

Jing Kong

List of Publications by Year in descending order

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271
papers

35,798
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6124

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46783
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#	ARTICLE	IF	CITATIONS
1	Effect of different types of graphene coatings on friction and wear performance of aluminum alloy. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 539-547.	1.5	11
2	A High-Lift Micro-Aerial Robot Powered by Low Voltage and Long Endurance Dielectric Elastomer Actuators. <i>Advanced Materials</i> , 2022, 34, e2106757.	11.1	64
3	Soft-lock drawing of super-aligned carbon nanotube bundles for nanometre electrical contacts. <i>Nature Nanotechnology</i> , 2022, 17, 278-284.	15.6	24
4	Scalable and Versatile Transfer of Sensitive Two-dimensional Materials. <i>Nano Letters</i> , 2022, 22, 2342-2349.	4.5	4
5	A Local Atomic Mechanism for Monoclinic-Tetragonal Phase Boundary Creation in Li-Doped $\text{Na}_{0.5}\text{K}_{0.5}\text{NbO}_3$ Ferroelectric Solid Solution. <i>Inorganic Chemistry</i> , 2022, 61, 4335-4349.	1.9	9
6	Healing of donor defect states in monolayer molybdenum disulfide using oxygen-incorporated chemical vapour deposition. <i>Nature Electronics</i> , 2022, 5, 28-36.	13.1	44
7	Electronic Band Tuning and Multivalley Raman Scattering in Monolayer Transition Metal Dichalcogenides at High Pressures. <i>ACS Nano</i> , 2022, 16, 8064-8075.	7.3	13
8	Sharma <i>et al.</i> Reply. <i>Physical Review Letters</i> , 2022, 128, .	2.9	2
9	Atomic structural mechanism for ferroelectric-antiferroelectric transformation in perovskite NaNbO_3 . <i>Physical Review B</i> , 2022, 105, .	11.8	8
10	Graphene coatings to enhance tribological performance of steel. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 657-664.	1.5	7
11	Multi-Level Electro-Thermal Switching of Optical Phase Change Materials Using Graphene. <i>Advanced Photonics Research</i> , 2021, 2, 2000034.	1.7	75
12	Hard, transparent, sp^3 -containing 2D phase formed from few-layer graphene under compression. <i>Carbon</i> , 2021, 173, 744-757.	5.4	31
13	An optical slot-antenna-coupled cavity (SAC) framework towards tunable free-space graphene photonic surfaces. <i>Nano Research</i> , 2021, 14, 1364-1373.	5.8	2
14	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. <i>Nature Materials</i> , 2021, 20, 222-228.	13.3	239
15	Large Single Crystals of Two-Dimensional π -Conjugated Metal-Organic Frameworks via Biphasic Solution-Solid Growth. <i>ACS Central Science</i> , 2021, 7, 104-109.	5.3	40
16	Giant enhancement of third-harmonic generation in graphene-metal heterostructures. <i>Nature Nanotechnology</i> , 2021, 16, 318-324.	15.6	47
17	Suppression of Photovoltaic Losses in Efficient Tandem Organic Solar Cells (15.2%) with Efficient Transporting Layers and Light Management Approach. <i>Energy Technology</i> , 2021, 9, 2000751.	1.8	3
18	Colossal switchable photocurrents in topological Janus transition metal dichalcogenides. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	27

