

Lei Liao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5490172/publications.pdf>

Version: 2024-02-01

133
papers

8,286
citations

71061

41
h-index

48277

88
g-index

139
all docs

139
docs citations

139
times ranked

11582
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Approaching the Schottky-Mott limit in van der Waals metal-semiconductor junctions. <i>Nature</i> , 2018, 557, 696-700. | 13.7 | 1,279 |
| 2 | Two-dimensional antimonene single crystals grown by van der Waals epitaxy. <i>Nature Communications</i> , 2016, 7, 13352. | 5.8 | 798 |
| 3 | Ultrafast growth of single-crystal graphene assisted by a continuous oxygen supply. <i>Nature Nanotechnology</i> , 2016, 11, 930-935. | 15.6 | 330 |
| 4 | Monolayer atomic crystal molecular superlattices. <i>Nature</i> , 2018, 555, 231-236. | 13.7 | 323 |
| 5 | Direct growth of SnO ₂ nanorod array electrodes for lithium-ion batteries. <i>Journal of Materials Chemistry</i> , 2009, 19, 1859. | 6.7 | 273 |
| 6 | Recent Advances in Optoelectronic Devices Based on 2D Materials and Their Heterostructures. <i>Advanced Optical Materials</i> , 2019, 7, 1800441. | 3.6 | 229 |
| 7 | Efficient strain modulation of 2D materials via polymer encapsulation. <i>Nature Communications</i> , 2020, 11, 1151. | 5.8 | 215 |
| 8 | Van der Waals epitaxial growth of air-stable CrSe ₂ nanosheets with thickness-tunable magnetic order. <i>Nature Materials</i> , 2021, 20, 818-825. | 13.3 | 206 |
| 9 | High- κ oxide nanoribbons as gate dielectrics for high mobility top-gated graphene transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6711-6715. | 3.3 | 187 |
| 10 | Plasmon-driven reaction controlled by the number of graphene layers and localized surface plasmon distribution during optical excitation. <i>Light: Science and Applications</i> , 2015, 4, e342-e342. | 7.7 | 178 |
| 11 | From Copper Nanocrystalline to CuO Nanoneedle Array: Synthesis, Growth Mechanism, and Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5050-5056. | 1.5 | 173 |
| 12 | Sub-100 nm Channel Length Graphene Transistors. <i>Nano Letters</i> , 2010, 10, 3952-3956. | 4.5 | 167 |
| 13 | Top-Gated Graphene Nanoribbon Transistors with Ultrathin High- κ Dielectrics. <i>Nano Letters</i> , 2010, 10, 1917-1921. | 4.5 | 160 |
| 14 | Doping-free complementary WSe ₂ circuit via van der Waals metal integration. <i>Nature Communications</i> , 2020, 11, 1866. | 5.8 | 153 |
| 15 | Confining Cation Injection to Enhance CBRAM Performance by Nanopore Graphene Layer. <i>Small</i> , 2017, 13, 1603948. | 5.2 | 147 |
| 16 | Transferred van der Waals metal electrodes for sub-1-nm MoS ₂ vertical transistors. <i>Nature Electronics</i> , 2021, 4, 342-347. | 13.1 | 140 |
| 17 | Recent Progress on Electrical and Optical Manipulations of Perovskite Photodetectors. <i>Advanced Science</i> , 2021, 8, e2100569. | 5.6 | 118 |
| 18 | Direct Vapor Growth of Perovskite CsPbBr ₃ Nanoplate Electroluminescence Devices. <i>ACS Nano</i> , 2017, 11, 9869-9876. | 7.3 | 117 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Ultrafine Graphene Nanomesh with Large On/Off Ratio for High-Performance Flexible Biosensors. <i>Advanced Functional Materials</i> , 2017, 27, 1604096. | 7.8 | 111 |
| 20 | Enhancing Performance of a GaAs/AlGaAs/GaAs Nanowire Photodetector Based on the Two-Dimensional Electron-Hole Tube Structure. <i>Nano Letters</i> , 2020, 20, 2654-2659. | 4.5 | 106 |
| 21 | Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films. <i>Nature Communications</i> , 2017, 8, 15549. | 5.8 | 104 |
| 22 | High-Performance Near-Infrared Photodetectors Based on p-Type SnX (X = S, Se) Nanowires Grown via Chemical Vapor Deposition. <i>ACS Nano</i> , 2018, 12, 7239-7245. | 7.3 | 101 |
