

Correlated insulator behaviour at half-filling in magic-a

Nature

556, 80-84

DOI: [10.1038/nature26154](https://doi.org/10.1038/nature26154)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Optics and response functions. , 2012, , 161-184.		2
2	Crystal lattice dynamics, structure and thermodynamics. , 0, , 205-242.		1
3	Scattering mechanisms and transport properties. , 0, , 266-300.		0
4	Unconventional superconductivity in magic-angle graphene superlattices. Nature, 2018, 556, 43-50.	13.7	5,221
5	Graphite, Graphene, and the Flat Band Superconductivity. JETP Letters, 2018, 107, 516-517.	0.4	136
6	Unconventional superconductivity discovered in graphene bilayers. Physics Today, 2018, 71, 15-19.	0.3	8
7	Electron single flexural phonon relaxation, energy loss and thermopower in single and bilayer graphene in the Bloch-Grüneisen regime. Journal of Physics Condensed Matter, 2018, 30, 485501.	0.7	4
8	Topological Superconductivity Could be a Twist Away. Physics Magazine, 2018, 11, .	0.1	1
9	Extremely flat band in bilayer graphene. Science Advances, 2018, 4, eaau0059.	4.7	89
10	Linear response of twisted bilayer graphene: Continuum versus tight-binding models. Physical Review B, 2018, 98, .	1.1	30
11	Realization of flat band with possible nontrivial topology in electronic Kagome lattice. Science Advances, 2018, 4, eaau4511.	4.7	131
12	A Molecular Dynamics Study of the Mechanical Properties of Twisted Bilayer Graphene. Micromachines, 2018, 9, 440.	1.4	20
13	Strain-Engineering of Twist-Angle in Graphene/hBN Superlattice Devices. Nano Letters, 2018, 18, 7919-7926.	4.5	25
14	Structural identification of silicene on the Ag(111) surface by atomic force microscopy. Physical Review B, 2018, 98, .	1.1	16
15	Photonic spin Hall effect in bilayer graphene moiré superlattices. Physical Review B, 2018, 98, .	1.1	50
16	Shear instability in twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	31
17	Chiral Spin Density Wave and Superconductivity in the Magic-Angle-Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 217001.	2.9	236
18	Ferromagnetism and Persistent Currents in Finely Dispersed Highly Oriented Pyrolytic Graphite Samples. Russian Physics Journal, 2018, 61, 1247-1251.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Nodeless superconductivity in a quasi-two-dimensional superconductor AuTe ₂ Se _{4/3} . Chinese Physics B, 2018, 27, 067401.	0.7	1
20	Charge-transfer insulation in twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	92
21	Strong electron-phonon coupling, electron-hole asymmetry, and nonadiabaticity in magic-angle twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	116
22	Crystallographic orientation errors in mechanical exfoliation. Journal of Physics Condensed Matter, 2018, 30, 475704.	0.7	3
23	Kohn-Luttinger superconductivity on two orbital honeycomb lattice. Physical Review B, 2018, 98, .	1.1	35
24	Ultraflatbands and Shear Solitons in Moiré Patterns of Twisted Bilayer Transition Metal Dichalcogenides. Physical Review Letters, 2018, 121, 266401.	2.9	297
25	Strong correlations and $d+id$ superconductivity in twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	174
26	Theory of Phonon-Mediated Superconductivity in Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 257001.	2.9	355
27	Emergent D_6 symmetry in fully relaxed magic-angle twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	67
28	Bogoliubov Fermi surfaces: General theory, magnetic order, and topology. Physical Review B, 2018, 98, .	1.1	86
29	Twisted graphene bilayer around the first magic angle engineered by heterostrain. Physical Review B, 2018, 98, .	1.1	70
30	Unconventional Superconductivity and Density Waves in Twisted Bilayer Graphene. Physical Review X, 2018, 8, .	2.8	240
31	Electronic phases in twisted bilayer graphene at magic angles as a result of Van Hove singularities and interactions. Physical Review B, 2018, 98, .	1.1	81
32	Bound states in the continuum in a bilayer photonic crystal with TE-TM cross coupling. Physical Review B, 2018, 98, .	1.1	28
33	Correlations and electronic order in a two-orbital honeycomb lattice model for twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	132
34	Molecular imaging with nanoparticles: the dwarf actors revisited 10 years later. Histochemistry and Cell Biology, 2018, 150, 733-794.	0.8	13
35	Mean-field theory for superconductivity in twisted bilayer graphene. Physical Review B, 2018, 98, .	1.1	151
36	Topological multiferroic phases in the extended Kane-Mele-Hubbard model in the Hofstadter regime. Physical Review B, 2018, 98, .	1.1	5

#	ARTICLE	IF	CITATIONS
37	Electrostatic effects, band distortions, and superconductivity in twisted graphene bilayers. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 13174-13179.	3.3	222
38	Symmetry, Maximally Localized Wannier States, and a Low-Energy Model for Twisted Bilayer Graphene Narrow Bands. Physical Review X, 2018, 8, .	2.8	265
39	Origin of Mott Insulating Behavior and Superconductivity in Twisted Bilayer Graphene. Physical Review X, 2018, 8, .	2.8	428
40	Direct fabrication of graphite-mica heterojunction and in situ control of their relative orientation. Materials and Design, 2018, 160, 371-376.	3.3	10
41	Electrically Tunable Gauge Fields in Tiny-Angle Twisted Bilayer Graphene. Physical Review Letters, 2018, 121, 146801.	2.9	77
42	Solvable two-dimensional superconductors with l-wave pairing. Physical Review B, 2018, 98, .	1.1	3
43	Skyrmions in the Moiré of van der Waals 2D Magnets. Nano Letters, 2018, 18, 7194-7199.	4.5	168
44	Maximally Localized Wannier Orbitals and the Extended Hubbard Model for Twisted Bilayer Graphene. Physical Review X, 2018, 8, .	2.8	427
45	Electron-polaron bound states in mass-gap graphene-like planar quantum electrodynamics: s-wave bipolarons. European Physical Journal B, 2018, 91, 1.	0.6	10
46	Collisionless Transport Close to a Fermionic Quantum Critical Point in Dirac Materials. Physical Review Letters, 2018, 121, 137601.	2.9	8
47	Electronic transport in a two-dimensional superlattice engineered via self-assembled nanostructures. Npj 2D Materials and Applications, 2018, 2, .	3.9	25
48	Strain-induced superconducting pair density wave states in graphene. Physical Review B, 2018, 98, .	1.1	10
49	Moiré Valleytronics: Realizing Dense Arrays of Topological Helical Channels. Physical Review Letters, 2018, 121, 186403.	2.9	19
50	Electron quantum metamaterials in van der Waals heterostructures. Nature Nanotechnology, 2018, 13, 986-993.	15.6	84
51	Ultrafast dynamics in van der Waals heterostructures. Nature Nanotechnology, 2018, 13, 994-1003.	15.6	392
52	Electronic structure and optical properties of twisted multilayer graphene. Physical Review B, 2018, 98, .	1.1	23
53	Sub-gap optical response in the Kitaev spin-liquid candidate RuCl_3 . Journal of Physics Condensed Matter, 2018, 30, 475604.	0.7	21
54	Narrow bandgap oxide nanoparticles coupled with graphene for high performance mid-infrared photodetection. Nature Communications, 2018, 9, 4299.	5.8	151

