

List of Publications by Citations

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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	An ultra-sensitive resistive pressure sensor based on hollow-sphere microstructure induced elasticity in conducting polymer film. <i>Nature Communications</i> , 2014 , 5, 3002	17.4	977
290	Artificial synapse network on inorganic proton conductor for neuromorphic systems. <i>Nature Communications</i> , 2014 , 5, 3158	17.4	495
289	Towards intrinsic charge transport in monolayer molybdenum disulfide by defect and interface engineering. <i>Nature Communications</i> , 2014 , 5, 5290	17.4	448
288	Electrical characterization of back-gated bi-layer MoS ₂ field-effect transistors and the effect of ambient on their performances. <i>Applied Physics Letters</i> , 2012 , 100, 123104	3.4	420
287	Integrated digital inverters based on two-dimensional anisotropic ReS ₂ field-effect transistors. <i>Nature Communications</i> , 2015 , 6, 6991	17.4	417
286	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014 , 5, 5162	17.4	270
285	Freestanding Artificial Synapses Based on Laterally Proton-Coupled Transistors on Chitosan Membranes. <i>Advanced Materials</i> , 2015 , 27, 5599-604	24	263
284	High Responsivity Phototransistors Based on Few-Layer ReS ₂ for Weak Signal Detection. <i>Advanced Functional Materials</i> , 2016 , 26, 1938-1944	15.6	217
283	A MoS ₂ /PTCDA Hybrid Heterojunction Synapse with Efficient Photoelectric Dual Modulation and Versatility. <i>Advanced Materials</i> , 2019 , 31, e1806227	24	203
282	Planar carbon nanotube-graphene hybrid films for high-performance broadband photodetectors. <i>Nature Communications</i> , 2015 , 6, 8589	17.4	197
281	Proton-Conducting Graphene Oxide-Coupled Neuron Transistors for Brain-Inspired Cognitive Systems. <i>Advanced Materials</i> , 2016 , 28, 3557-63	24	181
280	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
279	Analyzing the Carrier Mobility in Transition-Metal Dichalcogenide MoS ₂ Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2017 , 27, 1604093	15.6	178
278	Dopant-Enabled Supramolecular Approach for Controlled Synthesis of Nanostructured Conductive Polymer Hydrogels. <i>Nano Letters</i> , 2015 , 15, 7736-41	11.5	178
277	High-Performance Monolayer WS ₂ Field-Effect Transistors on High-Dielectrics. <i>Advanced Materials</i> , 2015 , 27, 5230-4	24	177
276	Realization of Room-Temperature Phonon-Limited Carrier Transport in Monolayer MoS ₂ by Dielectric and Carrier Screening. <i>Advanced Materials</i> , 2016 , 28, 547-52	24	161
275	Activated carbon with ultrahigh specific surface area synthesized from natural plant material for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15889-15896	13	161

274	Understanding the Size-Dependent Sodium Storage Properties of Na ₂ C ₆ O ₆ -Based Organic Electrodes for Sodium-Ion Batteries. <i>Nano Letters</i> , 2016 , 16, 3329-34	11.5	147
273	All Inkjet-Printed Amperometric Multiplexed Biosensors Based on Nanostructured Conductive Hydrogel Electrodes. <i>Nano Letters</i> , 2018 , 18, 3322-3327	11.5	133
272	Highly Sensitive, Printable Nanostructured Conductive Polymer Wireless Sensor for Food Spoilage Detection. <i>Nano Letters</i> , 2018 , 18, 4570-4575	11.5	131
271	A robust and tuneable mid-infrared optical switch enabled by bulk Dirac fermions. <i>Nature Communications</i> , 2017 , 8, 14111	17.4	126
270	Flexible cathodes and multifunctional interlayers based on carbonized bacterial cellulose for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10910-10918	13	124
269	Flexible Metal Oxide/Graphene Oxide Hybrid Neuromorphic Transistors on Flexible Conducting Graphene Substrates. <i>Advanced Materials</i> , 2016 , 28, 5878-85	24	123
268	Mesoporous NiO with a single-crystalline structure utilized as a noble metal-free catalyst for non-aqueous Li-O ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16177-16182	13	116
267	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
266	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. <i>Advanced Functional Materials</i> , 2016 , 26, 3191-3198	15.6	113
265	Printed Neuromorphic Devices Based on Printed Carbon Nanotube Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2017 , 27, 1604447	15.6	112
264	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016 , 28, 5200-5	24	109
263	Observation of ballistic avalanche phenomena in nanoscale vertical InSe/BP heterostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 217-222	28.7	99
262	Ultrafast Solar-Blind Ultraviolet Detection by Inorganic Perovskite CsPbX Quantum Dots Radial Junction Architecture. <i>Advanced Materials</i> , 2017 , 29, 1700400	24	98
261	Spatiotemporal Information Processing Emulated by Multiterminal Neuro-Transistor Networks. <i>Advanced Materials</i> , 2019 , 31, e1900903	24	96
260	Uniform and ultrathin high- κ gate dielectrics for two-dimensional electronic devices. <i>Nature Electronics</i> , 2019 , 2, 563-571	28.4	93
259	Highly Connected Silicon-Copper Alloy Mixture Nanotubes as High-Rate and Durable Anode Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 524-531	15.6	92
258	Supercritical carbon dioxide-assisted rapid synthesis of few-layer black phosphorus for hydrogen peroxide sensing. <i>Biosensors and Bioelectronics</i> , 2016 , 80, 34-38	11.8	82
257	Energy-Efficient Artificial Synapses Based on Flexible IGZO Electric-Double-Layer Transistors. <i>IEEE Electron Device Letters</i> , 2015 , 36, 198-200	4.4	82

