

Ali Javey

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.

308
papers

45,136
citations

104
h-index

209
g-index

361
ext. papers

51,419
ext. citations

13.3
avg, IF

7.54
L-index

#	Paper	IF	Citations
308	Temperature-adaptive radiative coating for all-season household thermal regulation.. <i>Science</i> , 2021 , 374, 1504-1509	33.3	43
307	Long-Wave Infrared Photodetectors Based on 2D Platinum Diselenide atop Optical Cavity Substrates. <i>ACS Nano</i> , 2021 , 15, 6573-6581	16.7	9
306	Light-Matter Interaction Enhancement in Anisotropic 2D Black Phosphorus via Polarization-Tailoring Nano-Optics. <i>ACS Photonics</i> , 2021 , 8, 1120-1128	6.3	9
305	A wearable patch for continuous analysis of thermoregulatory sweat at rest. <i>Nature Communications</i> , 2021 , 12, 1823	17.4	57
304	Inhibited nonradiative decay at all exciton densities in monolayer semiconductors. <i>Science</i> , 2021 , 373, 448-452	33.3	12
303	Performance Limits of an Alternating Current Electroluminescent Device. <i>Advanced Materials</i> , 2021 , 33, e2005635	24	1
302	A Wearable Nutrition Tracker. <i>Advanced Materials</i> , 2021 , 33, e2006444	24	31
301	Universal Inverse Scaling of Exciton-Exciton Annihilation Coefficient with Exciton Lifetime. <i>Nano Letters</i> , 2021 , 21, 424-429	11.5	7
300	Tellurium Single-Crystal Arrays by Low-Temperature Evaporation and Crystallization. <i>Advanced Materials</i> , 2021 , 33, e2100860	24	5
299	Actively variable-spectrum optoelectronics with black phosphorus. <i>Nature</i> , 2021 , 596, 232-237	50.4	28
298	Copper Tetracyanoquinodimethane (CuTCNQ): A Metal-Organic Semiconductor for Room-Temperature Visible to Long-Wave Infrared Photodetection. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38544-38552	9.5	3
297	A Resonantly Driven, Electroluminescent Metal Oxide Semiconductor Capacitor with High Power Efficiency. <i>ACS Nano</i> , 2021 , 15, 15210-15217	16.7	1
296	Wearable Biosensors for Body Computing (Adv. Funct. Mater. 39/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170290	15.6	2
295	Wearable Biosensors for Body Computing. <i>Advanced Functional Materials</i> , 2020 , 31, 2008087	15.6	22
294	Thermal stability for Te-based devices. <i>Applied Physics Letters</i> , 2020 , 117, 192104	3.4	3
293	Nicotine Monitoring with a Wearable Sweat Band. <i>ACS Sensors</i> , 2020 , 5, 1831-1837	9.2	27
292	A biomimetic eye with a hemispherical perovskite nanowire array retina. <i>Nature</i> , 2020 , 581, 278-282	50.4	172

