

Shixuan Du

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.

314
papers

11,048
citations

53
h-index

97
g-index

342
ext. papers

13,479
ext. citations

8.3
avg, IF

6.17
L-index

#	Paper	IF	Citations
3 ¹⁴	Nanoscale Control of One-Dimensional Confined States in Strongly Correlated Homojunctions.. <i>Nano Letters</i> , 2022 ,	11.5	6
3 ¹³	Observation of an Incommensurate Charge Density Wave in Monolayer TiSe ₂ /CuSe/Cu(111) Heterostructure.. <i>Physical Review Letters</i> , 2022 , 128, 026401	7.4	1
3 ¹²	Reversible Self-Assembly of N-Heterocyclic Carbene on Metal Surfaces.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	1
3 ¹¹	Engineering the Local Atomic Environments of Indium Single-Atom Catalysts for Efficient Electrochemical Production of Hydrogen Peroxide.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	8
3 ¹⁰	Twisted charge-density-wave patterns in bilayer 2D crystals and modulated electronic states. <i>2D Materials</i> , 2022 , 9, 014007	5.9	4
3 ⁰⁹	Research progress on exotic properties of several Van der Waals ferroelectrics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 ,	0.6	0
3 ⁰⁸	Size Dependence of Charge-Density-Wave Orders in Single-Layer NbSe Hetero/Homophase Junctions.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 1901-1907	6.4	1
3 ⁰⁷	Atomic-scale visualization of chiral charge density wave superlattices and their reversible switching.. <i>Nature Communications</i> , 2022 , 13, 1843	17.4	2
3 ⁰⁶	An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of two-dimensional materials. <i>Information Materials</i> , 2022 , 4,	23.1	6
3 ⁰⁵	Surface atomic manipulation of low-dimensional structures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 ,	0.6	
3 ⁰⁴	Local Density of States Modulated by Strain in Marginally Twisted Bilayer Graphene. <i>Chinese Physics Letters</i> , 2022 , 39, 047403	1.8	0
3 ⁰³	Rational Design of Heteroanionic Two-Dimensional Materials with Emerging Topological, Magnetic, and Dielectric Properties.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3594-3601	6.4	4
3 ⁰²	Thermal transport of monolayer amorphous carbon and boron nitride. <i>Applied Physics Letters</i> , 2022 , 120, 222201	3.4	0
3 ⁰¹	Anisotropic Carrier Mobility from 2H WSe. <i>Advanced Materials</i> , 2021 , e2108615	24	2
3 ⁰⁰	Two distinct superconducting states controlled by orientations of local wrinkles in LiFeAs. <i>Nature Communications</i> , 2021 , 12, 6312	17.4	1
299	Intrinsically Honeycomb-Patterned Hydrogenated Graphene. <i>Small</i> , 2021 , e2102687	11	
298	Anisotropic point defects in rhenium diselenide monolayers. <i>iScience</i> , 2021 , 24, 103456	6.1	0