#	ARTICLE	IF	CITATIONS
55	Pairing symmetry and spontaneous vortex-antivortex lattice in superconducting twisted-bilayer graphene: Bogoliubov-de Gennes approach. <i>Physical Review B</i> , 2018, 98, .	1.1	70
56	Tunable mosaic structures in van der Waals layered materials. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 25428-25436.	1.3	3
57	Critical behavior of Dirac fermions from perturbative renormalization. <i>Physical Review B</i> , 2018, 98, .	1.1	49
58	Doped Twisted Bilayer Graphene near Magic Angles: Proximity to Wigner Crystallization, Not Mott Insulation. <i>Nano Letters</i> , 2018, 18, 6175-6180.	4.5	150
59	Inter-valley spiral order in the Mott insulating state of a heterostructure of trilayer graphene-boron nitride. <i>Science Bulletin</i> , 2018, 63, 1087-1091.	4.3	13
60	Negative Differential Resistance in van der Waals Heterostructures Due to Moiré-Induced Spectral Reconstruction. <i>Physical Review Applied</i> , 2018, 10, .	1.5	4
61	Fragile Topology and Wannier Obstructions. <i>Physical Review Letters</i> , 2018, 121, 126402.	2.9	236
62	Kekulé valence bond order in an extended Hubbard model on the honeycomb lattice with possible applications to twisted bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	134
63	Pressure dependence of the magic twist angle in graphene superlattices. <i>Physical Review B</i> , 2018, 98, .	1.1	146
64	Critical Annealing Temperature for Stacking Orientation of Bilayer Graphene. <i>Small</i> , 2018, 14, e1802498.	5.2	6
65	Moiré Patterns and Electronic Structures in Van der Waals Atomic Layer Materials. <i>Vacuum and Surface Science</i> , 2018, 61, 706-711.	0.0	0
66	Dirac Points, Spinons, and Spin Liquid in Twisted Bilayer Graphene. <i>JETP Letters</i> , 2018, 107, 651-654.	0.4	30
67	Establishment of a reliable transfer process for fabricating chemical vapor deposition-grown graphene films with advanced and repeatable electrical properties. <i>RSC Advances</i> , 2018, 8, 19846-19851.	1.7	2
68	Externally Controlled Magnetism and Band Gap in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2018, 120, 266402.	2.9	35
69	Pairing symmetry of interacting fermions on a twisted bilayer graphene superlattice. <i>Physical Review B</i> , 2018, 97, .	1.1	141
70	Interlayer electrical resistivity of rotated graphene layers studied by in-situ scanning electron microscopy. <i>Ultramicroscopy</i> , 2018, 193, 90-96.	0.8	8
71	Model for the metal-insulator transition in graphene superlattices and beyond. <i>Physical Review B</i> , 2018, 98, .	1.1	241
72	Graphene Nanoribbon Superconductor. <i>Journal of Low Temperature Physics</i> , 2018, 193, 12-20.	0.6	3

#	ARTICLE	IF	CITATIONS
73	Bond-ordered states and f-wave pairing of spinless fermions on the honeycomb lattice. <i>Physical Review B</i> , 2018, 98, .	1.1	10
74	Triangular antiferromagnetism on the honeycomb lattice of twisted bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	122
75	Interface Characterization and Control of 2D Materials and Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1801586.	11.1	134
76	Ferromagnetism and Wigner crystallization in kagome graphene and related structures. <i>Physical Review B</i> , 2018, 98, .	1.1	44
77	Transport measurements in twisted bilayer graphene: Electron-phonon coupling and Landau level crossing. <i>Physical Review B</i> , 2018, 98, .	1.1	47
78	Possible correlated insulating states in magic-angle twisted bilayer graphene under strongly competing interactions. <i>Physical Review B</i> , 2018, 98, .	1.1	132
79	Novel electronic states seen in graphene. <i>Nature</i> , 2018, 556, 37-38.	13.7	17
80	Hubbard Model Physics in Transition Metal Dichalcogenide Moiré Bands. <i>Physical Review Letters</i> , 2018, 121, 026402.	2.9	413
81	Surprise graphene discovery could unlock secrets of superconductivity. <i>Nature</i> , 2018, 555, 151-152.	13.7	15
82	Tuning Band Gap and Work Function Modulations in Monolayer hBN/Cu(111) Heterostructures with Moiré Patterns. <i>ACS Nano</i> , 2018, 12, 9355-9362.	7.3	33
83	Theory-assisted determination of nano-rippling and impurities in atomic resolution images of angle-mismatched bilayer graphene. <i>2D Materials</i> , 2018, 5, 041008.	2.0	5
84	Topological Superconductivity in Twisted Multilayer Graphene. <i>Physical Review Letters</i> , 2018, 121, 087001.	2.9	353
85	Competition of electron-phonon mediated superconductivity and Stoner magnetism on a flat band. <i>Physical Review B</i> , 2018, 98, .	1.1	37
86	Two-Dimensional Tellurium Nanosheets Exhibiting an Anomalous Switchable Photoresponse with Thickness Dependence. <i>Angewandte Chemie</i> , 2018, 130, 13721-13725.	1.6	3
87	Temperature behavior of graphene conductance induced by piezoelectric effect in a ferroelectric substrate. <i>Journal of Applied Physics</i> , 2018, 124, 084103.	1.1	5
88	Minimum model for the electronic structure of twisted bilayer graphene and related structures. <i>Physical Review B</i> , 2018, 98, .	1.1	34
89	Phases of a phenomenological model of twisted bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	197
90	Band structure of twisted bilayer graphene: Emergent symmetries, commensurate approximants, and Wannier obstructions. <i>Physical Review B</i> , 2018, 98, .	1.1	254

#	ARTICLE	IF	CITATIONS
91	Unconventional topological superconductivity and phase diagram for an effective two-orbital model as applied to twisted bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	82
92	Singlet superconductivity enhanced by charge order in nested twisted bilayer graphene Fermi surfaces. <i>Solid State Communications</i> , 2018, 282, 38-44.	0.9	44
93	Spin-Conserving Resonant Tunneling in Twist-Controlled WSe_2 -hBN- WSe_2 Heterostructures. <i>Nano Letters</i> , 2018, 18, 5967-5973.	4.5	29
94	Field-effect-driven half-metallic multilayer graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	10
95	Two-Dimensional Tellurium Nanosheets Exhibiting an Anomalous Switchable Photoresponse with Thickness Dependence. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13533-13537.	7.2	67
96	Structural Control of Graphene-Based Materials for Unprecedented Performance. <i>ACS Nano</i> , 2018, 12, 5085-5092.	7.3	50
97	Surface Engineering of Two-Dimensional Materials. <i>ChemNanoMat</i> , 2019, 5, 6-23.	1.5	22
98	Functionalization of 2D materials by intercalation. <i>Progress in Surface Science</i> , 2019, 94, 1-20.	3.8	48
99	Proximitized materials. <i>Materials Today</i> , 2019, 22, 85-107.	8.3	206
100	Prediction of strain-induced phonon-mediated superconductivity in monolayer YS . <i>Journal of Materials Chemistry C</i> , 2019, 7, 11184-11190.	2.7	11
101	Identification of turbostratic twisting in germanane. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10092-10097.	2.7	4
102	Ferromagnetism in magic-angle graphene. <i>Science</i> , 2019, 365, 543-543.	6.0	50
103	Controlled Growth of Large-Area Bilayer Tungsten Diselenides with Lateral Pn Junctions. <i>ACS Nano</i> , 2019, 13, 10490-10498.	7.3	39
104	2D materials for quantum information science. <i>Nature Reviews Materials</i> , 2019, 4, 669-684.	23.3	305
105	2D Crystal-Based Fibers: Status and Challenges. <i>Small</i> , 2019, 15, e1902691.	5.2	35
106	Moiré phonons in twisted bilayer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	70
107	Single-orbital realization of high-temperature s_{\pm} superconductivity in the square-octagon lattice. <i>Physical Review B</i> , 2019, 99, .	1.1	19
108	Spin-Orbital Density Wave and a Mott Insulator in a Two-Orbital Hubbard Model on a Honeycomb Lattice. <i>Physical Review Letters</i> , 2019, 123, 087602.	2.9	9

