

Sunkook Kim

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.

124
papers

4,806
citations

25
h-index

67
g-index

144
ext. papers

5,575
ext. citations

8.5
avg, IF

5.39
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 124 | Skin-conformable photoplethysmogram sensors for energy-efficient always-on cardiovascular monitoring systems. <i>Nano Energy</i> , 2022 , 92, 106773 | 17.1 | 3 |
| 123 | Embedded Structural-Durability-Health Monitoring System Integrated with Multi-Sensors and a Wideband Antenna. <i>IEEE Internet of Things Journal</i> , 2022 , 1-1 | 10.7 | |
| 122 | Resistive Water Level Sensors Based on AgNWs/PEDOT:PSS--PEGME Hybrid Film for Agricultural Monitoring Systems.. <i>ACS Omega</i> , 2022 , 7, 15459-15466 | 3.9 | |
| 121 | Highly enhanced ferroelectricity in HfO-based ferroelectric thin film by light ion bombardment.. <i>Science</i> , 2022 , 376, 731-738 | 33.3 | 6 |
| 120 | Mechanically Stable Kirigami Deformable Resonant Circuits for Wireless Vibration and Pressure Sensor Applications. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54162-54169 | 9.5 | 2 |
| 119 | Smart Patch for Skin Temperature: Preliminary Study to Evaluate Psychometrics and Feasibility. <i>Sensors</i> , 2021 , 21, | 3.8 | 5 |
| 118 | Multifunctional molybdenum disulfide flash memory using a PEDOT:PSS floating gate. <i>NPG Asia Materials</i> , 2021 , 13, | 10.3 | 5 |
| 117 | High-Performance Non-Volatile InGaZnO Based Flash Memory Device Embedded with a Monolayer Au Nanoparticles. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 5 |
| 116 | Direct growth of orthorhombic Hf _{0.5} Zr _{0.5} O ₂ thin films for hysteresis-free MoS ₂ negative capacitance field-effect transistors. <i>Npj 2D Materials and Applications</i> , 2021 , 5, | 8.8 | 8 |
| 115 | Effectively Enhanced Broadband Phototransistors Based on Multilayer WSe ₂ /Pentacene. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100003 | 6.4 | 3 |
| 114 | Nanonet: Low-temperature-processed tellurium nanowire network for scalable p-type field-effect transistors and a highly sensitive phototransistor array. <i>NPG Asia Materials</i> , 2021 , 13, | 10.3 | 6 |
| 113 | Highly sensitive active pixel image sensor array driven by large-area bilayer MoS transistor circuitry. <i>Nature Communications</i> , 2021 , 12, 3559 | 17.4 | 24 |
| 112 | Pulsed Gate Switching of MoS ₂ Field-Effect Transistor Based on Flexible Polyimide Substrate for Ultrasonic Detectors. <i>Advanced Functional Materials</i> , 2021 , 31, 2007389 | 15.6 | 5 |
| 111 | Ultrafast prototyping of large-area stretchable electronic systems by laser ablation technique for controllable robotic arm operations. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1 | 8.9 | 6 |
| 110 | Highly stretchable metal-polymer hybrid conductors for wearable and self-cleaning sensors. <i>NPG Asia Materials</i> , 2021 , 13, | 10.3 | 11 |
| 109 | Sub-Thermionic Negative Capacitance Field Effect Transistors with Solution Combustion-Derived Hf _{0.5} Zr _{0.5} O ₂ . <i>Advanced Functional Materials</i> , 2021 , 31, 2103748 | 15.6 | 5 |
| 108 | Customization of MoS ₂ Phototransistors via Thiol-Based Functionalization. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100644 | 6.4 | 2 |

