

Lian-Mao Peng

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.

614
papers

31,431
citations

85
h-index

155
g-index

637
ext. papers

35,534
ext. citations

9.8
avg, IF

7.31
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 614 | Intrinsic Wettability in Pristine Graphene (Adv. Mater. 6/2022). <i>Advanced Materials</i> , 2022 , 34, 2270050 | 24 | 0 |
| 613 | Vertical Graphene-Reinforced Titanium Alloy Bipolar Plates in Fuel Cells.. <i>Advanced Materials</i> , 2022 , e2110565 | 24 | 2 |
| 612 | Slip-line-guided Growth of Graphene.. <i>Advanced Materials</i> , 2022 , e2201188 | 24 | 1 |
| 611 | Hydrophilic, Clean Graphene for Cell Culture and Cryo-EM Imaging. <i>Nano Letters</i> , 2021 , 21, 9587-9593 | 11.5 | 1 |
| 610 | Intrinsic Wettability in Pristine Graphene. <i>Advanced Materials</i> , 2021 , e2103620 | 24 | 9 |
| 609 | Charge Transfer Properties of Heterostructures Formed by Bi O Se and Transition Metal Dichalcogenide Monolayers. <i>Small</i> , 2021 , e2106078 | 11 | 2 |
| 608 | Temperature dependence of quantum oscillations from non-parabolic dispersions. <i>Nature Communications</i> , 2021 , 12, 6213 | 17.4 | 1 |
| 607 | Unravelling a Zigzag Pathway for Hot Carrier Collection with Graphene Electrode. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2886-2891 | 6.4 | 0 |
| 606 | Broadband Photodetectors: Broadband Bi2O2Se Photodetectors from Infrared to Terahertz (Adv. Funct. Mater. 14/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170093 | 15.6 | 3 |
| 605 | Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. <i>Nature Communications</i> , 2021 , 12, 2391 | 17.4 | 31 |
| 604 | Highly Temperature-Stable Carbon Nanotube Transistors and Gigahertz Integrated Circuits for Cryogenic Electronics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100202 | 6.4 | 7 |
| 603 | Host-Guest Molecular Interaction Enabled Separation of Large-Diameter Semiconducting Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10120-10130 | 16.4 | 9 |
| 602 | Tunable Pore Size from Sub-Nanometer to a Few Nanometers in Large-Area Graphene Nanoporous Atomically Thin Membranes. <i>ACS Applied Materials & Interfaces</i> , 2021 , | 9.5 | 2 |
| 601 | Radiofrequency transistors based on aligned carbon nanotube arrays. <i>Nature Electronics</i> , 2021 , 4, 405-418 | 18.4 | 19 |
| 600 | Hot-Carrier Cooling in High-Quality Graphene Is Intrinsically Limited by Optical Phonons. <i>ACS Nano</i> , 2021 , | 16.7 | 8 |
| 599 | High-yield and low-cost separation of high-purity semiconducting single-walled carbon nanotubes with closed-loop recycling of raw materials and solvents. <i>Nano Research</i> , 2021 , 14, 4281 | 10 | 3 |
| 598 | Suppression of leakage current in carbon nanotube field-effect transistors. <i>Nano Research</i> , 2021 , 14, 976-981 | 10 | 10 |

