

Jing Kong

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248
papers

27,585
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76
h-index

164
g-index

275
ext. papers

31,884
ext. citations

12.8
avg, IF

7.03
L-index

#	Paper	IF	Citations
248	Large area, few-layer graphene films on arbitrary substrates by chemical vapor deposition. <i>Nano Letters</i> , 2009 , 9, 30-5	11.5	4737
247	Advances in molecular quantum chemistry contained in the Q-Chem 4 program package. <i>Molecular Physics</i> , 2015 , 113, 184-215	1.7	2068
246	Intrinsic structural defects in monolayer molybdenum disulfide. <i>Nano Letters</i> , 2013 , 13, 2615-22	11.5	1418
245	Synthesis of monolayer hexagonal boron nitride on Cu foil using chemical vapor deposition. <i>Nano Letters</i> , 2012 , 12, 161-6	11.5	902
244	van der Waals epitaxy of MoS ₂ layers using graphene as growth templates. <i>Nano Letters</i> , 2012 , 12, 2784-91	11.5	788
243	Can graphene be used as a substrate for Raman enhancement?. <i>Nano Letters</i> , 2010 , 10, 553-61	11.5	771
242	Selective ionic transport through tunable subnanometer pores in single-layer graphene membranes. <i>Nano Letters</i> , 2014 , 14, 1234-41	11.5	569
241	Role of the seeding promoter in MoS ₂ growth by chemical vapor deposition. <i>Nano Letters</i> , 2014 , 14, 464-72	11.5	534
240	Synthesis and transfer of single-layer transition metal disulfides on diverse surfaces. <i>Nano Letters</i> , 2013 , 13, 1852-7	11.5	524
239	Spinning and Processing Continuous Yarns from 4-Inch Wafer Scale Super-Aligned Carbon Nanotube Arrays. <i>Advanced Materials</i> , 2006 , 18, 1505-1510	24	512
238	Work function engineering of graphene electrode via chemical doping. <i>ACS Nano</i> , 2010 , 4, 2689-94	16.7	444
237	Transferring and Identification of Single- and Few-Layer Graphene on Arbitrary Substrates. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17741-17744	3.8	433
236	Growth of large-area single- and Bi-layer graphene by controlled carbon precipitation on polycrystalline Ni surfaces. <i>Nano Research</i> , 2009 , 2, 509-516	10	417
235	Dielectric screening of excitons and trions in single-layer MoS ₂ . <i>Nano Letters</i> , 2014 , 14, 5569-76	11.5	399
234	Raman enhancement effect on two-dimensional layered materials: graphene, h-BN and MoS ₂ . <i>Nano Letters</i> , 2014 , 14, 3033-40	11.5	351
233	Valley-selective optical Stark effect in monolayer WS ₂ . <i>Nature Materials</i> , 2015 , 14, 290-4	27	338
232	Electronic transport and device prospects of monolayer molybdenum disulphide grown by chemical vapour deposition. <i>Nature Communications</i> , 2014 , 5, 3087	17.4	327