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| 107 | Neuromorphic Active Pixel Image Sensor Array for Visual Memory. <i>ACS Nano</i> , 2021 , 15, 15362-15370 | 16.7 | 9 |
| 106 | High photoresponsivity of multilayer MoSe ₂ phototransistors decorated with Au nanoseeds. <i>Applied Physics Letters</i> , 2021 , 119, 131102 | 3.4 | 3 |
| 105 | Chaotic Organic Crystal Phosphorescent Patterns for Physical Unclonable Functions. <i>Advanced Materials</i> , 2021 , 33, e2102542 | 24 | 5 |
| 104 | Biocompatible, Transparent, and High-Areal-Coverage Kirigami PEDOT:PSS Electrodes for Electrooculography-Derived Human-Machine Interactions. <i>ACS Sensors</i> , 2021 , 6, 967-975 | 9.2 | 11 |
| 103 | Laser-Processed Stretchable-Gradient Interconnection-Based Temperature Sensor for a Real-Time Monitoring System. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 5601-5607 | 4 | 1 |
| 102 | Expediently Crystallized Pure Orthorhombic-HfZrO for Negative Capacitance Field Effect Transistors.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60250-60260 | 9.5 | 0 |
| 101 | Highly Linear and Stable Flexible Temperature Sensors Based on Laser-Induced Carbonization of Polyimide Substrates for Personal Mobile Monitoring. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000014 | 6.8 | 13 |
| 100 | Sensory Adaptation and Neuromorphic Phototransistors Based on CsPb(BrI) Perovskite and MoS Hybrid Structure. <i>ACS Nano</i> , 2020 , 14, 9796-9806 | 16.7 | 42 |
| 99 | Improvement of the stability and optoelectronic characteristics of molybdenum disulfide thin-film transistors by applying a nitrocellulose passivation layer. <i>Journal of Information Display</i> , 2020 , 21, 123-130 | 4.1 | 8 |
| 98 | Rapid and mass-producible synthesis of high-crystallinity MoSe nanosheets by ampoule-loaded chemical vapor deposition. <i>Nanoscale</i> , 2020 , 12, 6991-6999 | 7.7 | 4 |
| 97 | Ultrasensitive Multilayer MoS ₂ -Based Photodetector with Permanently Grounded Gate Effect. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901256 | 6.4 | 9 |
| 96 | Nickel telluride vertically aligned thin film by radio-frequency magnetron sputtering for hydrogen evolution reaction. <i>APL Materials</i> , 2020 , 8, 121104 | 5.7 | 2 |
| 95 | . <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 8808-8816 | 8.9 | 21 |
| 94 | Alcohol-based highly conductive polymer for conformal nanocoatings on hydrophobic surfaces toward a highly sensitive and stable pressure sensor. <i>NPG Asia Materials</i> , 2020 , 12, | 10.3 | 13 |
| 93 | Plasma diagnostic in LiMn ₂ O ₄ thin film process for Li-ion battery application. <i>Surface and Coatings Technology</i> , 2020 , 397, 126066 | 4.4 | 1 |
| 92 | Growth of Multiorientated Polycrystalline MoS Using Plasma-Enhanced Chemical Vapor Deposition for Efficient Hydrogen Evolution Reactions. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 2 |
| 91 | High-Speed Direct Writing of MoSe ₂ by Maskless and Gas-Free Laser-Assisted Selenization Process. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19333-19339 | 3.8 | 1 |
| 90 | Trends in Low-Temperature Combustion Derived Thin Films for Solution-Processed Electronics. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000464 | 6.4 | 7 |