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| 597 | CNTFET Technology for RF Applications: Review and Future Perspective. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 275-287 | | 4 |
| 596 | Monochromatic Carbon Nanotube Tangles Grown by Microfluidic Switching between Chaos and Fractals. <i>ACS Nano</i> , 2021 , 15, 5129-5137 | 16.7 | 2 |
| 595 | 2D Bi ₂ O ₂ Se: An Emerging Material Platform for the Next-Generation Electronic Industry. <i>Accounts of Materials Research</i> , 2021 , 2, 842-853 | 7.5 | 5 |
| 594 | Carbon Nanotube Based Radio Frequency Transistors for K-Band Amplifiers. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 37475-37482 | 9.5 | 2 |
| 593 | Atomically Thin Bilayer Janus Membranes for Cryo-electron Microscopy. <i>ACS Nano</i> , 2021 , 15, 16562-16571 | 16.7 | 2 |
| 592 | Analyzing Gamma-Ray Irradiation Effects on Carbon Nanotube Top-Gated Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47756-47763 | 9.5 | 6 |
| 591 | Broadband Bi ₂ O ₂ Se Photodetectors from Infrared to Terahertz. <i>Advanced Functional Materials</i> , 2021 , 31, 2009554 | 15.6 | 26 |
| 590 | The effect of localized strain on the electrical characteristics of curved carbon nanotubes. <i>Journal of Applied Physics</i> , 2021 , 129, 025107 | 2.5 | 2 |
| 589 | Toward Epitaxial Growth of Misorientation-Free Graphene on Cu(111) Foils.. <i>ACS Nano</i> , 2021 , | 16.7 | 4 |
| 588 | Silicon-Waveguide-Integrated Carbon Nanotube Optoelectronic System on a Single Chip. <i>ACS Nano</i> , 2020 , 14, 7191-7199 | 16.7 | 13 |
| 587 | Quality metrology of carbon nanotube thin films and its application for carbon nanotube-based electronics. <i>Nano Research</i> , 2020 , 13, 1749-1755 | 10 | 10 |
| 586 | Aligned, high-density semiconducting carbon nanotube arrays for high-performance electronics. <i>Science</i> , 2020 , 368, 850-856 | 33.3 | 136 |
| 585 | Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17214-17218 | 16.4 | 16 |
| 584 | Wafer-Scale Uniform Carbon Nanotube Transistors for Ultrasensitive and Label-Free Detection of Disease Biomarkers. <i>ACS Nano</i> , 2020 , 14, 8866-8874 | 16.7 | 42 |
| 583 | Superclean Growth of Graphene Using a Cold-Wall Chemical Vapor Deposition Approach. <i>Angewandte Chemie</i> , 2020 , 132, 17367-17371 | 3.6 | 1 |
| 582 | n-Type Dirac-Source Field-Effect Transistors Based on a Graphene/Carbon Nanotube Heterojunction. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000258 | 6.4 | 6 |
| 581 | Large Single-Crystal Cu Foils with High-Index Facets by Strain-Engineered Anomalous Grain Growth. <i>Advanced Materials</i> , 2020 , 32, e2002034 | 24 | 28 |
| 580 | Exploiting Two-Dimensional Bi O Se for Trace Oxygen Detection. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17938-17943 | 16.4 | 14 |

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| 579 | Unveiling the Fine Structural Distortion of Atomically Thin Bi O Se by Third-Harmonic Generation. <i>Advanced Materials</i> , 2020 , 32, e2002831 | 24 | 5 |
| 578 | Quantitative Analyses of the Interfacial Properties of Current Collectors at the Mesoscopic Level in Lithium Ion Batteries by Using Hierarchical Graphene. <i>Nano Letters</i> , 2020 , 20, 2175-2182 | 11.5 | 12 |
| 577 | Utilization of Synergistic Effect of Dimension-Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. <i>Advanced Materials Technologies</i> , 2020 , 5, 1901057 | 6.8 | 2 |
| 576 | Interlayer Decoupling in 30° Twisted Bilayer Graphene Quasicrystal. <i>ACS Nano</i> , 2020 , 14, 1656-1664 | 16.7 | 31 |
| 575 | High-Mobility Flexible Oxyselenide Thin-Film Transistors Prepared by a Solution-Assisted Method. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2726-2731 | 16.4 | 25 |
| 574 | Robust ultraclean atomically thin membranes for atomic-resolution electron microscopy. <i>Nature Communications</i> , 2020 , 11, 541 | 17.4 | 21 |
| 573 | Transport signatures of relativistic quantum scars in a graphene cavity. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 2 |
| 572 | Catalyst-Free Synthesis of Few-Layer Graphdiyne Using a Microwave-Induced Temperature Gradient at a Solid/Liquid Interface. <i>Advanced Functional Materials</i> , 2020 , 30, 2001396 | 15.6 | 28 |
| 571 | Transconductance Amplification in Dirac-Source Field-Effect Transistors Enabled by Graphene/Nanotube Hereojunctions. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901289 | 6.4 | 2 |
| 570 | Vertical graphene nanosheetsmodified Al current collectors for high-performance sodium-ion batteries. <i>Nano Research</i> , 2020 , 13, 1948-1954 | 10 | 14 |
| 569 | Sub-10mK-Resolution Thermal-Bolometric Integrated FET-Type Sensors Based on Layered Bi2O2Se Semiconductor Nanosheets 2020 , | | 1 |
| 568 | Understanding Interlayer Contact Conductance in Twisted Bilayer Graphene. <i>Small</i> , 2020 , 16, e1902844 | 11 | 13 |
| 567 | Optical Properties and Photocarrier Dynamics of Bi2O2Se Monolayer and Nanoplates. <i>Advanced Optical Materials</i> , 2020 , 8, 1901567 | 8.1 | 10 |
| 566 | Drain-engineered carbon-nanotube-film field-effect transistors with high performance and ultra-low current leakage. <i>Nano Research</i> , 2020 , 13, 1875-1881 | 10 | 9 |
| 565 | Graphene Acoustic Phonon-Mediated Pseudo-Landau Levels Tailoring Probed by Scanning Tunneling Spectroscopy. <i>Small</i> , 2020 , 16, e1905202 | 11 | 2 |
| 564 | Flexible Integrated Circuits Based on Carbon Nanotubes. <i>Accounts of Materials Research</i> , 2020 , 1, 88-99 | 7.5 | 8 |
| 563 | Interlayer Binding Energy of Hexagonal MoS2 as Determined by an In Situ Peeling-to-Fracture Method. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23419-23425 | 3.8 | 8 |
| 562 | Ultrasensitive Magnetic Sensors Enabled by Heterogeneous Integration of Graphene Hall Elements and Silicon Processing Circuits. <i>ACS Nano</i> , 2020 , | 16.7 | 5 |