291	Extreme In-Plane Thermal Conductivity Anisotropy in Titanium Trisulfide Caused by Heat-Carrying Optical Phonons. <i>Nano Letters</i> , 2020 , 20, 5221-5227	11.5	8
290	Fully R2R-Printed Carbon-Nanotube-Based Limitless Length of Flexible Active-Matrix for Electrophoretic Display Application. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901431	6.4	29
289	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. <i>Scientific Reports</i> , 2020 , 10, 3583	4.9	10
288	Mid- to long-wave infrared computational spectroscopy with a graphene metasurface modulator. <i>Scientific Reports</i> , 2020 , 10, 5377	4.9	13
287	Polymeric Electron-Selective Contact for Crystalline Silicon Solar Cells with an Efficiency Exceeding 19%. <i>ACS Energy Letters</i> , 2020 , 5, 897-902	20.1	19
286	Anomalously Suppressed Thermal Conduction by Electron-Phonon Coupling in Charge-Density-Wave Tantalum Disulfide. <i>Advanced Science</i> , 2020 , 7, 1902071	13.6	10
285	Improved Hydrogen Sensitivity and Selectivity in PdO with Metal-Organic Framework Membrane. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 147503	3.9	1
284	Substrate-Dependent Exciton Diffusion and Annihilation in Chemically Treated MoS2 and WS2. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12175-12184	3.8	31
283	Shape-controlled single-crystal growth of InP at low temperatures down to 220 °C. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 902-906	11.5	6
282	Evaporated tellurium thin films for p-type field-effect transistors and circuits. <i>Nature Nanotechnology</i> , 2020 , 15, 53-58	28.7	63
281	Centimeter-Scale and Visible Wavelength Monolayer Light-Emitting Devices. <i>Advanced Functional Materials</i> , 2020 , 30, 1907941	15.6	8
280	Molecular Materials with Short Radiative Lifetime for High-Speed Light-Emitting Devices. <i>Matter</i> , 2020 , 3, 1832-1844	12.7	3
279	Evaporated Se Te Thin Films with Tunable Bandgaps for Short-Wave Infrared Photodetectors. <i>Advanced Materials</i> , 2020 , 32, e2001329	24	22
278	A generic electroluminescent device for emission from infrared to ultraviolet wavelengths. <i>Nature Electronics</i> , 2020 , 3, 612-621	28.4	6
277	Glove-based sensors for multimodal monitoring of natural sweat. <i>Science Advances</i> , 2020 , 6, eabb8308	14.3	40
276	Neutral Exciton Diffusion in Monolayer MoS. <i>ACS Nano</i> , 2020 , 14, 13433-13440	16.7	23
275	Flexible Electrochemical Bioelectronics: The Rise of In Situ Bioanalysis. <i>Advanced Materials</i> , 2020 , 32, e1902083	24	128
274	Flexible Electronics: Flexible Electrochemical Bioelectronics: The Rise of In Situ Bioanalysis (Adv. Mater. 15/2020). <i>Advanced Materials</i> , 2020 , 32, 2070115	24	4

273	Trace-Level, Multi-Gas Detection for Food Quality Assessment Based on Decorated Silicon Transistor Arrays. <i>Advanced Materials</i> , 2020 , 32, e1908385	24	31
272	Gate Quantum Capacitance Effects in Nanoscale Transistors. <i>Nano Letters</i> , 2019 , 19, 7130-7137	11.5	4
271	Porous Enzymatic Membrane for Nanotextured Glucose Sweat Sensors with High Stability toward Reliable Noninvasive Health Monitoring. <i>Advanced Functional Materials</i> , 2019 , 29, 1902521	15.6	71
270	Optical and electrical properties of two-dimensional palladium diselenide. <i>Applied Physics Letters</i> , 2019 , 114, 253102	3.4	44
269	Elimination of Response to Relative Humidity Changes in Chemical-Sensitive Field-Effect Transistors. <i>ACS Sensors</i> , 2019 , 4, 1857-1863	9.2	13
268	Electrical suppression of all nonradiative recombination pathways in monolayer semiconductors. <i>Science</i> , 2019 , 364, 468-471	33.3	139
267	Physical and Chemical Sensing With Electronic Skin. <i>Proceedings of the IEEE</i> , 2019 , 107, 2155-2167	14.3	37
266	In Situ Transmission Electron Microscopy Study of Molybdenum Oxide Contacts for Silicon Solar Cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800998	1.6	3
265	Dip Coating Passivation of Crystalline Silicon by Lewis Acids. <i>ACS Nano</i> , 2019 , 13, 3723-3729	16.7	20
264	InAs FinFETs Performance Enhancement by Superacid Surface Treatment. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 1856-1861	2.9	6
263	Increasing Photoluminescence Quantum Yield by Nanophotonic Design of Quantum-Confined Halide Perovskite Nanowire Arrays. <i>Nano Letters</i> , 2019 , 19, 2850-2857	11.5	44
262	Si photocathode with Ag-supported dendritic Cu catalyst for CO ₂ reduction. <i>Energy and Environmental Science</i> , 2019 , 12, 1068-1077	35.4	58
261	Wearable Sweat Band for Noninvasive Levodopa Monitoring. <i>Nano Letters</i> , 2019 , 19, 6346-6351	11.5	73
260	A multi-modal sweat sensing patch for cross-verification of sweat rate, total ionic charge, and Na concentration. <i>Lab on A Chip</i> , 2019 , 19, 3179-3189	7.2	28
259	Regional and correlative sweat analysis using high-throughput microfluidic sensing patches toward decoding sweat. <i>Science Advances</i> , 2019 , 5, eaaw9906	14.3	143
258	Transistor-Based Work-Function Measurement of Metal-Organic Frameworks for Ultra-Low-Power, Rationally Designed Chemical Sensors. <i>Chemistry - A European Journal</i> , 2019 , 25, 13176-13183	4.8	11
257	Intrinsic Optoelectronic Characteristics of MoS Phototransistors a Fully Transparent van der Waals Heterostructure. <i>ACS Nano</i> , 2019 , 13, 9638-9646	16.7	27
256	Bright electroluminescence in ambient conditions from WSe ₂ p-n diodes using pulsed injection. <i>Applied Physics Letters</i> , 2019 , 115, 011103	3.4	5

