Jing Kong

List of Publications by Year
in descending order

271 papers	35,798 citations	6124 83 h-index	3782 185 g-index
275 all docs	275 docs citations	275 times ranked	46783 citing authors

#	Article	IF	Citations
1	Large Area, Few-Layer Graphene Films on Arbitrary Substrates by Chemical Vapor Deposition. Nano Letters, 2009, 9, 30-35.	4.5	5,220
2	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. Molecular Physics, 2015, 113, 184-215.	0.8	2,561
3	Intrinsic Structural Defects in Monolayer Molybdenum Disulfide. Nano Letters, 2013, 13, 2615-2622.	4.5	1,766
4	Synthesis of Monolayer Hexagonal Boron Nitride on Cu Foil Using Chemical Vapor Deposition. Nano Letters, 2012, 12, 161-166.	4.5	1,057
5	Can Graphene be used as a Substrate for Raman Enhancement?. Nano Letters, 2010, 10, 553-561.	4.5	914
6	van der Waals Epitaxy of MoS₂ Layers Using Graphene As Growth Templates. Nano Letters, 2012, 12, 2784-2791.	4.5	888
7	Selective Ionic Transport through Tunable Subnanometer Pores in Single-Layer Graphene Membranes. Nano Letters, 2014, 14, 1234-1241.	4.5	687
8	Role of the Seeding Promoter in MoS₂ Growth by Chemical Vapor Deposition. Nano Letters, 2014, 14, 464-472.	4.5	633
9	Synthesis and Transfer of Single-Layer Transition Metal Disulfides on Diverse Surfaces. Nano Letters, 2013, 13, 1852-1857.	4.5	612
10	Ultralow contact resistance between semimetal and monolayer semiconductors. Nature, 2021, 593, 211-217.	13.7	579
11	Spinning and Processing Continuous Yarns from 4-Inch Wafer Scale Super-Aligned Carbon Nanotube Arrays. Advanced Materials, 2006, 18, 1505-1510.	11.1	563
12	Transferring and Identification of Single- and Few-Layer Graphene on Arbitrary Substrates. Journal of Physical Chemistry C, 2008, 112, 17741-17744.	1.5	522
13	Dielectric Screening of Excitons and Trions in Single-Layer MoS₂. Nano Letters, 2014, 14, 5569-5576.	4.5	520
14	Work Function Engineering of Graphene ElectrodeviaChemical Doping. ACS Nano, 2010, 4, 2689-2694.	7.3	501
15	Valley-selective optical Stark effect in monolayerÂWS2. Nature Materials, 2015, 14, 290-294.	13.3	479
16	Raman Enhancement Effect on Two-Dimensional Layered Materials: Graphene, h-BN and MoS₂. Nano Letters, 2014, 14, 3033-3040.	4.5	464
17	Growth of large-area single- and Bi-layer graphene by controlled carbon precipitation on polycrystalline Ni surfaces. Nano Research, 2009, 2, 509-516.	5.8	453
18	Intercalation-conversion hybrid cathodes enabling Liâ€“S full-cell architectures with jointly superior gravimetric and volumetric energy densities. Nature Energy, 2019, 4, 374-382.	19.8	449

#	Article	IF	Citations
19	Remote epitaxy through graphene enables two-dimensional material-based layer transfer. Nature, 2017, 544, 340-343.	13.7	410
20	Synthesis of large-area multilayer hexagonal boron nitride for high material performance. Nature Communications, 2015, 6, 8662.	5.8	403
21	MoS₂ Field-Effect Transistor with Sub-10 nm Channel Length. Nano Letters, 2016, 16, 7798-7806.	4.5	389
22	Electronic transport and device prospects of monolayer molybdenum disulphide grown by chemical vapour deposition. Nature Communications, 2014, 5, 3087.	5.8	370
23	A MoTe2-based light-emitting diode and photodetector for silicon photonic integrated circuits. Nature Nanotechnology, 2017, 12, 1124-1129.	15.6	344
24	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. Nano Letters, 2016, 16, 2260-2267.	4.5	328
25	Large-Area Synthesis of High-Quality Uniform Few-Layer MoTe₂. Journal of the American Chemical Society, 2015, 137, 11892-11895.	6.6	302
