

Kai-Hui Liu

List of Publications by Year in descending order

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250
papers

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20817

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106
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257
all docs

257
docs citations

257
times ranked

16268
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards intrinsically pure graphene grown on copper. Nano Research, 2022, 15, 919-924.	10.4	7
2	Enhanced Hot Carrier Up-Conversion in Graphene By Quantum Dot Coating. Advanced Optical Materials, 2022, 10, 2101563.	7.3	2
3	Cr-Doped Pd Metallene Endows a Practical Formaldehyde Sensor New Limit and High Selectivity. Advanced Materials, 2022, 34, e2105276.	21.0	40
4	Lattice Polarity Manipulation of Quasi-2D Epitaxial GaN Films on Graphene Through Interface Atomic Configuration. Advanced Materials, 2022, 34, e2106814.	21.0	19
5	Efficient helicity control of four-wave mixing in gated graphene. Optics Letters, 2022, 47, 234-237.	3.3	1
6	Non-van der Waals AgCrS ₂ nanosheet: a new member of 2D realm. Science China Chemistry, 2022, 65, 419-420.	8.2	0
7	Dual-coupling-guided epitaxial growth of wafer-scale single-crystal WS ₂ monolayer on vicinal a-plane sapphire. Nature Nanotechnology, 2022, 17, 33-38.	31.5	171
8	Unveiling radial breathing mode in a particle-on-mirror plasmonic nanocavity. Nanophotonics, 2022, 11, 487-494.	6.0	9
9	Engineering of atomic-scale flexoelectricity at grain boundaries. Nature Communications, 2022, 13, 216.	12.8	14
10	Electrically driven motion, destruction, and chirality change of polar vortices in oxide superlattices. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	6
11	Epitaxy of 2D Materials toward Single Crystals. Advanced Science, 2022, 9, e2105201.	11.2	24
12	Anisotropic Carrier Mobility from 2H WSe ₂ . Advanced Materials, 2022, 34, e2108615.	21.0	11
13	Lattice Polarity Manipulation of Quasi-2D Epitaxial GaN Films on Graphene Through Interface Atomic Configuration (Adv. Mater. 5/2022). Advanced Materials, 2022, 34, .	21.0	0
14	Polarization-Driven Orientation Selective Growth of Single-Crystalline III-Nitride Semiconductors on Arbitrary Substrates. Advanced Functional Materials, 2022, 32, .	14.9	6
15	Near-field infrared response of graphene on copper substrate. Frontiers of Physics, 2022, 17, 1.	5.0	1
16	Detecting residual chemical disinfectant using an atomic Co ⁴⁺ -C anchored neuronal-like carbon catalyst modified amperometric sensor. Environmental Science: Nano, 2022, 9, 1759-1769.	4.3	4
17	Enhanced near-field coupling and tunable topological transitions in hyperbolic van der Waals metasurfaces for optical nanomanipulation. Nanoscale, 2022, 14, 7075-7082.	5.6	4
18	Controllable Growth of Graphene Photonic Crystal Fibers with Tunable Optical Nonlinearity. ACS Photonics, 2022, 9, 961-968.	6.6	7