256	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. <i>Nano Letters</i> , 2016 , 16, 3754-9	11.5	81
255	Epitaxial growth of wafer-scale molybdenum disulfide semiconductor single crystals on sapphire. <i>Nature Nanotechnology</i> , 2021 , 16, 1201-1207	28.7	75
254	Ruthenium functionalized graphene aerogels with hierarchical and three-dimensional porosity as a free-standing cathode for rechargeable lithium-oxygen batteries. <i>NPG Asia Materials</i> , 2016 , 8, e239-e239 ^{10.3}	10.3	73
253	Artificial Synaptic Devices Based on Natural Chicken Albumen Coupled Electric-Double-Layer Transistors. <i>Scientific Reports</i> , 2016 , 6, 23578	4.9	72
252	A low-temperature method for improving the performance of sputter-deposited ZnO thin-film transistors with supercritical fluid. <i>Applied Physics Letters</i> , 2009 , 94, 162111	3.4	69
251	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
250	Mesoporous iron oxide directly anchored on a graphene matrix for lithium-ion battery anodes with enhanced strain accommodation. <i>RSC Advances</i> , 2013 , 3, 699-703	3.7	68
249	Synaptic Behaviors Mimicked in Flexible Oxide-Based Transistors on Plastic Substrates. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1433-1435	4.4	64
248	Gas sensors based on semiconducting nanowire field-effect transistors. <i>Sensors</i> , 2014 , 14, 17406-29	3.8	64
247	ZnO-nanorods/graphene heterostructure: a direct electron transfer glucose biosensor. <i>Scientific Reports</i> , 2016 , 6, 32327	4.9	63
246	Short-Term Synaptic Plasticity Regulation in Solution-Gated Indium-Gallium-Zinc-Oxide Electric-Double-Layer Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9762-8	9.5	63
245	Efficiency droop in InGaN/GaN multiple-quantum-well blue light-emitting diodes grown on free-standing GaN substrate. <i>Applied Physics Letters</i> , 2011 , 99, 091104	3.4	62
244	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
243	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
242	Flexible Sensory Platform Based on Oxide-based Neuromorphic Transistors. <i>Scientific Reports</i> , 2015 , 5, 18082	4.9	60
241	Memory and learning behaviors mimicked in nanogranular SiO ₂ -based proton conductor gated oxide-based synaptic transistors. <i>Nanoscale</i> , 2013 , 5, 10194-9	7.7	59
240	Boost up carrier mobility for ferroelectric organic transistor memory via buffering interfacial polarization fluctuation. <i>Scientific Reports</i> , 2014 , 4, 7227	4.9	57
239	MXenes and Their Applications in Wearable Sensors. <i>Frontiers in Chemistry</i> , 2020 , 8, 297	5	56