255	A Fully Integrated and Self-Powered Smartwatch for Continuous Sweat Glucose Monitoring. <i>ACS Sensors</i> , 2019 , 4, 1925-1933	9.2	91
254	Scanning Probe Lithography Patterning of Monolayer Semiconductors and Application in Quantifying Edge Recombination. <i>Advanced Materials</i> , 2019 , 31, e1900136	24	17
253	Deterministic Assembly of Arrays of Lithographically Defined WS ₂ and MoS ₂ Monolayer Features Directly From Multilayer Sources Into Van Der Waals Heterostructures. <i>Journal of Micro and Nano-Manufacturing</i> , 2019 , 7,	1.3	7
252	Spatially Precise Transfer of Patterned Monolayer WS ₂ and MoS ₂ with Features Larger than 104 nm Directly from Multilayer Sources. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 407-416	4	13
251	Flexible Electronics toward Wearable Sensing. <i>Accounts of Chemical Research</i> , 2019 , 52, 523-533	24.3	378
250	Monolayer Semiconductors: Scanning Probe Lithography Patterning of Monolayer Semiconductors and Application in Quantifying Edge Recombination (Adv. Mater. 48/2019). <i>Advanced Materials</i> , 2019 , 31, 1970340	24	
249	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019 , 10, 5589	17.4	36
248	Passivating contacts for crystalline silicon solar cells. <i>Nature Energy</i> , 2019 , 4, 914-928	62.3	190
247	Synthetic WSe monolayers with high photoluminescence quantum yield. <i>Science Advances</i> , 2019 , 5, eaau4728	47.8	48
246	Dopant-Free Partial Rear Contacts Enabling 23% Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803367	21.8	47
245	Wearable sweat sensors. <i>Nature Electronics</i> , 2018 , 1, 160-171	28.4	588
244	Methylxanthine Drug Monitoring with Wearable Sweat Sensors. <i>Advanced Materials</i> , 2018 , 30, e170744224	24	159
243	Highly Sensitive Bulk Silicon Chemical Sensors with Sub-5 nm Thin Charge Inversion Layers. <i>ACS Nano</i> , 2018 , 12, 2948-2954	16.7	27
242	Stable Dopant-Free Asymmetric Heterocontact Silicon Solar Cells with Efficiencies above 20%. <i>ACS Energy Letters</i> , 2018 , 3, 508-513	20.1	115
241	Cation-Dependent Light-Induced Halide Demixing in Hybrid Organic-Inorganic Perovskites. <i>Nano Letters</i> , 2018 , 18, 3473-3480	11.5	52
240	Large-area and bright pulsed electroluminescence in monolayer semiconductors. <i>Nature Communications</i> , 2018 , 9, 1229	17.4	93
239	A Wearable Microfluidic Sensing Patch for Dynamic Sweat Secretion Analysis. <i>ACS Sensors</i> , 2018 , 3, 944-952	9.2	183
238	Thermal Stability of Hole-Selective Tungsten Oxide: In Situ Transmission Electron Microscopy Study. <i>Scientific Reports</i> , 2018 , 8, 12651	4.9	10