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19	Robust growth of two-dimensional metal dichalcogenides and their alloys by active chalcogen monomer supply. <i>Nature Communications</i> , 2022, 13, 1007.	12.8	42
20	Monitoring the Material Quality of Two-Dimensional Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3797-3810.	3.1	3
21	Silicon Thermo-Optic Switches with Graphene Heaters Operating at Mid-Infrared Waveband. <i>Nanomaterials</i> , 2022, 12, 1083.	4.1	13
22	Engineering Interlayer Electron-Phonon Coupling in WS ₂ /BN Heterostructures. <i>Nano Letters</i> , 2022, 22, 2725-2733.	9.1	7
23	A qPlus-based scanning probe microscope compatible with optical measurements. <i>Review of Scientific Instruments</i> , 2022, 93, 043701.	1.3	0
24	Overall High-Performance Near-Infrared Photodetector Based on CVD-Grown MoTe ₂ and Graphene Vertical vdWs Heterostructure. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 3622.	2.5	3
25	Polarization-Driven Orientation Selective Growth of Single-Crystalline III-Nitride Semiconductors on Arbitrary Substrates (<i>Adv. Funct. Mater.</i> 14/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0
26	Enhanced electrochemical CO ₂ -to-C ₂ ⁺ conversion from synergistic interaction between terrace and step sites on monocrystalline high-index Cu facets. <i>Journal of Energy Chemistry</i> , 2022, 70, 382-387.	12.9	9
27	Extending Absorption of Cs ₂ AgBiBr ₆ to Near-Infrared Region (λ ^o 1350Ånm) with Intermediate Band. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	30
28	Enhanced Photoluminescence of Monolayer MoSe ₂ in a Double Resonant Plasmonic Nanocavity with Fano Resonance and Mode Matching. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	11
29	Oxidizing Hexagonal Boron Nitride into Fluorescent Structures by Photodissociated Directional Oxygen Radical. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3369-3376.	4.6	3
30	Monolayer mosaic heterostructures. <i>Nature Nanotechnology</i> , 2022, 17, 439-440.	31.5	8
31	Layer-by-layer epitaxy of multi-layer MoS ₂ wafers. <i>National Science Review</i> , 2022, 9, .	9.5	41
32	Graphene charge-injection photodetectors. <i>Nature Electronics</i> , 2022, 5, 281-288.	26.0	70
33	The Rise of Graphene Photonic Crystal Fibers. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	6
34	Ultra-Broadband Strong Electromagnetic Interference Shielding with Ferromagnetic Graphene Quartz Fabric. <i>Advanced Materials</i> , 2022, 34, .	21.0	60
35	Strong Second Harmonic Generation from Bilayer Graphene with Symmetry Breaking by Redox-Governed Charge Doping. <i>Nano Letters</i> , 2022, 22, 4287-4293.	9.1	10
36	Visualizing the Anomalous Catalysis in Two-Dimensional Confined Space. <i>Nano Letters</i> , 2022, 22, 4661-4668.	9.1	3

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37	Abnormal anti-oxidation behavior of hexagonal boron nitride grown on copper. <i>Nano Research</i> , 2022, 15, 7577-7583.	10.4	2
38	Graphene-integrated waveguides: Properties, preparation, and applications. <i>Nano Research</i> , 2022, 15, 9704-9726.	10.4	7
39	Progress and perspective on the growth of two-dimensional single crystals. <i>Science Bulletin</i> , 2022, 67, 1410-1412.	9.0	4
40	Compelling Evidence for the μ -Phase InSe Crystal by Oblique Incident Second Harmonic Generation. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	5
41	Correlating the electronic structures of metallic/semiconducting MoTe ₂ interface to its atomic structures. <i>National Science Review</i> , 2021, 8, nwaa087.	9.5	5
42	Gate-tunable linear magnetoresistance in molybdenum disulfide field-effect transistors with graphene insertion layer. <i>Nano Research</i> , 2021, 14, 1814-1818.	10.4	5
43	Product-Specific Active Site Motifs of Cu for Electrochemical CO ₂ Reduction. <i>CheM</i> , 2021, 7, 406-420.	11.7	72
44	Colors of Single-Wall Carbon Nanotubes. <i>Advanced Materials</i> , 2021, 33, e2006395.	21.0	18
45	2D Polarized Materials: Ferromagnetic, Ferrovalley, Ferroelectric Materials, and Related Heterostructures. <i>Advanced Materials</i> , 2021, 33, e2004469.	21.0	45
46	Atomic-scale visualization of metallic lead leak related fine structure in CsPbBr ₃ quantum dots. <i>Nanoscale</i> , 2021, 13, 124-130.	5.6	4
47	Direct observation of highly confined phonon polaritons in suspended monolayer hexagonal boron nitride. <i>Nature Materials</i> , 2021, 20, 43-48.	27.5	84
48	Development of in situ optical spectroscopy with high temporal resolution in an aberration-corrected transmission electron microscope. <i>Review of Scientific Instruments</i> , 2021, 92, 013704.	1.3	5
49	Epitaxial growth mechanisms of single-crystalline GaN on single-crystalline graphene. <i>CrystEngComm</i> , 2021, 23, 5451-5455.	2.6	5
50	Enhanced Hemocompatibility of a Direct Chemical Vapor Deposition-Derived Graphene Film. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4835-4843.	8.0	8
51	Polarized Water Driven Dynamic PN Junction-Based Direct-Current Generator. <i>Research</i> , 2021, 2021, 7505638.	5.7	26
52	Single-mode lasing of CsPbBr ₃ perovskite NWs enabled by the Vernier effect. <i>Nanoscale</i> , 2021, 13, 4432-4438.	5.6	25
53	Carbon Nanotubes: Colors of Single-Wall Carbon Nanotubes (Adv. Mater. 8/2021). <i>Advanced Materials</i> , 2021, 33, 2170060.	21.0	1
54	Modulation of the second-harmonic generation in MoS ₂ by graphene covering*. <i>Chinese Physics B</i> , 2021, 30, 027803.	1.4	3