| 23 | 200 GHz Maximum Oscillation Frequency in CVD Graphene Radio Frequency Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25645-25649. | 4.0 | 97 |
| 24 | Multiwall Boron Carbonitride/Carbon Nanotube Junction and Its Rectification Behavior. <i>Journal of the American Chemical Society</i> , 2007, 129, 9562-9563. | 6.6 | 93 |
| 25 | Flexible Quasi-2D Perovskite/IGZO Phototransistors for Ultrasensitive and Broadband Photodetection. <i>Advanced Materials</i> , 2020, 32, e1907527. | 11.1 | 88 |
| 26 | Single-layer graphene on Al ₂ O ₃ /Si substrate: better contrast and higher performance of graphene transistors. <i>Nanotechnology</i> , 2010, 21, 015705. | 1.3 | 87 |
| 27 | MoS ₂ Negative-Capacitance Field-Effect Transistors with Subthreshold Swing below the Physics Limit. <i>Advanced Materials</i> , 2018, 30, e1800932. | 11.1 | 87 |
| 28 | Perovskite/Black Phosphorus/MoS ₂ Photogate Reversed Photodiodes with Ultrahigh Light On/Off Ratio and Fast Response. <i>ACS Nano</i> , 2019, 13, 4804-4813. | 7.3 | 81 |
| 29 | Two-dimensional negative capacitance transistor with polyvinylidene fluoride-based ferroelectric polymer gating. <i>Npj 2D Materials and Applications</i> , 2017, 1, . | 3.9 | 77 |
| 30 | Integration of High-k Oxide on MoS ₂ by Using Ozone Pretreatment for High-Performance MoS ₂ Top-Gated Transistor with Thickness-Dependent Carrier Scattering Investigation. <i>Small</i> , 2015, 11, 5932-5938. | 5.2 | 74 |
| 31 | Dependence of Ion-Implant-Induced LBIC Novel Characteristic on Excitation Intensity for Long-Wavelength HgCdTe-Based Photovoltaic Infrared Detector Pixel Arrays. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 1-7. | 1.9 | 64 |
| 32 | Coaxial-Structured Weavable and Wearable Electroluminescent Fibers. <i>Advanced Electronic Materials</i> , 2017, 3, 1700401. | 2.6 | 63 |
| 33 | Rational design of Al ₂ O ₃ /2D perovskite heterostructure dielectric for high performance MoS ₂ phototransistors. <i>Nature Communications</i> , 2020, 11, 4266. | 5.8 | 59 |
| 34 | High-Resolution Tracking Asymmetric Lithium Insertion and Extraction and Local Structure Ordering in SnS ₂ . <i>Nano Letters</i> , 2016, 16, 5582-5588. | 4.5 | 58 |
| 35 | Next-generation machine vision systems incorporating two-dimensional materials: Progress and perspectives. <i>Informa-Materials</i> , 2022, 4, . | 8.5 | 58 |
| 36 | Highly Flexible and Bright Electroluminescent Devices Based on Ag Nanowire Electrodes and Top-Emission Structure. <i>Advanced Electronic Materials</i> , 2017, 3, 1600535. | 2.6 | 54 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Recent Advances in Low-Dimensional Heterojunction-Based Tunnel Field Effect Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1800569. | 2.6 | 53 |
| 38 | Down-Scalable and Ultra-fast Memristors with Ultra-high Density Three-Dimensional Arrays of Perovskite Quantum Wires. <i>Nano Letters</i> , 2021, 21, 5036-5044. | 4.5 | 53 |
| 39 | Ferroelectric polymer tuned two dimensional layered MoTe ₂ photodetector. <i>RSC Advances</i> , 2016, 6, 87416-87421. | 1.7 | 51 |
| 40 | Broadband photodetection of 2D Bi ₂ O ₂ Se/MoSe ₂ heterostructure. <i>Journal of Materials Science</i> , 2019, 54, 14742-14751. | 1.7 | 46 |
| 41 | Vapor phase growth of two-dimensional PdSe ₂ nanosheets for high-photoresponsivity near-infrared photodetectors. <i>Nano Research</i> , 2020, 13, 2091-2097. | 5.8 | 44 |
| 42 | Defect Self-Compensation for High-Mobility Bilayer InGaZnO/In ₂ O ₃ Thin-Film Transistor. <i>Advanced Electronic Materials</i> , 2019, 5, 1900125. | 2.6 | 43 |
| 43 | Photoresponse improvement of mixed-dimensional 1D-2D GaAs photodetectors by incorporating constructive interface states. <i>Nanoscale</i> , 2021, 13, 1086-1092. | 2.8 | 43 |