#	ARTICLE	IF	CITATIONS
109	Quantum Valley Hall Effect, Orbital Magnetism, and Anomalous Hall Effect in Twisted Multilayer Graphene Systems. <i>Physical Review X</i> , 2019, 9, .	2.8	136
110	Bandwidth renormalization due to the intersite Coulomb interaction. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 465603.	0.7	9
111	Designing flat bands by strain. <i>Physical Review B</i> , 2019, 100, .	1.1	141
112	Magic angle hierarchy in twisted graphene multilayers. <i>Physical Review B</i> , 2019, 100, .	1.1	156
113	Toxicity of Two-Dimensional Layered Materials and Their Heterostructures. <i>Bioconjugate Chemistry</i> , 2019, 30, 2287-2299.	1.8	49
114	Large linear-in-temperature resistivity in twisted bilayer graphene. <i>Nature Physics</i> , 2019, 15, 1011-1016.	6.5	240
115	Electronic correlations in twisted bilayer graphene near the magic angle. <i>Nature Physics</i> , 2019, 15, 1174-1180.	6.5	450
116	A needle in a moiré stack. <i>Nature Physics</i> , 2019, 15, 1107-1108.	6.5	0
117	Scanning tunneling microscopy study of the quasicrystalline 30° twisted bilayer graphene. <i>2D Materials</i> , 2019, 6, 045041.	2.0	26
118	Graphene-based heterostructures with moiré superlattice that preserve the Dirac cone: a first-principles study. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 255302.	0.7	4
119	Perspectives on exfoliated two-dimensional spintronics. <i>Journal of Semiconductors</i> , 2019, 40, 081508.	2.0	20
120	Signatures of tunable superconductivity in a trilayer graphene moiré superlattice. <i>Nature</i> , 2019, 572, 215-219.	13.7	458
121	Flatbands and Perfect Metal in Trilayer Moiré Graphene. <i>Physical Review Letters</i> , 2019, 123, 026402.	2.9	83
122	All Magic Angles in Twisted Bilayer Graphene are Topological. <i>Physical Review Letters</i> , 2019, 123, 036401.	2.9	327
123	Conductivity in the Square Lattice Hubbard Model at High Temperatures: Importance of Vertex Corrections. <i>Physical Review Letters</i> , 2019, 123, 036601.	2.9	46
124	Topological nodal line semimetals in graphene network structures. <i>Advances in Physics: X</i> , 2019, 4, 1625724.	1.5	9
125	Many-body effects in twisted bilayer graphene at low twist angles. <i>Physical Review B</i> , 2019, 100, .	1.1	31
126	Graphene-Based Mixed-Dimensional van der Waals Heterostructures for Advanced Optoelectronics. <i>Advanced Materials</i> , 2019, 31, e1806411.	11.1	115

#	ARTICLE	IF	CITATIONS
127	Exploring Topological Superconductivity in Topological Materials. <i>Advanced Quantum Technologies</i> , 2019, 2, 1800112.	1.8	34
128	Spin-valley density wave in moiré materials. <i>Physical Review B</i> , 2019, 100, .	1.1	36
129	Modulation of twisted bilayer CVD graphene interlayer resistivity by an order of magnitude based on in-situ annealing. <i>Carbon</i> , 2019, 153, 355-363.	5.4	7
130	In-plane anisotropy in twisted bilayer graphene probed by Raman spectroscopy. <i>Nanotechnology</i> , 2019, 30, 435702.	1.3	11
131	Landau levels in twisted bilayer graphene and semiclassical orbits. <i>Physical Review B</i> , 2019, 100, .	1.1	45
132	Anomalies in the pseudogap phase of the cuprates: competing ground states and the role of umklapp scattering. <i>Reports on Progress in Physics</i> , 2019, 82, 126501.	8.1	45
133	Ferromagnetism and spin-valley liquid states in moiré correlated insulators. <i>Physical Review B</i> , 2019, 100, .	1.1	28
134	Momentum-forbidden dark excitons in hBN-encapsulated monolayer MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	25
135	Possible nodeless s _± -wave superconductivity in twisted bilayer graphene. <i>Chinese Physics B</i> , 2019, 28, 077103.	0.7	17
136	Effects of layer stacking and strain on electronic transport in two-dimensional tin monoxide*. <i>Chinese Physics B</i> , 2019, 28, 077104.	0.7	4
137	Modulation of magnetic and electrical properties of bilayer graphene quantum dots using rotational stacking faults*. <i>Chinese Physics B</i> , 2019, 28, 078106.	0.7	4
138	Tunable Moiré Superlattice of Artificially Twisted Monolayers. <i>Advanced Materials</i> , 2019, 31, 1901077.	11.1	27
139	Electronic Compressibility of Magic-Angle Graphene Superlattices. <i>Physical Review Letters</i> , 2019, 123, 046601.	2.9	106
140	Interface Engineering of Band Evolution and Transport Properties of Bilayer WSe ₂ under Different Electric Fields. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19812-19819.	1.5	4
141	Emergent ferromagnetism near three-quarters filling in twisted bilayer graphene. <i>Science</i> , 2019, 365, 605-608.	6.0	1,106
142	Layer Rotation-Angle-Dependent Excitonic Absorption in van der Waals Heterostructures Revealed by Electron Energy Loss Spectroscopy. <i>ACS Nano</i> , 2019, 13, 9541-9550.	7.3	25
143	Spectroscopic Signatures of Electronic Excitations in Raman Scattering in Thin Films of Rhombohedral Graphite. <i>Nano Letters</i> , 2019, 19, 6152-6156.	4.5	11
144	Spectroscopic signatures of many-body correlations in magic-angle twisted bilayer graphene. <i>Nature</i> , 2019, 572, 101-105.	13.7	459

#	ARTICLE	IF	CITATIONS
145	Maximized electron interactions at the magic angle in twisted bilayer graphene. <i>Nature</i> , 2019, 572, 95-100.	13.7	644
146	Thermoelectric properties of gapped bilayer graphene. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 415501.	0.7	9
147	Approaching ohmic contact to two-dimensional semiconductors. <i>Science Bulletin</i> , 2019, 64, 1426-1435.	4.3	39
148	Temperature-Controlled Rotational Epitaxy of Graphene. <i>Nano Letters</i> , 2019, 19, 4594-4600.	4.5	19
149	Twisted Bilayer Graphene: A Phonon-Driven Superconductor. <i>Physical Review Letters</i> , 2019, 122, 257002.	2.9	255
150	Identification of superconducting pairing symmetry in twisted bilayer graphene using in-plane magnetic field and strain. <i>Physical Review B</i> , 2019, 99, .	1.1	35
151	Multiflat Bands and Strong Correlations in Twisted Bilayer Boron Nitride: Doping-Induced Correlated Insulator and Superconductor. <i>Nano Letters</i> , 2019, 19, 4934-4940.	4.5	123
152	Strange topological materials are popping up everywhere physicists look. <i>Nature</i> , 2019, 571, 17-18.	13.7	2
153	Nonperturbative theory of effective Hamiltonians for deformations in two-dimensional materials: Moiré systems and dislocations. <i>Physical Review B</i> , 2019, 100, .	1.1	20
154	Valence Bond Orders at Charge Neutrality in a Possible Two-Orbital Extended Hubbard Model for Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2019, 123, 157601.	2.9	70
155	Hydrogen-Assisted Growth of Ultrathin Te Flakes with Giant Gate-Dependent Photoresponse. <i>Advanced Functional Materials</i> , 2019, 29, 1906585.	7.8	62
156	Van der Waals Heterostructures for High-Performance Device Applications: Challenges and Opportunities. <i>Advanced Materials</i> , 2020, 32, e1903800.	11.1	304
157	Functionalized Hybridization of 2D Nanomaterials. <i>Advanced Science</i> , 2019, 6, 1901837.	5.6	77
158	Valley Jahn-Teller Effect in Twisted Bilayer Graphene. <i>Physical Review X</i> , 2019, 9, .	2.8	44
159	Smart meta-superconductor MgB ₂ constructed by the dopant phase of luminescent nanocomposite. <i>Scientific Reports</i> , 2019, 9, 14194.	1.6	8
160	Magnetic States and Metal-Insulator in Strongly Correlated Systems (Scientific Summary). <i>JETP Letters</i> , 2019, 110, 41-53.	0.4	1
161	Mapping Local Structural and Electronic Properties of 2D Materials by Multi-dimensional STEM. <i>Microscopy and Microanalysis</i> , 2019, 25, 960-961.	0.2	0
162	Unconventional chiral d-wave superconducting state in strained graphene. <i>Chinese Physics B</i> , 2019, 28, 117403.	0.7	6