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55	Temperature evolution of quasiparticle dispersion and dynamics in semimetallic Cu_2S via high-resolution angle-resolved photoemission spectroscopy and ultrafast optical pump-probe spectroscopy. <i>Physical Review B</i> , 2021, 103, .	3.2	10
56	Unravelling a Zigzag Pathway for Hot Carrier Collection with Graphene Electrode. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2886-2891.	4.6	2
57	Augmenting photoluminescence of monolayer MoS_2 using high order modes in a metal dimer-on-film nanocavity. <i>Photonics Research</i> , 2021, 9, 501.	7.0	12
58	Creating polar antivortex in $\text{PbTiO}_3/\text{SrTiO}_3$ superlattice. <i>Nature Communications</i> , 2021, 12, 2054.	12.8	50
59	Engineering of multiferroic BiFeO_3 grain boundaries with head-to-head polarization configurations. <i>Science Bulletin</i> , 2021, 66, 771-776.	9.0	6
60	Giant enhancement of optical nonlinearity in two-dimensional materials by multiphoton-excitation resonance energy transfer from quantum dots. <i>Nature Photonics</i> , 2021, 15, 510-515.	31.4	50
61	Enhanced Electrochemical Methanation of Carbon Dioxide at the Single-Layer Hexagonal Boron Nitride/Cu Interfacial Perimeter. <i>Nano Letters</i> , 2021, 21, 4469-4476.	9.1	16
62	Pattern-Guided Growth of Textured Macromolecular Films on Graphene/High-Index Copper. <i>Advanced Materials</i> , 2021, 33, e2006836.	21.0	6
63	Continuously Graded Quantum Dots: Synthesis, Applications in Quantum Dot Light-Emitting Diodes, and Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5967-5978.	4.6	53
64	Direct Current Electricity Generation from Dynamic Polarized Water-Semiconductor Interface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14180-14187.	3.1	20
65	Tunable and highly sensitive temperature sensor based on graphene photonic crystal fiber*. <i>Chinese Physics B</i> , 2021, 30, 118103.	1.4	2
66	Engineering polar vortex from topologically trivial domain architecture. <i>Nature Communications</i> , 2021, 12, 4620.	12.8	20
67	Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. <i>ACS Photonics</i> , 2021, 8, 2320-2328.	6.6	11
68	Investigating the Electrical Properties of Monolayer and Bilayer hBN s via Atomic Force Microscopy. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100447.	3.7	5
69	Complete structural characterization of single carbon nanotubes by Rayleigh scattering circular dichroism. <i>Nature Nanotechnology</i> , 2021, 16, 1073-1078.	31.5	18
70	Atomic-scale imaging of $\text{CH}_3\text{NH}_3\text{PbI}_3$ structure and its decomposition pathway. <i>Nature Communications</i> , 2021, 12, 5516.	12.8	36
71	Polarizer-free polarimetric image sensor through anisotropic two-dimensional GeSe . <i>Science China Materials</i> , 2021, 64, 1230-1237.	6.3	21
72	Optical Spectroscopy of Individual Single-Walled Carbon Nanotubes. <i>Nano-optics and Nanophotonics</i> , 2021, , 135-163.	0.2	1