297	Controllable fabrication and photocatalytic performance of nanoscale single-layer MoSe islands with substantial edges on an Ag(111) substrate. <i>Nanoscale</i> , 2021 , 13, 19165-19171	7.7	3
296	A DFT Investigation on the Electronic Structures and Au Adatom Assisted Hydrogenation of Graphene Nanoflake Array. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 1110-1115	2.2	1
295	Manipulation of Dirac Fermions in Nanochain-Structured Graphene. <i>Chinese Physics Letters</i> , 2021 , 38, 097101	1.8	1
294	A time-shared switching scheme designed for multi-probe scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2021 , 92, 103702	1.7	1
293	PTCDA Molecular Monolayer on Pb Thin Films: An Unusual π -Electron Kondo System and Its Interplay with a Quantum-Confined Superconductor. <i>Physical Review Letters</i> , 2021 , 127, 186805	7.4	2
292	Direct identification of Mott Hubbard band pattern beyond charge density wave superlattice in monolayer 1T-NbSe. <i>Nature Communications</i> , 2021 , 12, 1978	17.4	12
291	Observation of magnetic adatom-induced Majorana vortex and its hybridization with field-induced Majorana vortex in an iron-based superconductor. <i>Nature Communications</i> , 2021 , 12, 1348	17.4	7
290	Construction of poly-naphthalocyanine linked by [4]-radialene-like structures on silver surfaces. <i>Nano Research</i> , 2021 , 14, 4563	10	0
289	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. <i>Small Structures</i> , 2021 , 2, 2000153	8.7	9
288	Tuning Molecular Superlattice by Charge-Density-Wave Patterns in Two-Dimensional Monolayer Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 3545-3551	6.4	8
287	Spin-polarized oxygen evolution reaction under magnetic field. <i>Nature Communications</i> , 2021 , 12, 2608	17.4	52
286	Atomically sharp interface enabled ultrahigh-speed non-volatile memory devices. <i>Nature Nanotechnology</i> , 2021 , 16, 882-887	28.7	26
285	Database Construction for Two-Dimensional Material-Substrate Interfaces. <i>Chinese Physics Letters</i> , 2021 , 38, 066801	1.8	2
284	Spin pinning effect to reconstructed oxyhydroxide layer on ferromagnetic oxides for enhanced water oxidation. <i>Nature Communications</i> , 2021 , 12, 3634	17.4	31
283	Monolayer Iridium Sulfide Halides with High Mobility Transport Anisotropy and Highly Efficient Light Harvesting. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 6007-6013	6.4	5
282	Recent progress of scanning tunneling microscopy/spectroscopy study of Majorana bound states in the FeTe _{0.55} Se _{0.45} superconductor. <i>Superconductor Science and Technology</i> , 2021 , 34, 073001	3.1	1
281	Semiconducting M ₂ X (M = Cu, Ag, Au; X = S, Se, Te) monolayers: A broad range of band gaps and high carrier mobilities. <i>Nano Research</i> , 2021 , 14, 2826-2830	10	4
280	Majorana zero modes in impurity-assisted vortex of LiFeAs superconductor. <i>Nature Communications</i> , 2021 , 12, 4146	17.4	3

279	Silver Single-Atom Catalyst for Efficient Electrochemical CO Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6170-6176	16.4	98
278	Silver Single-Atom Catalyst for Efficient Electrochemical CO ₂ Reduction Synthesized from Thermal Transformation and Surface Reconstruction. <i>Angewandte Chemie</i> , 2021 , 133, 6235-6241	3.6	10
277	Two-dimensional MX Dirac materials and quantum spin Hall insulators with tunable electronic and topological properties. <i>Nano Research</i> , 2021 , 14, 584-589	10	5
276	Adsorption of 4,4'-Diamino-p-Terphenyl on Cu(001): A First-Principles Study. <i>Surfaces</i> , 2021 , 4, 31-38	2.9	
275	Edge- and strain-induced band bending in bilayer-monolayer Pb ₂ Se ₃ heterostructures. <i>Chinese Physics B</i> , 2021 , 30, 018105	1.2	5
274	Half-auxetic effect and ferroelasticity in a two-dimensional monolayer TiSe. <i>Journal of Physics Condensed Matter</i> , 2021 ,	1.8	1
273	Anomalous thickness dependence of Curie temperature in air-stable two-dimensional ferromagnetic 1T-CrTe grown by chemical vapor deposition. <i>Nature Communications</i> , 2021 , 12, 809	17.4	51
272	Honeycomb AgSe Monolayer Nanosheets for Studying Two-dimensional Dirac Nodal Line Fermions. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8845-8850	5.6	5
271	Tuning Strain Sensor Performance via Programmed Thin-Film Crack Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38105-38113	9.5	4
270	Advances in two-dimensional heterostructures by mono-element intercalation underneath epitaxial graphene. <i>Progress in Surface Science</i> , 2021 , 96, 100637	6.6	2
269	Electronic structures of vacancies in Co ₃ Sn ₂ S ₂ *. <i>Chinese Physics B</i> , 2021 , 30, 077102	1.2	1
268	Roton pair density wave in a strong-coupling kagome superconductor. <i>Nature</i> , 2021 , 599, 222-228	50.4	47
267	NBN-Doped Bis-Tetracene and Peri-Tetracene: Synthesis and Characterization. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26115-26121	16.4	6
266	Novel two-dimensional transition metal chalcogenides created by epitaxial growth. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	2
265	Ru ₁ Co _n Single-Atom Alloy for Enhancing Fischer-Tropsch Synthesis. <i>ACS Catalysis</i> , 2021 , 11, 1886-1896	13.1	16
264	Visualization of Charge-Density-Wave Reconstruction and Electronic Superstructure at the Edge of Correlated Insulator 1T-NbSe ₂ . <i>ACS Nano</i> , 2021 ,	16.7	4
263	Localized spin-orbit polaron in magnetic Weyl semimetal CoSnS. <i>Nature Communications</i> , 2020 , 11, 5613	17.4	26
262	Anisotropic High Carrier Mobilities of One-Third-Hydrogenated Group-V Elemental Monolayers. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12628-12635	3.8	0