| 44 | High on/off ratio black phosphorus based memristor with ultra-thin phosphorus oxide layer. <i>Applied Physics Letters</i> , 2019, 115, . | 1.5 | 42 |
| 45 | Large-area, well-ordered, uniform-sized bowtie nanoantenna arrays for surface enhanced Raman scattering substrate with ultra-sensitive detection. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 39 |
| 46 | Impact of Thickness on Contact Issues for Pinning Effect in Black Phosphorus Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1801398. | 7.8 | 39 |
| 47 | Enhanced Reliability of InGaZnO Thin-Film Transistors Through Design of Dual Passivation Layers. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2844-2849. | 1.6 | 38 |
| 48 | Transferred metal gate to 2D semiconductors for sub-1 V operation and near ideal subthreshold slope. <i>Science Advances</i> , 2021, 7, eabf8744. | 4.7 | 37 |
| 49 | High performance top-gated ferroelectric field effect transistors based on two-dimensional ZnO nanosheets. <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 34 |
| 50 | Improved performance of HgCdTe infrared detector focal plane arrays by modulating light field based on photonic crystal structure. <i>Journal of Applied Physics</i> , 2014, 115, . | 1.1 | 33 |
| 51 | Polarization-Resolved Broadband MoS ₂ /Black Phosphorus/MoS ₂ Optoelectronic Memory with Ultralong Retention Time and Ultrahigh Switching Ratio. <i>Advanced Functional Materials</i> , 2021, 31, 2100781. | 7.8 | 33 |
| 52 | Atomic mechanism of strong interactions at the graphene/sapphire interface. <i>Nature Communications</i> , 2019, 10, 5013. | 5.8 | 31 |
| 53 | Manganese(II) enhanced fluorescent nitrogen-doped graphene quantum dots: a facile and efficient synthesis and their applications for bioimaging and detection of Hg ²⁺ ions. <i>RSC Advances</i> , 2018, 8, 5902-5911. | 1.7 | 30 |
| 54 | Doping High-Mobility Donor-Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2020, 6, 1900945. | 2.6 | 30 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | The photovoltaic and photoconductive photodetector based on GeSe/2D semiconductor van der Waals heterostructure. Applied Physics Letters, 2020, 116, . | 1.5 | 30 |
| 56 | Interface Engineering via MoS ₂ Insertion Layer for Improving Resistive Switching of Conductive Bridging Random Access Memory. Advanced Electronic Materials, 2019, 5, 1800747. | 2.6 | 29 |
| 57 | Reconfigurable electronics by disassembling and reassembling van der Waals heterostructures. Nature Communications, 2021, 12, 1825. | 5.8 | 29 |
| 58 | Understanding hydrogen and nitrogen doping on active defects in amorphous In-Ga-Zn-O thin film transistors. Applied Physics Letters, 2018, 112, . | 1.5 | 28 |
| 59 | Design of Highly Stable Tungsten-Doped IZO Thin-Film Transistors With Enhanced Performance. IEEE Transactions on Electron Devices, 2018, 65, 1018-1022. | 1.6 | 26 |
| 60 | An Electrically Controlled Wavelength-Tunable Nanoribbon Laser. ACS Nano, 2020, 14, 3397-3404. | 7.3 | 26 |
| 61 | Strain-Plasmonic Coupled Broadband Photodetector Based on Monolayer MoS ₂ . Small, 2022, 18, e2107104. | 5.2 | 25 |
| 62 | Improving Charge Mobility of Polymer Transistors by Judicious Choice of the Molecular Weight of Insulating Polymer Additive. Journal of Physical Chemistry C, 2016, 120, 17282-17289. | 1.5 | 24 |
| 63 | A high energy output nanogenerator based on reduced graphene oxide. Nanoscale, 2015, 7, 18147-18151. | 2.8 | 23 |
| 64 | Strain Effect Enhanced Ultrasensitive MoS ₂ Nanoscroll Avalanche Photodetector. Journal of Physical Chemistry Letters, 2020, 11, 4490-4497. | 2.1 | 23 |
