelectric Neuromorphic Devices. <i>IEEE Electron Device Letters</i> , 2018 , 39, 897-900	4.4	61
177	Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe ₂ semimetal films. <i>Applied Physics Letters</i> , 2018 , 112, 171112	3.4	25
176	Effects of elevated ozone on the contribution of nitrogen rhizodeposition by spring wheat to different soil N pools. <i>Plant and Soil</i> , 2018 , 425, 321-333	4.2	1
175	Fast-Response and Low-Hysteresis Flexible Pressure Sensor Based on Silicon Nanowires. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1069-1072	4.4	26
174	Observation of bimolecular recombination in high mobility semiconductor Bi ₂ O ₂ Se using ultrafast spectroscopy. <i>Applied Physics Letters</i> , 2018 , 113, 061104	3.4	7
173	Photoresponsivity of an all-semimetal heterostructure based on graphene and WTe. <i>Scientific Reports</i> , 2018 , 8, 12840	4.9	10
172	Interfacial Flat-Lying Molecular Monolayers for Performance Enhancement in Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22513-22519	9.5	14
171	Growth of Black Phosphorus Nanobelts and Microbelts. <i>Small</i> , 2018 , 14, 1702501	11	11
170	Toward High-mobility and Low-power 2D MoS ₂ Field-effect Transistors 2018 ,		6
169	Millimeter-Sized Two-Dimensional Molecular Crystalline Semiconductors with Precisely Defined Molecular Layers via Interfacial-Interaction-Modulated Self-Assembly. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 6755-6760	6.4	24
168	Nanodroplet Hydrodynamic Transformation of Uniform Amorphous Bilayer into Highly Modulated Ge/Si Island-Chains. <i>Nano Letters</i> , 2018 , 18, 6931-6940	11.5	13
167	Stable Voltage Cutoff Cycle Cathode with Tunable and Ordered Porous Structure for Li-O Batteries. <i>Small</i> , 2018 , 14, e1803607	11	14

166	Biological Band-Pass Filtering Emulated by Oxide-Based Neuromorphic Transistors. <i>IEEE Electron Device Letters</i> , 2018 , 39, 1764-1767	4.4	5
165	Temperature dependence of piezo- and ferroelectricity in ultrathin P(VDF-TrFE) films.. <i>RSC Advances</i> , 2018 , 8, 29164-29171	3.7	6
164	Efficient and Layer-Dependent Exciton Pumping across Atomically Thin Organic-Inorganic Type-I Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1803986	24	46
163	Highly Sensitive, Printable Nanostructured Conductive Polymer Wireless Sensor for Food Spoilage Detection. <i>Nano Letters</i> , 2018 , 18, 4570-4575	11.5	131
162	A robust and tuneable mid-infrared optical switch enabled by bulk Dirac fermions. <i>Nature Communications</i> , 2017 , 8, 14111	17.4	126
161	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. <i>Nano Research</i> , 2017 , 10, 1336-1344	10	23
160	Multifunctional Logic Demonstrated in a Flexible Multigate Oxide-Based Electric-Double-Layer Transistor on Paper Substrate. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600509	6.4	30
159	Speed up Ferroelectric Organic Transistor Memories by Using Two-Dimensional Molecular Crystalline Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 18127-18133	9.5	42
158	Conducting Polymer Hydrogels: Synthesis, Properties, and Applications for Biosensors 2017 , 175-208		
157	Current transport mechanisms in Pt/Au Schottky contacts to AlInGaN using AlGaIn/InGaIn short-period superlattices. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	1
156	High performance transparent in-plane silicon nanowire Fin-TFTs via a robust nano-droplet-scanning crystallization dynamics. <i>Nanoscale</i> , 2017 , 9, 10350-10357	7.7	24
155	Ultrafast Carrier Dynamics and Efficient Triplet Generation in Black Phosphorus Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12972-12978	3.8	21
154	Cadmium-doped flexible perovskite solar cells with a low-cost and low-temperature-processed CdS electron transport layer. <i>RSC Advances</i> , 2017 , 7, 19457-19463	3.7	41
153	Rapid, stable and self-powered perovskite detectors via a fast chemical vapor deposition process. <i>RSC Advances</i> , 2017 , 7, 18224-18230	3.7	50
152	Ultrafast Solar-Blind Ultraviolet Detection by Inorganic Perovskite CsPbX Quantum Dots Radial Junction Architecture. <i>Advanced Materials</i> , 2017 , 29, 1700400	24	98
151	Subcellular-Scale Drug Transport via Ultrasound-Degradable Mesoporous Nanosilicon to Bypass Cancer Drug Resistance. <i>Small</i> , 2017 , 13, 1604228	11	16
150	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS ₂ Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017 , 27, 1604093	15.6	178
149	Printed Neuromorphic Devices Based on Printed Carbon Nanotube Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2017 , 27, 1604447	15.6	112