238	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
237	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. <i>Advanced Materials</i> , 2020 , 32, e1902039	24	53
236	Advanced Wearable Microfluidic Sensors for Healthcare Monitoring. <i>Small</i> , 2020 , 16, e1903822	11	53
235	Mo-O bond doping and related-defect assisted enhancement of photoluminescence in monolayer MoS ₂ . <i>AIP Advances</i> , 2014 , 4, 123004	1.5	52
234	Graphene anchored with mesoporous NiO nanoplates as anode material for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1889-1892	2.6	52
233	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
232	Short-Term Plasticity and Synaptic Filtering Emulated in Electrolyte-Gated IGZO Transistors. <i>IEEE Electron Device Letters</i> , 2016 , 37, 299-302	4.4	49
231	Inorganic proton conducting electrolyte coupled oxide-based dendritic transistors for synaptic electronics. <i>Nanoscale</i> , 2014 , 6, 4491-7	7.7	48
230	High-Performance Black Phosphorus Field-Effect Transistors with Long-Term Air Stability. <i>Nano Letters</i> , 2019 , 19, 331-337	11.5	46
229	Efficient and Layer-Dependent Exciton Pumping across Atomically Thin Organic-Inorganic Type-I Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1803986	24	46
228	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
227	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
226	Raman and photoluminescence of ZnO films deposited on Si (111) using low-pressure metalorganic chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003 , 21, 979-982	2.9	41
225	High Color Rendering Index Hybrid III-Nitride/Nanocrystals White Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2016 , 26, 36-43	15.6	41
224	Ultrahigh conductivity in Weyl semimetal NbAs nanobelts. <i>Nature Materials</i> , 2019 , 18, 482-488	27	40
223	Engineering island-chain silicon nanowires via a droplet mediated Plateau-Rayleigh transformation. <i>Nature Communications</i> , 2016 , 7, 12836	17.4	39
222	A highly selective ratiometric fluorescent chemosensor for Ag ⁺ based on a rhodanineacetic acidpyrene derivative. <i>New Journal of Chemistry</i> , 2011 , 35, 849	3.6	39
221	Understanding light harvesting in radial junction amorphous silicon thin film solar cells. <i>Scientific Reports</i> , 2014 , 4, 4357	4.9	38

220	Proton conducting sodium alginate electrolyte laterally coupled low-voltage oxide-based transistors. <i>Applied Physics Letters</i> , 2014 , 104, 133504	3-4	37
219	A TiAl ₂ O ₅ nanocrystal charge trap memory device. <i>Applied Physics Letters</i> , 2010 , 97, 143504	3-4	36
218	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019 , 10, 5589	17-4	36
217	Solution-Processed 2D Molecular Crystals: Fabrication Techniques, Transistor Applications, and Physics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800182	6.8	36
216	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
215	Laterally Coupled Dual-Gate Oxide-Based Transistors on Sodium Alginate Electrolytes. <i>IEEE Electron Device Letters</i> , 2014 , 35, 1257-1259	4-4	34
214	Solution-Processed Chitosan-Gated IZO-Based Transistors for Mimicking Synaptic Plasticity. <i>IEEE Electron Device Letters</i> , 2014 , 35, 280-282	4-4	34
213	Patterning technology for solution-processed organic crystal field-effect transistors. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 024203	7-1	33
212	Room-temperature valleytronic transistor. <i>Nature Nanotechnology</i> , 2020 , 15, 743-749	28-7	33
211	Organic/inorganic hybrid synaptic transistors gated by proton conducting methylcellulose films. <i>Applied Physics Letters</i> , 2016 , 108, 043508	3-4	33
210	The positive piezoconductive effect in graphene. <i>Nature Communications</i> , 2015 , 6, 8119	17-4	32
209	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
208	Broadband hot-carrier dynamics in three-dimensional Dirac semimetal Cd ₃ As ₂ . <i>Applied Physics Letters</i> , 2017 , 111, 091101	3-4	32
207	Ultrafast nonlinear photoresponse of single-wall carbon nanotubes: a broadband degenerate investigation. <i>Nanoscale</i> , 2016 , 8, 9304-9	7-7	32
206	GeO ₂ Encapsulated Ge Nanostructure with Enhanced Lithium-Storage Properties. <i>Advanced Functional Materials</i> , 2019 , 29, 1807946	15-6	32
205	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
204	In situ purification to eliminate the influence of impurities in solution-processed organic crystals for transistor arrays. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 1352-1358	7-1	31
203	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

