

Feng Ding

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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|--------------------|--------------------------|-----------------|-----------------|
| 323 papers | 15,616 citations | 66 h-index | 114 g-index |
| 351 ext. papers | 17,991 ext. citations | 10.5 avg, IF | 6.88 L-index |

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 323 | Spiral growth of adlayer graphene.. <i>Advanced Materials</i> , 2022 , e2107587 | 24 | 3 |
| 322 | Impact of Anthropogenic Emission Changes on the Occurrence of Equatorial Plasma Bubbles. <i>Geophysical Research Letters</i> , 2022 , 49, | 4.9 | 0 |
| 321 | Mechanism of alcohol chemical vapor deposition growth of carbon nanotubes: Catalyst oxidation. <i>Carbon</i> , 2022 , 191, 1-9 | 10.4 | 1 |
| 320 | Robust growth of two-dimensional metal dichalcogenides and their alloys by active chalcogen monomer supply.. <i>Nature Communications</i> , 2022 , 13, 1007 | 17.4 | 3 |
| 319 | Chloroform-Assisted Rapid Growth of Vertical Graphene Array and Its Application in Thermal Interface Materials.. <i>Advanced Science</i> , 2022 , e2200737 | 13.6 | 3 |
| 318 | Single-crystal two-dimensional material epitaxy on tailored non-single-crystal substrates.. <i>Nature Communications</i> , 2022 , 13, 1773 | 17.4 | 2 |
| 317 | Multiple 2D Phase Transformations in Monolayer Transition Metal Chalcogenides.. <i>Advanced Materials</i> , 2022 , e2200643 | 24 | 1 |
| 316 | Stabilization of Black Phosphorene by Edge-Selective Adsorption of C60 Molecules. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 6874-6879 | 3.8 | 0 |
| 315 | Focused Lunar Imaging Experiment Using the Back Projection Algorithm Based on Sanya Incoherent Scatter Radar. <i>Remote Sensing</i> , 2022 , 14, 2048 | 5 | 0 |
| 314 | Catalytic growth of ultralong graphene nanoribbons on insulating substrates.. <i>Advanced Materials</i> , 2022 , e2200956 | 24 | 0 |
| 313 | Silica Particle-Mediated Growth of Single Crystal Graphene Ribbons on Cu(111) Foil.. <i>Small</i> , 2022 , e2202536 | 53.6 | 0 |
| 312 | Epitaxial single-crystal hexagonal boron nitride multilayers on Ni (111). <i>Nature</i> , 2022 , 606, 88-93 | 50.4 | 14 |
| 311 | Size-Dependent Chemomechanical Failure of Sulfide Solid Electrolyte Particles during Electrochemical Reaction with Lithium.. <i>Nano Letters</i> , 2021 , | 11.5 | 5 |
| 310 | Dynamic State and Active Structure of Ni-Co Catalyst in Carbon Nanofiber Growth Revealed by Transmission Electron Microscopy. <i>ACS Nano</i> , 2021 , | 16.7 | 4 |
| 309 | Mechanism of Corrugated Graphene Moiré Superstructures on Transition-Metal Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56674-56681 | 9.5 | 0 |
| 308 | Temperature-dependent selective nucleation of single-walled carbon nanotubes from stabilized catalyst nanoparticles. <i>Chemical Engineering Journal</i> , 2021 , 431, 133487 | 14.7 | 5 |
| 307 | Dual-coupling-guided epitaxial growth of wafer-scale single-crystal WS monolayer on vicinal a-plane sapphire. <i>Nature Nanotechnology</i> , 2021 , | 28.7 | 31 |

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|-----|--|------|----|
| 306 | Growth and Selective Etching of Twinned Graphene on Liquid Copper Surface (Small 40/2021). <i>Small</i> , 2021 , 17, 2170210 | 11 | |
| 305 | Probing Atomic-Scale Fracture of Grain Boundaries in Low-symmetry 2D Materials. <i>Small</i> , 2021 , e21027391 | 3 | |
| 304 | Evoking ordered vacancies in metallic nanostructures toward a vacated Barlow packing for high-performance hydrogen evolution. <i>Science Advances</i> , 2021 , 7, | 14.3 | 25 |