237	Polarization-resolved black phosphorus/molybdenum disulfide mid-wave infrared photodiodes with high detectivity at room temperature. <i>Nature Photonics</i> , 2018 , 12, 601-607	33.9	226
236	Ultrafast Spontaneous Emission from a Slot-Antenna Coupled WSe ₂ Monolayer. <i>ACS Photonics</i> , 2018 , 5, 2701-2705	6.3	12
235	Roll-to-Roll Gravure Printed Electrochemical Sensors for Wearable and Medical Devices. <i>ACS Nano</i> , 2018 , 12, 6978-6987	16.7	163
234	Solution-Synthesized High-Mobility Tellurium Nanoflakes for Short-Wave Infrared Photodetectors. <i>ACS Nano</i> , 2018 , 12, 7253-7263	16.7	175
233	Tantalum Oxide Electron-Selective Heterocontacts for Silicon Photovoltaics and Photoelectrochemical Water Reduction. <i>ACS Energy Letters</i> , 2018 , 3, 125-131	20.1	83
232	Solution-Processed Transparent Self-Powered p-CuS-ZnS/n-ZnO UV Photodiode. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1700381	2.5	42
231	Extremely reduced dielectric confinement in two-dimensional hybrid perovskites with large polar organics. <i>Communications Physics</i> , 2018 , 1,	5.4	84
230	Highly Reliable Superhydrophobic Protection for Organic Field-Effect Transistors by Fluoroalkylsilane-Coated TiO Nanoparticles. <i>ACS Nano</i> , 2018 , 12, 11062-11069	16.7	20
229	Temperature and Humidity Stable Alkali/Alkaline-Earth Metal Carbonates as Electron Heterocontacts for Silicon Photovoltaics. <i>Advanced Energy Materials</i> , 2018 , 8, 1800743	21.8	25
228	Zirconium oxide surface passivation of crystalline silicon. <i>Applied Physics Letters</i> , 2018 , 112, 201604	3.4	17
227	A Low Resistance Calcium/Reduced Titania Passivated Contact for High Efficiency Crystalline Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1602606	21.8	76
226	Band Tailing and Deep Defect States in CH ₃ NH ₃ Pb(I _{1-x} Br _x) ₃ Perovskites As Revealed by Sub-Bandgap Photocurrent. <i>ACS Energy Letters</i> , 2017 , 2, 709-715	20.1	80
225	Analysis of the interface characteristics of CVD-grown monolayer MoS by noise measurements. <i>Nanotechnology</i> , 2017 , 28, 145702	3.4	13
224	Smart Actuators and Adhesives for Reconfigurable Matter. <i>Accounts of Chemical Research</i> , 2017 , 50, 691-702	24.3	109
223	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126	16.7	3
222	Determining Atomic-Scale Structure and Composition of Organo-Lead Halide Perovskites by Combining High-Resolution X-ray Absorption Spectroscopy and First-Principles Calculations. <i>ACS Energy Letters</i> , 2017 , 2, 1183-1189	20.1	17
221	Autonomous sweat extraction and analysis applied to cystic fibrosis and glucose monitoring using a fully integrated wearable platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 4625-4630	11.5	404
220	Highly Stable Near-Unity Photoluminescence Yield in Monolayer MoS by Fluoropolymer Encapsulation and Superacid Treatment. <i>ACS Nano</i> , 2017 , 11, 5179-5185	16.7	64