202	Direct electrochemical analysis of glucose oxidase on a graphene aerogel/gold nanoparticle hybrid for glucose biosensing. <i>Journal of Solid State Electrochemistry</i> , 2015 , 19, 307-314	2.6	30
201	Inkjet printing for flexible and wearable electronics. <i>APL Materials</i> , 2020 , 8, 120705	5.7	30
200	Short-Term Memory to Long-Term Memory Transition Mimicked in IZO Homo Junction Synaptic Transistors. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1581-1583	4.4	30
199	Deterministic Line-Shape Programming of Silicon Nanowires for Extremely Stretchable Springs and Electronics. <i>Nano Letters</i> , 2017 , 17, 7638-7646	11.5	30
198	Monolithic Full-Stokes Near-Infrared Polarimetry with Chiral Plasmonic Metasurface Integrated Graphene-Silicon Photodetector. <i>ACS Nano</i> , 2020 ,	16.7	30
197	Near-Field Communication Sensors. <i>Sensors</i> , 2019 , 19,	3.8	29
196	Low-voltage, High-performance Organic Field-Effect Transistors Based on 2D Crystalline Molecular Semiconductors. <i>Scientific Reports</i> , 2017 , 7, 7830	4.9	29
195	Sub-thermionic, ultra-high-gain organic transistors and circuits. <i>Nature Communications</i> , 2021 , 12, 1928	17.4	28
194	In-Plane Self-Turning and Twin Dynamics Renders Large Stretchability to Mono-Like Zigzag Silicon Nanowire Springs. <i>Advanced Functional Materials</i> , 2016 , 26, 5352-5359	15.6	27
193	Highly cross-linked Cu/a-Si core-shell nanowires for ultra-long cycle life and high rate lithium batteries. <i>Nanoscale</i> , 2016 , 8, 2613-9	7.7	27
192	Ultrafast free carrier dynamics in black phosphorus-molybdenum disulfide (BP/MoS ₂) heterostructures. <i>Nanoscale Horizons</i> , 2019 , 4, 1099-1105	10.8	26
191	Proton Conducting Graphene Oxide/Chitosan Composite Electrolytes as Gate Dielectrics for New-Concept Devices. <i>Scientific Reports</i> , 2016 , 6, 34065	4.9	26
190	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
189	Synthesis and electrochemical properties of graphene-SnS ₂ nanocomposites for lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 1999-2004	2.6	26
188	Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe ₂ semimetal films. <i>Applied Physics Letters</i> , 2018 , 112, 171112	3.4	25
187	Multi-gate synergic modulation in laterally coupled synaptic transistors. <i>Applied Physics Letters</i> , 2015 , 107, 143502	3.4	25
186	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
185	IGZO-based floating-gate synaptic transistors for neuromorphic computing. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 215106	3	24

184	Flexible IZO Homojunction TFTs With Graphene Oxide/Chitosan Composite Gate Dielectrics on Paper Substrates. <i>IEEE Electron Device Letters</i> , 2018 , 39, 363-366	4.4	24
183	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
182	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
181	An Optically Modulated Organic Schottky-Barrier Planar-Diode-Based Artificial Synapse. <i>Advanced Optical Materials</i> , 2020 , 8, 2000153	8.1	23
180	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
179	Low-Cost pH Sensors Based on Low-Voltage Oxide-Based Electric-Double-Layer Thin Film Transistors. <i>IEEE Electron Device Letters</i> , 2014 , 35, 482-484	4.4	23
178	Influence of thermally diffused aluminum atoms from sapphire substrate on the properties of ZnO epilayers grown by metal-organic chemical vapor deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 03A106	2.9	23
177	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
176	Classical Conditioning Mimicked in Junctionless IZO Electric-Double-Layer Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2014 , 35, 414-416	4.4	22
175	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
174	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
173	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
172	Forms and profile distribution of soil Fe in the Sanjiang Plain of Northeast China as affected by land uses. <i>Journal of Soils and Sediments</i> , 2010 , 10, 787-795	3.4	20
171	Precise Extraction of Charge Carrier Mobility for Organic Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 1904508	15.6	20
170	Three-dimensional monolithic micro-LED display driven by atomically thin transistor matrix. <i>Nature Nanotechnology</i> , 2021 , 16, 1231-1236	28.7	20
169	Tailoring exciton dynamics of monolayer transition metal dichalcogenides by interfacial electron-phonon coupling. <i>Communications Physics</i> , 2019 , 2,	5.4	19
168	Uniform nucleation and epitaxy of bilayer molybdenum disulfide on sapphire.. <i>Nature</i> , 2022 , 605, 69-75	50.4	19
167	Flexible field-effect transistor arrays with patterned solution-processed organic crystals. <i>AIP Advances</i> , 2013 , 3, 052123	1.5	18