26	Two-dimensional halide perovskite lateral epitaxial heterostructures. Nature, 2020, 580, 614-620.	13.7	284
27	Nanofiltration across Defect-Sealed Nanoporous Monolayer Graphene. Nano Letters, 2015, 15, 3254-3260.	4.5	272
28	Two-dimensional MoS2-enabled flexible rectenna for Wi-Fi-band wireless energy harvesting. Nature, 2019, 566, 368-372.	13.7	266
29	Probing the ultimate plasmon confinement limits with a van der Waals heterostructure. Science, 2018, 360, 291-295.	6.0	259
30	Surface Engineering of TiO₂ ETL for Highly Efficient and Hysteresisâ€Less Planar Perovskite Solar Cell (21.4%) with Enhanced Openâ€Circuit Voltage and Stability. Advanced Energy Materials, 2018, 8, 1800794.	10.2	255
31	The Influence of Strong Electron and Hole Doping on the Raman Intensity of Chemical Vapor-Deposition Graphene. ACS Nano, 2010, 4, 6055-6063.	7.3	243
32	Atomically precise single-crystal structures of electrically conducting 2D metalâ€“organic frameworks. Nature Materials, 2021, 20, 222-228.	13.3	239
33	One-dimensional van der Waals heterostructures. Science, 2020, 367, 537-542.	6.0	238
34	Probing the Interlayer Coupling of Twisted Bilayer MoS₂ Using Photoluminescence Spectroscopy. Nano Letters, 2014, 14, 5500-5508.	4.5	228
35	Trion-Induced Negative Photoconductivity in Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn> Physical Review Letters, 2014, 113, 166801.	2.9	226
36	Controllable Perovskite Crystallization via Antisolvent Technique Using Chloride Additives for Highly Efficient Planar Perovskite Solar Cells. Advanced Energy Materials, 2019, 9, 1803587.	10.2	221

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37	Fast water transport in graphene nanofluidic channels. Nature Nanotechnology, 2018, 13, 238-245.	15.6	220
38	Revealing molecular-level surface redox sites of controllably oxidized black phosphorus nanosheets. Nature Materials, 2019, 18, 156-162.	13.3	215
39	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. ACS Nano, 2019, 13, 11561-11571.	7.3	214
40	Flexible Graphene Electrode-Based Organic Photovoltaics with Record-High Efficiency. Nano Letters, 2014, 14, 5148-5154.	4.5	213
41	Tuning Electronic Structure of Single Layer MoS₂ through Defect and Interface Engineering. ACS Nano, 2018, 12, 2569-2579.	7.3	203
42	Large-Area Monolayer Hexagonal Boron Nitride on Pt Foil. ACS Nano, 2014, 8, 8520-8528.	7.3	200
43	Leveraging Nanocavity Harmonics for Control of Optical Processes in 2D Semiconductors. Nano Letters, 2015, 15, 3578-3584.	4.5	200
44	Parallel Stitching of 2D Materials. Advanced Materials, 2016, 28, 2322-2329.	11.1	195
45	Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805.	15.6	190
46	Transition from Diffusionâ€Controlled Intercalation into Extrinsically Pseudocapacitive Charge Storage of MoS₂ by Nanoscale Heterostructuring. Advanced Energy Materials, 2016, 6, 1501115.	10.2	185
47	Paraffin-enabled graphene transfer. Nature Communications, 2019, 10, 867.	5.8	185
48	Low-Frequency Interlayer Breathing Modes in Few-Layer Black Phosphorus. Nano Letters, 2015, 15, 4080-4088.	4.5	182
49	In-Plane Optical Anisotropy of Layered Gallium Telluride. ACS Nano, 2016, 10, 8964-8972.	7.3	179
50	Molecular Selectivity of Graphene-Enhanced Raman Scattering. Nano Letters, 2015, 15, 2892-2901.	4.5	177
51	Low-Frequency Interlayer Raman Modes to Probe Interface of Twisted Bilayer MoS₂. Nano Letters, 2016, 16, 1435-1444.	4.5	177
52	Direct transfer of graphene onto flexible substrates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 17762-17767.	3.3	170