| 303 | The Mechanism of Graphene Vapor-Solid Growth on Insulating Substrates. <i>ACS Nano</i> , 2021 , 15, 7399-7408 | 16.7 | 8 |
| 302 | Latitudinal Variations of Daytime Periodic Ionospheric Disturbances From Beidou GEO TEC Observations Over China. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2020JA028809 | 2.6 | 3 |
| 301 | Catalyst particle size dependent carbon nanotube cloning. <i>Carbon</i> , 2021 , 175, 69-76 | 10.4 | 2 |
| 300 | Mechanism of MoS ₂ Growth on a Au(111) Surface: An Ab Initio Molecular Dynamics Study. <i>Chemistry of Materials</i> , 2021 , 33, 3241-3248 | 9.6 | 5 |
| 299 | Structural Evolution of Boron Clusters on Ag(111) Surfaces - From Atomic Chains to Triangular Sheets with Hexagonal Holes. <i>ChemPhysChem</i> , 2021 , 22, 894-903 | 3.2 | 0 |
| 298 | A Detection Performance Analysis of Sanya Incoherent Scatter Radar Tristatic System. <i>Radio Science</i> , 2021 , 56, e2020RS007144 | 1.4 | 1 |
| 297 | Realizing the Intrinsic Anisotropic Growth of 1T' ReS ₂ on Selected Au(101) Substrate toward Large-Scale Single Crystal Fabrication. <i>Advanced Functional Materials</i> , 2021 , 31, 2102138 | 15.6 | 9 |
| 296 | Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. <i>Chemistry of Materials</i> , 2021 , 33, 2506-2515 | 9.6 | 5 |
| 295 | High Temperature Accelerated Stone-Wales Transformation and the Threshold Temperature of IPR-C Formation. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4548-4557 | 2.8 | 1 |
| 294 | Epitaxial Growth of 2D Materials on High-Index Substrate Surfaces. <i>Advanced Functional Materials</i> , 2021 , 31, 2100503 | 15.6 | 10 |
| 293 | Anisotropic Angstrom-Wide Conductive Channels in Black Phosphorus by Top-down Cu Intercalation. <i>Nano Letters</i> , 2021 , 21, 6336-6342 | 11.5 | 5 |
| 292 | Strategies, Status, and Challenges in Wafer Scale Single Crystalline Two-Dimensional Materials Synthesis. <i>Chemical Reviews</i> , 2021 , 121, 6321-6372 | 68.1 | 28 |
| 291 | The stable interfaces between various edges of hBN and step edges of Cu surface in hBN epitaxial growth: a comprehensive theoretical exploration. <i>2D Materials</i> , 2021 , 8, 034004 | 5.9 | 3 |
| 290 | A comprehensive assessment of empirical potentials for carbon materials. <i>APL Materials</i> , 2021 , 9, 061103 | 3.7 | 10 |
| 289 | Sub-4 nm Nanodiamonds from Graphene-Oxide and Nitrated Polycyclic Aromatic Hydrocarbons at 423 K. <i>ACS Nano</i> , 2021 , | 16.7 | 2 |

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|-----|--|------|----|
| 288 | Theoretical calculation boosting the chemical vapor deposition growth of graphene film. <i>APL Materials</i> , 2021 , 9, 060906 | 5.7 | 0 |
| 287 | Graphitization with Suppressed Carbon Loss for High-Quality Reduced Graphene Oxide. <i>ACS Nano</i> , 2021 , | 16.7 | 5 |
| 286 | Reconstructed edges of T phase transition metal dichalcogenides. <i>Materials Today Physics</i> , 2021 , 19, 100411 | 8 | 3 |
| 285 | Homoepitaxial growth of ZnO nanostructures from bulk ZnO. <i>Journal of Colloid and Interface Science</i> , 2021 , 586, 135-141 | 9.3 | |
| 284 | Simulation of the Signal-to-Noise Ratio of Sanya Incoherent Scatter Radar Tristatic System. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 59, 2982-2993 | 8.1 | 1 |
| 283 | Etching of two-dimensional materials. <i>Materials Today</i> , 2021 , 42, 192-213 | 21.8 | 16 |
| 282 | Self-passivation leads to semiconducting edges of black phosphorene. <i>Nanoscale Horizons</i> , 2021 , 6, 148-155 | 15.5 | 4 |
| 281 | The complementary graphene growth and etching revealed by large-scale kinetic Monte Carlo simulation. <i>Npj Computational Materials</i> , 2021 , 7, | 10.9 | 7 |