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73	Measuring phonon dispersion at an interface. <i>Nature</i> , 2021, 599, 399-403.	27.8	47
74	Pushing the conductance and transparency limit of monolayer graphene electrodes for flexible organic light-emitting diodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25991-25998.	7.1	28
75	Broadband Spectral Range Sustainability and Controllable Excitation of Hyperbolic Phonon Polaritons in In_2Te_3 . <i>Advanced Materials</i> , 2020, 32, 2002014.	21.0	29
76	Hydrogenation-Induced Phase Transition in Atomic-Layered In_2Te_3 Driven by Laser Illumination in a Moist Atmosphere. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2678-2684.	4.3	3
77	Hyperbolic Phonon Polaritons: Broadband Spectral Range Sustainability and Controllable Excitation of Hyperbolic Phonon Polaritons in In_2Te_3 (Adv. Mater. 46/2020). <i>Advanced Materials</i> , 2020, 32, 2070347.	21.0	0
78	MnPS ₃ spin-flop transition-induced anomalous Hall effect in graphite flake via van der Waals proximity coupling. <i>Nanoscale</i> , 2020, 12, 23266-23273.	5.6	10
79	Rich information on 2D materials revealed by optical second harmonic generation. <i>Nanoscale</i> , 2020, 12, 22891-22903.	5.6	15
80	Patterning Graphene Films by H ₂ O-Based Magnetic-Assisted UV Photolysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 55382-55389.	8.0	6
81	Atomic-scale observations of electrical and mechanical manipulation of topological polar flux closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18954-18961.	7.1	41
82	Ultrafast Optical Modulation of Harmonic Generation in Two-Dimensional Materials. <i>Nano Letters</i> , 2020, 20, 8053-8058.	9.1	31
83	Optical fibres with embedded two-dimensional materials for ultrahigh nonlinearity. <i>Nature Nanotechnology</i> , 2020, 15, 987-991.	31.5	94
84	Giant pattern evolution in third-harmonic generation of strained monolayer WS ₂ at two-photon excitonic resonance. <i>Nano Research</i> , 2020, 13, 3235-3240.	10.4	8
85	Negative friction coefficient in microscale graphite/mica layered heterojunctions. <i>Science Advances</i> , 2020, 6, eaaz6787.	10.3	17
86	Remote Lightning and Ultrafast Transition: Intrinsic Modulation of Exciton Spatiotemporal Dynamics in Monolayer MoS ₂ . <i>ACS Nano</i> , 2020, 14, 6897-6905.	14.6	17
87	Seeded growth of large single-crystal copper foils with high-index facets. <i>Nature</i> , 2020, 581, 406-410.	27.8	116
88	Direct Evidence of Spin Transfer Torque on Two-Dimensional Cobalt-Doped MoS ₂ Ferromagnetic Material. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1497-1504.	4.3	7
89	Sandwiched graphene/hBN/graphene photonic crystal fibers with high electro-optical modulation depth and speed. <i>Nanoscale</i> , 2020, 12, 14472-14478.	5.6	12
90	Modulation of carrier lifetime in MoS ₂ monolayer by uniaxial strain. <i>Chinese Physics B</i> , 2020, 29, 077201.	1.4	4