231	Synthesis of large-area multilayer hexagonal boron nitride for high material performance. <i>Nature Communications</i> , 2015 , 6, 8662	17.4	298
230	MoS Field-Effect Transistor with Sub-10 nm Channel Length. <i>Nano Letters</i> , 2016 , 16, 7798-7806	11.5	283
229	Intercalation-conversion hybrid cathodes enabling LiS full-cell architectures with jointly superior gravimetric and volumetric energy densities. <i>Nature Energy</i> , 2019 , 4, 374-382	62.3	282
228	Remote epitaxy through graphene enables two-dimensional material-based layer transfer. <i>Nature</i> , 2017 , 544, 340-343	50.4	273
227	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. <i>Nano Letters</i> , 2016 , 16, 2260-7	11.5	266
226	Large-Area Synthesis of High-Quality Uniform Few-Layer MoTe ₂ . <i>Journal of the American Chemical Society</i> , 2015 , 137, 11892-5	16.4	248
225	A MoTe-based light-emitting diode and photodetector for silicon photonic integrated circuits. <i>Nature Nanotechnology</i> , 2017 , 12, 1124-1129	28.7	229
224	Nanofiltration across Defect-Sealed Nanoporous Monolayer Graphene. <i>Nano Letters</i> , 2015 , 15, 3254-60	11.5	229
223	The influence of strong electron and hole doping on the Raman intensity of chemical vapor-deposition graphene. <i>ACS Nano</i> , 2010 , 4, 6055-63	16.7	211
222	Surface Engineering of TiO ₂ ETL for Highly Efficient and Hysteresis-Less Planar Perovskite Solar Cell (21.4%) with Enhanced Open-Circuit Voltage and Stability. <i>Advanced Energy Materials</i> , 2018 , 8, 1800794	21.8	193
221	Trion-induced negative photoconductivity in monolayer MoS ₂ . <i>Physical Review Letters</i> , 2014 , 113, 166807	11.4	180
220	Probing the ultimate plasmon confinement limits with a van der Waals heterostructure. <i>Science</i> , 2018 , 360, 291-295	33.3	179
219	Flexible graphene electrode-based organic photovoltaics with record-high efficiency. <i>Nano Letters</i> , 2014 , 14, 5148-54	11.5	179
218	Controllable Perovskite Crystallization via Antisolvent Technique Using Chloride Additives for Highly Efficient Planar Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1803587	21.8	174
217	Probing the interlayer coupling of twisted bilayer MoS ₂ using photoluminescence spectroscopy. <i>Nano Letters</i> , 2014 , 14, 5500-8	11.5	168
216	Two-dimensional MoS-enabled flexible rectenna for Wi-Fi-band wireless energy harvesting. <i>Nature</i> , 2019 , 566, 368-372	50.4	164
215	Parallel Stitching of 2D Materials. <i>Advanced Materials</i> , 2016 , 28, 2322-9	24	161
214	Large-area monolayer hexagonal boron nitride on Pt foil. <i>ACS Nano</i> , 2014 , 8, 8520-8	16.7	160

213	Low-Frequency Interlayer Breathing Modes in Few-Layer Black Phosphorus. <i>Nano Letters</i> , 2015 , 15, 4080-85	11.5	154
212	Ultralow contact resistance between semimetal and monolayer semiconductors. <i>Nature</i> , 2021 , 593, 211-217	30.7	154
211	Leveraging Nanocavity Harmonics for Control of Optical Processes in 2D Semiconductors. <i>Nano Letters</i> , 2015 , 15, 3578-84	11.5	152
210	Revealing molecular-level surface redox sites of controllably oxidized black phosphorus nanosheets. <i>Nature Materials</i> , 2019 , 18, 156-162	27	150
209	Direct transfer of graphene onto flexible substrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 17762-7	11.5	148
208	Geometrical approach for the study of G? band in the Raman spectrum of monolayer graphene, bilayer graphene, and bulk graphite. <i>Physical Review B</i> , 2008 , 77,	3.3	145
207	Two-dimensional halide perovskite lateral epitaxial heterostructures. <i>Nature</i> , 2020 , 580, 614-620	50.4	142
206	In-Plane Optical Anisotropy of Layered Gallium Telluride. <i>ACS Nano</i> , 2016 , 10, 8964-72	16.7	140
205	Fast water transport in graphene nanofluidic channels. <i>Nature Nanotechnology</i> , 2018 , 13, 238-245	28.7	139
204	Molecular selectivity of graphene-enhanced Raman scattering. <i>Nano Letters</i> , 2015 , 15, 2892-901	11.5	136
203	Tuning Electronic Structure of Single Layer MoS through Defect and Interface Engineering. <i>ACS Nano</i> , 2018 , 12, 2569-2579	16.7	133
202	Transition from Diffusion-Controlled Intercalation into Extrinsicly Pseudocapacitive Charge Storage of MoS ₂ by Nanoscale Heterostructuring. <i>Advanced Energy Materials</i> , 2016 , 6, 1501115	21.8	133
201	Low-Frequency Interlayer Raman Modes to Probe Interface of Twisted Bilayer MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 1435-44	11.5	130
200	Intervalley biexcitons and many-body effects in monolayer MoS ₂ . <i>Physical Review B</i> , 2015 , 92,	3.3	130
199	All graphene electromechanical switch fabricated by chemical vapor deposition. <i>Applied Physics Letters</i> , 2009 , 95, 183105	3.4	126
198	Chalcogenide glass-on-graphene photonics. <i>Nature Photonics</i> , 2017 , 11, 798-805	33.9	125
197	Paraffin-enabled graphene transfer. <i>Nature Communications</i> , 2019 , 10, 867	17.4	122
196	Reversibly Compressible, Highly Elastic, and Durable Graphene Aerogels for Energy Storage Devices under Limiting Conditions. <i>Advanced Functional Materials</i> , 2015 , 25, 1053-1062	15.6	121