| 280 | How Single-Walled Carbon Nanotubes are Transformed into Multiwalled Carbon Nanotubes during Heat Treatment. <i>ACS Omega</i> , 2021 , 6, 4074-4079 | 3.9 | 1 |
| 279 | The Wet-Oxidation of a Cu(111) Foil Coated by Single Crystal Graphene. <i>Advanced Materials</i> , 2021 , 33, e2102697 | 24 | 5 |
| 278 | Theoretical Study of Chemical Vapor Deposition Synthesis of Graphene and Beyond: Challenges and Perspectives. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 7942-7963 | 6.4 | 2 |
| 277 | Understanding Single-Walled Carbon Nanotube Growth for Chirality Controllable Synthesis. <i>Accounts of Materials Research</i> , 2021 , 2, 828-841 | 7.5 | 5 |
| 276 | Lithium Deposition-Induced Fracture of Carbon Nanotubes and Its Implication to Solid-State Batteries. <i>Nano Letters</i> , 2021 , 21, 6859-6866 | 11.5 | 4 |
| 275 | Chemical Etching of Screw Dislocated Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2021 , 21, 7815-7822 | 22.5 | 4 |
| 274 | Growth and Selective Etching of Twinned Graphene on Liquid Copper Surface. <i>Small</i> , 2021 , 17, e2103484 | 41.1 | 2 |
| 273 | Stabilities of Isomers of Phosphorus on Transition Metal Substrates. <i>Chemistry of Materials</i> , 2021 , 33, 9447-9453 | 9.6 | 1 |
| 272 | 2D Materials: Two-Dimensional Palladium Diselenide with Strong In-Plane Optical Anisotropy and High Mobility Grown by Chemical Vapor Deposition (Adv. Mater. 19/2020). <i>Advanced Materials</i> , 2020 , 32, 2070152 | 24 | 1 |
| 271 | Seeded growth of large single-crystal copper foils with high-index facets. <i>Nature</i> , 2020 , 581, 406-410 | 50.4 | 68 |

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| 270 | The alignment-dependent properties and applications of graphene moiré superstructures on the Ru(0001) surface. <i>Nanoscale</i> , 2020 , 12, 12831-12839 | 7.7 | 2 |
| 269 | Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2001483 | 15.6 | 15 |
| 268 | Two-Dimensional Palladium Diselenide with Strong In-Plane Optical Anisotropy and High Mobility Grown by Chemical Vapor Deposition. <i>Advanced Materials</i> , 2020 , 32, e1906238 | 24 | 54 |
| 267 | Molecular dynamics simulation of graphene sinking during chemical vapor deposition growth on semi-molten Cu substrate. <i>Npj Computational Materials</i> , 2020 , 6, | 10.9 | 18 |
| 266 | Structures of Multiple Large-Scale Traveling Ionospheric Disturbances Observed by Dense Global Navigation Satellite System Networks in China. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027032 | 2.6 | 2 |
| 265 | Mechanisms of Liquid-Phase Exfoliation for the Production of Graphene. <i>ACS Nano</i> , 2020 , 14, 10976-10985 | 5.7 | 59 |
| 264 | The Coalescence Behavior of Two-Dimensional Materials Revealed by Multiscale Imaging during Chemical Vapor Deposition Growth. <i>ACS Nano</i> , 2020 , 14, 1902-1918 | 16.7 | 24 |
| 263 | Roles of Transition Metal Substrates in Graphene Chemical Vapor Deposition Growth. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 2012006-0 | 3.8 | 2 |
| 262 | Chemically induced transformation of chemical vapour deposition grown bilayer graphene into fluorinated single-layer diamond. <i>Nature Nanotechnology</i> , 2020 , 15, 59-66 | 28.7 | 100 |
| 261 | Borophene with Large Holes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 6235-6241 | 6.4 | 9 |
| 260 | The epitaxy of 2D materials growth. <i>Nature Communications</i> , 2020 , 11, 5862 | 17.4 | 44 |
| 259 | Precise Identification of the Active Phase of Cobalt Catalyst for Carbon Nanotube Growth by Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 , | 16.7 | 18 |
| 258 | Nanopatterned Graphene: Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes (Adv. Funct. Mater. 31/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070209 | 15.6 | 1 |