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19	Understanding the Optimal Cooperativity of Human Glucokinase: Kinetic Resonance in Nonequilibrium Conformational Fluctuations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2900-2904.	2.1	2
20	Efficient and Stable Mesoscopic Perovskite Solar Cells Using a Dopant-Free A Copolymer Hole-Transporting Layer. <i>Solar Rrl</i> , 2021, 5, 2000801.	3.1	7
21	Direct Prediction of Phonon Density of States With Euclidean Neural Networks. <i>Advanced Science</i> , 2021, 8, e2004214.	5.6	34
22	A Structural Study of 0.06LiNbO3-0.94K0.5Na0.5NbO3 from Neutron Total Scattering Analysis. <i>Crystals</i> , 2021, 11, 395.	1.0	1
23	Monolayer Hexagonal Boron Nitride: An Efficient Electron Blocking Layer in Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2021, 31, 2101238.	7.8	9
24	Synthesis of High-Performance Monolayer Molybdenum Disulfide at Low Temperature. <i>Small Methods</i> , 2021, 5, e2000720.	4.6	27
25	Local structural mechanism for phase transition and ferroelectric polarization in the mixed oxide $K_{0.5}Na_{0.5}Bi_{1-x}Sb_xO_5$. <i>Physical Review B</i> , 2021, 103, .	1.1	11
26	Toward MXene interconnects. <i>Matter</i> , 2021, 4, 1447-1449.	5.0	5
27	SynCells: A 60 Å— 60 μm ² Electronic Platform with Remote Actuation for Sensing Applications in Constrained Environments. <i>ACS Nano</i> , 2021, 15, 8803-8812.	7.3	4
28	Resonance-Enhanced Excitation of Interlayer Vibrations in Atomically Thin Black Phosphorus. <i>Nano Letters</i> , 2021, 21, 4809-4815.	4.5	8
29	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , 2021, 593, 211-217.	13.7	579
30	Towards plasmonic-enhanced optical nonlinearities in graphene metal-heterostructures. , 2021, , .		0
31	Spectroscopic Signatures of Interlayer Coupling in Janus MoSSe/MoS ₂ Heterostructures. <i>ACS Nano</i> , 2021, 15, 14394-14403.	7.3	36
32	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	43
33	Bottom-Up Synthesized All-Thermal-Catalyst Aerogels for Heat-Regenerative Air Filtration. <i>Nano Letters</i> , 2021, 21, 8160-8165.	4.5	6
34	Anomalous heavy doping in chemical-vapor-deposited titanium trisulfide nanostructures. <i>Physical Review Materials</i> , 2021, 5, .	0.9	3
35	Frank-van der Merwe growth in bilayer graphene. <i>Matter</i> , 2021, 4, 3339-3353.	5.0	20
36	Toward an Intelligent Synthesis: Monitoring and Intervening in the Catalytic Growth of Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2021, 143, 17607-17614.	6.6	3

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37	Revealing the Brønsted-Evans-Polanyi relation in halide-activated fast MoS ₂ growth toward millimeter-sized 2D crystals. <i>Science Advances</i> , 2021, 7, eabj3274.	4.7	18
38	Graphene-Lined Porous Gelatin Glycidyl Methacrylate Hydrogels: Implications for Tissue Engineering. <i>ACS Applied Nano Materials</i> , 2021, 4, 12650-12662.	2.4	5
39	Contact Engineering for High-Performance N-Type 2D Semiconductor Transistors. , 2021, , .		8
40	Point defect induced incommensurate dipole moments in the $KCa_{10}O$ Dion-Jacobson layered perovskite. <i>Physical Review B</i> , 2021, 104, .		11
41	Multifunctional PVDF/CNT/GO mixed matrix membranes for ultrafiltration and fouling detection. <i>Journal of Hazardous Materials</i> , 2020, 384, 120978.	6.5	76
42	Color Contrast of Single-Layer Graphene under White Light Illumination Induced by Broadband Photon Management. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3827-3835.	4.0	3
43	High-yield monolayer graphene grids for near-atomic resolution cryoelectron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1009-1014.	3.3	84
44	Sustainable Synthesis of Biomass-Derived Carbon Electrodes with Hybrid Energy-Storage Behaviors for Use in High-Performance Na-Ion Capacitors. <i>ACS Applied Energy Materials</i> , 2020, 3, 2478-2489.	2.5	33
45	Unconventional ferroelectricity in moiré heterostructures. <i>Nature</i> , 2020, 588, 71-76.	13.7	165
46	Understanding Disorder in 2D Materials: The Case of Carbon Doping of Silicene. <i>Nano Letters</i> , 2020, 20, 6336-6343.	4.5	8
47	Reversible dielectric breakdown in h-BN stacks: a statistical study of the switching voltages. , 2020, , .		0
48	Anharmonicity and Universal Response of Linear Carbon Chain Mechanical Properties under Hydrostatic Pressure. <i>Physical Review Letters</i> , 2020, 125, 105501.	2.9	22
49	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. <i>Journal of the American Chemical Society</i> , 2020, 142, 17499-17507.	6.6	80
50	Additive manufacturing assisted van der Waals integration of 3D/3D hierarchically functional nanostructures. <i>Communications Materials</i> , 2020, 1, .	2.9	5
51	Chirality-Dependent Second Harmonic Generation of MoS ₂ Nanoscroll with Enhanced Efficiency. <i>ACS Nano</i> , 2020, 14, 13333-13342.	7.3	34
52	Epitaxial Growth and Determination of Band Alignment of Bi ₂ Te ₃ â€“WSe ₂ Vertical van der Waals Heterojunctions. , 2020, 2, 1351-1359.		9
53	Novel Coreâ€“Shell (Îµ-MnO ₂ /CeO ₂)@CeO ₂ Composite Catalyst with a Synergistic Effect for Efficient Formaldehyde Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40285-40295.	4.0	58
54	Far-field excitation of single graphene plasmon cavities with ultracompressed mode volumes. <i>Science</i> , 2020, 368, 1219-1223.	6.0	114