195	One-dimensional van der Waals heterostructures. <i>Science</i> , 2020 , 367, 537-542	33.3	119
194	Metal-Level Thermally Conductive yet Soft Graphene Thermal Interface Materials. <i>ACS Nano</i> , 2019 , 13, 11561-11571	16.7	117
193	Lighting up the Raman signal of molecules in the vicinity of graphene related materials. <i>Accounts of Chemical Research</i> , 2015 , 48, 1862-70	24.3	115
192	High Luminescence Efficiency in MoS ₂ Grown by Chemical Vapor Deposition. <i>ACS Nano</i> , 2016 , 10, 6535-416.7	16.7	115
191	Impact of Graphene Interface Quality on Contact Resistance and RF Device Performance. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1008-1010	4.4	111
190	Visibly-Transparent Organic Solar Cells on Flexible Substrates with All-Graphene Electrodes. <i>Advanced Energy Materials</i> , 2016 , 6, 1600847	21.8	108
189	Atomically precise single-crystal structures of electrically conducting 2D metal-organic frameworks. <i>Nature Materials</i> , 2021 , 20, 222-228	27	104
188	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	13	103
187	Design, Modeling, and Fabrication of Chemical Vapor Deposition Grown MoS Circuits with E-Mode FETs for Large-Area Electronics. <i>Nano Letters</i> , 2016 , 16, 6349-6356	11.5	102
186	The effect of copper pre-cleaning on graphene synthesis. <i>Nanotechnology</i> , 2013 , 24, 365602	3.4	102
185	Impact of chlorine functionalization on high-mobility chemical vapor deposition grown graphene. <i>ACS Nano</i> , 2013 , 7, 7262-70	16.7	98
184	Tuning ultrafast electron thermalization pathways in a van der Waals heterostructure. <i>Nature Physics</i> , 2016 , 12, 455-459	16.2	96
183	Semiconducting-to-metallic photoconductivity crossover and temperature-dependent Drude weight in graphene. <i>Physical Review Letters</i> , 2014 , 113, 056602	7.4	95
182	Raman evidence for pressure-induced formation of diamondene. <i>Nature Communications</i> , 2017 , 8, 96	17.4	94
181	Electrophoretic and field-effect graphene for all-electrical DNA array technology. <i>Nature Communications</i> , 2014 , 5, 4866	17.4	90
180	Anomalous Behaviors of Graphene Transparent Conductors in Graphene/Bilicon Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2013 , 3, 1029-1034	21.8	90
179	Synthesis of High-Quality Large-Area Homogenous 1TPMoTe from Chemical Vapor Deposition. <i>Advanced Materials</i> , 2016 , 28, 9526-9531	24	88
178	Broadband optical properties of large-area monolayer CVD molybdenum disulfide. <i>Physical Review B</i> , 2014 , 90,	3.3	88