#	ARTICLE	IF	CITATIONS
163	Two-dimensional Au ₂ B: Robust non-magnetic metallicity independent of the native defects, strain and functional groups. <i>Europhysics Letters</i> , 2019, 127, 47002.	0.7	1
164	Cold atoms in twisted-bilayer optical potentials. <i>Physical Review A</i> , 2019, 100, .	1.0	48
165	Magnetization signals in 1/4m-thin lamellae of highly oriented pyrolytic graphite: a field-dependent study. <i>Materials Research Express</i> , 2019, 6, 126101.	0.8	3
166	Inherited and flatband-induced ordering in twisted graphene bilayers. <i>Physical Review B</i> , 2019, 100, .	1.1	20
167	Intrinsic band gap and electrically tunable flat bands in twisted double bilayer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	55
168	Charge smoothening and band flattening due to Hartree corrections in twisted bilayer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	55
169	MoS ₂ Moiré Superlattice for Hydrogen Evolution Reaction. <i>ACS Energy Letters</i> , 2019, 4, 2830-2835.	8.8	98
170	Atomic mechanism of strong interactions at the graphene/sapphire interface. <i>Nature Communications</i> , 2019, 10, 5013.	5.8	31
171	Dynamic band structure and capacitance effects in scanning tunneling spectroscopy of bilayer graphene. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	5
172	Interacting valley Chern insulator and its topological imprint on moiré superconductors. <i>Physical Review B</i> , 2019, 100, .	1.1	5
173	Multicritical Fermi Surface Topological Transitions. <i>Physical Review Letters</i> , 2019, 123, 207202.	2.9	40
174	Emergent Geometric Frustration and Flat Band in Moiré Bilayer Graphene. <i>Physical Review Letters</i> , 2019, 123, 186402.	2.9	27
175	Correlated Insulating States in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , 2019, 123, 197702.	2.9	194
176	Tunable Flat Band in Large-scale Kagome Lattice of Single Layer (BETS) 2 GaCl 4. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1900346.	0.7	0
177	Classification of crystalline insulators without symmetry indicators: Atomic and fragile topological phases in twofold rotation symmetric systems. <i>Physical Review B</i> , 2019, 100, .	1.1	21
178	Discontinuous evolution of the structure of stretching polycrystalline graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	5
179	Hyperbolic hybrid waves and optical topological transitions in few-layer anisotropic metasurfaces. <i>Physical Review B</i> , 2019, 100, .	1.1	52
180	Modulated interlayer exciton properties in a two-dimensional moiré crystal. <i>Physical Review B</i> , 2019, 100, .	1.1	48

#	ARTICLE	IF	CITATIONS
181	Double flat bands in kagome twisted bilayers. <i>Physical Review B</i> , 2019, 100, .	1.1	15
182	Effect of Process Parameters on Short Fiber Orientation along the Melt Flow Direction in Water-Assisted Injection Molded Part. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-10.	1.0	2
183	Emerging properties of two-dimensional twisted bilayer materials*. <i>Chinese Physics B</i> , 2019, 28, 107304.	0.7	18
184	Centimeter-scale, single-crystalline, AB-stacked bilayer graphene on insulating substrates. <i>2D Materials</i> , 2019, 6, 045044.	2.0	11
185	Anomalous T-induced second order diffraction loss and magnetic transition in red-wine-doped highly oriented pyrolytic graphite at the magic angle. <i>Materials Research Express</i> , 2019, 6, 115608.	0.8	2
186	Nonlinear dynamics of Aharonov-Bohm cages. <i>Physical Review A</i> , 2019, 100, .	1.0	38
187	Flat-band magnetism and helical magnetic order in Ni-doped SrCo_2As_2 . <i>Physical Review B</i> , 2019, 100, .	1.5	15
188	Moiré-pattern fluctuations and electron-phonon coupling in twisted bilayer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	34
189	Strong Electron-Phonon Coupling and its Influence on the Transport and Optical Properties of Hole-Doped Single-Layer InSe. <i>Physical Review Letters</i> , 2019, 123, 176401.	2.9	37
190	Multiflavor Dirac fermions in Kekulé-distorted graphene bilayers. <i>Physical Review B</i> , 2019, 100, .	1.1	13
191	Environmental Control of Charge Density Wave Order in Monolayer 2H-TaS_2 . <i>ACS Nano</i> , 2019, 13, 10210-10220.	7.3	44
192	Charge order and broken rotational symmetry in magic-angle twisted bilayer graphene. <i>Nature</i> , 2019, 573, 91-95.	13.7	491
193	Effects of Se substitution and transition metal doping on the electronic and magnetic properties of a $\text{MoS}_2/\text{h-BN}$ heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20073-20082.	1.3	14
194	Anisotropic Strain-Induced Soliton Movement Changes Stacking Order and Band Structure of Graphene Multilayers: Implications for Charge Transport. <i>ACS Applied Nano Materials</i> , 2019, 2, 6067-6075.	2.4	24
195	Electrically Tunable Flat Bands and Magnetism in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2019, 123, 096802.	2.9	69
196	Angle-resolved photoemission spectroscopy and its application to topological materials. <i>Nature Reviews Physics</i> , 2019, 1, 609-626.	11.9	190
197	On-chip micro/nano devices for energy conversion and storage. <i>Nano Today</i> , 2019, 28, 100764.	6.2	33
198	Identification of spin, valley and moiré quasi-angular momentum of interlayer excitons. <i>Nature Physics</i> , 2019, 15, 1140-1144.	6.5	91