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55	Synergistic Roll-to-Roll Transfer and Doping of CVD Graphene Using Parylene for Ambient Stable and Ultra-Lightweight Photovoltaics. <i>Advanced Functional Materials</i> , 2020, 30, 2001924.	7.8	45
56	Room Temperature Terahertz Electroabsorption Modulation by Excitons in Monolayer Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2020, 20, 5214-5220.	4.5	14
57	Deep Learning-Enabled Fast Optical Identification and Characterization of 2D Materials. <i>Advanced Materials</i> , 2020, 32, e2000953.	11.1	54
58	MoS ₂ -carbon nanotube heterostructure as efficient hole transporters and conductors in perovskite solar cells. <i>Applied Physics Express</i> , 2020, 13, 075009.	1.1	11
59	Efficient, Flexible, and Ultra-Lightweight Inverted PbS Quantum Dots Solar Cells on All-CVD Growth of Parylene/Graphene/oCVD PEDOT Substrate with High Power-Per-Weight. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000498.	1.9	24
60	Transient absorption of transition metal dichalcogenide monolayers studied by a photodope-pump-probe technique. <i>Physical Review B</i> , 2020, 102, .	1.1	12
61	Graphdiyne Coupled with g-C ₃ N ₄ /NiFe Layered Double Hydroxide, a Layered Nanohybrid for Highly Efficient Photoelectrochemical Water Oxidation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902083.	1.9	23
62	Fluidic Flow Assisted Deterministic Folding of Van der Waals Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1908691.	7.8	5
63	Blood-triggered generation of platinum nanoparticle functions as an anti-cancer agent. <i>Nature Communications</i> , 2020, 11, 567.	5.8	66
64	One-dimensional van der Waals heterostructures. <i>Science</i> , 2020, 367, 537-542.	6.0	238
65	Ferroelectric memory field-effect transistors using CVD monolayer MoS ₂ as resistive switching channel. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	28
66	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020, 580, 614-620.	13.7	284
67	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. <i>Advanced Materials</i> , 2020, 32, e1907864.	11.1	51
68	Strain-Correlated Localized Exciton Energy in Atomically Thin Semiconductors. <i>ACS Photonics</i> , 2020, 7, 1135-1140.	3.2	25
69	A novel and green sulfur fertilizer from CS ₂ to promote reproductive growth of plants. <i>Environmental Pollution</i> , 2020, 263, 114448.	3.7	14
70	Ultrasensitive micro/nanocrack-based graphene nanowall strain sensors derived from the substrate's Poisson's ratio effect. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10310-10317.	5.2	28
71	Modelling electrical conduction in nanostructure assemblies through complex networks. <i>Nature Materials</i> , 2020, 19, 745-751.	13.3	23
72	Efficient Semitransparent CsPbI ₃ Quantum Dots Photovoltaics Using a Graphene Electrode. <i>Small Methods</i> , 2019, 3, 1900449.	4.6	49