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91	Valley Polarization in Superacid-Treated Monolayer MoS ₂ . ACS Applied Electronic Materials, 2020, 2, 1981-1988.	4.3	4
92	Designed Growth of Large-Size 2D Single Crystals. Advanced Materials, 2020, 32, e2000046.	21.0	71
93	Graphene-Assisted Epitaxy of Nitrogen Lattice Polarity GaN Films on Non-Polar Sapphire Substrates for Green Light Emitting Diodes. Advanced Functional Materials, 2020, 30, 2001283.	14.9	41
94	Atomic origin of spin-valve magnetoresistance at the SrRuO ₃ grain boundary. National Science Review, 2020, 7, 755-762.	9.5	12
95	Unveiling the Fine Structural Distortion of Atomically Thin Bi ₂ O ₂ Se by Third-Harmonic Generation. Advanced Materials, 2020, 32, e2002831.	21.0	13
96	The Coalescence Behavior of Two-Dimensional Materials Revealed by Multiscale <i>In Situ</i> Imaging during Chemical Vapor Deposition Growth. ACS Nano, 2020, 14, 1902-1918.	14.6	35
97	Superstable copper nanowire network electrodes by single-crystal graphene covering and their applications in flexible nanogenerator and light-emitting diode. Nano Energy, 2020, 71, 104638.	16.0	35
98	Utilization of Synergistic Effect of Dimension-Differentiated Hierarchical Nanomaterials for Transparent and Flexible Wireless Communicational Elements. Advanced Materials Technologies, 2020, 5, 1901057.	5.8	4
99	Efficient All-Optical Plasmonic Modulators with Atomically Thin Van Der Waals Heterostructures. Advanced Materials, 2020, 32, e1907105.	21.0	44
100	Precise control of the interlayer twist angle in large scale MoS ₂ homostructures. Nature Communications, 2020, 11, 2153.	12.8	142
101	Massive Growth of Graphene Quartz Fiber as a Multifunctional Electrode. ACS Nano, 2020, 14, 5938-5945.	14.6	43
102	Atomic imaging of mechanically induced topological transition of ferroelectric vortices. Nature Communications, 2020, 11, 1840.	12.8	49
103	Structured light beams created through a multimode fiber via virtual Fourier filtering based on digital optical phase conjugation. Applied Optics, 2020, 59, 701.	1.8	7
104	Near-field infrared microscopy of graphene on metal substrate. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 027803.	0.5	1
105	Scrolled Production of Large-Scale Continuous Graphene on Copper Foils*. Chinese Physics Letters, 2020, 37, 108101.	3.3	4
106	High-Performance Photoinduced Memory with Ultrafast Charge Transfer Based on MoS ₂ /SWCNTs Network Van Der Waals Heterostructure. Small, 2019, 15, e1804661.	10.0	42
107	Graphene photonic crystal fibre with strong and tunable light-matter interaction. Nature Photonics, 2019, 13, 754-759.	31.4	127
108	Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. ACS Nano, 2019, 13, 10272-10278.	14.6	32

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109	Band evolution of two-dimensional transition metal dichalcogenides under electric fields. Applied Physics Letters, 2019, 115, 083104.	3.3	9
110	Kinetic modulation of graphene growth by fluorine through spatially confined decomposition of metal fluorides. Nature Chemistry, 2019, 11, 730-736.	13.6	82
111	Strong-coupled hybrid structure of carbon nanotube and MoS ₂ monolayer with ultrafast interfacial charge transfer. Nanoscale, 2019, 11, 17195-17200.	5.6	17
112	Epitaxy of Single-Crystalline GaN Film on CMOS-Compatible Si(100) Substrate Buffered by Graphene. Advanced Functional Materials, 2019, 29, 1905056.	14.9	51
113	The Impacts of Adhesion on the Wear Property of Graphene. Advanced Materials Interfaces, 2019, 6, 1900721.	3.7	17
114	Extreme nonlinear strong-field photoemission from carbon nanotubes. Nature Communications, 2019, 10, 4891.	12.8	16
115	GaN on Si(100): Epitaxy of Single-Crystalline GaN Film on CMOS-Compatible Si(100) Substrate Buffered by Graphene (Adv. Funct. Mater. 42/2019). Advanced Functional Materials, 2019, 29, 1970293.	14.9	1
116	Low-temperature epitaxy of transferable high-quality Pd(111) films on hybrid graphene/Cu(111) substrate. Nano Research, 2019, 12, 2712-2717.	10.4	5
117	Atomic-scale imaging of the defect dynamics in ceria nanowires under heating by in situ aberration-corrected TEM. Science China Chemistry, 2019, 62, 1704-1709.	8.2	6
118	Robust circular polarization of indirect Q-K transitions in bilayer $W_3R_3S_2$. Physical Review B, 2019, 100, .	3.2	11
119	Comprehensive insights into effect of van der Waals contact on carbon nanotube network field-effect transistors. Applied Physics Letters, 2019, 115, .	3.3	4
120	Nanoassembly Growth Model for Subdomain and Grain Boundary Formation in 1T Layered ReS ₂ . Advanced Functional Materials, 2019, 29, 1906385.	14.9	45
121	Emerging properties of two-dimensional twisted bilayer materials*. Chinese Physics B, 2019, 28, 107304.	1.4	18
122	Doping-Induced Second-Harmonic Generation in Centrosymmetric Graphene from Quadrupole Response. Physical Review Letters, 2019, 122, 047401.	7.8	64
123	Engineering Ultrafast Carrier Dynamics at the Graphene/GaAs Interface by Bulk Doping Level. Advanced Optical Materials, 2019, 7, 1900580.	7.3	6
124	Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. Nature, 2019, 570, 91-95.	27.8	422
125	Characteristics of desert varnish from nanometer to micrometer scale: A photo-oxidation model on its formation. Chemical Geology, 2019, 522, 55-70.	3.3	32
126	Photoelectric conversion on Earth's surface via widespread Fe- and Mn-mineral coatings. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9741-9746.	7.1	111