261	Epitaxial fabrication of monolayer copper arsenide on Cu(111). <i>Chinese Physics B</i> , 2020 , 29, 077301	1.2	3
260	Two-Dimensional Rare Earth-Gold Intermetallic Compounds on Au(111) by Surface Alloying. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 4107-4112	6.4	5
259	Thermally Driven Diffusion of a Magic Number GoldBullerene Cluster on a Au(111) Surface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9990-9995	3.8	1
258	Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020 , 11, 2453	17.4	169
257	Force-Activated Isomerization of a Single Molecule. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10673-10680	16.4	7
256	Wrinkle-induced highly conductive channels in graphene on SiO/Si substrates. <i>Nanoscale</i> , 2020 , 12, 12038-12045	7.1	45
255	Highly Flexible Transparent Micromesh Electrodes via Blade-Coated Polymer Networks for Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31687-31695	9.5	10
254	Sizable Band Gap in Epitaxial Bilayer Graphene Induced by Silicene Intercalation. <i>Nano Letters</i> , 2020 , 20, 2674-2680	11.5	14
253	A unique pentagonal network structure of the NiS monolayer with high stability and a tunable bandgap. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 7483-7488	3.6	9
252	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie</i> , 2020 , 132, 8958-8964	3.6	8
251	Air-Stable Monolayer Cu Se Exhibits a Purely Thermal Structural Phase Transition. <i>Advanced Materials</i> , 2020 , 32, e1908314	24	12
250	Tuning the Catalytic Activity of a Quantum Nutcracker for Hydrogen Dissociation. <i>Surfaces</i> , 2020 , 3, 40-47.9	4.9	2
249	On-Surface Synthesis of NBN-Doped Zigzag-Edged Graphene Nanoribbons. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8873-8879	16.4	27
248	Stereoselective On-Surface Cyclodehydrofluorization of a Tetraphenylporphyrin and Homochiral Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 17413-17416	16.4	10
247	Integration of graphene and two-dimensional ferroelectrics: properties and related functional devices. <i>Nanoscale Horizons</i> , 2020 , 5, 1303-1308	10.8	3
246	Experimental Synthesis of Strained Monolayer Silver Arsenide on Ag(111) Substrates. <i>Chinese Physics Letters</i> , 2020 , 37, 068103	1.8	8
245	Unusual anisotropic thermal expansion in multilayer SnSe leads to positive-to-negative crossover of Poisson's ratio. <i>Applied Physics Letters</i> , 2020 , 116, 083101	3.4	1
244	Large-Area Fabrication of High-Performance Flexible and Wearable Pressure Sensors. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901310	6.4	27

243	Possible Luttinger liquid behavior of edge transport in monolayer transition metal dichalcogenide crystals. <i>Nature Communications</i> , 2020 , 11, 659	17.4	12
242	Visualizing Anisotropic Oxygen Diffusion in Ceria under Activated Conditions. <i>Physical Review Letters</i> , 2020 , 124, 056002	7.4	5
241	Quantum anomalous Hall effect in two-dimensional Cu-dicyanobenzene coloring-triangle lattice. <i>Nano Research</i> , 2020 , 13, 1571-1575	10	5
240	Two-Dimensional Crystals: Graphene, Silicene, Germanene, and Stanene. <i>Springer Handbooks</i> , 2020 , 243-266	2.6	6
239	Electrostatic gating of solid-ion-conductor on InSe flakes and InSe/h-BN heterostructures. <i>Chinese Physics B</i> , 2020 , 29, 118501	1.2	1
238	On-Surface Synthesis and Characterization of Polythiophene Chains. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 764-768	3.8	0
237	Nearly quantized conductance plateau of vortex zero mode in an iron-based superconductor. <i>Science</i> , 2020 , 367, 189-192	33.3	80
236	Quantum anomalous Hall effect in two-dimensional magnetic insulator heterojunctions. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	11
235	Auxetic two-dimensional transition metal selenides and halides. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	6
234	On-surface synthesis of size- and shape-controlled two-dimensional Au nanoclusters using a flexible fullerene molecular template. <i>Nanoscale</i> , 2020 , 12, 21657-21664	7.7	1
233	Direct Visualization of Hydrogen-Transfer Intermediate States by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1536-1541	6.4	1
232	A new Majorana platform in an Fe-As bilayer superconductor. <i>Nature Communications</i> , 2020 , 11, 5688	17.4	22
231	Layer-by-Layer Epitaxy of Porphyrin Ligand Fe(II)-Fe(III) Nanoarchitectures for Advanced Metal-Organic Framework Growth. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11752-11759	5.6	5
230	Insulating SiO under Centimeter-Scale, Single-Crystal Graphene Enables Electronic-Device Fabrication. <i>Nano Letters</i> , 2020 , 20, 8584-8591	11.5	12
229	Using graphene to suppress the selenization of Pt for controllable fabrication of monolayer PtSe ₂ . <i>Nano Research</i> , 2020 , 13, 3212-3216	10	2
228	Local probe of the interlayer coupling strength of few-layers SnSe by contact-resonance atomic force microscopy. <i>Frontiers of Physics</i> , 2020 , 15, 1	3.7	4
227	Fabrication and manipulation of nanosized graphene homojunction with atomically-controlled boundaries. <i>Nano Research</i> , 2020 , 13, 3286-3291	10	2
226	Ferroelectric-Gated InSe Photodetectors with High On/Off Ratios and Photoresponsivity. <i>Nano Letters</i> , 2020 , 20, 6666-6673	11.5	15