| 257 | Environment-dependent edge reconstruction of transition metal dichalcogenides: a global search. <i>Materials Today Advances</i> , 2020 , 8, 100079 | 7.4 | 9 |
| 256 | Family of Magic-Sized Carbon Clusters on Transition Metal Substrates. <i>Advanced Functional Materials</i> , 2020 , 30, 2006671 | 15.6 | 2 |
| 255 | The wrinkle formation in graphene on transition metal substrate: a molecular dynamics study. <i>International Journal of Smart and Nano Materials</i> , 2020 , 11, 277-287 | 3.6 | 7 |
| 254 | The magic-sized carbon clusters on the transition metal surfaces with a four-fold symmetry. <i>Carbon</i> , 2020 , 156, 282-286 | 10.4 | 6 |
| 253 | Local Carbon Concentration Determines the Graphene Edge Structure. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3451-3457 | 6.4 | 10 |

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| 252 | Coupling Between E Region Quasi-Periodic Echoes and F Region Medium-Scale Traveling Ionospheric Disturbances at Low Latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027720 | 2.6 | 1 |
| 251 | East-West Difference in the Ionospheric Response of the March 1989 Great Magnetic Storm Throughout East Asian Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9364-9380 | 2.6 | 0 |
| 250 | Size-Dependent Phase Transformation of Noble Metal Nanomaterials. <i>Small</i> , 2019 , 15, e1903253 | 11 | 7 |
| 249 | How the moiré superstructure determines the formation of highly stable graphene quantum dots on Ru(0001) surface. <i>Nanoscale Horizons</i> , 2019 , 4, 625-633 | 10.8 | 3 |
| 248 | Giant thermal conductivity in diamane and the influence of horizontal reflection symmetry on phonon scattering. <i>Nanoscale</i> , 2019 , 11, 4248-4257 | 7.7 | 34 |
| 247 | How a Solid Catalyst Determines the Chirality of the Single-Wall Carbon Nanotube Grown on It. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 735-741 | 6.4 | 15 |
| 246 | The geometry of hexagonal boron nitride clusters in the initial stages of chemical vapor deposition growth on a Cu(111) surface. <i>Nanoscale</i> , 2019 , 11, 13366-13376 | 7.7 | 11 |
| 245 | Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. <i>Nature</i> , 2019 , 570, 91-95 | 50.4 | 247 |
| 244 | Stable AA-Stacked Pt Nanoclusters Supported on Graphene/Ru(0001) and the Selective Catalysis: A Theoretical Study. <i>ACS Applied Nano Materials</i> , 2019 , 2, 2921-2925 | 5.6 | 5 |
| 243 | Formation of Twinned Graphene Polycrystals. <i>Angewandte Chemie</i> , 2019 , 131, 7805-7809 | 3.6 | 4 |
| 242 | Medium-Scale Traveling Ionospheric Disturbances Induced by Typhoon Chan-hom Over China. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2223-2237 | 2.6 | 7 |
| 241 | Highly stable phosphorene isomers based on a buckled honeycomb lattice. <i>Nanoscale</i> , 2019 , 11, 7135-7139 | 7.7 | 13 |
| 240 | Double-Spiral Hexagonal Boron Nitride and Shear Strained Coalescence Boundary. <i>Nano Letters</i> , 2019 , 19, 4229-4236 | 11.5 | 9 |
| 239 | Advance in Close-Edged Graphene Nanoribbon: Property Investigation and Structure Fabrication. <i>Small</i> , 2019 , 15, e1804473 | 11 | 16 |
| 238 | Morphology Evolution of Graphene during Chemical Vapor Deposition Growth: A Phase-Field Theory Simulation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9902-9908 | 3.8 | 9 |
| 237 | Formation of Twinned Graphene Polycrystals. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7723-7727 | 16.2 | 14 |
| 236 | Controllable Growth of (n, n ⁺) Family of Semiconducting Carbon Nanotubes. <i>Chem</i> , 2019 , 5, 1182-1193 | 16.2 | 27 |