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|-----|--|------|-----|
| 561 | Growth of Ultraflat Graphene with Greatly Enhanced Mechanical Properties. <i>Nano Letters</i> , 2020 , 20, 6798-6806 | 16.7 | 8 |
| 560 | A native oxide high- κ gate dielectric for two-dimensional electronics. <i>Nature Electronics</i> , 2020 , 3, 473-478 | 28.4 | 58 |
| 559 | Strengthened Complementary Metal-Oxide-Semiconductor Logic for Small-Band-Gap Semiconductor-Based High-Performance and Low-Power Application. <i>ACS Nano</i> , 2020 , 14, 15267-15275 | 16.7 | 8 |
| 558 | Uniform High- κ Amorphous Native Oxide Synthesized by Oxygen Plasma for Top-Gated Transistors. <i>Nano Letters</i> , 2020 , 20, 7469-7475 | 11.5 | 14 |
| 557 | New Growth Frontier: Superclean Graphene. <i>ACS Nano</i> , 2020 , 14, 10796-10803 | 16.7 | 19 |
| 556 | Radiation-hardened and repairable integrated circuits based on carbon nanotube transistors with ion gel gates. <i>Nature Electronics</i> , 2020 , 3, 622-629 | 28.4 | 28 |
| 555 | Controlled Growth of Single-Crystal Graphene Films. <i>Advanced Materials</i> , 2020 , 32, e1903266 | 24 | 58 |
| 554 | A Force-Engineered Lint Roller for Superclean Graphene. <i>Advanced Materials</i> , 2019 , 31, e1902978 | 24 | 31 |
| 553 | A Single-Electron Transistor Made of a 3D Topological Insulator Nanoplate. <i>Advanced Materials</i> , 2019 , 31, e1903686 | 24 | 5 |
| 552 | Insight Into Ballisticity of Room-Temperature Carrier Transport in Carbon Nanotube Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2019 , 66, 3535-3540 | 2.9 | 13 |
| 551 | High-performance sub-10 nm monolayer BiOSe transistors. <i>Nanoscale</i> , 2019 , 11, 532-540 | 7.7 | 128 |
| 550 | Carbon Nanotube Complementary Gigahertz Integrated Circuits and Their Applications on Wireless Sensor Interface Systems. <i>ACS Nano</i> , 2019 , 13, 2526-2535 | 16.7 | 31 |
| 549 | Exploring the Performance Limit of Carbon Nanotube Network Film Field-Effect Transistors for Digital Integrated Circuit Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1808574 | 15.6 | 29 |
| 548 | Asymmetry allows photocurrent in intrinsic graphene. <i>Nature Nanotechnology</i> , 2019 , 14, 105-106 | 28.7 | 7 |
| 547 | Speeding up carbon nanotube integrated circuits through three-dimensional architecture. <i>Nano Research</i> , 2019 , 12, 1810-1816 | 10 | 11 |
| 546 | Growth of 12-inch uniform monolayer graphene film on molten glass and its application in PbI ₂ -based photodetector. <i>Nano Research</i> , 2019 , 12, 1888-1893 | 10 | 6 |
| 545 | Dirac-cone induced gating enhancement in single-molecule field-effect transistors. <i>Nanoscale</i> , 2019 , 11, 13117-13125 | 7.7 | 8 |
| 544 | Advances in High-Performance Carbon-Nanotube Thin-Film Electronics. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900122 | 6.4 | 20 |