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127	Band Engineering: Band Structure Engineering of Interfacial Semiconductors Based on Atomically Thin Lead Iodide Crystals (Adv. Mater. 17/2019). Advanced Materials, 2019, 31, 1970121.	21.0	0
128	Two meters graphene film for generators. Science Bulletin, 2019, 64, 487-489.	9.0	4
129	Scalable and ultrafast epitaxial growth of single-crystal graphene wafers for electrically tunable liquid-crystal microlens arrays. Science Bulletin, 2019, 64, 659-668.	9.0	66
130	Controllable Growth of Aligned Monocrystalline CsPbBr ₃ Microwire Arrays for Piezoelectric-Induced Dynamic Modulation of Single-Mode Lasing. Advanced Materials, 2019, 31, e1900647.	21.0	76
131	Universal Imaging of Full Strain Tensor in 2D Crystals with Third-Harmonic Generation. Advanced Materials, 2019, 31, e1808160.	21.0	32
132	Band Structure Engineering of Interfacial Semiconductors Based on Atomically Thin Lead Iodide Crystals. Advanced Materials, 2019, 31, e1806562.	21.0	79
133	Direct observation of weakened interface clamping effect enabled ferroelastic domain switching. Acta Materialia, 2019, 171, 184-189.	7.9	18
134	Tracking sodium migration in TiS ₂ using <i>in situ</i> TEM. Nanoscale, 2019, 11, 7474-7480.	5.6	26
135	Controllable Growth of (n, n + 1) Family of Semiconducting Carbon Nanotubes. Chem, 2019, 5, 1182-1193.	11.7	38
136	Sub-10 nm stable graphene quantum dots embedded in hexagonal boron nitride. Nanoscale, 2019, 11, 4226-4230.	5.6	18
137	Atomic origin of Ti-deficient dislocation in SrTiO ₃ bicrystals and their electronic structures. Journal of Applied Physics, 2019, 126, .	2.5	2
138	Grain Boundaries: Nanoassembly Growth Model for Subdomain and Grain Boundary Formation in 1Tâ€² Layered ReS ₂ (Adv. Funct. Mater. 49/2019). Advanced Functional Materials, 2019, 29, 1970335.	14.9	1
139	Subunit cell-level measurement of polarization in an individual polar vortex. Science Advances, 2019, 5, eaav4355.	10.3	31
140	Power- and Spectral-Dependent Photon-Recycling Effects in a Double-Junction Gallium Arsenide Photodiode. ACS Photonics, 2019, 6, 59-65.	6.6	9
141	Elastic Properties and Fracture Behaviors of Biaxially Deformed, Polymorphic MoTe ₂ . Nano Letters, 2019, 19, 761-769.	9.1	67
142	Ultrafast and low-power optoelectronic infrared-to-visible upconversion devices. Photonics Research, 2019, 7, 1161.	7.0	9
143	Giant Valley Coherence at Room Temperature in 3R WS ₂ with Broken Inversion Symmetry. Research, 2019, 2019, 6494565.	5.7	17
144	Optical Spectroscopy of Individual Carbon Nanotubes. World Scientific Series on Carbon Nanoscience, 2019, , 105-121.	0.1	0