177	Graphene-on-Insulator Transistors Made Using C on Ni Chemical-Vapor Deposition. <i>IEEE Electron Device Letters</i> , 2009 , 30, 745-747	4.4	88
176	Nanoporous Atomically Thin Graphene Membranes for Desalting and Dialysis Applications. <i>Advanced Materials</i> , 2017 , 29, 1700277	24	85
175	Porous Cu Nanowire Aerosponges from One-Step Assembly and their Applications in Heat Dissipation. <i>Advanced Materials</i> , 2016 , 28, 1413-9	24	85
174	A facile methodology for the production of in situ inorganic nanowire hydrogels/aerogels. <i>Nano Letters</i> , 2014 , 14, 1810-7	11.5	80
173	pH sensing properties of graphene solution-gated field-effect transistors. <i>Journal of Applied Physics</i> , 2013 , 114, 084505	2.5	76
172	Omnidirectionally Stretchable and Transparent Graphene Electrodes. <i>ACS Nano</i> , 2016 , 10, 9446-9455	16.7	75
171	Enhancing the Sensitivity of Percolative Graphene Films for Flexible and Transparent Pressure Sensor Arrays. <i>Advanced Functional Materials</i> , 2016 , 26, 5061-5067	15.6	72
170	Observation of Exciton Redshift-Blueshift Crossover in Monolayer WS. <i>Nano Letters</i> , 2017 , 17, 4210-4216	11.5	68
169	Chemiresistive Graphene Sensors for Ammonia Detection. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16169-16176	9.5	67
168	A Rational Strategy for Graphene Transfer on Substrates with Rough Features. <i>Advanced Materials</i> , 2016 , 28, 2382-92	24	63
167	Growth Mechanism of Long and Horizontally Aligned Carbon Nanotubes by Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 7292-7297	3.8	62
166	Large, valley-exclusive Bloch-Siegert shift in monolayer WS. <i>Science</i> , 2017 , 355, 1066-1069	33.3	61
165	Synthetic Lateral Metal-Semiconductor Heterostructures of Transition Metal Disulfides. <i>Journal of the American Chemical Society</i> , 2018 , 140, 12354-12358	16.4	60
164	Observation of suppressed terahertz absorption in photoexcited graphene. <i>Applied Physics Letters</i> , 2013 , 102, 113111	3.4	59
163	Compact Virtual-Source Current-Voltage Model for Top- and Back-Gated Graphene Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 1523-1533	2.9	59
162	A review of large-area bilayer graphene synthesis by chemical vapor deposition. <i>Nanoscale</i> , 2015 , 7, 20335-20351	35.7	58
161	Challenges and opportunities for graphene as transparent conductors in optoelectronics. <i>Nano Today</i> , 2015 , 10, 681-700	17.9	58
160	Graphene-Based Thermopile for Thermal Imaging Applications. <i>Nano Letters</i> , 2015 , 15, 7211-6	11.5	57

159	Breakdown Current Density of CVD-Grown Multilayer Graphene Interconnects. <i>IEEE Electron Device Letters</i> , 2011 , 32, 557-559	4.4	56
158	Unconventional ferroelectricity in moiré heterostructures. <i>Nature</i> , 2020 , 588, 71-76	50.4	56
157	Hot Electron Transistor with van der Waals Base-Collector Heterojunction and High-Performance GaN Emitter. <i>Nano Letters</i> , 2017 , 17, 3089-3096	11.5	55
156	Curvature-induced optical phonon frequency shift in metallic carbon nanotubes. <i>Physical Review B</i> , 2008 , 77,	3.3	52
155	Far-field excitation of single graphene plasmon cavities with ultracompressed mode volumes. <i>Science</i> , 2020 , 368, 1219-1223	33.3	48
154	Epitaxial growth of large-area and highly crystalline anisotropic ReSe ₂ atomic layer. <i>Nano Research</i> , 2017 , 10, 2732-2742	10	47
153	Role of Molecular Sieves in the CVD Synthesis of Large-Area 2D MoTe ₂ . <i>Advanced Functional Materials</i> , 2017 , 27, 1603491	15.6	46
152	Coupling-Enhanced Broadband Mid-infrared Light Absorption in Graphene Plasmonic Nanostructures. <i>ACS Nano</i> , 2016 , 10, 11172-11178	16.7	46
151	Phonon Polaritons in Monolayers of Hexagonal Boron Nitride. <i>Advanced Materials</i> , 2019 , 31, e1806603	24	44
150	Growing highly pure semiconducting carbon nanotubes by electrotwisting the helicity. <i>Nature Catalysis</i> , 2018 , 1, 326-331	36.5	42
149	Tuning, optimization, and perovskite solar cell device integration of ultrathin poly(3,4-ethylene dioxithiophene) films via a single-step all-dry process. <i>Science Advances</i> , 2019 , 5, eaay0414	14.3	42
148	Multifunctional PVDF/CNT/GO mixed matrix membranes for ultrafiltration and fouling detection. <i>Journal of Hazardous Materials</i> , 2020 , 384, 120978	12.8	41
147	Engineering single-atom dynamics with electron irradiation. <i>Science Advances</i> , 2019 , 5, eaav2252	14.3	39
146	Ultrasmall Mode Volumes in Plasmonic Cavities of Nanoparticle-On-Mirror Structures. <i>Small</i> , 2016 , 12, 5190-5199	11	39
145	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. <i>Applied Physics Letters</i> , 2007 , 90, 131109	3.4	38
144	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	11.5	37
143	Low-Temperature Copper Bonding Strategy with Graphene Interlayer. <i>ACS Nano</i> , 2018 , 12, 2395-2402	16.7	36
142	Giant intrinsic photoresponse in pristine graphene. <i>Nature Nanotechnology</i> , 2019 , 14, 145-150	28.7	36