53	Geometrical approach for the study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>G</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math>band in the Raman spectrum of monolayer graphene, bilayer graphene, and bulk graphite. Physical Review B, 2008, 77, .	1.1	168
54	Unconventional ferroelectricity in moirÃ© heterostructures. Nature, 2020, 588, 71-76.	13.7	165

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55	Intervalley biexcitons and many-body effects in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2015, 92, .	3.1	146
56	All graphene electromechanical switch fabricated by chemical vapor deposition. Applied Physics Letters, 2009, 95, 183105.	1.5	145
57	A graphene/ZnO electron transfer layer together with perovskite passivation enables highly efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 679-686.	5.2	145
58	Reversibly Compressible, Highly Elastic, and Durable Graphene Aerogels for Energy Storage Devices under Limiting Conditions. Advanced Functional Materials, 2015, 25, 1053-1062.	7.8	143
59	Design, Modeling, and Fabrication of Chemical Vapor Deposition Grown MoS₂ Circuits with E-Mode FETs for Large-Area Electronics. Nano Letters, 2016, 16, 6349-6356.	4.5	142
60	Lighting Up the Raman Signal of Molecules in the Vicinity of Graphene Related Materials. Accounts of Chemical Research, 2015, 48, 1862-1870.	7.6	141
61	High Luminescence Efficiency in MoS₂ Grown by Chemical Vapor Deposition. ACS Nano, 2016, 10, 6535-6541.	7.3	140
62	Visiblyâ€Transparent Organic Solar Cells on Flexible Substrates with Allâ€Graphene Electrodes. Advanced Energy Materials, 2016, 6, 1600847.	10.2	138
63	Raman evidence for pressure-induced formation of diamondene. Nature Communications, 2017, 8, 96.	5.8	132
64	Tuning ultrafast electron thermalization pathways in a van der Waals heterostructure. Nature Physics, 2016, 12, 455-459.	6.5	127
65	Impact of Graphene Interface Quality on Contact Resistance and RF Device Performance. IEEE Electron Device Letters, 2011, 32, 1008-1010.	2.2	126
66	Synthesis of Highâ€Quality Largeâ€Area Homogenous 1Tâ€² MoTe₂ from Chemical Vapor Deposition. Advanced Materials, 2016, 28, 9526-9531.	11.1	125
67	Semiconducting-to-Metallic Photoconductivity Crossover and Temperature-Dependent Drude Weight in Graphene. Physical Review Letters, 2014, 113, 056602.	2.9	123
68	The effect of copper pre-cleaning on graphene synthesis. Nanotechnology, 2013, 24, 365602.	1.3	122
69	Nanoporous Atomically Thin Graphene Membranes for Desalting and Dialysis Applications. Advanced Materials, 2017, 29, 1700277.	11.1	118
70	Far-field excitation of single graphene plasmon cavities with ultracompressed mode volumes. Science, 2020, 368, 1219-1223.	6.0	114
71	Impact of Chlorine Functionalization on High-Mobility Chemical Vapor Deposition Grown Graphene. ACS Nano, 2013, 7, 7262-7270.	7.3	111
72	Electrophoretic and field-effect graphene for all-electrical DNA array technology. Nature Communications, 2014, 5, 4866.	5.8	109

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73	Porous Cu Nanowire Aerosponges from Oneâ€Step Assembly and their Applications in Heat Dissipation. Advanced Materials, 2016, 28, 1413-1419.	11.1	109
74	Observation of Exciton Redshiftâ€“Blueshift Crossover in Monolayer WS₂. Nano Letters, 2017, 17, 4210-4216.	4.5	107
75	Broadband optical properties of large-area monolayer CVD molybdenum disulfide. Physical Review B, 2014, 90, .	1.1	106
76	Anomalous Behaviors of Graphene Transparent Conductors in Grapheneâ€“Silicon Heterojunction Solar Cells. Advanced Energy Materials, 2013, 3, 1029-1034.	10.2	102