| 235 | Nitrogen cluster doping for high-mobility/conductivity graphene films with millimeter-sized domains. <i>Science Advances</i> , 2019 , 5, eaaw8337 | 14.3 | 39 |

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| 234 | Ultrafast Catalyst-Free Graphene Growth on Glass Assisted by Local Fluorine Supply. <i>ACS Nano</i> , 2019 , 13, 10272-10278 | 16.7 | 19 |
| 233 | Kinetic modulation of graphene growth by fluorine through spatially confined decomposition of metal fluorides. <i>Nature Chemistry</i> , 2019 , 11, 730-736 | 17.6 | 61 |
| 232 | The strength of mechanically-exfoliated monolayer graphene deformed on a rigid polymer substrate. <i>Nanoscale</i> , 2019 , 11, 14339-14353 | 7.7 | 12 |
| 231 | In situ epitaxial engineering of graphene and h-BN lateral heterostructure with a tunable morphology comprising h-BN domains. <i>NPG Asia Materials</i> , 2019 , 11, | 10.3 | 22 |
| 230 | Nanoassembly Growth Model for Subdomain and Grain Boundary Formation in 1T? Layered ReS ₂ . <i>Advanced Functional Materials</i> , 2019 , 29, 1906385 | 15.6 | 30 |
| 229 | Charge Transfer during the Dissociation of H ₂ and the Charge State of H Atoms in Liquid Gallium. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26769-26776 | 3.8 | 3 |
| 228 | Grain boundaries in chemical-vapor-deposited atomically thin hexagonal boron nitride. <i>Physical Review Materials</i> , 2019 , 3, | 3.2 | 14 |
| 227 | Thickness Tunable Wedding-Cake-like MoS Flakes for High-Performance Optoelectronics. <i>ACS Nano</i> , 2019 , 13, 3649-3658 | 16.7 | 52 |
| 226 | Contact-Induced Phase Separation of Alloy Catalyst to Promote Carbon Nanotube Growth. <i>Physical Review Letters</i> , 2019 , 123, 256101 | 7.4 | 8 |
| 225 | Grain Boundaries: Nanoassembly Growth Model for Subdomain and Grain Boundary Formation in 1T? Layered ReS ₂ (Adv. Funct. Mater. 49/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970335 | 15.6 | 1 |
| 224 | Growth kinetics of single-walled carbon nanotubes with a (2,) chirality selection. <i>Science Advances</i> , 2019 , 5, eaav9668 | 14.3 | 32 |
| 223 | Kinetics of Graphene and 2D Materials Growth. <i>Advanced Materials</i> , 2019 , 31, e1801583 | 24 | 53 |
| 222 | Is there chiral correlation between graphitic layers in double-wall carbon nanotubes?. <i>Carbon</i> , 2019 , 144, 147-151 | 10.4 | 14 |
| 221 | The kinetics of chirality assignment in catalytic single-walled carbon nanotube growth and the routes towards selective growth. <i>Chemical Science</i> , 2018 , 9, 3056-3061 | 9.4 | 30 |
| 220 | Ultralarge elastic deformation of nanoscale diamond. <i>Science</i> , 2018 , 360, 300-302 | 33.3 | 151 |
| 219 | Vapour-liquid-solid growth of monolayer MoS nanoribbons. <i>Nature Materials</i> , 2018 , 17, 535-542 | 27 | 185 |
| 218 | Vanadium Dioxide-Graphene Composite with Ultrafast Anchoring Behavior of Polysulfides for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15733-15741 | 9.5 | 70 |
| 217 | Mechanically Assisted Self-Healing of Ultrathin Gold Nanowires. <i>Small</i> , 2018 , 14, e1704085 | 11 | 14 |

- 216 In Situ Assembly of 2D Conductive Vanadium Disulfide with Graphene as a High-Sulfur-Loading Host for Lithium-Sulfur Batteries. *Advanced Energy Materials*, **2018**, 8, 1800201 21.8 146
- 215 Two Day Wave Traveling Westward With Wave Number 1 During the Sudden Stratospheric Warming in January 2017. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3005-3013 2.6 15
- 214 Thermodynamics and Kinetics of Graphene Growth on Ni(111) and the Origin of Triangular Shaped Graphene Islands. *Journal of Physical Chemistry C*, **2018**, 122, 3334-3340 3.8 5