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| 89 | High-Intensity Ultrasound-Assisted Low-Temperature Formulation of Lanthanum Zirconium Oxide Nanodispersion for Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 44926-44933 | 9.5 | 5 |
| 88 | Active-matrix monolithic gas sensor array based on MoS ₂ thin-film transistors. <i>Communications Materials</i> , 2020 , 1, | 6 | 8 |
| 87 | Exceptionally Uniform and Scalable Multilayer MoS Phototransistor Array Based on Large-Scale MoS Grown by RF Sputtering, Electron Beam Irradiation, and Sulfurization. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20645-20652 | 9.5 | 24 |
| 86 | Large-area MoS ₂ -MoO _x heterojunction thin-film photodetectors with wide spectral range and enhanced photoresponse. <i>APL Materials</i> , 2019 , 7, 061101 | 5.7 | 13 |
| 85 | Colorimetric Sensing Systems: A Colorimetric Multifunctional Sensing Method for Structural-Durability-Health Monitoring Systems (Adv. Mater. 23/2019). <i>Advanced Materials</i> , 2019 , 31, 1970163 | 24 | 2 |
| 84 | MoS Field-Effect Transistor-Amyloid- β Hybrid Device for Signal Amplified Detection of MMP-9. <i>Analytical Chemistry</i> , 2019 , 91, 8252-8258 | 7.8 | 18 |
| 83 | Highly Efficient Nanocarbon Coating Layer on the Nanostructured Copper Sulfide-Metal Organic Framework Derived Carbon for Advanced Sodium-Ion Battery Anode. <i>Materials</i> , 2019 , 12, | 3.5 | 13 |
| 82 | Ultra-Short Pulsed Laser Annealing Effects on MoS ₂ Transistors with Asymmetric and Symmetric Contacts. <i>Electronics (Switzerland)</i> , 2019 , 8, 222 | 2.6 | 3 |
| 81 | A Colorimetric Multifunctional Sensing Method for Structural-Durability-Health Monitoring Systems. <i>Advanced Materials</i> , 2019 , 31, e1807552 | 24 | 14 |
| 80 | Asymmetric Double-Gate E _{Ga} 2O ₃ Nanomembrane Field-Effect Transistor for Energy-Efficient Power Devices. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800938 | 6.4 | 19 |
| 79 | Laser-Processed Nature-Inspired Deformable Structures for Breathable and Reusable Electrophysiological Sensors toward Controllable Home Electronic Appliances and Psychophysiological Stress Monitoring. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28387-28396 | 9.5 | 27 |
| 78 | Low-temperature behaviors of multilayer MoS ₂ transistors with ohmic and Schottky contacts. <i>Applied Physics Letters</i> , 2019 , 115, 033501 | 3.4 | 7 |
| 77 | On MoS Thin-Film Transistor Design Consideration for a NO Gas Sensor. <i>ACS Sensors</i> , 2019 , 4, 2930-2936 | 9.2 | 14 |
| 76 | A Fully Integrated Flexible Heterogeneous Temperature and Humidity Sensor-Based Occupancy Detection Device for Smart Office Applications. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900619 | 6.8 | 6 |
| 75 | Resistive Water Sensors Based on PEDOT:PSS-PEGME Copolymer and Laser Treatment for Water Ingress Monitoring Systems. <i>ACS Sensors</i> , 2019 , 4, 3291-3297 | 9.2 | 5 |
| 74 | Moving shot, an affordable and high-throughput setup for direct imaging of fast-moving microdroplets. <i>Microsystem Technologies</i> , 2019 , 25, 3417-3423 | 1.7 | 2 |
| 73 | Highly Stable Thin-Film Transistors Based on Indium Oxynitride Semiconductor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15873-15879 | 9.5 | 10 |
| 72 | Interstitial Mo-Assisted Photovoltaic Effect in Multilayer MoSe Phototransistors. <i>Advanced Materials</i> , 2018 , 30, e1705542 | 24 | 28 |