77	Large, valley-exclusive Bloch-Siegert shift in monolayer WS ₂. Science, 2017, 355, 1066-1069.	6.0	102
78	Graphene-on-Insulator Transistors Made Using C on Ni Chemical-Vapor Deposition. IEEE Electron Device Letters, 2009, 30, 745-747.	2.2	100
79	Chemiresistive Graphene Sensors for Ammonia Detection. ACS Applied Materials & Interfaces, 2018, 10, 16169-16176.	4.0	100
80	A Facile Methodology for the Production of In Situ Inorganic Nanowire Hydrogels/Aerogels. Nano Letters, 2014, 14, 1810-1817.	4.5	98
81	Omnidirectionally Stretchable and Transparent Graphene Electrodes. ACS Nano, 2016, 10, 9446-9455.	7.3	94
82	pH sensing properties of graphene solution-gated field-effect transistors. Journal of Applied Physics, 2013, 114, .	1.1	88
83	Enhancing the Sensitivity of Percolative Graphene Films for Flexible and Transparent Pressure Sensor Arrays. Advanced Functional Materials, 2016, 26, 5061-5067.	7.8	87
84	Synthetic Lateral Metal-Semiconductor Heterostructures of Transition Metal Disulfides. Journal of the American Chemical Society, 2018, 140, 12354-12358.	6.6	85
85	High-yield monolayer graphene grids for near-atomic resolution cryoelectron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1009-1014.	3.3	84
86	Graphene-Based Thermopile for Thermal Imaging Applications. Nano Letters, 2015, 15, 7211-7216.	4.5	81
87	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. Journal of the American Chemical Society, 2020, 142, 17499-17507.	6.6	80
88	A Rational Strategy for Graphene Transfer on Substrates with Rough Features. Advanced Materials, 2016, 28, 2382-2392.	11.1	78
89	Multifunctional PVDF/CNT/GO mixed matrix membranes for ultrafiltration and fouling detection. Journal of Hazardous Materials, 2020, 384, 120978.	6.5	76
90	Multiâ€Level Electroâ€Thermal Switching of Optical Phaseâ€Change Materials Using Graphene. Advanced Photonics Research, 2021, 2, 2000034.	1.7	75

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91	Hot Electron Transistor with van der Waals Base-Collector Heterojunction and High-Performance GaN Emitter. Nano Letters, 2017, 17, 3089-3096.	4.5	74
92	Observation of suppressed terahertz absorption in photoexcited graphene. Applied Physics Letters, 2013, 102, .	1.5	73
93	Challenges and opportunities for graphene as transparent conductors in optoelectronics. Nano Today, 2015, 10, 681-700.	6.2	73
94	Phonon Polaritons in Monolayers of Hexagonal Boron Nitride. Advanced Materials, 2019, 31, e1806603.	11.1	73
95	Breakdown Current Density of CVD-Grown Multilayer Graphene Interconnects. IEEE Electron Device Letters, 2011, 32, 557-559.	2.2	70
96	A review of large-area bilayer graphene synthesis by chemical vapor deposition. Nanoscale, 2015, 7, 20335-20351.	2.8	70
97	Epitaxial growth of large-area and highly crystalline anisotropic ReSe2 atomic layer. Nano Research, 2017, 10, 2732-2742.	5.8	69
98	Growth Mechanism of Long and Horizontally Aligned Carbon Nanotubes by Chemical Vapor Deposition. Journal of Physical Chemistry C, 2007, 111, 7292-7297.	1.5	67
99	Compact Virtual-Source Currentâ€“Voltage Model for Top- and Back-Gated Graphene Field-Effect Transistors. IEEE Transactions on Electron Devices, 2011, 58, 1523-1533.	1.6	66
100	Blood-triggered generation of platinum nanoparticle functions as an anti-cancer agent. Nature Communications, 2020, 11, 567.	5.8	66
101	A Highâ€Lift Microâ€Aerialâ€Robot Powered by Lowâ€Voltage and Longâ€Endurance Dielectric Elastomer Actuators. Advanced Materials, 2022, 34, e2106757.	11.1	64