- 213 Orientation-Dependent Strain Relaxation and Chemical Functionalization of Graphene on a Cu(111) Foil. *Advanced Materials*, **2018**, 30, 1706504 24 41
- 212 In situ atomic-scale observation of monolayer graphene growth from SiC. *Nano Research*, **2018**, 11, 2809-2820 11.2 15
- 211 Greatly Enhanced Anticorrosion of Cu by Commensurate Graphene Coating. *Advanced Materials*, **2018**, 30, 1702944 24 85
- 210 Selective growth of two-dimensional phosphorene on catalyst surface. *Nanoscale*, **2018**, 10, 2255-2259 7.7 20
- 209 Raman Spectral Band Oscillations in Large Graphene Bubbles. *Physical Review Letters*, **2018**, 120, 186104 7.4 26
- 208 How graphene crosses a grain boundary on the catalyst surface during chemical vapour deposition growth. *Nanoscale*, **2018**, 10, 6878-6883 7.7 12
- 207 How Low Nucleation Density of Graphene on CuNi Alloy is Achieved. *Advanced Science*, **2018**, 5, 1700961 13.6 19
- 206 Ultrathin graphdiyne film on graphene through solution-phase van der Waals epitaxy. *Science Advances*, **2018**, 4, eaat6378 14.3 134
- 205 Chirality-controlled synthesis of single-walled carbon nanotubes from mechanistic studies toward experimental realization. *Materials Today*, **2018**, 21, 845-860 21.8 21
- 204 What Drives Metal-Surface Step Bunching in Graphene Chemical Vapor Deposition?. *Physical Review Letters*, **2018**, 120, 246101 7.4 34
- 203 In Situ Atomic-Scale Observation of Surface-Tension-Induced Structural Transformation of Ag-NiP Core-Shell Nanocrystals. *ACS Nano*, **2018**, 12, 7197-7205 16.7 8
- 202 Anchoring effect of Ni²⁺ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. *Carbon*, **2018**, 128, 249-256 10.4 25
- 201 Depletion and Traveling Ionospheric Disturbances Generated by Two Launches of China's Long March 4B Rocket. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 10,319 2.6 4
- 200 Diverse Atomically Sharp Interfaces and Linear Dichroism of 1T'-ReS₂-ReSe₂ Lateral p-n Heterojunctions. *Advanced Functional Materials*, **2018**, 28, 1804696 15.6 35
- 199 Colossal grain growth yields single-crystal metal foils by contact-free annealing. *Science*, **2018**, 362, 1021-1025 107 107

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| 198 | In-situ PECVD-enabled graphene-V ₂ O ₃ hybrid host for lithium-sulfur batteries. <i>Nano Energy</i> , 2018 , 53, 432-439 | 17.1 | 76 |
| 197 | Anomalous twin boundaries in two dimensional materials. <i>Nature Communications</i> , 2018 , 9, 3597 | 17.4 | 30 |
| 196 | The formation and stability of junctions in single-wall carbon nanotubes. <i>Nanotechnology</i> , 2018 , 29, 485702 | 17.4 | 2 |
| 195 | Highly Oriented Monolayer Graphene Grown on a Cu/Ni(111) Alloy Foil. <i>ACS Nano</i> , 2018 , 12, 6117-6127 | 16.7 | 100 |
| 194 | In situ edge engineering in two-dimensional transition metal dichalcogenides. <i>Nature Communications</i> , 2018 , 9, 2051 | 17.4 | 60 |
| 193 | Camphor-Enabled Transfer and Mechanical Testing of Centimeter-Scale Ultrathin Films. <i>Advanced Materials</i> , 2018 , 30, e1800888 | 24 | 24 |
| 192 | Formation Mechanism, Growth Kinetics, and Stability Limits of Graphene Adlayers in Metal-Catalyzed CVD Growth. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800255 | 4.6 | 10 |
| 191 | Synchronous immobilization and conversion of polysulfides on a VO ₂ /N binary host targeting high sulfur load LiS batteries. <i>Energy and Environmental Science</i> , 2018 , 11, 2620-2630 | 35.4 | 327 |
| 190 | Energetics and kinetics of phase transition between a 2H and a 1T MoS monolayer-a theoretical study. <i>Nanoscale</i> , 2017 , 9, 2301-2309 | 7.7 | 47 |
| 189 | Global ionospheric electron density estimation based on multisource TEC data assimilation. <i>GPS Solutions</i> , 2017 , 21, 1125-1137 | 4.4 | 17 |