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73	Phonon Polaritons in Monolayers of Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019, 31, e1806603.	11.1	73
74	Effects of gamma radiation sterilization on the structural and biological properties of decellularized corneal xenografts. <i>Acta Biomaterialia</i> , 2019, 96, 330-344.	4.1	49
75	A relatively wide-bandgap and air-stable donor polymer for fabrication of efficient semitransparent and tandem organic photovoltaics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22037-22043.	3.3	24
76	Efficient and Stable Mesoscopic Perovskite Solar Cells Using PDTITT as a New Hole Transporting Layer. <i>Advanced Functional Materials</i> , 2019, 29, 1905887.	7.8	29
77	Direct Observation of Symmetry-Dependent Electron-Phonon Coupling in Black Phosphorus. <i>Journal of the American Chemical Society</i> , 2019, 141, 18994-19001.	6.6	21
78	Polymer-Coated Mesoporous Carbon as Enzyme Platform for Oxidation of Bisphenol A in Organic Solvents. <i>ACS Omega</i> , 2019, 4, 16409-16417.	1.6	4
79	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. <i>ACS Nano</i> , 2019, 13, 11561-11571.	7.3	214
80	Waterproof molecular monolayers stabilize 2D materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20844-20849.	3.3	32
81	A graphene/ZnO electron transfer layer together with perovskite passivation enables highly efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 679-686.	5.2	145
82	Two-dimensional MoS ₂ -enabled flexible rectenna for Wi-Fi-band wireless energy harvesting. <i>Nature</i> , 2019, 566, 368-372.	13.7	266
83	Asymmetric hot-carrier thermalization and broadband photoresponse in graphene-2D semiconductor lateral heterojunctions. <i>Science Advances</i> , 2019, 5, eaav1493.	4.7	43
84	Engineering single-atom dynamics with electron irradiation. <i>Science Advances</i> , 2019, 5, eaav2252.	4.7	61
85	Light Management in Organic Photovoltaics Processed in Ambient Conditions Using ZnO Nanowire and Antireflection Layer with Nanocone Array. <i>Small</i> , 2019, 15, e1900508.	5.2	31
86	Controllable Perovskite Crystallization via Antisolvent Technique Using Chloride Additives for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803587.	10.2	221
87	Intercalation-conversion hybrid cathodes enabling Li-S full-cell architectures with jointly superior gravimetric and volumetric energy densities. <i>Nature Energy</i> , 2019, 4, 374-382.	19.8	449
88	Paraffin-enabled graphene transfer. <i>Nature Communications</i> , 2019, 10, 867.	5.8	185
89	Additive manufacturing of patterned 2D semiconductor through recyclable masked growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3437-3442.	3.3	46
90	Investigation about tribological behavior of ABS and PC-ABS polymers coated with graphene. <i>Tribology International</i> , 2019, 134, 335-340.	3.0	40