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| 543 | High-Performance and Radiation-Hard Carbon Nanotube Complementary Static Random-Access Memory. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900313 | 6.4 | 16 |
| 542 | Synthesis challenges for graphene industry. <i>Nature Materials</i> , 2019 , 18, 520-524 | 27 | 217 |
| 541 | Tunable, Ultrasensitive, and Flexible Pressure Sensors Based on Wrinkled Microstructures for Electronic Skins. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21218-21226 | 9.5 | 74 |
| 540 | Towards super-clean graphene. <i>Nature Communications</i> , 2019 , 10, 1912 | 17.4 | 89 |
| 539 | Copper-Containing Carbon Feedstock for Growing Superclean Graphene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7670-7674 | 16.4 | 30 |
| 538 | Thin Film FETs: Exploring the Performance Limit of Carbon Nanotube Network Film Field-Effect Transistors for Digital Integrated Circuit Applications (Adv. Funct. Mater. 16/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970106 | 15.6 | |
| 537 | Wafer-Scale Growth of Single-Crystal 2D Semiconductor on Perovskite Oxides for High-Performance Transistors. <i>Nano Letters</i> , 2019 , 19, 2148-2153 | 11.5 | 52 |
| 536 | Improving the Performance and Uniformity of Carbon-Nanotube-Network-Based Photodiodes via Yttrium Oxide Coating and Decoating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11736-11742 | 9.5 | 14 |
| 535 | Molecular Beam Epitaxy and Electronic Structure of Atomically Thin Oxyselenide Films. <i>Advanced Materials</i> , 2019 , 31, e1901964 | 24 | 29 |
| 534 | Exploitation of Bi ₂ O ₂ Se/graphene van der Waals heterojunction for creating efficient photodetectors and short-channel field-effect transistors. <i>Information Materials</i> , 2019 , 1, 390-395 | 23.1 | 24 |
| 533 | Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. <i>Science Advances</i> , 2019 , 5, eaaw8337 | 14.3 | 39 |
| 532 | Macroscale single crystal graphene templated directional alignment of liquid-crystal microlens array for light field imaging. <i>Applied Physics Letters</i> , 2019 , 115, 071903 | 3.4 | 3 |
| 531 | Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14446-14451 | 16.4 | 43 |
| 530 | Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie</i> , 2019 , 131, 14588-14593 | 3.6 | 2 |
| 529 | Light-Enhanced Ion Migration in Two-Dimensional Perovskite Single Crystals Revealed in Carbon Nanotubes/Two-Dimensional Perovskite Heterostructure and Its Photomemory Application. <i>ACS Central Science</i> , 2019 , 5, 1857-1865 | 16.8 | 23 |
| 528 | Carbon Nanotube Film-Based Radio Frequency Transistors with Maximum Oscillation Frequency above 100 GHz. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 42496-42503 | 9.5 | 23 |
| 527 | Early Lithium Plating Behavior in Confined Nanospace of 3D Lithiophilic Carbon Matrix for Stable Solid-State Lithium Metal Batteries. <i>Small</i> , 2019 , 15, e1904216 | 11 | 44 |
| 526 | Bolometric Effect in Bi O Se Photodetectors. <i>Small</i> , 2019 , 15, e1904482 | 11 | 39 |