219	Nanoscale Junction Formation by Gas-Phase Monolayer Doping. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20648-20655	9.5	17
218	Room temperature multiplexed gas sensing using chemical-sensitive 3.5-nm-thin silicon transistors. <i>Science Advances</i> , 2017 , 3, e1602557	14.3	98
217	Wafer-Scale Growth of WSe ₂ Monolayers Toward Phase-Engineered Hybrid WO _x /WSe ₂ Films with Sub-ppb NO _x Gas Sensing by a Low-Temperature Plasma-Assisted Selenization Process. <i>Chemistry of Materials</i> , 2017 , 29, 1587-1598	9.6	66
216	Mid-Wave Infrared Photoconductors Based on Black Phosphorus-Arsenic Alloys. <i>ACS Nano</i> , 2017 , 11, 11724-11731	16.7	116
215	Wearable Devices: Wearable Microfluidic Diaphragm Pressure Sensor for Health and Tactile Touch Monitoring (Adv. Mater. 39/2017). <i>Advanced Materials</i> , 2017 , 29,	24	2
214	Defect passivation of transition metal dichalcogenides via a charge transfer van der Waals interface. <i>Science Advances</i> , 2017 , 3, e1701661	14.3	67
213	Efficient solar-driven electrochemical CO ₂ reduction to hydrocarbons and oxygenates. <i>Energy and Environmental Science</i> , 2017 , 10, 2222-2230	35.4	104
212	Strain-engineered growth of two-dimensional materials. <i>Nature Communications</i> , 2017 , 8, 608	17.4	162
211	Microchannel contacting of crystalline silicon solar cells. <i>Scientific Reports</i> , 2017 , 7, 9085	4.9	6
210	3D Printed "Earable" Smart Devices for Real-Time Detection of Core Body Temperature. <i>ACS Sensors</i> , 2017 , 2, 990-997	9.2	69
209	Wearable Microfluidic Diaphragm Pressure Sensor for Health and Tactile Touch Monitoring. <i>Advanced Materials</i> , 2017 , 29, 1701985	24	254
208	Measuring the Edge Recombination Velocity of Monolayer Semiconductors. <i>Nano Letters</i> , 2017 , 17, 5356-5360	13.6	12
207	High-gain monolithic 3D CMOS inverter using layered semiconductors. <i>Applied Physics Letters</i> , 2017 , 111, 222101	3.4	3
206	Calcium contacts to n-type crystalline silicon solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 636-644	6.8	50
205	Conductive and Stable Magnesium Oxide Electron-Selective Contacts for Efficient Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1601863	21.8	114
204	Superacid-Treated Silicon Surfaces: Extending the Limit of Carrier Lifetime for Photovoltaic Applications. <i>IEEE Journal of Photovoltaics</i> , 2017 , 7, 1574-1583	3.7	31
203	Superacid Passivation of Crystalline Silicon Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24205-11	9.5	32
202	Compliant substrate epitaxy: Au on MoS ₂ . <i>Physical Review B</i> , 2016 , 93,	3.3	15