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145	Interfacial engineering in graphene bandgap. Chemical Society Reviews, 2018, 47, 3059-3099.	38.1	153
146	Selective growth of chirality-enriched semiconducting carbon nanotubes by using bimetallic catalysts from salt precursors. Nanoscale, 2018, 10, 6922-6927.	5.6	21
147	Visualizing grain boundaries in monolayer MoSe ₂ using mild H ₂ O vapor etching. Nano Research, 2018, 11, 4082-4089.	10.4	22
148	Engineering active edge sites of fractal-shaped single-layer MoS ₂ catalysts for high-efficiency hydrogen evolution. Nano Energy, 2018, 51, 786-792.	16.0	98
149	Broadband nonlinear optical response of monolayer MoSe ₂ under ultrafast excitation. Applied Physics Letters, 2018, 112, .	3.3	25
150	Greatly Enhanced Anticorrosion of Cu by Commensurate Graphene Coating. Advanced Materials, 2018, 30, 1702944.	21.0	113
151	Probing Phonon Dynamics in Individual Single-Walled Carbon Nanotubes. Nano Letters, 2018, 18, 2590-2594.	9.1	2
152	Enhancement of HfO ₂ Based RRAM Performance Through Hexagonal Boron Nitride Interface Layer. , 2018, , .		1
153	Gate Switching of Ultrafast Photoluminescence in Graphene. Nano Letters, 2018, 18, 7985-7990.	9.1	23
154	Green Synthesis of Porous Cocoon-like rGO for Enhanced Microwave-Absorbing Performances. ACS Applied Materials & Interfaces, 2018, 10, 42865-42874.	8.0	68
155	Atomic scale insights into structure instability and decomposition pathway of methylammonium lead iodide perovskite. Nature Communications, 2018, 9, 4807.	12.8	161
156	Surface Index: Identification of Copper Surface Index by Optical Contrast (Adv. Mater. Interfaces) Tj ETQq0 0 0 rgBTj /Overlock 10 Tf 50 3	3.7	8
157	Ultrafast Broadband Charge Collection from Clean Graphene/CH ₃ NH ₃ Pb ₃ Interface. Journal of the American Chemical Society, 2018, 140, 14952-14957.	13.7	29
158	Sensitive and Robust Ultraviolet Photodetector Array Based on Self-Assembled Graphene/C ₆₀ Hybrid Films. ACS Applied Materials & Interfaces, 2018, 10, 38326-38333.	8.0	48
159	Fast Growth of Strain-Free AlN on Graphene-Buffered Sapphire. Journal of the American Chemical Society, 2018, 140, 11935-11941.	13.7	75
160	Gate tunable Kondo effect in magnetic molecule decorated graphene. Solid State Communications, 2018, 278, 24-30.	1.9	8
161	Rotational scanning and multiple-spot focusing through a multimode fiber based on digital optical phase conjugation. Applied Physics Express, 2018, 11, 062501.	2.4	15
162	Identification of Copper Surface Index by Optical Contrast. Advanced Materials Interfaces, 2018, 5, 1800377.	3.7	17

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163	Gate-tunable third-order nonlinear optical response of massless Dirac fermions in graphene. <i>Nature Photonics</i> , 2018, 12, 430-436.	31.4	194
164	Atomic-scale mechanism of internal structural relaxation screening at polar interfaces. <i>Physical Review B</i> , 2018, 97, .	3.2	4
165	Reconstruction of structured laser beams through a multimode fiber based on digital optical phase conjugation. <i>Optics Letters</i> , 2018, 43, 3333.	3.3	23
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