166	Ferromagnetism and its stability in n-type Gd-doped GaN: First-principles calculation. <i>Applied Physics Letters</i> , 2012 , 100, 232408	3.4	18
165	Synthesis of Zinc Aluminate Spinel Film through the Solid-Phase Reaction between Zinc Oxide Film and γ -Alumina Substrate. <i>Journal of the American Ceramic Society</i> , 2003 , 86, 2059-2062	3.8	18
164	2017 ,		17
163	Facile Sonication Synthesis of WS ₂ Quantum Dots for Photoelectrochemical Performance. <i>Catalysts</i> , 2017 , 7, 18	4	17
162	Operating principles of in-plane silicon nanowires at simple step-edges. <i>Nanoscale</i> , 2015 , 7, 5197-202	7.7	17
161	Low Voltage Operating 2D MoS ₂ Ferroelectric Memory Transistor with HfZrO ₂ Gate Structure. <i>Nanoscale Research Letters</i> , 2020 , 15, 157	5	17
160	Conducting Polymers and Their Applications in Diabetes Management. <i>Sensors</i> , 2016 , 16,	3.8	17
159	Subcellular-Scale Drug Transport via Ultrasound-Degradable Mesoporous Nanosilicon to Bypass Cancer Drug Resistance. <i>Small</i> , 2017 , 13, 1604228	11	16
158	Few-Layer Organic Crystalline van der Waals Heterojunctions for Ultrafast UV Phototransistors. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000062	6.4	15
157	Heteroepitaxial Writing of Silicon-on-Sapphire Nanowires. <i>Nano Letters</i> , 2016 , 16, 7317-7324	11.5	15
156	A molecular understanding of the gas-phase reduction and doping of graphene oxide. <i>Nano Research</i> , 2012 , 5, 361-368	10	15
155	Electrical switching behavior from ultrathin potential barrier of self-assembly molecules tuned by interfacial charge trapping. <i>Applied Physics Letters</i> , 2010 , 96, 133303	3.4	15
154	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
153	Indium Gallium Zinc Oxide Schottky Synaptic Transistors for Silent Synapse Conversion Emulation. <i>IEEE Electron Device Letters</i> , 2019 , 40, 139-142	4.4	15
152	Heterointerface-Driven Band Alignment Engineering and its Impact on Macro-Performance in Semiconductor Multilayer Nanostructures. <i>Small</i> , 2019 , 15, e1900837	11	14
151	3D Sidewall Integration of Ultrahigh-Density Silicon Nanowires for Stacked Channel Electronics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800627	6.4	14
150	Observation of excitonic series in monolayer and few-layer black phosphorus. <i>Physical Review B</i> , 2020 , 101,	3.3	14
149	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

148	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
147	Study on strain and piezoelectric polarization of AlN thin films grown on Si. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005 , 23, 628-630	2.9	14
146	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
145	Recent Progress on Emerging Transistor-Based Neuromorphic Devices. <i>Advanced Intelligent Systems</i> , 2021 , 3, 2000210	6	14
144	Stable Voltage Cutoff Cycle Cathode with Tunable and Ordered Porous Structure for Li-O Batteries. <i>Small</i> , 2018 , 14, e1803607	11	14
143	Highly stretchable graphene nanoribbon springs by programmable nanowire lithography. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	13
142	Simulation of Laterally Coupled InGaZnO ₄ -Based Electric-Double-Layer Transistors for Synaptic Electronics. <i>IEEE Electron Device Letters</i> , 2015 , 36, 204-206	4.4	13
141	Enhanced retention characteristic of NiSi ₂ /SiN _x compound nanocrystal memory. <i>Applied Physics Letters</i> , 2010 , 96, 262107	3.4	13
140	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
139	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
138	Skin-Inspired Electronics and Its Applications in Advanced Intelligent Systems. <i>Advanced Intelligent Systems</i> , 2019 , 1, 1900063	6	12
137	Unveiling the structural origin of the high carrier mobility of a molecular monolayer on boron nitride. <i>Physical Review B</i> , 2014 , 90,	3.3	12
136	Influence of multiple magnetic phases on the extrinsic damping of FeCoSiO ₂ soft magnetic films. <i>Journal of Applied Physics</i> , 2010 , 107, 033911	2.5	12
135	Indium-Zinc-Oxide Neuron Thin Film Transistors Laterally Coupled by Sodium Alginate Electrolytes. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 3958-3963	2.9	12
134	Low-Voltage Oxide-Based Synaptic Transistors for Spiking Humidity Detection. <i>IEEE Electron Device Letters</i> , 2019 , 40, 459-462	4.4	11
133	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
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