102	Coupling-Enhanced Broadband Mid-infrared Light Absorption in Graphene Plasmonic Nanostructures. ACS Nano, 2016, 10, 11172-11178.	7.3	62
103	Growing highly pure semiconducting carbon nanotubes by electrotwisting the helicity. Nature Catalysis, 2018, 1, 326-331.	16.1	61
104	Engineering single-atom dynamics with electron irradiation. Science Advances, 2019, 5, eaav2252.	4.7	61
105	Giant intrinsic photoresponse in pristine graphene. Nature Nanotechnology, 2019, 14, 145-150.	15.6	61
106	Role of Molecular Sieves in the CVD Synthesis of Largeâ€Area 2D MoTe ₂. Advanced Functional Materials, 2017, 27, 1603491.	7.8	58
107	Novel Coreâ€“Shell (Îµ-MnO₂/CeO₂)@CeO₂ Composite Catalyst with a Synergistic Effect for Efficient Formaldehyde Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 40285-40295.	4.0	58
108	Facile Fabrication of Largeâ€Area Atomically Thin Membranes by Direct Synthesis of Graphene with Nanoscale Porosity. Advanced Materials, 2018, 30, e1804977.	11.1	56

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109	Tuning, optimization, and perovskite solar cell device integration of ultrathin poly(3,4-ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock	4.7	56
110	Curvature-induced optical phonon frequency shift in metallic carbon nanotubes. Physical Review B, 2008, 77, .	1.1	54
111	Deepâ€Learningâ€Enabled Fast Optical Identification and Characterization of 2D Materials. Advanced Materials, 2020, 32, e2000953.	11.1	54
112	Ultrasmall Mode Volumes in Plasmonic Cavities of Nanoparticleâ€Onâ€Mirror Structures. Small, 2016, 12, 5190-5199.	5.2	53
113	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. Advanced Materials, 2020, 32, e1907864.	11.1	51
114	Observation of Intervalley Biexcitonic Optical Stark Effect in Monolayer WS₂. Nano Letters, 2016, 16, 7421-7426.	4.5	49
115	Low-Temperature Copper Bonding Strategy with Graphene Interlayer. ACS Nano, 2018, 12, 2395-2402.	7.3	49
116	Efficient Semitransparent CsPbI₃ Quantum Dots Photovoltaics Using a Graphene Electrode. Small Methods, 2019, 3, 1900449.	4.6	49
117	Effects of gamma radiation sterilization on the structural and biological properties of decellularized corneal xenografts. Acta Biomaterialia, 2019, 96, 330-344.	4.1	49
118	CVD Technology for 2-D Materials. IEEE Transactions on Electron Devices, 2018, 65, 4040-4052.	1.6	47
119	Giant enhancement of third-harmonic generation in grapheneâ€“metal heterostructures. Nature Nanotechnology, 2021, 16, 318-324.	15.6	47
120	Xâ€Ray Spectroscopic Investigation of Chlorinated Graphene: Surface Structure and Electronic Effects. Advanced Functional Materials, 2015, 25, 4163-4169.	7.8	46
121	Sensitive Phonon-Based Probe for Structure Identification of 1Tâ€² MoTe₂. Journal of the American Chemical Society, 2017, 139, 8396-8399.	6.6	46
122	Additive manufacturing of patterned 2D semiconductor through recyclable masked growth. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3437-3442.	3.3	46
123	Theory for microwave thermal emission from a layer of cloud or rain. IEEE Transactions on Antennas and Propagation, 1977, 25, 650-657.	0.8	45
124	Synergistic Rollâ€toâ€Roll Transfer and Doping of CVDâ€Graphene Using Parylene for Ambientâ€Stable and Ultraâ€Lightweight Photovoltaics. Advanced Functional Materials, 2020, 30, 2001924.	7.8	45
125	Healing of donor defect states in monolayer molybdenum disulfide using oxygen-incorporated chemical vapour deposition. Nature Electronics, 2022, 5, 28-36.	13.1	44