201	Defective TiO ₂ with high photoconductive gain for efficient and stable planar heterojunction perovskite solar cells. <i>Nature Communications</i> , 2016 , 7, 12446	17.4	117
200	Efficient silicon solar cells with dopant-free asymmetric heterocontacts. <i>Nature Energy</i> , 2016 , 1,	62.3	351
199	Fully gravure printed complementary carbon nanotube TFTs for a clock signal generator using an epoxy-imine based cross-linker as an n-dopant and encapsulant. <i>Nanoscale</i> , 2016 , 8, 19876-19881	7.7	17
198	Origin of multi-level switching and telegraphic noise in organic nanocomposite memory devices. <i>Scientific Reports</i> , 2016 , 6, 33967	4.9	18
197	III-Vs at scale: a PV manufacturing cost analysis of the thin film vapor-liquid-solid growth mode. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 871-878	6.8	12
196	Printed Carbon Nanotube Electronics and Sensor Systems. <i>Advanced Materials</i> , 2016 , 28, 4397-414	24	284
195	Increased Optoelectronic Quality and Uniformity of Hydrogenated p-InP Thin Films. <i>Chemistry of Materials</i> , 2016 , 28, 4602-4607	9.6	9
194	General Thermal Texturization Process of MoS ₂ for Efficient Electrocatalytic Hydrogen Evolution Reaction. <i>Nano Letters</i> , 2016 , 16, 4047-53	11.5	84
193	Air-Stable n-Doping of WSe ₂ by Anion Vacancy Formation with Mild Plasma Treatment. <i>ACS Nano</i> , 2016 , 10, 6853-60	16.7	147
192	Magnesium Fluoride Electron-Selective Contacts for Crystalline Silicon Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14671-7	9.5	134
191	High Luminescence Efficiency in MoS ₂ Grown by Chemical Vapor Deposition. <i>ACS Nano</i> , 2016 , 10, 6535-416.7	16.7	115
190	Monolithic 3D CMOS Using Layered Semiconductors. <i>Advanced Materials</i> , 2016 , 28, 2547-54	24	72
189	Lithium Fluoride Based Electron Contacts for High Efficiency n-Type Crystalline Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2016 , 6, 1600241	21.8	95
188	Fully integrated wearable sensor arrays for multiplexed in situ perspiration analysis. <i>Nature</i> , 2016 , 529, 509-514	50.4	2526
187	Electrical Properties of Synthesized Large-Area MoS ₂ Field-Effect Transistors Fabricated with Inkjet-Printed Contacts. <i>ACS Nano</i> , 2016 , 10, 2819-26	16.7	58
186	Recombination Kinetics and Effects of Superacid Treatment in Sulfur- and Selenium-Based Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2016 , 16, 2786-91	11.5	187
185	Chemical Bath Deposition of p-Type Transparent, Highly Conducting (CuS) _x :(ZnS) _{1-x} Nanocomposite Thin Films and Fabrication of Si Heterojunction Solar Cells. <i>Nano Letters</i> , 2016 , 16, 1925-32	11.5	77
184	Direct growth of single-crystalline III-V semiconductors on amorphous substrates. <i>Nature Communications</i> , 2016 , 7, 10502	17.4	37

183	High Photoluminescence Quantum Yield in Band Gap Tunable Bromide Containing Mixed Halide Perovskites. <i>Nano Letters</i> , 2016 , 16, 800-6	11.5	218
182	Carbon Nanotubes: Printed Carbon Nanotube Electronics and Sensor Systems (Adv. Mater. 22/2016). <i>Advanced Materials</i> , 2016 , 28, 4396	24	7
181	Gold-Mediated Exfoliation of Ultralarge Optoelectronically-Perfect Monolayers. <i>Advanced Materials</i> , 2016 , 28, 4053-8	24	206
180	A Wearable Electrochemical Platform for Noninvasive Simultaneous Monitoring of Ca(2+) and pH. <i>ACS Nano</i> , 2016 , 10, 7216-24	16.7	324
179	2D materials advances: from large scale synthesis and controlled heterostructures to improved characterization techniques, defects and applications. <i>2D Materials</i> , 2016 , 3, 042001	5.9	297
178	2D-2D tunneling field-effect transistors using WSe ₂ /SnSe ₂ heterostructures. <i>Applied Physics Letters</i> , 2016 , 108, 083111	3.4	212
177	Survey of dopant-free carrier-selective contacts for silicon solar cells 2016 ,		10
176	Improved photoswitching response times of MoS ₂ field-effect transistors by stacking p-type copper phthalocyanine layer. <i>Applied Physics Letters</i> , 2016 , 109, 183502	3.4	21
175	Wearable sweat biosensors 2016 ,		12
174	Wearable Microsensor Array for Multiplexed Heavy Metal Monitoring of Body Fluids. <i>ACS Sensors</i> , 2016 , 1, 866-874	9.2	216
173	MoS ₂ transistors with 1-nanometer gate lengths. <i>Science</i> , 2016 , 354, 99-102	33.3	812
172	Application of 3D Printing for Smart Objects with Embedded Electronic Sensors and Systems. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600013	6.8	124
171	Engineering light outcoupling in 2D materials. <i>Nano Letters</i> , 2015 , 15, 1356-61	11.5	105
170	Enabling unassisted solar water splitting by iron oxide and silicon. <i>Nature Communications</i> , 2015 , 6, 7447	17.4	359
169	Quantum Well InAs/AlSb/GaSb Vertical Tunnel FET With HSQ Mechanical Support. <i>IEEE Nanotechnology Magazine</i> , 2015 , 14, 580-584	2.6	18
168	MoS ₂ Heterojunctions by Thickness Modulation. <i>Scientific Reports</i> , 2015 , 5, 10990	4.9	71
167	Nonepitaxial Thin-Film InP for Scalable and Efficient Photocathodes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2177-82	6.4	31
166	Catalyst-dependent morphological evolution by interfacial stress in crystalline/morphous core/shell germanium nanowires. <i>RSC Advances</i> , 2015 , 5, 28454-28459	3.7	1