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91	Tuning, optimization, and perovskite solar cell device integration of ultrathin poly(3,4-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	4.7	56
92	Observation of charge transfer in mixed-dimensional heterostructures formed by transition metal dichalcogenide monolayers and PbS quantum dots. Physical Review B, 2019, 100, .	1.1	7
93	Self-Assembled, Ultrahigh Refractive Index Pseudo-Periodic Sn Nanostructures for Broad-Band Infrared Photon Management in Single Layer Graphene. ACS Photonics, 2019, 6, 50-58.	3.2	4
94	Giant intrinsic photoresponse in pristine graphene. Nature Nanotechnology, 2019, 14, 145-150.	15.6	61
95	Revealing molecular-level surface redox sites of controllably oxidized black phosphorus nanosheets. Nature Materials, 2019, 18, 156-162.	13.3	215
96	Graphene-Perovskite Schottky Barrier Solar Cells. Advanced Sustainable Systems, 2018, 2, 1700106.	2.7	12
97	Probing the ultimate plasmon confinement limits with a van der Waals heterostructure. Science, 2018, 360, 291-295.	6.0	259
98	Growing highly pure semiconducting carbon nanotubes by electrotwisting the helicity. Nature Catalysis, 2018, 1, 326-331.	16.1	61
99	Chemiresistive Graphene Sensors for Ammonia Detection. ACS Applied Materials & Interfaces, 2018, 10, 16169-16176.	4.0	100
100	Tuning Electronic Structure of Single Layer MoS ₂ through Defect and Interface Engineering. ACS Nano, 2018, 12, 2569-2579.	7.3	203
101	Repeated roll-to-roll transfer of two-dimensional materials by electrochemical delamination. Nanoscale, 2018, 10, 5522-5531.	2.8	28
102	Graphene-Enhanced Raman Scattering (GERS): Chemical Effect. , 2018, , 415-449.		6
103	Selectivity of Nanoporous MnO ₂ and TiO ₂ Membranes for Residual Contaminants in Treated Wastewater. Chemical Engineering and Technology, 2018, 41, 413-420.	0.9	8
104	Low-Temperature Copper Bonding Strategy with Graphene Interlayer. ACS Nano, 2018, 12, 2395-2402.	7.3	49
105	Suppression of Tumor Energy Supply by Liposomal Nanoparticle-Mediated Inhibition of Aerobic Glycolysis. ACS Applied Materials & Interfaces, 2018, 10, 2347-2353.	4.0	35
106	Fast water transport in graphene nanofluidic channels. Nature Nanotechnology, 2018, 13, 238-245.	15.6	220
107	Large Photothermal Effect in Sub-40 nm hBN Nanostructures Patterned Via High-Resolution Ion Beam. Small, 2018, 14, 1800072.	5.2	12
108	Observation of Exciton-Exciton Interaction Mediated Valley Depolarization in Monolayer MoSe ₂ . Nano Letters, 2018, 18, 223-228.	4.5	39

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109	Nanoporous Graphene: Facile Fabrication of Large-Area Atomically Thin Membranes by Direct Synthesis of Graphene with Nanoscale Porosity (Adv. Mater. 49/2018). Advanced Materials, 2018, 30, 1870376.	11.1	1
110	Facile Fabrication of Large-Area Atomically Thin Membranes by Direct Synthesis of Graphene with Nanoscale Porosity. Advanced Materials, 2018, 30, e1804977.	11.1	56
111	In Situ-Generated Volatile Precursor for CVD Growth of a Semimetallic 2D Dichalcogenide. ACS Applied Materials & Interfaces, 2018, 10, 34401-34408.	4.0	23
112	Efficient and tumor-specific knockdown of MTDH gene attenuates paclitaxel resistance of breast cancer cells both in vivo and in vitro. Breast Cancer Research, 2018, 20, 113.	2.2	34
113	Synthetic Lateral Metal-Semiconductor Heterostructures of Transition Metal Disulfides. Journal of the American Chemical Society, 2018, 140, 12354-12358.	6.6	85
114	Uniformity of Multilayer Hexagonal Boron Nitride Dielectric Stacks Grown by Chemical Vapor Deposition on Platinum and Copper Substrates. , 2018, , .		0
115	CVD Technology for 2-D Materials. IEEE Transactions on Electron Devices, 2018, 65, 4040-4052.	1.6	47
116	Surface Engineering of TiO ₂ ETL for Highly Efficient and Hysteresis-Free Planar Perovskite Solar Cell (21.4%) with Enhanced Open-Circuit Voltage and Stability. Advanced Energy Materials, 2018, 8, 1800794.	10.2	255
117	Photothermal Effect: Large Photothermal Effect in Sub-40 nm h-BN Nanostructures Patterned Via High-Resolution Ion Beam (Small 22/2018). Small, 2018, 14, 1870101.	5.2	1
118	Phase-Modulated Degenerate Parametric Amplification Microscopy. Nano Letters, 2018, 18, 5001-5006.	4.5	14
119	Generating Sub-nanometer Pores in Single-Layer MoS ₂ by Heavy-Ion Bombardment for Gas Separation: A Theoretical Perspective. ACS Applied Materials & Interfaces, 2018, 10, 28909-28917.	4.0	37
120	Raman Enhancement of Blood Constituent Proteins Using Graphene. ACS Photonics, 2018, 5, 2978-2982.	3.2	29
121	Exploring Low Internal Reorganization Energies for Silicene Nanoclusters. Physical Review Applied, 2018, 9, .	1.5	7
122	MoS ₂ Phase-junction-based Schottky Diodes for RF Electronics. , 2018, , .		8
123	Carbon nanotube-based flexible electrothermal film heaters with a high heating rate. Royal Society Open Science, 2018, 5, 172072.	1.1	43
124	Ambient-pressure CVD of graphene on low-index Ni surfaces using methane: A combined experimental and first-principles study. Physical Review Materials, 2018, 2, .	0.9	12
125	Concurrent Synthesis of High-Performance Monolayer Transition Metal Disulfides. Advanced Functional Materials, 2017, 27, 1605896.	7.8	35
126	Large, valley-exclusive Bloch-Siegert shift in monolayer WS ₂ . Science, 2017, 355, 1066-1069.	6.0	102