126	Carbon nanotube-based flexible electrothermal film heaters with a high heating rate. Royal Society Open Science, 2018, 5, 172072.	1.1	43

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127	Asymmetric hot-carrier thermalization and broadband photoresponse in graphene-2D semiconductor lateral heterojunctions. Science Advances, 2019, 5, eaav1493.	4.7	43
128	Designing artificial two-dimensional landscapes via atomic-layer substitution. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	43
129	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. Applied Physics Letters, 2007, 90, 131109.	1.5	42
130	Investigation about tribological behavior of ABS and PC-ABS polymers coated with graphene. Tribology International, 2019, 134, 335-340.	3.0	40
131	Large Single Crystals of Two-Dimensional Ï€-Conjugated Metalâ€“Organic Frameworks via Biphasic Solution-Solid Growth. ACS Central Science, 2021, 7, 104-109.	5.3	40
132	Observation of Excitonâ€“Exciton Interaction Mediated Valley Depolarization in Monolayer MoSe₂. Nano Letters, 2018, 18, 223-228.	4.5	39
133	M13 Virus Aerogels as a Scaffold for Functional Inorganic Materials. Advanced Functional Materials, 2017, 27, 1603203.	7.8	37
134	Generating Sub-nanometer Pores in Single-Layer MoS₂ by Heavy-Ion Bombardment for Gas Separation: A Theoretical Perspective. ACS Applied Materials & Interfaces, 2018, 10, 28909-28917.	4.0	37
135	Spectroscopic Signatures of Interlayer Coupling in Janus MoSSe/MoS₂ Heterostructures. ACS Nano, 2021, 15, 14394-14403.	7.3	36
136	Chirality-dependent frequency shift of radial breathing mode in metallic carbon nanotubes. Physical Review B, 2008, 78, .	1.1	35
137	Concurrent Synthesis of Highâ€Performance Monolayer Transition Metal Disulfides. Advanced Functional Materials, 2017, 27, 1605896.	7.8	35
138	Suppression of Tumor Energy Supply by Liposomal Nanoparticle-Mediated Inhibition of Aerobic Glycolysis. ACS Applied Materials & Interfaces, 2018, 10, 2347-2353.	4.0	35
139	Raman spectroscopy of double-walled carbon nanotubes treated with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	1.1	34
140	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
141	Chirality-Dependent Second Harmonic Generation of MoS₂ Nanoscroll with Enhanced Efficiency. ACS Nano, 2020, 14, 13333-13342.	7.3	34
142	Direct Prediction of Phonon Density of States With Euclidean Neural Networks. Advanced Science, 2021, 8, e2004214.	5.6	34
143	Single-layer graphene on silicon nitride micromembrane resonators. Journal of Applied Physics, 2014, 115, 054513.	1.1	33
144	A Currentâ€“Voltage Model for Graphene Electrolyte-Gated Field-Effect Transistors. IEEE Transactions on Electron Devices, 2014, 61, 3971-3977.	1.6	33

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145	Sustainable Synthesis of Biomass-Derived Carbon Electrodes with Hybrid Energy-Storage Behaviors for Use in High-Performance Na-Ion Capacitors. ACS Applied Energy Materials, 2020, 3, 2478-2489.	2.5	33
146	Raman characterization of electronic transition energies of metallic single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	32
147	Waterproof molecular monolayers stabilize 2D materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20844-20849.	3.3	32
148	Light Management in Organic Photovoltaics Processed in Ambient Conditions Using ZnO Nanowire and Antireflection Layer with Nanocone Array. Small, 2019, 15, e1900508.	5.2	31
149	Hard, transparent, sp3-containing 2D phase formed from few-layer graphene under compression. Carbon, 2021, 173, 744-757.	5.4	31