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| 525 | Frontispiece: Large-Area Synthesis of Superclean Graphene via Selective Etching of Amorphous Carbon with Carbon Dioxide. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, | 16.4 | 1 |
| 524 | Photodetectors: Bolometric Effect in Bi ₂ O ₂ Se Photodetectors (Small 43/2019). <i>Small</i> , 2019 , 15, 1970235 | | |
| 523 | Carbon nanotube digital electronics. <i>Nature Electronics</i> , 2019 , 2, 499-505 | 28.4 | 56 |
| 522 | Toward Mass Production of CVD Graphene Films. <i>Advanced Materials</i> , 2019 , 31, e1800996 | 24 | 123 |
| 521 | Carbon nanotube-based photovoltaic receiver with open-circuit voltage larger than 10 V. <i>Nano Energy</i> , 2019 , 57, 241-247 | 17.1 | 3 |
| 520 | Low Residual Carrier Concentration and High Mobility in 2D Semiconducting BiOSe. <i>Nano Letters</i> , 2019 , 19, 197-202 | 11.5 | 56 |
| 519 | Defects guided wrinkling in graphene on copper substrate. <i>Carbon</i> , 2019 , 143, 736-742 | 10.4 | 23 |
| 518 | Truly Concomitant and Independently Expressed Short- and Long-Term Plasticity in a Bi O Se-Based Three-Terminal Memristor. <i>Advanced Materials</i> , 2019 , 31, e1805769 | 24 | 62 |
| 517 | Aligning Solution-Derived Carbon Nanotube Film with Full Surface Coverage for High-Performance Electronics Applications. <i>Advanced Materials</i> , 2018 , 30, e1707068 | 24 | 18 |
| 516 | Continuous adjustment of threshold voltage in carbon nanotube field-effect transistors through gate engineering. <i>Applied Physics Letters</i> , 2018 , 112, 153109 | 3.4 | 15 |
| 515 | Low-power carbon nanotube-based integrated circuits that can be transferred to biological surfaces. <i>Nature Electronics</i> , 2018 , 1, 237-245 | 28.4 | 58 |
| 514 | Revealing the Contribution of Individual Factors to Hydrogen Evolution Reaction Catalytic Activity. <i>Advanced Materials</i> , 2018 , 30, e1706076 | 24 | 54 |
| 513 | Batch Fabrication of Ultrasensitive Carbon Nanotube Hydrogen Sensors with Sub-ppm Detection Limit. <i>ACS Sensors</i> , 2018 , 3, 749-756 | 9.2 | 39 |
| 512 | Large-area and highly uniform carbon nanotube film for high-performance thin film transistors. <i>Nano Research</i> , 2018 , 11, 4356-4367 | 10 | 29 |
| 511 | Charge transport and electron-hole asymmetry in low-mobility graphene/hexagonal boron nitride heterostructures. <i>Journal of Applied Physics</i> , 2018 , 123, 064303 | 2.5 | 1 |
| 510 | High-Performance Carbon Nanotube Complementary Electronics and Integrated Sensor Systems on Ultrathin Plastic Foil. <i>ACS Nano</i> , 2018 , 12, 2773-2779 | 16.7 | 66 |
| 509 | Improving subthreshold swing to thermionic emission limit in carbon nanotube network film-based field-effect. <i>Applied Physics Letters</i> , 2018 , 112, 053102 | 3.4 | 16 |
| 508 | Surprisingly fast cooling in graphene-based van der Waals stacks. <i>Science China Materials</i> , 2018 , 61, 1017-1018 | | 2 |