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| 71 | Chemical Doping Effects on CVD-Grown Multilayer MoSe ₂ Transistor. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700639 | 6.4 | 18 |
| 70 | Temperature-Dependent Electrical Properties of Al ₂ O ₃ -Passivated Multilayer MoS ₂ Thin-Film Transistors. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 424 | 2.6 | 14 |
| 69 | Flexible PI-Based Plant Drought Stress Sensor for Real-Time Monitoring System in Smart Farm. <i>Electronics (Switzerland)</i> , 2018 , 7, 114 | 2.6 | 16 |
| 68 | Transition Metal Dichalcogenide Photodetectors 2018 , | | 3 |
| 67 | Thin-Film Transistors: Chemical Doping Effects on CVD-Grown Multilayer MoSe ₂ Transistor (Adv. Electron. Mater. 6/2018). <i>Advanced Electronic Materials</i> , 2018 , 4, 1870032 | 6.4 | |
| 66 | Chemical Doping Effects in Multilayer MoS and Its Application in Complementary Inverter. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23270-23276 | 9.5 | 15 |
| 65 | Wireless Real-Time Temperature Monitoring of Blood Packages: Silver Nanowire-Embedded Flexible Temperature Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44678-44685 | 9.5 | 42 |
| 64 | n-Type Doping Effect of CVD-Grown Multilayer MoSe ₂ Thin Film Transistors by Two-Step Functionalization. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800308 | 6.4 | 18 |
| 63 | Enhanced Moisture-Reactive Hydrophilic-PTFE-Based Flexible Humidity Sensor for Real-Time Monitoring. <i>Sensors</i> , 2018 , 18, | 3.8 | 13 |
| 62 | Enhanced photoresponsivity of multilayer MoS ₂ transistors using high work function MoOx overlayer. <i>Applied Physics Letters</i> , 2017 , 110, 053112 | 3.4 | 11 |
| 61 | Massive, eco-friendly, and facile fabrication of multi-functional anodic aluminum oxides: application to nanoporous templates and sensing platforms. <i>RSC Advances</i> , 2017 , 7, 4518-4530 | 3.7 | 4 |
| 60 | 66-1: Invited Paper: High Mobility Flexible 2D Multilayer MoS ₂ TFTs on Solution-Based Polyimide Substrates. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 965-967 | 0.5 | 1 |
| 59 | Recent progress in high-mobility thin-film transistors based on multilayer 2D materials. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 164001 | 3 | 16 |
| 58 | A highly sensitive ultrathin-film iron corrosion sensor encapsulated by an anion exchange membrane embedded in mortar. <i>Construction and Building Materials</i> , 2017 , 156, 506-514 | 6.7 | 6 |
| 57 | Label-Free and Recalibrated Multilayer MoS Biosensor for Point-of-Care Diagnostics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43490-43497 | 9.5 | 36 |
| 56 | Improving the Stability of High-Performance Multilayer MoS Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42943-42950 | 9.5 | 41 |
| 55 | A highly sensitive chemical gas detecting transistor based on highly crystalline CVD-grown MoSe ₂ films. <i>Nano Research</i> , 2017 , 10, 1861-1871 | 10 | 73 |
| 54 | Real-time electrical detection of epidermal skin MoS ₂ biosensor for point-of-care diagnostics. <i>Nano Research</i> , 2017 , 10, 767-775 | 10 | 33 |

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| 53 | Peimine Inhibits the Production of Proinflammatory Cytokines Through Regulation of the Phosphorylation of NF- κ B and MAPKs in HMC-1 Cells. <i>Pharmacognosy Magazine</i> , 2017 , 13, S359-S364 | 0.8 | 14 |
| 52 | The doping mechanism and electrical performance of polyethylenimine-doped MoS ₂ transistor. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2017 , 14, 1600262 | | 9 |
| 51 | High-Performance Flexible Multilayer MoS ₂ Transistors on Solution-Based Polyimide Substrates. <i>Advanced Functional Materials</i> , 2016 , 26, 2426-2434 | 15.6 | 63 |
| 50 | A New Microstructure Development Model for the Evaluation of Concrete Setting Time. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-10 | 1.5 | 3 |
| 49 | High-Mobility Transistors Based on Large-Area and Highly Crystalline CVD-Grown MoSe ₂ Films on Insulating Substrates. <i>Advanced Materials</i> , 2016 , 28, 2316-21 | 24 | 87 |
| 48 | Research Update: Nanoscale surface potential analysis of MoS ₂ field-effect transistors for biomolecular detection using Kelvin probe force microscopy. <i>APL Materials</i> , 2016 , 4, 100701 | 5.7 | 5 |
| 47 | High performance and transparent multilayer MoS ₂ transistors: Tuning Schottky barrier characteristics. <i>AIP Advances</i> , 2016 , 6, 055026 | 1.5 | 11 |
| 46 | Transistors: High-Mobility Transistors Based on Large-Area and Highly Crystalline CVD-Grown MoSe ₂ Films on Insulating Substrates (Adv. Mater. 12/2016). <i>Advanced Materials</i> , 2016 , 28, 2278-2278 | 24 | 3 |
| 45 | High-mobility 2D layered semiconducting transistors based on large-area and highly crystalline CVD-grown MoSe ₂ for flexible electronics 2016 , | | 1 |
| 44 | Phototransistors: Giant Photoamplification in Indirect-Bandgap Multilayer MoS ₂ Phototransistors with Local Bottom-Gate Structures (Adv. Mater. 13/2015). <i>Advanced Materials</i> , 2015 , 27, 2126-2126 | 24 | 3 |
| 43 | Electrical Contact Analysis of Multilayer MoS ₂ Transistor With Molybdenum Source/Drain Electrodes. <i>IEEE Electron Device Letters</i> , 2015 , 36, 1215-1218 | 4.4 | 20 |
| 42 | Highly Crystalline CVD-grown Multilayer MoSe ₂ Thin Film Transistor for Fast Photodetector. <i>Scientific Reports</i> , 2015 , 5, 15313 | 4.9 | 108 |
| 41 | Photosensitivity enhancement in hydrogenated amorphous silicon thin-film phototransistors with gate underlap. <i>Applied Physics Letters</i> , 2015 , 107, 201103 | 3.4 | 5 |
| 40 | A α -Si:H Thin-Film Phototransistor for a Near-Infrared Touch Sensor. <i>IEEE Electron Device Letters</i> , 2015 , 36, 41-43 | 4.4 | 14 |
| 39 | Evaluation of pulsed laser annealing for flexible multilayer MoS ₂ transistors. <i>Applied Physics Letters</i> , 2015 , 106, 113111 | 3.4 | 18 |
| 38 | Optically transparent thin-film transistors based on 2D multilayer MoS ₂ and indium zinc oxide electrodes. <i>Nanotechnology</i> , 2015 , 26, 035202 | 3.4 | 16 |
| 37 | Giant photoamplification in indirect-bandgap multilayer MoS ₂ phototransistors with local bottom-gate structures. <i>Advanced Materials</i> , 2015 , 27, 2224-30 | 24 | 92 |
| 36 | Enhancement of photoresponsive electrical characteristics of multilayer MoS ₂ transistors using rubrene patches. <i>Nano Research</i> , 2015 , 8, 790-800 | 10 | 21 |