#	ARTICLE	IF	CITATIONS
199	Bilayer Graphene's Wicked, Twisted Road. Physics Magazine, 0, 12, .	0.1	51
200	Density matrix renormalization group study of superconductivity in the triangular lattice Hubbard model. Physical Review B, 2019, 100, .	1.1	20
201	Chiral twist on the high- T_c phase diagram in moiré heterostructures. Physical Review B, 2019, 100, .	1.1	21
202	Flat Band and Planckian Metal. JETP Letters, 2019, 110, 352-353.	0.4	19
203	Landau level degeneracy in twisted bilayer graphene: Role of symmetry breaking. Physical Review B, 2019, 100, .	1.1	46
204	Investigating the stability of molecule doped graphene field effect transistors. New Journal of Chemistry, 2019, 43, 15275-15279.	1.4	30
205	Anisotropic strain effects in small-twist-angle graphene on graphite. Physical Review B, 2019, 100, .	1.1	4
206	Salt-assisted chemical vapor deposition of two-dimensional materials. Science China Chemistry, 2019, 62, 1300-1311.	4.2	66
207	Graphene-based wearable sensors. Nanoscale, 2019, 11, 18923-18945.	2.8	98
208	Ferromagnetism-induced Kondo effect in graphene with a magnetic impurity. Physical Review B, 2019, 100, .	1.1	7
209	Breakthroughs in Designing Commercial-Level Mass-Loading Graphene Electrodes for Electrochemical Double-Layer Capacitors. Matter, 2019, 1, 596-620.	5.0	79
210	Spectroscopy of graphene with a magic twist. Nature, 2019, 572, 40-41.	13.7	9
211	Meet the crystal growers who sparked a revolution in graphene electronics. Nature, 2019, 572, 429-432.	13.7	21
212	Giant oscillations in a triangular network of one-dimensional states in marginally twisted graphene. Nature Communications, 2019, 10, 4008.	5.8	67
213	Variational Ansatz for an Abelian to Non-Abelian Topological Phase Transition in $\hat{\nu}=1/2+1/2$ Bilayers. Physical Review Letters, 2019, 123, 126804.	2.9	18
214	Magnetization, d -wave superconductivity, and non-Fermi-liquid behavior in a crossover from dispersive to flat bands. Physical Review B, 2019, 100, .	1.1	14
215	Bilayer graphene nanoribbons junction with aligned holes exhibiting high ZT values. Carbon, 2019, 155, 438-444.	5.4	6
216	Superconductor versus insulator in twisted bilayer graphene. Physical Review B, 2019, 100, .	1.1	26

#	ARTICLE	IF	CITATIONS
217	Twist-angle sensitivity of electron correlations in moiré graphene bilayers. <i>Physical Review B</i> , 2019, 100, .	1.1	38
218	Nonlinear Polariton Fluids in a Flatband Reveal Discrete Gap Solitons. <i>Physical Review Letters</i> , 2019, 123, 113901.	2.9	39
219	Topological properties of multilayers and surface steps in the SnTe material class. <i>Physical Review B</i> , 2019, 100, .	1.1	12
220	Bounds on the Superconducting Transition Temperature: Applications to Twisted Bilayer Graphene and Cold Atoms. <i>Physical Review X</i> , 2019, 9, .	2.8	51
221	One-dimensional topological superconductivity at the edges of twisted bilayer graphene nanoribbons. <i>Physical Review B</i> , 2019, 100, .	1.1	12
222	Quantum Monte Carlo Simulation of the Chiral Heisenberg Gross-Neveu-Yukawa Phase Transition with a Single Dirac Cone. <i>Physical Review Letters</i> , 2019, 123, 137602.	2.9	49
223	Correlated insulating and superconducting states in twisted bilayer graphene below the magic angle. <i>Science Advances</i> , 2019, 5, eaaw9770.	4.7	138
224	Integrated impedance bridge for absolute capacitance measurements at cryogenic temperatures and finite magnetic fields. <i>Review of Scientific Instruments</i> , 2019, 90, 084706.	0.6	3
225	Electron dynamics in strained graphene. <i>Modern Physics Letters B</i> , 2019, 33, 1930001.	1.0	16
226	Bottom-up growth of homogeneous Moiré superlattices in bismuth oxychloride spiral nanosheets. <i>Nature Communications</i> , 2019, 10, 4472.	5.8	59
227	Creating designer quantum states of matter atom-by-atom. <i>Nature Reviews Physics</i> , 2019, 1, 703-715.	11.9	102
228	Characterization of nitrogen doped graphene bilayers synthesized by fast, low temperature microwave plasma-enhanced chemical vapour deposition. <i>Scientific Reports</i> , 2019, 9, 13715.	1.6	33
229	Ultrafast Unbalanced Electron Distributions in Quasicrystalline 30° Twisted Bilayer Graphene. <i>ACS Nano</i> , 2019, 13, 11981-11987.	7.3	28
230	Internal screening and dielectric engineering in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	67
231	Ni-based transition metal trichalcogenide monolayer: A strongly correlated quadruple-layer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	25
232	Intrinsically undamped plasmon modes in narrow electron bands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 20869-20874.	3.3	51
233	Charge Density Wave Transition in Monolayer CuTe driven by Coulomb Correlation. <i>Journal of the Korean Physical Society</i> , 2019, 75, 394-397.	0.3	2
234	Quantum Monte Carlo study of magnetic ordering and superconducting pairing symmetry in twisted bilayer graphene. <i>Physical Review B</i> , 2019, 100, .	1.1	9

#	ARTICLE	IF	CITATIONS
235	van der Waals heterostructures combining graphene and hexagonal boron nitride. <i>Nature Reviews Physics</i> , 2019, 1, 112-125.	11.9	320
236	Flat energy bands within antiphase and twin boundaries and at open edges in topological materials. <i>Physical Review B</i> , 2019, 99, .	1.1	9
237	Biological applications of terahertz technology based on nanomaterials and nanostructures. <i>Nanoscale</i> , 2019, 11, 3445-3457.	2.8	74
238	Tuning superconductivity in twisted bilayer graphene. <i>Science</i> , 2019, 363, 1059-1064.	6.0	1,460
239	Enhanced thermoelectric performance of twisted bilayer graphene nanoribbons junction. <i>Carbon</i> , 2019, 145, 622-628.	5.4	26
240	Stabilities and novel electronic structures of three carbon nitride bilayers. <i>Scientific Reports</i> , 2019, 9, 1025.	1.6	13
241	Study on electronic and optical properties of the twisted and strained MoS ₂ /PtS ₂ heterogeneous interface. <i>Applied Surface Science</i> , 2019, 476, 308-316.	3.1	23
242	Atomic Structure and Mechanical Properties of Twisted Bilayer Graphene. <i>Journal of Composites Science</i> , 2019, 3, 2.	1.4	17
243	Pressure-induced metal-insulator transition in twisted bilayer graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	36
244	Electrically controllable spin transport in bilayer graphene with Rashba spin-orbit interaction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2957-2962.	0.9	7
245	Flat bands in twisted double bilayer graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	142
246	Strong Coupling Phases of Partially Filled Twisted Bilayer Graphene Narrow Bands. <i>Physical Review Letters</i> , 2019, 122, 246401.	2.9	243
247	Ferromagnetic Mott state in Twisted Graphene Bilayers at the Magic Angle. <i>Physical Review Letters</i> , 2019, 122, 246402.	2.9	154
248	Helical van der Waals crystals with discretized Eshelby twist. <i>Nature</i> , 2019, 570, 358-362.	13.7	91
249	Canonical pair condensation in a flat-band BCS superconductor. <i>European Physical Journal B</i> , 2019, 92, 1.	0.6	1
250	Molecularly defined graphitic interface toward proton manipulation. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 158-166.	2.5	2
251	Graphene as a Transparent and Conductive Electrode for Organic Optoelectronic Devices. <i>Advanced Electronic Materials</i> , 2019, 5, 1900247.	2.6	40
252	Flat-band engineering in tight-binding models: Beyond the nearest-neighbor hopping. <i>Physical Review B</i> , 2019, 99, .	1.1	37