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127	Hot Electron Transistor with van der Waals Base-Collector Heterojunction and High-Performance GaN Emitter. Nano Letters, 2017, 17, 3089-3096.	4.5	74
128	Epitaxial growth of large-area and highly crystalline anisotropic ReSe ₂ atomic layer. Nano Research, 2017, 10, 2732-2742.	5.8	69
129	Remote epitaxy through graphene enables two-dimensional material-based layer transfer. Nature, 2017, 544, 340-343.	13.7	410
130	Mildred S. Dresselhaus (1930–2017). Nature Nanotechnology, 2017, 12, 408-408.	15.6	0
131	Electrothermal Control of Graphene Plasmon–Phonon Polaritons. Advanced Materials, 2017, 29, 1700566.	11.1	24
132	Distortion of DNA Origami on Graphene Imaged with Advanced TEM Techniques. Small, 2017, 13, 1700876.	5.2	19
133	Observation of Exciton Redshift–Blueshift Crossover in Monolayer WS ₂ . Nano Letters, 2017, 17, 4210-4216.	4.5	107
134	Sensitive Phonon-Based Probe for Structure Identification of 1T–MoTe ₂ . Journal of the American Chemical Society, 2017, 139, 8396-8399.	6.6	46
135	Temporal and spatial valley dynamics in two-dimensional semiconductors probed via Kerr rotation. Physical Review B, 2017, 95, .	1.1	21
136	Role of Molecular Sieves in the CVD Synthesis of Large–Area 2D MoTe ₂ . Advanced Functional Materials, 2017, 27, 1603491.	7.8	58
137	M13 Virus Aerogels as a Scaffold for Functional Inorganic Materials. Advanced Functional Materials, 2017, 27, 1603203.	7.8	37
138	Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805.	15.6	190
139	A MoTe ₂ -based light-emitting diode and photodetector for silicon photonic integrated circuits. Nature Nanotechnology, 2017, 12, 1124-1129.	15.6	344
140	Revealing the Bonding of Nitrogen Impurities in Monolayer Graphene. Microscopy and Microanalysis, 2017, 23, 1750-1751.	0.2	1
141	Monolayer Tungsten Disulfide (WS ₂) via Chlorine–Driven Chemical Vapor Transport. Small, 2017, 13, 1701232.	5.2	24
142	Raman evidence for pressure-induced formation of diamondene. Nature Communications, 2017, 8, 96.	5.8	132
143	Electrical Homogeneity of Large-Area Chemical Vapor Deposited Multilayer Hexagonal Boron Nitride Sheets. ACS Applied Materials & Interfaces, 2017, 9, 39895-39900.	4.0	27
144	Nanoporous Atomically Thin Graphene Membranes for Desalting and Dialysis Applications. Advanced Materials, 2017, 29, 1700277.	11.1	118