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| 35 | Two-dimensional layered MoS ₂ biosensors enable highly sensitive detection of biomolecules. <i>Scientific Reports</i> , 2014 , 4, 7352 | 4.9 | 199 |
| 34 | Electrical characteristics of multilayer MoS ₂ transistors at real operating temperatures with different ambient conditions. <i>Applied Physics Letters</i> , 2014 , 105, 152105 | 3.4 | 34 |
| 33 | Rendering High Charge Density of States in Ionic Liquid-Gated MoS ₂ Transistors. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18278-18282 | 3.8 | 10 |
| 32 | Flexible nano-hybrid inverter based on inkjet-printed organic and 2D multilayer MoS ₂ thin film transistor. <i>Organic Electronics</i> , 2014 , 15, 3038-3042 | 3.5 | 11 |
| 31 | Selective and localized laser annealing effect for high-performance flexible multilayer MoS ₂ thin-film transistors. <i>Nano Research</i> , 2014 , 7, 1137-1145 | 10 | 55 |
| 30 | High-temperature electrical behavior of a 2D multilayered MoS ₂ transistor. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 945-948 | 0.6 | 4 |
| 29 | Large-area atomically thin MoS ₂ nanosheets prepared using electrochemical exfoliation. <i>ACS Nano</i> , 2014 , 8, 6902-10 | 16.7 | 323 |
| 28 | Analysis of flicker noise in two-dimensional multilayer MoS ₂ transistors. <i>Applied Physics Letters</i> , 2014 , 104, 083110 | 3.4 | 49 |
| 27 | Electrical performance of local bottom-gated MoS ₂ thin-film transistors. <i>Journal of Information Display</i> , 2014 , 15, 107-110 | 4.1 | |
| 26 | Nanowire-based ternary transistor by threshold-voltage manipulation. <i>Applied Physics Letters</i> , 2014 , 104, 143509 | 3.4 | 8 |
| 25 | Improved growth behavior of atomic-layer-deposited high-k dielectrics on multilayer MoS ₂ by oxygen plasma pretreatment. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4739-44 | 9.5 | 137 |
| 24 | Drop-cast and dye-sensitized ZnO nanorod-based visible-light photodetectors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 659-663 | 2.5 | 5 |
| 23 | Multilayer transition-metal dichalcogenide channel Thin-Film Transistors 2012 , | | 4 |
| 22 | High-mobility and low-power thin-film transistors based on multilayer MoS ₂ crystals. <i>Nature Communications</i> , 2012 , 3, 1011 | 17.4 | 1223 |
| 21 | High-detectivity multilayer MoS ₂ phototransistors with spectral response from ultraviolet to infrared. <i>Advanced Materials</i> , 2012 , 24, 5832-6 | 24 | 814 |
| 20 | Diffuse light-scattering properties of nanocracked and porous MoO ₃ films self-formed by electrodeposition and thermal annealing. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2161-2166 | 1.6 | 5 |
| 19 | Atomic-layer-deposited ZnO thin-film transistors with various gate dielectrics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 2087-2090 | 1.6 | 20 |
| 18 | Facile fabrication of forest-like ZnO hierarchical structures on conductive fabric substrate. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 355-357 | 2.5 | 8 |