#	ARTICLE	IF	CITATIONS
253	Impurity-induced triple point fermions in twisted bilayer graphene. Physical Review B, 2019, 99, .	1.1	34
254	Anisotropic Enhancement of Second-Harmonic Generation in Monolayer and Bilayer MoS ₂ by Integrating with TiO ₂ Nanowires. Nano Letters, 2019, 19, 4195-4204.	4.5	56
255	Bridging Hubbard model physics and quantum Hall physics in trilayer graphene moiré superlattice. Physical Review B, 2019, 99, .	1.1	17
256	Tunable photoluminescence of bilayer MoS ₂ via interlayer twist. Optical Materials, 2019, 94, 213-216.	1.7	17
257	Faithful tight-binding models and fragile topology of magic-angle bilayer graphene. Physical Review B, 2019, 99, .	1.1	278
258	Transmission across a bilayer graphene region. Physical Review B, 2019, 99, .	1.1	5
259	Electrostatic imaging of encapsulated graphene. 2D Materials, 2019, 6, 045034.	2.0	9
260	Strain-tunable van der Waals interactions in few-layer black phosphorus. Nature Communications, 2019, 10, 2447.	5.8	98
261	Nuclear quantum effects in graphene bilayers. Journal of Chemical Physics, 2019, 150, 204707.	1.2	6
262	Freestanding crystalline oxide perovskites down to the monolayer limit. Nature, 2019, 570, 87-90.	13.7	398
263	Band structure and topological properties of twisted double bilayer graphene. Physical Review B, 2019, 99, .	1.1	133
264	Fermionic multicriticality near Kekulé valence-bond ordering on a honeycomb lattice. Physical Review B, 2019, 99, .	1.1	14
265	Unraveling the intrinsic magnetic property of triangular zigzag edge bilayer graphene nanoflakes: A first-principles theoretical study. Chemical Physics Letters, 2019, 730, 326-331.	1.2	14
266	Enhanced correlations and superconductivity in weakly interacting partially flat-band systems: A determinantal quantum Monte Carlo study. Physical Review B, 2019, 99, .	1.1	14
267	Superconductivity in twisted graphene NbSe_2 heterostructures. Physical Review B, 2019, 99, .	1.1	17
268	Integration of bulk materials with two-dimensional materials for physical coupling and applications. Nature Materials, 2019, 18, 550-560.	13.3	211
269	Topological chiral superconductivity with spontaneous vortices and supercurrent in twisted bilayer graphene. Physical Review B, 2019, 99, .	1.1	49
270	The transport properties in graphene/single-unit-cell cuprates van der Waals heterostructure. Superconductor Science and Technology, 2019, 32, 085007.	1.8	5

#	ARTICLE	IF	CITATIONS
271	Magnetism near half-filling of a Van Hove singularity in twisted graphene bilayer. <i>Physical Review B</i> , 2019, 99, .	1.1	30
272	An Overview on the Local Atomic Displacements and Electronic Structures in BiS ₂ /BiSe ₂ -Based Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 1517-1527.	0.8	0
273	Continuum models for twisted bilayer graphene: Effect of lattice deformation and hopping parameters. <i>Physical Review B</i> , 2019, 99, .	1.1	116
274	Impact of electron-electron interactions on the superfluid density of dirty superconductors. <i>Physical Review B</i> , 2019, 99, .	1.1	10
275	Competing phases of interacting electrons on triangular lattices in moiré heterostructures. <i>Physical Review B</i> , 2019, 99, .	1.1	61
276	Substrate effect on edge states of a quantum spin Hall insulator in Kane–Mele model. <i>European Physical Journal B</i> , 2019, 92, 1.	0.6	0
277	Superconductivity from valley fluctuations and approximate SO(4) symmetry in a weak coupling theory of twisted bilayer graphene. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	133
278	Crucial role of atomic corrugation on the flat bands and energy gaps of twisted bilayer graphene at the magic angle $\theta = \arctan(1/3)$. <i>Physical Review B</i> , 2019, 99, .	1.1	119
279	Etching Techniques in 2D Materials. <i>Advanced Materials Technologies</i> , 2019, 4, 1900064.	3.0	50
280	Quasiparticle Levels at Large Interface Systems from Many-Body Perturbation Theory: The XAF-GW Method. <i>Journal of Chemical Theory and Computation</i> , 2019, 15, 3824-3835.	2.3	28
281	The nature of correlations in the insulating states of twisted bilayer graphene. <i>Journal of Physics Communications</i> , 2019, 3, 035024.	0.5	43
282	Pressure induced compression of flatbands in twisted bilayer graphene. <i>Electronic Structure</i> , 2019, 1, 015001.	1.0	48
283	Interlayer vibration of twisted bilayer graphene: A first-principles study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2628-2632.	0.9	16
284	Failure of Nielsen-Ninomiya Theorem and Fragile Topology in Two-Dimensional Systems with Space-Time Inversion Symmetry: Application to Twisted Bilayer Graphene at Magic Angle. <i>Physical Review X</i> , 2019, 9, .	2.8	215
285	Gauge-phonon dominated resistivity in twisted bilayer graphene near magic angle. <i>Physical Review B</i> , 2019, 99, .	1.1	30
286	Bulk synthesis of graphene-like materials possessing turbostratic graphite and graphene nanodomains via combustion of magnesium in carbon dioxide. <i>Carbon</i> , 2019, 149, 582-586.	5.4	8
287	Wannier pairs in superconducting twisted bilayer graphene and related systems. <i>Physical Review B</i> , 2019, 99, .	1.1	51
288	Time-evolution patterns of electrons in twisted bilayer graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	13

#	ARTICLE	IF	CITATIONS
289	Chiral twisted van der Waals nanowires. <i>Nature</i> , 2019, 570, 354-357.	13.7	117
291	Lowest-energy moiré band formed by Dirac zero modes in twisted bilayer graphene. <i>Science Bulletin</i> , 2019, 64, 495-498.	4.3	25
292	Electronic structures of twist-stacked 1T-TaS ₂ bilayers. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2302-2308.	0.9	5
293	Catalyst-Selective Growth of Single-Orientation Hexagonal Boron Nitride toward High-Performance Atomically Thin Electric Barriers. <i>Advanced Materials</i> , 2019, 31, e1900880.	11.1	21
294	Electronic properties and interlayer coupling of twisted MoS_2 heterobilayers. <i>Physical Review B</i> , 2019, 99, .	11.1	28
295	Atomic and electronic reconstruction at the van der Waals interface in twisted bilayer graphene. <i>Nature Materials</i> , 2019, 18, 448-453.	13.3	454
296	Pseudo Landau level representation of twisted bilayer graphene: Band topology and implications on the correlated insulating phase. <i>Physical Review B</i> , 2019, 99, .	1.1	191
297	Coupled-wire description of the correlated physics in twisted bilayer graphene. <i>Physical Review B</i> , 2019, 99, .	1.1	46
298	To the Theory of Electronic States of an Epitaxial Graphene Bilayer. <i>Physics of the Solid State</i> , 2019, 61, 488-492.	0.2	0
299	Van der Waals integration before and beyond two-dimensional materials. <i>Nature</i> , 2019, 567, 323-333.	13.7	946
300	Coexistence of Ferromagnetic and Stripe Antiferromagnetic Spin Fluctuations in SrCo_2 . <i>Physical Review Letters</i> , 2019, 122, 117204.	2.9	23
301	Kolmogorov-Crespi Potential For Multilayer Transition-Metal Dichalcogenides: Capturing Structural Transformations in Moiré Superlattices. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9770-9778.	1.5	60
302	Orbital limit and Gaussian fluctuation effects in flat-band superconductors with pseudomagnetic fields. <i>Physical Review B</i> , 2019, 99, .	1.1	0
303	Squeezing strong correlations from graphene. <i>Science</i> , 2019, 363, 1035-1036.	6.0	3
304	Twist-angle dependence of the proximity spin-orbit coupling in graphene on transition-metal dichalcogenides. <i>Physical Review B</i> , 2019, 99, .	1.1	73
305	Topological Insulators in Twisted Transition Metal Dichalcogenide Homobilayers. <i>Physical Review Letters</i> , 2019, 122, 086402.	2.9	333
306	Phase-Change Hyperbolic Heterostructures for Nanopolaritonics: A Case Study of hBN/VO ₂ . <i>Advanced Materials</i> , 2019, 31, e1900251.	11.1	43
307	Electronic structures and transport properties of SnSe nanoribbon lateral heterostructures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9296-9301.	1.3	8