| 188 | A Catalytic Etching-Wetting-Dewetting Mechanism in the Formation of Hollow Graphitic Carbon Fiber. <i>Chem</i> , 2017 , 2, 299-310 | 16.2 | 38 |
| 187 | Controlling the orientations of h-BN during growth on transition metals by chemical vapor deposition. <i>Nanoscale</i> , 2017 , 9, 3561-3567 | 7.7 | 18 |
| 186 | Arrays of horizontal carbon nanotubes of controlled chirality grown using designed catalysts. <i>Nature</i> , 2017 , 543, 234-238 | 50.4 | 251 |
| 185 | Formation mechanism of overlapping grain boundaries in graphene chemical vapor deposition growth. <i>Chemical Science</i> , 2017 , 8, 2209-2214 | 9.4 | 31 |
| 184 | Ionospheric response following the Mw 7.8 Gorkha earthquake on 25 April 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6495-6507 | 2.6 | 4 |
| 183 | The Way towards Ultrafast Growth of Single-Crystal Graphene on Copper. <i>Advanced Science</i> , 2017 , 4, 1700087 | 13.6 | 32 |
| 182 | Edge-Controlled Growth and Etching of Two-Dimensional GaSe Monolayers. <i>Journal of the American Chemical Society</i> , 2017 , 139, 482-491 | 16.4 | 50 |
| 181 | Mechanisms and theoretical simulations of the catalytic growth of nanocarbons. <i>MRS Bulletin</i> , 2017 , 42, 794-801 | 3.2 | 6 |

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| 180 | Ultrafast epitaxial growth of metre-sized single-crystal graphene on industrial Cu foil. <i>Science Bulletin</i> , 2017 , 62, 1074-1080 | 10.6 | 326 |
| 179 | The transition metal surface dependent methane decomposition in graphene chemical vapor deposition growth. <i>Nanoscale</i> , 2017 , 9, 11584-11589 | 7.7 | 52 |
| 178 | Isomerization of sp ² -hybridized carbon nanomaterials: structural transformation and topological defects of fullerene, carbon nanotube, and graphene. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2017 , 7, e1283 | 7.9 | 13 |
| 177 | GPS detection of the ionospheric disturbances over China due to impacts of Typhoons Rammasum and Matmo. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1055-1063 | 2.6 | 19 |
| 176 | Seed-Assisted Growth of Single-Crystalline Patterned Graphene Domains on Hexagonal Boron Nitride by Chemical Vapor Deposition. <i>Nano Letters</i> , 2016 , 16, 6109-6116 | 11.5 | 56 |
| 175 | Surface Monocrystallization of Copper Foil for Fast Growth of Large Single-Crystal Graphene under Free Molecular Flow. <i>Advanced Materials</i> , 2016 , 28, 8968-8974 | 24 | 110 |
| 174 | Impurity-induced formation of bilayered graphene on copper by chemical vapor deposition. <i>Nano Research</i> , 2016 , 9, 2803-2810 | 10 | 19 |
| 173 | Dynamic modulation of the transport properties of the LaAlO ₃ /SrTiO ₃ interface using uniaxial strain. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 7 |
| 172 | Stacking sequence and interlayer coupling in few-layer graphene revealed by in situ imaging. <i>Nature Communications</i> , 2016 , 7, 13256 | 17.4 | 66 |
| 171 | Epitaxial nucleation of CVD bilayer graphene on copper. <i>Nanoscale</i> , 2016 , 8, 20001-20007 | 7.7 | 5 |
| 170 | Chemical vapor deposition synthesis of near-zigzag single-walled carbon nanotubes with stable tube-catalyst interface. <i>Science Advances</i> , 2016 , 2, e1501729 | 14.3 | 50 |
| 169 | The Great Reduction of a Carbon Nanotube's Mechanical Performance by a Few Topological Defects. <i>ACS Nano</i> , 2016 , 10, 6410-5 | 16.7 | 25 |
| 168 | Interwall Friction and Sliding Behavior of Centimeters Long Double-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2016 , 16, 1367-74 | 11.5 | 28 |
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