225	InSe/hBN/graphite heterostructure for high-performance 2D electronics and flexible electronics. <i>Nano Research</i> , 2020 , 13, 1127-1132	10	24
224	Behavior of superconductivity in a Pb/Ag heterostructure. <i>Physical Review B</i> , 2019 , 100,	3.3	3
223	Atomically precise, custom-design origami graphene nanostructures. <i>Science</i> , 2019 , 365, 1036-1040	33.3	95
222	Stabilizing the Fermi Level of Cr-Doped Magnetic Topological Insulators by Al Passivation. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3823-3828	3.8	3
221	Reversible Modification of Nitrogen-Doped Graphene Based on Se-N Dynamic Covalent Bonds for Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24360-24366	9.5	8
220	Low-temperature growth of large-scale, single-crystalline graphene on Ir(111). <i>Chinese Physics B</i> , 2019 , 28, 056107	1.2	8
219	Quasi-2D Transport and Weak Antilocalization Effect in Few-layered VSe. <i>Nano Letters</i> , 2019 , 19, 4551-4559	11.5	26
218	Modeling Atomic-Scale Electrical Contact Quality Across Two-Dimensional Interfaces. <i>Nano Letters</i> , 2019 , 19, 3654-3662	11.5	10
217	Spectroscopic signatures of edge states in hexagonal boron nitride. <i>Nano Research</i> , 2019 , 12, 1663-1667	10	6
216	Self-Assembly Evolution of Metal-Free Naphthalocyanine Molecules on Ag(111) at the Submonolayer Coverage. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7202-7208	3.8	3
215	Formation of Two-Dimensional AgTe Monolayer Atomic Crystal on Ag(111) Substrate. <i>Chinese Physics Letters</i> , 2019 , 36, 028102	1.8	13
214	Spontaneous Formation of 1D Pattern in Monolayer VSe with Dispersive Adsorption of Pt Atoms for HER Catalysis. <i>Nano Letters</i> , 2019 , 19, 4897-4903	11.5	31
213	Recovery of the Dirac states of graphene by intercalating two-dimensional traditional semiconductors. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 194001	1.8	4
212	Half-integer level shift of vortex bound states in an iron-based superconductor. <i>Nature Physics</i> , 2019 , 15, 1181-1187	16.2	69
211	Tunable giant magnetoresistance in a single-molecule junction. <i>Nature Communications</i> , 2019 , 10, 3599	17.4	21
210	Evidence of Topological Edge States in Buckled Antimonene Monolayers. <i>Nano Letters</i> , 2019 , 19, 6323-6329	11.5	40
209	Tin diselenide van der Waals materials as new candidates for mid-infrared waveguide chips. <i>Nanoscale</i> , 2019 , 11, 14113-14117	7.7	3
208	Fabrication of large-scale graphene/2D-germanium heterostructure by intercalation. <i>Chinese Physics B</i> , 2019 , 28, 078103	1.2	6