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| 507 | Performance enhancement of carbon nanotube thin film transistor by yttrium oxide capping. <i>Nanoscale</i> , 2018 , 10, 4202-4208 | 7.7 | 10 |
| 506 | Greatly Enhanced Anticorrosion of Cu by Commensurate Graphene Coating. <i>Advanced Materials</i> , 2018 , 30, 1702944 | 24 | 85 |
| 505 | Switching Vertical to Horizontal Graphene Growth Using Faraday Cage-Assisted PECVD Approach for High-Performance Transparent Heating Device. <i>Advanced Materials</i> , 2018 , 30, 1704839 | 24 | 53 |
| 504 | Scalable Preparation of High-Density Semiconducting Carbon Nanotube Arrays for High-Performance Field-Effect Transistors. <i>ACS Nano</i> , 2018 , 12, 627-634 | 16.7 | 43 |
| 503 | Anisotropic Strain Relaxation of Graphene by Corrugation on Copper Crystal Surfaces. <i>Small</i> , 2018 , 14, e1800725 | 11 | 25 |
| 502 | Carbon nanotube network film-based ring oscillators with sub 10-ns propagation time and their applications in radio-frequency signal transmission. <i>Nano Research</i> , 2018 , 11, 300-310 | 10 | 17 |
| 501 | Low-Temperature Heteroepitaxy of 2D PbI ₂ /Graphene for Large-Area Flexible Photodetectors. <i>Advanced Materials</i> , 2018 , 30, e1803194 | 24 | 61 |
| 500 | Ultrafast and highly sensitive infrared photodetectors based on two-dimensional oxyselenide crystals. <i>Nature Communications</i> , 2018 , 9, 3311 | 17.4 | 135 |
| 499 | Lowering interface state density in carbon nanotube thin film transistors through using stacked Y ₂ O ₃ /HfO ₂ gate dielectric. <i>Applied Physics Letters</i> , 2018 , 113, 083105 | 3.4 | 17 |
| 498 | Dirac-source field-effect transistors as energy-efficient, high-performance electronic switches. <i>Science</i> , 2018 , 361, 387-392 | 33.3 | 146 |
| 497 | Gigahertz integrated circuits based on carbon nanotube films. <i>Nature Electronics</i> , 2018 , 1, 40-45 | 28.4 | 85 |
| 496 | Low-Temperature and Rapid Growth of Large Single-Crystalline Graphene with Ethane. <i>Small</i> , 2018 , 14, 1702916 | 11 | 30 |
| 495 | Investigation of black phosphorus as a nano-optical polarization element by polarized Raman spectroscopy. <i>Nano Research</i> , 2018 , 11, 3154-3163 | 10 | 12 |
| 494 | First Principles Simulation of Energy efficient Switching by Source Density of States Engineering 2018 , | | 11 |
| 493 | Three-dimensional integration of plasmonics and nanoelectronics. <i>Nature Electronics</i> , 2018 , 1, 644-651 | 28.4 | 18 |
| 492 | Diverse Atomically Sharp Interfaces and Linear Dichroism of 1T' ReS ₂ -ReSe ₂ Lateral p-n Heterojunctions. <i>Advanced Functional Materials</i> , 2018 , 28, 1804696 | 15.6 | 35 |
| 491 | Wafer-Scale Fabrication of Ultrathin Flexible Electronic Systems via Capillary-Assisted Electrochemical Delamination. <i>Advanced Materials</i> , 2018 , 30, e1805408 | 24 | 25 |
| 490 | Ultrafast Broadband Charge Collection from Clean Graphene/CHNHPbI ₂ Interface. <i>Journal of the American Chemical Society</i> , 2018 , 140, 14952-14957 | 16.4 | 21 |