141	Efficient Semitransparent CsPbI ₃ Quantum Dots Photovoltaics Using a Graphene Electrode. <i>Small Methods</i> , 2019 , 3, 1900449	12.8	35
140	Observation of Intervalley Biexcitonic Optical Stark Effect in Monolayer WS ₂ . <i>Nano Letters</i> , 2016 , 16, 7421-7426	17.4	35
139	Facile Fabrication of Large-Area Atomically Thin Membranes by Direct Synthesis of Graphene with Nanoscale Porosity. <i>Advanced Materials</i> , 2018 , 30, e1804977	24	35
138	Blood-triggered generation of platinum nanoparticle functions as an anti-cancer agent. <i>Nature Communications</i> , 2020 , 11, 567	17.4	34
137	Heavy Water Additive in Formamidinium: A Novel Approach to Enhance Perovskite Solar Cell Efficiency. <i>Advanced Materials</i> , 2020 , 32, e1907864	24	34
136	Raman spectroscopy of double-walled carbon nanotubes treated with H ₂ SO ₄ . <i>Physical Review B</i> , 2007 , 76,	3.3	34
135	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	15.6	32
134	X-Ray Spectroscopic Investigation of Chlorinated Graphene: Surface Structure and Electronic Effects. <i>Advanced Functional Materials</i> , 2015 , 25, 4163-4169	15.6	32
133	Chirality-dependent frequency shift of radial breathing mode in metallic carbon nanotubes. <i>Physical Review B</i> , 2008 , 78,	3.3	32
132	Raman characterization of electronic transition energies of metallic single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	32
131	Concurrent Synthesis of High-Performance Monolayer Transition Metal Disulfides. <i>Advanced Functional Materials</i> , 2017 , 27, 1605896	15.6	31
130	Effects of gamma radiation sterilization on the structural and biological properties of decellularized corneal xenografts. <i>Acta Biomaterialia</i> , 2019 , 96, 330-344	10.8	31
129	Theory for microwave thermal emission from a layer of cloud or rain. <i>IEEE Transactions on Antennas and Propagation</i> , 1977 , 25, 650-657		31
128	Sensitive Phonon-Based Probe for Structure Identification of 1TPMoTe. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8396-8399	16.4	30
127	Carbon nanotube-based flexible electrothermal film heaters with a high heating rate. <i>Royal Society Open Science</i> , 2018 , 5, 172072	3.3	30
126	Large Variations of the Raman Signal in the Spectra of Twisted Bilayer Graphene on a BN Substrate. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 796-9	6.4	30
125	Asymmetric hot-carrier thermalization and broadband photoresponse in graphene-2D semiconductor lateral heterojunctions. <i>Science Advances</i> , 2019 , 5, eaav1493	14.3	27
124	Observation of Exciton-Exciton Interaction Mediated Valley Depolarization in Monolayer MoSe ₂ . <i>Nano Letters</i> , 2018 , 18, 223-228	11.5	27