150	Large Variations of the Raman Signal in the Spectra of Twisted Bilayer Graphene on a BN Substrate. Journal of Physical Chemistry Letters, 2012, 3, 796-799.	2.1	30
151	An Alternative Hole Transport Layer for Both ITOâ€•and Grapheneâ€Based Organic Solar Cells. Advanced Energy Materials, 2014, 4, 1301280.	10.2	29
152	Raman Enhancement of Blood Constituent Proteins Using Graphene. ACS Photonics, 2018, 5, 2978-2982.	3.2	29
153	Efficient and Stable Mesoscopic Perovskite Solar Cells Using PDTITT as a New Hole Transporting Layer. Advanced Functional Materials, 2019, 29, 1905887.	7.8	29
154	Repeated roll-to-roll transfer of two-dimensional materials by electrochemical delamination. Nanoscale, 2018, 10, 5522-5531.	2.8	28
155	Ferroelectric memory field-effect transistors using CVD monolayer MoS2 as resistive switching channel. Applied Physics Letters, 2020, 116, .	1.5	28
156	Ultrasensitive micro/nanocrack-based graphene nanowall strain sensors derived from the substrate's Poisson's ratio effect. Journal of Materials Chemistry A, 2020, 8, 10310-10317.	5.2	28
157	Facile graphene transfer directly to target substrates with a reusable metal catalyst. Nanoscale, 2015, 7, 14807-14812.	2.8	27
158	Electrical Homogeneity of Large-Area Chemical Vapor Deposited Multilayer Hexagonal Boron Nitride Sheets. ACS Applied Materials & Interfaces, 2017, 9, 39895-39900.	4.0	27
159	Colossal switchable photocurrents in topological Janus transition metal dichalcogenides. Npj Computational Materials, 2021, 7, .	3.5	27
160	Synthesis of Highâ€Performance Monolayer Molybdenum Disulfide at Low Temperature. Small Methods, 2021, 5, e2000720.	4.6	27
161	Loop formation in graphitic nanoribbon edges using furnace heating or Joule heating. Journal of Vacuum Science & Technology B, 2009, 27, 1996.	1.3	26
162	A facile tool for the characterization of two-dimensional materials grown by chemical vapor deposition. Nano Research, 2012, 5, 504-511.	5.8	26

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163	Direct measurement of the Raman enhancement factor of rhodamine 6G on graphene under resonant excitation. Nano Research, 2014, 7, 1271-1279.	5.8	26
164	Effect of rare earth Ce on the microstructure, physical properties and thermal stability of a new lead-free solder. Journal of Mining and Metallurgy, Section B: Metallurgy, 2011, 47, 11-21.	0.3	26
165	Low-Swing Signaling on Monolithically Integrated Global Graphene Interconnects. IEEE Transactions on Electron Devices, 2010, 57, 3418-3425.	1.6	25
166	Strain-Correlated Localized Exciton Energy in Atomically Thin Semiconductors. ACS Photonics, 2020, 7, 1135-1140.	3.2	25
167	Electrothermal Control of Graphene Plasmonâ€“Phonon Polaritons. Advanced Materials, 2017, 29, 1700566.	11.1	24
168	Monolayer Tungsten Disulfide (WS₂) via Chlorineâ€Driven Chemical Vapor Transport. Small, 2017, 13, 1701232.	5.2	24
169	A relatively wide-bandgap and air-stable donor polymer for fabrication of efficient semitransparent and tandem organic photovoltaics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22037-22043.	3.3	24
170	Efficient, Flexible, and Ultraâ€Lightweight Inverted PbS Quantum Dots Solar Cells on Allâ€CVDâ€Growth of Parylene/Graphene/oCVD PEDOT Substrate with High Powerâ€perâ€Weight. Advanced Materials Interfaces, 2020, 7, 2000498.	1.9	24
171	Soft-lock drawing of super-aligned carbon nanotube bundles for nanometre electrical contacts. Nature Nanotechnology, 2022, 17, 278-284.	15.6	24
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