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|-----|---|------|-----|
| 489 | Bridging the Gap between Reality and Ideal in Chemical Vapor Deposition Growth of Graphene. <i>Chemical Reviews</i> , 2018 , 118, 9281-9343 | 68.1 | 160 |
| 488 | Electronic structures and unusually robust bandgap in an ultrahigh-mobility layered oxide semiconductor, BiOSe. <i>Science Advances</i> , 2018 , 4, eaat8355 | 14.3 | 103 |
| 487 | Flexible Photodetectors: Low-Temperature Heteroepitaxy of 2D PbI ₂ /Graphene for Large-Area Flexible Photodetectors (Adv. Mater. 36/2018). <i>Advanced Materials</i> , 2018 , 30, 1870271 | 24 | 2 |
| 486 | Controlling the Growth of Single Nanowires in a Nanowire Forest for near-Infrared Photodetection. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3035-3041 | 5.6 | 2 |
| 485 | Dirac Electrons at the Source: Breaking the 60-mV/Decade Switching Limit. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 2736-2743 | 2.9 | 38 |
| 484 | Silicon Oxide Electron-Emitting Nanodiodes. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800136 | 6.4 | 8 |
| 483 | Self-modulation doping effect in the high-mobility layered semiconductor Bi ₂ O ₂ Se. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 45 |
| 482 | Interlayer electrical resistivity of rotated graphene layers studied by in-situ scanning electron microscopy. <i>Ultramicroscopy</i> , 2018 , 193, 90-96 | 3.1 | 3 |
| 481 | Carbon nanotube-based flexible electronics. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7714-7727 | 7.1 | 47 |
| 480 | Kinetically controlled hierarchical self-assemblies of all-trans-retinoic acid on Au(111). <i>Chemical Communications</i> , 2017 , 53, 2252-2255 | 5.8 | 8 |
| 479 | Scaling carbon nanotube complementary transistors to 5-nm gate lengths. <i>Science</i> , 2017 , 355, 271-276 | 33.3 | 364 |
| 478 | Plasmon-Induced Enhancement of Infrared Detection Using a Carbon Nanotube Diode. <i>Advanced Optical Materials</i> , 2017 , 5, 1600865 | 8.1 | 7 |
| 477 | Sensitivity enhancement of graphene Hall sensors modified by single-molecule magnets at room temperature. <i>RSC Advances</i> , 2017 , 7, 1776-1781 | 3.7 | 8 |
| 476 | Microcavity-Controlled Chirality-Sorted Carbon Nanotube Film Infrared Light Emitters. <i>ACS Photonics</i> , 2017 , 4, 435-442 | 6.3 | 11 |
| 475 | Carbon nanotube thin film transistors fabricated by an etching based manufacturing compatible process. <i>Nanoscale</i> , 2017 , 9, 4388-4396 | 7.7 | 10 |
| 474 | Packing fractal Sierpiński triangles into one-dimensional crystals via a templating method. <i>Chemical Communications</i> , 2017 , 53, 3469-3472 | 5.8 | 23 |
| 473 | Epitaxial Growth of Ternary Topological Insulator Bi Te Se 2D Crystals on Mica. <i>Small</i> , 2017 , 13, 1603572 | 11 | 16 |
| 472 | Controlled Synthesis of High-Mobility Atomically Thin Bismuth Oxyselenide Crystals. <i>Nano Letters</i> , 2017 , 17, 3021-3026 | 11.5 | 145 |

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|-----|--|------|-----|
| 471 | A contact study in hole conductor free perovskite solar cells with low temperature processed carbon electrodes. <i>RSC Advances</i> , 2017 , 7, 20732-20737 | 3.7 | 18 |
| 470 | Electrical and Photoresponse Properties of Inversion Asymmetric Topological Insulator BiTeCl Nanoplates. <i>ChemNanoMat</i> , 2017 , 3, 406-410 | 3.5 | 5 |
| 469 | Epitaxial growth of large-area and highly crystalline anisotropic ReSe ₂ atomic layer. <i>Nano Research</i> , 2017 , 10, 2732-2742 | 10 | 47 |
| 468 | Superlubricity between MoS Monolayers. <i>Advanced Materials</i> , 2017 , 29, 1701474 | 24 | 138 |
| 467 | Substrate Doping Effect and Unusually Large Angle van Hove Singularity Evolution in Twisted Bi- and Multilayer Graphene. <i>Advanced Materials</i> , 2017 , 29, 1606741 | 24 | 29 |
| 466 | Clean Transfer of Large Graphene Single Crystals for High-Intactness Suspended Membranes and Liquid Cells. <i>Advanced Materials</i> , 2017 , 29, 1700639 | 24 | 50 |
| 465 | Vertical Graphene Growth on SiO Microparticles for Stable Lithium Ion Battery Anodes. <i>Nano Letters</i> , 2017 , 17, 3681-3687 | 11.5 | 185 |
| 464 | Electron-Hole Symmetry Breaking in Charge Transport in Nitrogen-Doped Graphene. <i>ACS Nano</i> , 2017 , 11, 4641-4650 | 16.7 | 31 |
| 463 | Carbon nanotube radio-frequency electronics. <i>Nanotechnology</i> , 2017 , 28, 212001 | 3.4 | 16 |
| 462 | Formation mechanism of overlapping grain boundaries in graphene chemical vapor deposition growth. <i>Chemical Science</i> , 2017 , 8, 2209-2214 | 9.4 | 31 |
| 461 | Iodine-Mediated Chemical Vapor Deposition Growth of Metastable Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , 2017 , 29, 4641-4644 | 9.6 | 30 |
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