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| 17 | Phototransistors: High-Detectivity Multilayer MoS ₂ Phototransistors with Spectral Response from Ultraviolet to Infrared (Adv. Mater. 43/2012). <i>Advanced Materials</i> , 2012 , 24, 5902-5902 | 24 | 19 |
| 16 | A Highly Sensitive Capacitive Touch Sensor Integrated on a Thin-Film-Encapsulated Active-Matrix OLED for Ultrathin Displays. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 3609-3615 | 2.9 | 54 |
| 15 | Low-power flexible organic light-emitting diode display device. <i>Advanced Materials</i> , 2011 , 23, 3511-6 | 24 | 294 |
| 14 | Mechanically and optically reliable folding structure with a hyperelastic material for seamless foldable displays. <i>Applied Physics Letters</i> , 2011 , 98, 151904 | 3.4 | 26 |
| 13 | Capacitance-voltage modeling of metal-ferroelectric-semiconductor capacitors based on epitaxial oxide heterostructures. <i>Applied Physics Letters</i> , 2011 , 98, 102901 | 3.4 | 17 |
| 12 | DC modeling and the source of flicker noise in passivated carbon nanotube transistors. <i>Nanotechnology</i> , 2010 , 21, 385203 | 3.4 | 8 |
| 11 | Fully transparent pixel circuits driven by random network carbon nanotube transistor circuitry. <i>ACS Nano</i> , 2010 , 4, 2994-8 | 16.7 | 54 |
| 10 | 18.4: A New Seamless Foldable OLED Display Composed of Multi Display Panels. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 257 | 0.5 | 18 |
| 9 | Fully transparent thin-film transistors based on aligned carbon nanotube arrays and indium tin oxide electrodes. <i>Advanced Materials</i> , 2009 , 21, 564-8 | 24 | 53 |
| 8 | Doubly clamped single-walled carbon nanotube resonators operating in MHz frequencies | | 2 |
| 7 | Fabrication of Highly Photosensitive MoS ₂ Photodetector Films Using Rapid Electrohydrodynamic-Jet Printing Process. <i>Advanced Electronic Materials</i> , 2101063 | 6.4 | 0 |
| 6 | Sub-Zero Temperature Sensor Based on Laser-Written Carbon. <i>Advanced Electronic Materials</i> , 2101252 | 6.4 | 0 |
| 5 | Thin-Film Transistors Based on Transition Metal Dichalcogenides | 539-562 | |
| 4 | Flexible Platform Oriented: Unipolar-Type Hybrid Dual-Channel Scalable Field-Effect Phototransistors Array Based on Tellurium Nanowires and Tellurium-Film with Highly Linear Photoresponsivity. <i>Advanced Electronic Materials</i> , 2101331 | 6.4 | 1 |
| 3 | All-day wearable health monitoring system. <i>EcoMat</i> , | 9.4 | 3 |
| 2 | Low-Temperature Carrier Transport Mechanism of Wafer-Scale Grown Polycrystalline Molybdenum Disulfide Thin-Film Transistor Based on Radio Frequency Sputtering and Sulfurization. <i>Advanced Materials Interfaces</i> , 2102360 | 4.6 | 0 |
| 1 | Ultrathin Al-Assisted Al ₂ O ₃ Passivation Layer for High-Stability Tungsten Diselenide Transistors and Their Ambipolar Inverter. <i>Advanced Electronic Materials</i> , 2101012 | 6.4 | |