165	Artificial Photosynthesis on TiO ₂ -Passivated InP Nanopillars. <i>Nano Letters</i> , 2015 , 15, 6177-81	11.5	67
164	Oriented Growth of Gold Nanowires on MoS ₂ . <i>Advanced Functional Materials</i> , 2015 , 25, 6257-6264	15.6	18
163	Near-unity photoluminescence quantum yield in MoS ₂ . <i>Science</i> , 2015 , 350, 1065-8	33.3	792
162	Highly uniform and stable n-type carbon nanotube transistors by using positively charged silicon nitride thin films. <i>Nano Letters</i> , 2015 , 15, 392-7	11.5	82
161	Photovoltaic Material Characterization With Steady State and Transient Photoluminescence. <i>IEEE Journal of Photovoltaics</i> , 2015 , 5, 282-287	3.7	12
160	2D layered materials: From materials properties to device applications 2015 ,		8
159	A fully roll-to-roll gravure-printed carbon nanotube-based active matrix for multi-touch sensors. <i>Scientific Reports</i> , 2015 , 5, 17707	4.9	82
158	Fully printed flexible and disposable wireless cyclic voltammetry tag. <i>Scientific Reports</i> , 2015 , 5, 8105	4.9	55
157	Electron-Selective TiO ₂ Contact for Cu(In,Ga)Se ₂ Solar Cells. <i>Scientific Reports</i> , 2015 , 5, 16028	4.9	43
156	Room Temperature Oxide Deposition Approach to Fully Transparent, All-Oxide Thin-Film Transistors. <i>Advanced Materials</i> , 2015 , 27, 6090-5	24	49
155	Enhanced Photocatalytic Reduction of CO ₂ to CO through TiO ₂ Passivation of InP in Ionic Liquids. <i>Chemistry - A European Journal</i> , 2015 , 21, 13502-7	4.8	41
154	Thin-Film Solar Cells with InP Absorber Layers Directly Grown on Nonepitaxial Metal Substrates. <i>Advanced Energy Materials</i> , 2015 , 5, 1501337	21.8	11
153	Photoluminescence imaging characterization of thin-film InP 2015 ,		4
152	Integrated Manufacture of Exoskeletons and Sensing Structures for Folded Millirobots. <i>Journal of Mechanisms and Robotics</i> , 2015 , 7,	2.2	31
151	Role of TiO ₂ Surface Passivation on Improving the Performance of p-InP Photocathodes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2308-2313	3.8	109
150	Dual-gated MoS ₂ /WSe ₂ van der Waals tunnel diodes and transistors. <i>ACS Nano</i> , 2015 , 9, 2071-9	16.7	441
149	Large-area compliant tactile sensors using printed carbon nanotube active-matrix backplanes. <i>Advanced Materials</i> , 2015 , 27, 1561-6	24	176
148	Enhanced Spontaneous Emission from an Optical Antenna Coupled WSe ₂ Monolayer 2015 ,		1

147	Silicon heterojunction solar cell with passivated hole selective MoOx contact. <i>Applied Physics Letters</i> , 2014 , 104, 113902	3.4	307
146	Strong interlayer coupling in van der Waals heterostructures built from single-layer chalcogenides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 6198-202	11.5	803
145	Field-effect transistors built from all two-dimensional material components. <i>ACS Nano</i> , 2014 , 8, 6259-64	16.7	496
144	Air-stable surface charge transfer doping of MoS ₂ by benzyl viologen. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7853-6	16.4	485
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