207	Direct probing of imperfection-induced electrical degradation in millimeter-scale graphene on SiO ₂ substrates. <i>2D Materials</i> , 2019 , 6, 045033	5.9	1
206	Observation of the Kondo Effect in Multilayer Single-Crystalline VTe Nanoplates. <i>Nano Letters</i> , 2019 , 19, 8572-8580	11.5	24
205	Orbital design of topological insulators from two-dimensional semiconductors. <i>Nanoscale</i> , 2019 , 11, 22743-22747	4.3	17
204	Quantum nutcracker for near-room-temperature H ₂ dissociation. <i>Science Bulletin</i> , 2019 , 64, 4-7	10.6	2
203	Barrierless On-Surface Metal Incorporation in Phthalocyanine-Based Molecules. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6678-6683	3.8	7
202	Epitaxial Growth of Honeycomb Monolayer CuSe with Dirac Nodal Line Fermions. <i>Advanced Materials</i> , 2018 , 30, e1707055	24	72
201	Epitaxial Growth of Flat Antimonene Monolayer: A New Honeycomb Analogue of Graphene. <i>Nano Letters</i> , 2018 , 18, 2133-2139	11.5	159
200	Manipulation of domain-wall solitons in bi- and trilayer graphene. <i>Nature Nanotechnology</i> , 2018 , 13, 204-208	20.8	44
199	Recovery of edge states of graphene nanoislands on an iridium substrate by silicon intercalation. <i>Nano Research</i> , 2018 , 11, 3722-3729	10	8
198	Electronic effects and fundamental physics studied in molecular interfaces. <i>Chemical Communications</i> , 2018 , 54, 5508-5517	5.8	3
197	Epitaxially grown monolayer VSe ₂ : an air-stable magnetic two-dimensional material with low work function at edges. <i>Science Bulletin</i> , 2018 , 63, 419-425	10.6	61
196	Chemistry of 4-[(4-bromophenyl)ethynyl]pyridine at metal surfaces studied by STM. <i>Chemical Communications</i> , 2018 , 54, 9305-9308	5.8	17
195	Intrinsic charge transport behaviors in graphene-black phosphorus van der Waals heterojunction devices. <i>Chinese Physics B</i> , 2018 , 27, 077303	1.2	3
194	Modification of the Potential Landscape of Molecular Rotors on Au(111) by the Presence of an STM Tip. <i>Nano Letters</i> , 2018 , 18, 4704-4709	11.5	17
193	Bandgap broadening at grain boundaries in single-layer MoS ₂ . <i>Nano Research</i> , 2018 , 11, 6102-6109	10	17
192	Tuning the morphology of chevron-type graphene nanoribbons by choice of annealing temperature. <i>Nano Research</i> , 2018 , 11, 6190-6196	10	13
191	High quality PdTe ₂ thin films grown by molecular beam epitaxy. <i>Chinese Physics B</i> , 2018 , 27, 086804	1.2	23
190	Design Rules for Self-Assembly of 2D Nanocrystal/Metal-Organic Framework Superstructures. <i>Angewandte Chemie</i> , 2018 , 130, 13356-13360	3.6	0

189	Symmetry breakdown of 4,4'-diamino-p-terphenyl on a Cu(111) surface by lattice mismatch. <i>Nature Communications</i> , 2018 , 9, 3277	17.4	24
188	Evidence for Majorana bound states in an iron-based superconductor. <i>Science</i> , 2018 , 362, 333-335	33.3	299
187	Design Rules for Self-Assembly of 2D Nanocrystal/Metal-Organic Framework Superstructures. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13172-13176	16.4	6
186	Thick Layered Semiconductor Devices with Water Top-Gates: High On-Off Ratio Field-Effect Transistors and Aqueous Sensors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23198-23207	9.5	13
185	A low-temperature scanning probe microscopy system with molecular beam epitaxy and optical access. <i>Review of Scientific Instruments</i> , 2018 , 89, 113705	1.7	2
184	Stable Silicene in Graphene/Silicene Van der Waals Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1804650	24.5	55
183	Controllable Density of Atomic Bromine in a Two-Dimensional Hydrogen Bond Network. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25681-25684	3.8	4
182	Construction of bilayer PdSe ₂ on epitaxial graphene. <i>Nano Research</i> , 2018 , 11, 5858-5865	10	62
181	Fabrication of Millimeter-Scale, Single-Crystal One-Third-Hydrogenated Graphene with Anisotropic Electronic Properties. <i>Advanced Materials</i> , 2018 , 30, e1801838	24	14
180	Epitaxial growth and physical properties of 2D materials beyond graphene: from monatomic materials to binary compounds. <i>Chemical Society Reviews</i> , 2018 , 47, 6073-6100	58.5	63
179	Sequence of Silicon Monolayer Structures Grown on a Ru Surface: from a Herringbone Structure to Silicene. <i>Nano Letters</i> , 2017 , 17, 1161-1166	11.5	67
178	Direct Evidence of Dirac Signature in Bilayer Germanene Islands on Cu(111). <i>Advanced Materials</i> , 2017 , 29, 1606046	24	72
177	Identifying and Visualizing the Edge Terminations of Single-Layer MoSe ₂ Island Epitaxially Grown on Au(111). <i>ACS Nano</i> , 2017 , 11, 1689-1695	16.7	35
176	Controlled Synthesis of Nitrogen-Doped Graphene on Ruthenium from Azafullerene. <i>Nano Letters</i> , 2017 , 17, 2887-2894	11.5	22
175	Moiré Superlattice-level stick-slip instability originated from geometrically corrugated graphene on a strongly interacting substrate. <i>2D Materials</i> , 2017 , 4, 025079	5.9	22
174	Upgrade of a commercial four-probe scanning tunneling microscopy system. <i>Review of Scientific Instruments</i> , 2017 , 88, 063704	1.7	12
173	Direct measurements of conductivity and mobility in millimeter-sized single-crystalline graphene via van der Pauw geometry. <i>Chinese Physics B</i> , 2017 , 26, 066801	1.2	8
172	Intrinsically patterned two-dimensional materials for selective adsorption of molecules and nanoclusters. <i>Nature Materials</i> , 2017 , 16, 717-721	27	105