| 65 | Possible Luttinger liquid behavior of edge transport in monolayer transition metal dichalcogenide crystals. Nature Communications, 2020, 11, 659. | 5.8 | 23 |
| 66 | Simultaneous Surface Display and Holography Enabled by Flat Liquid Crystal Elements. Laser and Photonics Reviews, 2022, 16, . | 4.4 | 23 |
| 67 | High-Mobility Solution-Processed Amorphous Indium Zinc In_2O_3 Nanocrystal Hybrid Thin-Film Transistor. IEEE Electron Device Letters, 2013, 34, 72-74. | 2.2 | 22 |
| 68 | Micro-Nanosized Nontraditional Evaporated Structures Based on Closely Packed Monolayer Binary Colloidal Crystals and Their Fine Structure Enhanced Properties. Journal of Physical Chemistry C, 2014, 118, 20521-20528. | 1.5 | 22 |
| 69 | Positive Shift in Threshold Voltage Induced by CuO and NiO Gate in AlGaIn/GaN HEMTs. IEEE Transactions on Electron Devices, 2017, 64, 3139-3144. | 1.6 | 22 |
| 70 | Effect of Backbone Fluorine and Chlorine Substitution on Charge Transport Properties of Naphthalenediimide-Based Polymer Semiconductors. Advanced Electronic Materials, 2020, 6, 1901241. | 2.6 | 21 |
| 71 | Dry Exfoliation of Large-Area 2D Monolayer and Heterostructure Arrays. ACS Nano, 2021, 15, 13839-13846. | 7.3 | 21 |
| 72 | Modulating the threshold voltage of oxide nanowire field-effect transistors by a Ga ⁺ ion beam. Nano Research, 2014, 7, 1691-1698. | 5.8 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Efficient Gate Modulation in a Screening-Engineered MoS ₂ /Single-Walled Carbon Nanotube Network Heterojunction Vertical Field-Effect Transistor. ACS Applied Materials & Interfaces, 2019, 11, 25516-25523. | 4.0 | 20 |
| 74 | Van der Waals epitaxy of ultrathin crystalline PbTe nanosheets with high near-infrared photoelectric response. Nano Research, 2021, 14, 1955-1960. | 5.8 | 19 |
| 75 | Schottky-Contacted High-Performance GaSb Nanowires Photodetectors Enabled by Lead-Free All-Inorganic Perovskites Decoration. Small, 2022, 18, e2200415. | 5.2 | 19 |
| 76 | Toward Unusual High Hole Mobility of p-Channel Field-Effect Transistors. Small, 2021, 17, 2102323. | 5.2 | 18 |
| 77 | High mobility amorphous InGaZnO thin film transistor with single wall carbon nanotubes enhanced-current path. Applied Physics Letters, 2013, 103, 223108. | 1.5 | 17 |
| 78 | Microfluidic solution-processed organic and perovskite nanowires fabricated for field-effect transistors and photodetectors. Journal of Materials Chemistry C, 2020, 8, 2353-2362. | 2.7 | 17 |
| 79 | Amorphous B-doped graphitic carbon nitride quantum dots with high photoluminescence quantum yield of near 90% and their sensitive detection of Fe ²⁺ /Cd ²⁺ . Science China Materials, 2021, 64, 3037-3050. | 3.5 | 17 |
| 80 | Impact of hydrogen dopant incorporation on InGaZnO, ZnO and In ₂ O ₃ thin film transistors. Physical Chemistry Chemical Physics, 2020, 22, 1591-1597. | 1.3 | 16 |
| 81 | Realization of Ultra-Scaled MoS ₂ Vertical Diodes via Double-Side Electrodes Lamination. Nano Letters, 2022, 22, 4429-4436. | 4.5 | 16 |
| 82 | Pulsed Laser Deposition Assisted van der Waals Epitaxial Large Area Quasi-2D ZnO Single-Crystal Plates on Fluorophlogopite Mica. Advanced Materials Interfaces, 2019, 6, 1901156. | 1.9 | 15 |
| 83 | Solution-Processed CsPbBr ₃ Quantum Dots/Organic Semiconductor Planar Heterojunctions for High-Performance Photodetectors. Advanced Science, 2022, 9, e2105856. | 5.6 | 15 |
| 84 | Doping of Sn-based two-dimensional perovskite semiconductor for high-performance field-effect transistors and thermoelectric devices. IScience, 2022, 25, 104109. | 1.9 | 15 |
| 85 | Hollow MgO Nanotube Arrays by Using ZnO Nanorods as Templates. European Journal of Inorganic Chemistry, 2008, 2008, 2727-2732. | 1.0 | 14 |