#	ARTICLE	IF	CITATIONS
308	BX ₁ BX ₂ (X ₁ , X ₂ = P, As, Sb) lateral heterostructure: novel and efficient two-dimensional photovoltaic materials with ultra-high carrier mobilities. Journal of Materials Chemistry A, 2019, 7, 10684-10695.	5.2	30
309	Nanoelectronics with proximitized materials. Solid-State Electronics, 2019, 155, 93-98.	0.8	1
310	Antiferromagnetically ordered Mott insulator and d superconductivity in twisted bilayer graphene: a quantum Monte Carlo study. Science Bulletin, 2019, 64, 310-314.	4.3	109
311	Unconventional superconductivity in nearly flat bands in twisted bilayer graphene. Physical Review B, 2019, 99, .	1.1	143
312	Origin of Magic Angles in Twisted Bilayer Graphene. Physical Review Letters, 2019, 122, 106405.	2.9	464
313	Ultrafast transition between exciton phases in van der Waals heterostructures. Nature Materials, 2019, 18, 691-696.	13.3	168
314	Recent Advances in Growth and Modification of Graphene-Based Energy Materials: From Chemical Vapor Deposition to Reduction of Graphene Oxide. Small Methods, 2019, 3, 1900071.	4.6	26
315	Nematic superconductivity stabilized by density wave fluctuations: Possible application to twisted bilayer graphene. Physical Review B, 2019, 99, .	1.1	70
316	Phonon-induced giant linear-in- T resistivity in magic angle twisted bilayer graphene: Ordinary strangeness and exotic superconductivity. Physical Review B, 2019, 99, .	1.1	140
317	Electron states for gapped pseudospin-1 fermions in the field of a charged impurity. Physical Review B, 2019, 99, .	1.1	54
318	High-Magnetic-Field Tunneling Spectra of ABC -Stacked Trilayer Graphene on Graphite. Physical Review Letters, 2019, 122, 146802.	2.9	23
319	Stacking angle-tunable photoluminescence from interlayer exciton states in twisted bilayer graphene. Nature Communications, 2019, 10, 1445.	5.8	67
320	How interlayer twist angles affect in-plane and cross-plane thermal conduction of multilayer graphene: A non-equilibrium molecular dynamics study. International Journal of Heat and Mass Transfer, 2019, 137, 161-173.	2.5	38
321	Probing the interlayer interaction between dissimilar 2D heterostructures by <i>in situ</i> rearrangement of their interface. 2D Materials, 2019, 6, 035022.	2.0	9
322	Surface superconductivity in a three-dimensional Cd ₃ As ₂ semimetal at the interface with a gold contact. Physical Review B, 2019, 99, .	1.1	33
323	Spin-triplet f -wave pairing in twisted bilayer graphene near $\frac{1}{4}$ filling. Physical Review B, 2019, 99, .	1.1	46
324	Current Superposition Law Realized in Molecular Devices Connected in Parallel. Journal of Physical Chemistry C, 2019, 123, 10462-10468.	1.5	14
325	Spatial Mapping of Local Density Variations in Two-dimensional Electron Systems Using Scanning Photoluminescence. Nano Letters, 2019, 19, 1908-1913.	4.5	7

#	ARTICLE	IF	CITATIONS
326	Bi-layer Graphene: Structure, Properties, Preparation and Prospects. Current Graphene Science, 2019, 2, 97-105.	0.5	3
327	Perspective of graphene-based electronic devices: Graphene synthesis and diverse applications. APL Materials, 2019, 7, .	2.2	46
328	Thermodynamic and information-theoretic description of the Mott transition in the two-dimensional Hubbard model. Physical Review B, 2019, 99, .	1.1	19
329	Nearly flat Chern bands in moiré superlattices. Physical Review B, 2019, 99, .	1.1	295
330	New Generation of Moiré Superlattices in Doubly Aligned hBN/Graphene/hBN Heterostructures. Nano Letters, 2019, 19, 2371-2376.	4.5	85
331	Observation of moiré excitons in WSe ₂ /WS ₂ heterostructure superlattices. Nature, 2019, 567, 76-80.	13.7	791
332	Signatures of moiré-trapped valley excitons in MoSe ₂ /WSe ₂ heterobilayers. Nature, 2019, 567, 66-70.	13.7	842
333	Chemical vapor deposition synthesis of graphene films. APL Materials, 2019, 7, .	2.2	22
334	The Thermal, Electrical and Thermoelectric Properties of Graphene Nanomaterials. Nanomaterials, 2019, 9, 218.	1.9	52
335	Graphene Biosensor for Saliva Protein Adsorption. , 2019, , .		0
336	Spectroscopic photoemission and low-energy electron microscopy studies of the surface and electronic structure of two-dimensional materials. Advances in Physics: X, 2019, 4, 1688187.	1.5	5
337	Determination of the electrostatic potential produced by a uniformly charged ring. Journal of Physics: Conference Series, 2019, 1403, 012004.	0.3	1
338	Controlling a Van Hove singularity and Fermi surface topology at a complex oxide heterostructure interface. Nature Communications, 2019, 10, 5534.	5.8	10
339	Flat Band and Hole-induced Ferromagnetism in a Novel Carbon Monolayer. Scientific Reports, 2019, 9, 20116.	1.6	19
340	Correlated Topological States in Graphene Nanoribbon Heterostructures. Nano Letters, 2019, 19, 9045-9050.	4.5	25
341	2D coordination polymers: Design guidelines and materials perspective. Applied Physics Reviews, 2019, 6, 041311.	5.5	39
342	Twists and the Electronic Structure of Graphitic Materials. Nano Letters, 2019, 19, 8683-8689.	4.5	52
343	Insulator-metal transition and quasi-flat-band of Shastry-Sutherland lattice. Journal of Physics Condensed Matter, 2019, 31, 345402.	0.7	1