148	Biomimetic Radial Tandem Junction Photodetector with Natural RGB Color Discrimination Capability. <i>Advanced Optical Materials</i> , 2017 , 5, 1700390	8.1	7
147	Broadband hot-carrier dynamics in three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Applied Physics Letters</i> , 2017 , 111, 091101	3.4	32
146	Low-voltage, High-performance Organic Field-Effect Transistors Based on 2D Crystalline Molecular Semiconductors. <i>Scientific Reports</i> , 2017 , 7, 7830	4.9	29
145	Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. <i>Science Advances</i> , 2017 , 3, e1701186	14.3	115
144	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. <i>Nano Letters</i> , 2017 , 17, 6391-6396	11.5	61
143	Atomic Mechanism of Interfacial-Controlled Quantum Efficiency and Charge Migration in InAs/GaSb Superlattice. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 26642-26647	9.5	11
142	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. <i>Nano Letters</i> , 2017 , 17, 7638-7646	11.5	30
141	Directly writing 2D organic semiconducting crystals for high-performance field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 11246-11251	7.1	21
140	2017 ,		17
139	An Optimized FinFET Channel With Improved Line-Edge Roughness and Linewidth Roughness Using the Hydrogen Thermal Treatment Technology. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 1081-1087	2.6	3
138	Boosting Hot-Electron Extraction Through Deep Groove Perfect Absorber for Si-Based Photodetector. <i>IEEE Photonics Technology Letters</i> , 2017 , 29, 1884-1887	2.2	4
137	Facile Sonication Synthesis of WS ₂ Quantum Dots for Photoelectrochemical Performance. <i>Catalysts</i> , 2017 , 7, 18	4	17
136	Conducting Polymer Hydrogels and Their Applications as Electrode Materials 2017 , 291-340		
135	High-performance non-volatile field-effect transistor memories using an amorphous oxide semiconductor and ferroelectric polymer. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 7917-7923	7.1	14
134	Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2016 , 116, 016602	7.4	180
133	Long-Term Synaptic Plasticity Emulated in Modified Graphene Oxide Electrolyte Gated IZO-Based Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30281-30286	9.5	68
132	Heteroepitaxial Writing of Silicon-on-Sapphire Nanowires. <i>Nano Letters</i> , 2016 , 16, 7317-7324	11.5	15
131	Evaluation of in vitro and in vivo biocompatibility of a myo-inositol hexakisphosphate gelled polyaniline hydrogel in a rat model. <i>Scientific Reports</i> , 2016 , 6, 23931	4.9	34

130	Engineering island-chain silicon nanowires via a droplet mediated Plateau-Rayleigh transformation. <i>Nature Communications</i> , 2016 , 7, 12836	17.4	39
129	Artificial Synaptic Devices Based on Natural Chicken Albumen Coupled Electric-Double-Layer Transistors. <i>Scientific Reports</i> , 2016 , 6, 23578	4.9	72
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