| 86 | High-throughput isolation of fetal nucleated red blood cells by multifunctional microsphere-assisted inertial microfluidics. Biomedical Microdevices, 2020, 22, 75. | 1.4 | 14 |
| 87 | High Voltage Gain WSe ₂ Complementary Compact Inverter With Buried Gate for Local Doping. IEEE Electron Device Letters, 2020, 41, 944-947. | 2.2 | 14 |
| 88 | Ultra-Steep-Slope High-Gain MoS ₂ Transistors with Atomic Threshold-Switching Gate. Advanced Science, 2022, 9, e2104439. | 5.6 | 14 |
| 89 | High-Resolution Van der Waals Stencil Lithography for 2D Transistors. Small, 2021, 17, e2101209. | 5.2 | 13 |
| 90 | Ultimate dielectric scaling of 2D transistors via van der Waals metal integration. Nano Research, 2022, 15, 1603-1608. | 5.8 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Schottky-Contacted WSe ₂ Hot-Electron Photodetectors with Fast Response and High Sensitivity. ACS Photonics, 2022, 9, 132-137. | 3.2 | 13 |
| 92 | InGaZnO Tunnel and Junction Transistors Based on Vertically Stacked Black Phosphorus/InGaZnO Heterojunctions. Advanced Electronic Materials, 2020, 6, 2000291. | 2.6 | 11 |
| 93 | Tuning the Electrical Performance of 2D Perovskite Field-Effect Transistors by Forming Organic Semiconductor/Perovskite van der Waals Heterojunctions. Advanced Electronic Materials, 2022, 8, . | 2.6 | 10 |
| 94 | Promoting the optoelectronic and ferromagnetic properties of Cr ₂ S ₃ nanosheets via Se doping. Science China: Physics, Mechanics and Astronomy, 2022, 65, . | 2.0 | 10 |
| 95 | Nanowires: Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8232-8232. | 11.1 | 9 |
| 96 | Hysteresis-free MoS ₂ metal semiconductor field-effect transistors with van der Waals Schottky junction. Nanotechnology, 2021, 32, 135201. | 1.3 | 9 |
| 97 | Synergistic effect of V/N codoping by ion implantation on the electronic and optical properties of TiO ₂ . Journal of Applied Physics, 2014, 115, 143106. | 1.1 | 8 |
| 98 | Photodetectors: Ultrasensitive and Broadband MoS ₂ Photodetector Driven by Ferroelectrics (Adv. Mater. 42/2015). Advanced Materials, 2015, 27, 6538-6538. | 11.1 | 8 |
| 99 | Prediction of Stable and High-Performance Charge Transport in Zigzag Tellurene Nanoribbons. IEEE Transactions on Electron Devices, 2019, 66, 2365-2369. | 1.6 | 8 |
| 100 | Tunable Electrical Properties in High-Valent Transition-Metal-Doped ZnO Thin-Film Transistors. IEEE Electron Device Letters, 2014, 35, 759-761. | 2.2 | 7 |
| 101 | Black phosphorus field effect transistors stable in harsh conditions via surface engineering. Applied Physics Letters, 2020, 117, . | 1.5 | 7 |
| 102 | Ladder-like metal oxide nanowires: Synthesis, electrical transport, and enhanced light absorption properties. Nano Research, 2014, 7, 272-283. | 5.8 | 6 |
| 103 | Correlation of Molecular Structure and Charge Transport Properties: A Case Study in Naphthalenediimide-Based Copolymer Semiconductors. Advanced Electronic Materials, 2018, 4, 1800203. | 2.6 | 6 |
| 104 | Ultrathin dielectrics for 2D devices. Nature Electronics, 2019, 2, 559-560. | 13.1 | 6 |
| 105 | Themed issue: flexible electronics. Journal of Materials Chemistry C, 2014, 2, 1176. | 2.7 | 5 |
| 106 | MoS ₂ Homojunctions Transistors Enabled by Dimension Tailoring Strategy. Advanced Electronic Materials, 2021, 7, 2100703. | 2.6 | 5 |
| 107 | Electrical Properties in Group IV Elements-Doped ZnO Thin-Film Transistors. Journal of Display Technology, 2015, 11, 670-673. | 1.3 | 4 |
| 108 | Comprehensive insights into effect of van der Waals contact on carbon nanotube network field-effect transistors. Applied Physics Letters, 2019, 115, . | 1.5 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | High-Performance WSe ₂ n-Type Field-Effect Transistors Enabled by InO _x "Damage-Free Doping. IEEE Electron Device Letters, 2021, 42, 1081-1084. | 2.2 | 4 |