123	A Current-Voltage Model for Graphene Electrolyte-Gated Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2014 , 61, 3971-3977	2.9	26
122	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	11.5	25
121	An Alternative Hole Transport Layer for Both ITO- and Graphene-Based Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301280	21.8	25
120	Single-layer graphene on silicon nitride micromembrane resonators. <i>Journal of Applied Physics</i> , 2014 , 115, 054513	2.5	25
119	M13 Virus Aerogels as a Scaffold for Functional Inorganic Materials. <i>Advanced Functional Materials</i> , 2017 , 27, 1603203	15.6	24
118	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	11.5	24
117	Light Management in Organic Photovoltaics Processed in Ambient Conditions Using ZnO Nanowire and Antireflection Layer with Nanocone Array. <i>Small</i> , 2019 , 15, e1900508	11	24
116	Facile graphene transfer directly to target substrates with a reusable metal catalyst. <i>Nanoscale</i> , 2015 , 7, 14807-12	7.7	24
115	A facile tool for the characterization of two-dimensional materials grown by chemical vapor deposition. <i>Nano Research</i> , 2012 , 5, 504-511	10	24
114	Loop formation in graphitic nanoribbon edges using furnace heating or Joule heating. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 1996		24
113	Multi-Level Electro-Thermal Switching of Optical Phase-Change Materials Using Graphene. <i>Advanced Photonics Research</i> , 2021 , 2, 2000034	1.9	24
112	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17499-17507	16.4	23
111	Novel Core-Shell (PMnO/CeO) ₂ @CeO ₂ Composite Catalyst with a Synergistic Effect for Efficient Formaldehyde Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 40285-40295	9.5	23
110	CVD Technology for 2-D Materials. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4040-4052	2.9	23
109	Repeated roll-to-roll transfer of two-dimensional materials by electrochemical delamination. <i>Nanoscale</i> , 2018 , 10, 5522-5531	7.7	22
108	Suppression of Tumor Energy Supply by Liposomal Nanoparticle-Mediated Inhibition of Aerobic Glycolysis. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2347-2353	9.5	22
107	Generating Sub-nanometer Pores in Single-Layer MoS ₂ by Heavy-Ion Bombardment for Gas Separation: A Theoretical Perspective. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 28909-28917	9.5	22
106	Effect of rare earth Ce on the microstructure, physical properties and thermal stability of a new lead-free solder. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2011 , 47, 11-21	1	22

105	Deep-Learning-Enabled Fast Optical Identification and Characterization of 2D Materials. <i>Advanced Materials</i> , 2020 , 32, e2000953	24	21
104	Investigation about tribological behavior of ABS and PC-ABS polymers coated with graphene. <i>Tribology International</i> , 2019 , 134, 335-340	4.9	21
103	Electrothermal Control of Graphene Plasmon-Phonon Polaritons. <i>Advanced Materials</i> , 2017 , 29, 170056624	24	20
102	The hierarchical porosity of a three-dimensional graphene electrode for binder-free and high performance supercapacitors. <i>RSC Advances</i> , 2016 , 6, 8384-8394	3.7	20
101	Direct measurement of the Raman enhancement factor of rhodamine 6G on graphene under resonant excitation. <i>Nano Research</i> , 2014 , 7, 1271-1279	10	20
100	Efficient and tumor-specific knockdown of MTDH gene attenuates paclitaxel resistance of breast cancer cells both in vivo and in vitro. <i>Breast Cancer Research</i> , 2018 , 20, 113	8.3	20
99	Efficient and Stable Mesoscopic Perovskite Solar Cells Using PDTITT as a New Hole Transporting Layer. <i>Advanced Functional Materials</i> , 2019 , 29, 1905887	15.6	19
98	Monolayer Tungsten Disulfide (WS ₂) via Chlorine-Driven Chemical Vapor Transport. <i>Small</i> , 2017 , 13, 1701232	15.6	19
97	Temporal and spatial valley dynamics in two-dimensional semiconductors probed via Kerr rotation. <i>Physical Review B</i> , 2017 , 95,	3.3	18
96	Raman Enhancement of Blood Constituent Proteins Using Graphene. <i>ACS Photonics</i> , 2018 , 5, 2978-2982	6.3	18
95	Using gate-modulated Raman scattering and electron-phonon interactions to probe single-layer graphene: A different approach to assign phonon combination modes. <i>Physical Review B</i> , 2012 , 86,	3.3	17
94	Current on/off ratio enhancement of field effect transistors with bundled carbon nanotubes. <i>Journal of Applied Physics</i> , 2009 , 106, 104505	2.5	17
93	Low-Swing Signaling on Monolithically Integrated Global Graphene Interconnects. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 3418-3425	2.9	17
92	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	6.1	17
91	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	11.5	16
90	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	16.8	16
89	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	13	15
88	Electrical Homogeneity of Large-Area Chemical Vapor Deposited Multilayer Hexagonal Boron Nitride Sheets. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39895-39900	9.5	15

87	Hard, transparent, sp ³ -containing 2D phase formed from few-layer graphene under compression. <i>Carbon</i> , 2021 , 173, 744-757	10.4	15
86	In Situ-Generated Volatile Precursor for CVD Growth of a Semimetallic 2D Dichalcogenide. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34401-34408	9.5	15
85	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	4.6	14
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