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145	Chemical vapor deposition of high-quality monolayer transition metal disulfides. , 2017, , .		0
146	Porous Cu Nanowire Aerosponges from One-Step Assembly and their Applications in Heat Dissipation. Advanced Materials, 2016, 28, 1413-1419.	11.1	109
147	Parallel Stitching of 2D Materials. Advanced Materials, 2016, 28, 2322-2329.	11.1	195
148	Enhancing the Sensitivity of Percolative Graphene Films for Flexible and Transparent Pressure Sensor Arrays. Advanced Functional Materials, 2016, 26, 5061-5067.	7.8	87
149	Coupling-Enhanced Broadband Mid-infrared Light Absorption in Graphene Plasmonic Nanostructures. ACS Nano, 2016, 10, 11172-11178.	7.3	62
150	Observation of Intervalley Biexcitonic Optical Stark Effect in Monolayer WS ₂ . Nano Letters, 2016, 16, 7421-7426.	4.5	49
151	Pre-Patterned CVD Graphene: Insights on ALD deposition parameters and their influence on Al ₂ O ₃ and graphene layers. MRS Advances, 2016, 1, 1401-1409.	0.5	2
152	Charge Storage: Transition from Diffusion-Controlled Intercalation into Extrinsicly Pseudocapacitive Charge Storage of MoS ₂ by Nanoscale Heterostructuring (Adv. Energy Mater. 1/2016). Advanced Energy Materials, 2016, 6, .	10.2	0
153	Transition from Diffusion-Controlled Intercalation into Extrinsicly Pseudocapacitive Charge Storage of MoS ₂ by Nanoscale Heterostructuring. Advanced Energy Materials, 2016, 6, 1501115.	10.2	185
154	Omnidirectionally Stretchable and Transparent Graphene Electrodes. ACS Nano, 2016, 10, 9446-9455.	7.3	94
155	Quenching of photoluminescence of Rhodamine 6G molecules on functionalized graphene. Physica Status Solidi (B): Basic Research, 2016, 253, 2347-2350.	0.7	6
156	Ultrasmall Mode Volumes in Plasmonic Cavities of Nanoparticle-On-Mirror Structures. Small, 2016, 12, 5190-5199.	5.2	53
157	In-Plane Optical Anisotropy of Layered Gallium Telluride. ACS Nano, 2016, 10, 8964-8972.	7.3	179
158	Design, Modeling, and Fabrication of Chemical Vapor Deposition Grown MoS ₂ Circuits with E-Mode FETs for Large-Area Electronics. Nano Letters, 2016, 16, 6349-6356.	4.5	142
159	Synthesis of High-Quality Large-Area Homogenous 1T MoTe ₂ from Chemical Vapor Deposition. Advanced Materials, 2016, 28, 9526-9531.	11.1	125
160	Visibly-Transparent Organic Solar Cells on Flexible Substrates with All-Graphene Electrodes. Advanced Energy Materials, 2016, 6, 1600847.	10.2	138
161	MoS ₂ Field-Effect Transistor with Sub-10 nm Channel Length. Nano Letters, 2016, 16, 7798-7806.	4.5	389
162	High Luminescence Efficiency in MoS ₂ Grown by Chemical Vapor Deposition. ACS Nano, 2016, 10, 6535-6541.	7.3	140

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163	A Rational Strategy for Graphene Transfer on Substrates with Rough Features. <i>Advanced Materials</i> , 2016, 28, 2382-2392.	11.1	78
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