| 110 | Directly Grown K _{0.33} WO ₃ Nanosheet Film Electrode for Fast Direct Electron Transfer of Protein. ChemElectroChem, 2014, 1, 463-470. | 1.7 | 3 |
| 111 | Au Nanoarrays: Surface Plasmon-Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays (Small 20/2015). Small, 2015, 11, 2346-2346. | 5.2 | 3 |
| 112 | Triblock copolymer-assisted construction of 20 nm-sized ytterbium-doped TiO ₂ hollow nanostructures for enhanced solar energy utilization efficiency. Science China Chemistry, 2015, 58, 850-857. | 4.2 | 3 |
| 113 | Transparent megahertz circuits from solution-processed composite thin films. Nanoscale, 2016, 8, 7978-7983. | 2.8 | 3 |
| 114 | Low-Power, High-Sensitivity Temperature Sensor Based on Ultrathin SOI Lateral p-i-n Gated Diode. IEEE Transactions on Electron Devices, 2019, 66, 4001-4007. | 1.6 | 3 |
| 115 | Photodetectors: High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios (Small 8/2015). Small, 2015, 11, 890-890. | 5.2 | 2 |
| 116 | Hydrogen Annealing Effect on the Magnetic Properties of ZnCoO/MoS ₂ Hybrid. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1241-1245. | 0.8 | 2 |
| 117 | Electronic Fluctuation of Graphene Nanoribbon MOSFETs Under a Full Quantum Dynamics Framework. IEEE Transactions on Electron Devices, 2021, 68, 1980-1985. | 1.6 | 2 |
| 118 | Non-Linear Output-Conductance Function for Robust Analysis of Two-Dimensional Transistors. IEEE Electron Device Letters, 2021, 42, 94-97. | 2.2 | 2 |
| 119 | Solution-Processed Quantum-Dots Light-Emitting Transistors With Equivalent Efficiency of Light-Emitting Diodes. IEEE Transactions on Electron Devices, 2022, 69, 521-524. | 1.6 | 2 |
| 120 | Interface engineering for high-performance top-gated MoS ₂ field effect transistors. , 2014, , . | | 1 |
| 121 | Comment on "Metal Semiconductor Field-Effect Transistor with MoS ₂ /Conducting NiO _x van der Waals Schottky Interface for Intrinsic High Mobility and Photoswitching Speed". ACS Nano, 2016, 10, 1714-1715. | 7.3 | 1 |
| 122 | Graphene: Confining Cation Injection to Enhance CBRAM Performance by Nanopore Graphene Layer (Small 35/2017). Small, 2017, 13, . | 5.2 | 1 |
| 123 | More than Graphene. Small, 2017, 13, 1702559. | 5.2 | 1 |
| 124 | Origin of low-temperature negative transconductance in multilayer MoS ₂ transistors. Applied Physics Letters, 2021, 119, . | 1.5 | 1 |
| 125 | Fast Response GaAs Photodetector Based on Constructing Electron Transmission Channel. Crystals, 2021, 11, 1160. | 1.0 | 1 |
| 126 | High-Current Omega-Shaped Gated MoS ₂ Transistors. IEEE Transactions on Electron Devices, 2022, 69, 816-819. | 1.6 | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Strain Release Enabled Bandgap Scaling in Ge Nanowire and Tunnel FET Application. IEEE Transactions on Electron Devices, 2022, 69, 4725-4729. | 1.6 | 1 |
| 128 | Heterointegration of Pt/Si/Ag Nanowire Photodiodes and Their Photocatalytic Properties. Advanced Functional Materials, 2010, 20, n/a-n/a. | 7.8 | 0 |
| 129 | Research on vibration serviceability of the nonlinear tractor suspension system. , 2011, , . | | 0 |
| 130 | 51.4: <i>Invited Paper</i>: High Performance Flexible TFTs from Oxide/Carbon Heterostructures. Digest of Technical Papers SID International Symposium, 2015, 46, 775-777. | 0.1 | 0 |
| 131 | High-Performance MoS2 Field Effect Transistors. , 2018, , . | | 0 |
| 132 | 15.3: Defect Engineering in <i>n</i>-Type Oxide Semiconductor TFTs. Digest of Technical Papers SID International Symposium, 2021, 52, 101-101. | 0.1 | 0 |
| 133 | 29.3: Invited Paper: Defect Engineering in n-Type Oxide Semiconductor TFTs. Digest of Technical Papers SID International Symposium, 2021, 52, 400-400. | 0.1 | 0 |