171	From bidirectional rectifier to polarity-controllable transistor in black phosphorus by dual gate modulation. <i>2D Materials</i> , 2017 , 4, 025056	5.9	3
170	Epitaxial Growth and Air-Stability of Monolayer Antimonene on PdTe. <i>Advanced Materials</i> , 2017 , 29, 1605407	4.07	249
169	Construction of Two-Dimensional Chiral Networks through Atomic Bromine on Surfaces. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 326-331	6.4	23
168	Interatomic Spin Coupling in Manganese Clusters Registered on Graphene. <i>Physical Review Letters</i> , 2017 , 119, 176806	7.4	14
167	Thermo-controllable self-assembled structures of single-layer 4,4'-diamino-p-terphenyl molecules on Au (110) *. <i>Chinese Physics B</i> , 2017 , 26, 086801	1.2	4
166	Tip-triggered Thermal Cascade Manipulation of Magic Number Gold-Fullerene Clusters in the Scanning Tunnelling Microscope. <i>Nano Letters</i> , 2017 , 17, 6171-6176	11.5	13
165	Epitaxial fabrication of two-dimensional NiSe ₂ on Ni(111) substrate. <i>Applied Physics Letters</i> , 2017 , 111, 113107	3.4	21
164	Design of Two-Dimensional Graphene-like Dirac Materials XBeB (X = H, F, Cl) from Non-graphene-like B orophene. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4594-4599	6.4	18
163	Lattice-Directed Construction of Metal-Organic Molecular Wires of Pentacene on the Au(110) Surface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21650-21657	3.8	9
162	Evidence for Ultralow-Energy Vibrations in Large Organic Molecules. <i>Nano Letters</i> , 2017 , 17, 4929-4933	11.5	9
161	Direct Four-Probe Measurement of Grain-Boundary Resistivity and Mobility in Millimeter-Sized Graphene. <i>Nano Letters</i> , 2017 , 17, 5291-5296	11.5	48
160	Termination of Ge surfaces with ultrathin GeS and GeS layers via solid-state sulfurization. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32473-32480	3.6	15
159	Sulfur-doped graphene nanoribbons with a sequence of distinct band gaps. <i>Nano Research</i> , 2017 , 10, 3377-3384	10	33
158	Ballbot-type motion of N-heterocyclic carbenes on gold surfaces. <i>Nature Chemistry</i> , 2017 , 9, 152-156	17.6	138
157	Spin-polarized valley Hall effect in ultrathin silicon nanomembrane via interlayer antiferromagnetic coupling. <i>2D Materials</i> , 2016 , 3, 035026	5.9	7
156	Impurity-induced formation of bilayered graphene on copper by chemical vapor deposition. <i>Nano Research</i> , 2016 , 9, 2803-2810	10	19
155	Tunable Electronic Structures in Wrinkled 2D Transition-Metal-Trichalcogenide (TMT) HfTe ₃ Films. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600324	6.4	4
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