#	ARTICLE	IF	CITATIONS
344	Magic of high-order van Hove singularity. <i>Nature Communications</i> , 2019, 10, 5769.	5.8	106
345	Reconstruction of the Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ Fermi surface. <i>Physical Review B</i> , 2019, 100, .	1.1	3
346	Theory of correlated insulating behaviour and spin-triplet superconductivity in twisted double bilayer graphene. <i>Nature Communications</i> , 2019, 10, 5333.	5.8	171
347	Possible strain induced Mott gap collapse in 1T-TaS ₂ . <i>Communications Physics</i> , 2019, 2, .	2.0	27
348	Dirac point formation revealed by Andreev tunneling in superlattice-graphene/superconductor junctions. <i>Physical Review B</i> , 2019, 100, .	1.1	3
349	Cooper instability generated by attractive fermion-fermion interaction in the two-dimensional semi-Dirac semimetals. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 275601.	0.7	4
350	Electronic band structure and pinning of Fermi energy to Van Hove singularities in twisted bilayer graphene: A self-consistent approach. <i>Physical Review B</i> , 2019, 100, .	1.1	79
351	SU(4) Heisenberg model on the honeycomb lattice with exchange-frustrated perturbations: Implications for twistronics and Mott insulators. <i>Physical Review B</i> , 2019, 100, .	1.1	32
352	Tuning 2D Black Phosphorus: Defect Tailoring and Surface Functionalization. <i>Chemistry of Materials</i> , 2019, 31, 9917-9938.	3.2	24
353	The emerging ferroic orderings in two dimensions. <i>Science China Information Sciences</i> , 2019, 62, 1.	2.7	8
354	cis-Câ•C Bond and Amide Regulated Oriented Supramolecular Assembly on Two-Dimensional Atomic Crystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30996-31002.	1.5	1
355	Saddle-point Van Hove singularity and dual topological state in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Pt} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:m} \rangle 1 \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Physical Review B, 2019, 100, .		
356	Geometric and Conventional Contribution to the Superfluid Weight in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2019, 123, 237002.	2.9	116
357	Self-organized twist-heterostructures via aligned van der Waals epitaxy and solid-state transformations. <i>Nature Communications</i> , 2019, 10, 5528.	5.8	27
358	Theory of spin injection in two-dimensional metals with proximity-induced spin-orbit coupling. <i>Physical Review B</i> , 2019, 100, .	1.1	5
359	Tailoring excitonic states of van der Waals bilayers through stacking configuration, band alignment, and valley spin. <i>Science Advances</i> , 2019, 5, eaax7407.	4.7	56
360	Composite super-moir� lattices in double-aligned graphene heterostructures. <i>Science Advances</i> , 2019, 5, eaay8897.	4.7	74
361	Tunable crystal symmetry in graphene-boron nitride heterostructures with coexisting moir� superlattices. <i>Nature Nanotechnology</i> , 2019, 14, 1029-1034.	15.6	114

#	ARTICLE	IF	CITATIONS
362	Path towards graphene commercialization from lab to market. Nature Nanotechnology, 2019, 14, 927-938.	15.6	235
363	Superconductors, orbital magnets and correlated states in magic-angle bilayer graphene. Nature, 2019, 574, 653-657.	13.7	987
364	Mott Metal-Insulator Transitions in Pressurized Layered Trichalcogenides. Physical Review Letters, 2019, 123, 236401.	2.9	44
365	Room temperature strain-induced Landau levels in graphene on a wafer-scale platform. Science Advances, 2019, 5, eaaw5593.	4.7	65
366	Attractive electron-electron interactions from internal screening in magic-angle twisted bilayer graphene. Physical Review B, 2019, 100, .	1.1	35
367	Evolution of inter-layer coupling in artificially stacked bilayer MoS ₂ . Nanoscale Advances, 2019, 1, 4398-4405.	2.2	8
368	Fifty years of research at the Landau Institute for Theoretical Physics (on the 100th anniversary of the) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	2
369	Magnetic impurity resonance states for different pairing symmetries in twisted bilayer graphene. Journal of Physics Condensed Matter, 2019, 31, 065601.	0.7	13
370	Strain impacts on commensurate bilayer graphene superlattices: Distorted trigonal warping, emergence of bandgap and direct-indirect bandgap transition. Diamond and Related Materials, 2019, 92, 228-234.	1.8	7
371	How "magic angle"™ graphene is stirring up physics. Nature, 2019, 565, 15-18.	13.7	11
372	Classification of flat bands according to the band-crossing singularity of Bloch wave functions. Physical Review B, 2019, 99, .	1.1	107
373	Gate-Tunable Topological Flat Bands in Trilayer Graphene Boron-Nitride Moiré Superlattices. Physical Review Letters, 2019, 122, 016401.	2.9	130
374	Structural reconfiguration and stress relaxation in twisted epitaxial graphene by annealing. Nanotechnology, 2019, 30, 045708.	1.3	1
375	Van der Waals Heterostructure Devices with Dynamically Controlled Conduction Polarity and Multifunctionality. Advanced Functional Materials, 2019, 29, 1804897.	7.8	23
376	Strain Engineering of 2D Materials: Issues and Opportunities at the Interface. Advanced Materials, 2019, 31, e1805417.	11.1	415
377	Multiple topological transitions in twisted bilayer graphene near the first magic angle. Physical Review B, 2019, 99, .	1.1	104
378	Pressure-induced magnetism in rotated graphene bilayers. Physical Review B, 2019, 99, .	1.1	17
379	Kohn-Luttinger Superconductivity in Twisted Bilayer Graphene. Physical Review Letters, 2019, 122, 026801.	2.9	194

#	ARTICLE	IF	CITATIONS
380	Superradiant Quantum Materials. Physical Review Letters, 2019, 122, 017401.	2.9	93
381	A New Electro-Optical Switch Modulator Based on the Surface Plasmon Polaritons of Graphene in Mid-Infrared Band. Sensors, 2019, 19, 89.	2.1	10
382	Hexagonal boron nitride monolayers on metal supports: Versatile templates for atoms, molecules and nanostructures. Surface Science Reports, 2019, 74, 1-95.	3.8	184
383	Giant magnetic field from moiré induced Berry phase in homobilayer semiconductors. National Science Review, 2020, 7, 12-20.	4.6	40
384	A new twist in graphene research: Twisted graphene. Carbon, 2020, 156, 470-487.	5.4	67
385	Ultrasensitive Field-Effect Biosensors Enabled by the Unique Electronic Properties of Graphene. Small, 2020, 16, e1902820.	5.2	75
386	Energy Minimization of Two Dimensional Incommensurate Heterostructures. Archive for Rational Mechanics and Analysis, 2020, 235, 1289-1325.	1.1	21
387	Graphene-based composites for electrochemical energy storage. Energy Storage Materials, 2020, 24, 22-51.	9.5	364
388	Excitonic effects in twisted bilayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 115, 113682.	1.3	2
389	Moiré patterns: a simple analytical model. 2D Materials, 2020, 7, 011005.	2.0	13
390	Insight into long-period pattern by depth sectioning using aberration-corrected scanning transmission electron microscope. Ultramicroscopy, 2020, 209, 112885.	0.8	3
391	A First-Principles Study of Electronic Properties of Twisted MoTe ₂ . Physica Status Solidi (B): Basic Research, 2020, 257, 1900412.	0.7	6
392	Dimerized superconducting states for strongly correlated electrons in a honeycomb lattice. Physica B: Condensed Matter, 2020, 577, 411771.	1.3	2
393	Understanding Interlayer Contact Conductance in Twisted Bilayer Graphene. Small, 2020, 16, e1902844.	5.2	27
394	Graphene-based spinmechatronic valve. 2D Materials, 2020, 7, 015005.	2.0	3
396	Introduction to Carbon-Based Nanostructures. , 2020, , 1-10.		0
397	The New Family of Two-Dimensional Materials and van der Waals Heterostructures. , 2020, , 70-91.		0
398	Quantum Transport: General Concepts. , 2020, , 92-119.		0

#	ARTICLE	IF	CITATIONS
399	Klein Tunneling and Ballistic Transport in Graphene and Related Materials. , 2020, , 120-144.		0
400	Quantum Transport in Disordered Graphene-Based Materials. , 2020, , 145-209.		0
401	Advances of 2D bismuth in energy sciences. Chemical Society Reviews, 2020, 49, 263-285.	18.7	138
402	Tuning ferroelectricity by charge doping in two-dimensional SnSe. Journal of Applied Physics, 2020, 127, 014101.	1.1	12
405	Electronic Properties of Carbon-Based Nanostructures. , 2020, , 11-69.		0
406	Quantum Hall Effects in Graphene. , 2020, , 210-236.		0
407	Spin-Related Phenomena. , 2020, , 237-277.		0
408	Ab Initio and Multiscale Quantum Transport in Graphene-Based Materials. , 2020, , 293-353.		0
412	Perfect and Controllable Nesting in Minimally Twisted Bilayer Graphene. Nano Letters, 2020, 20, 971-978.	4.5	26
413	The development of mechanoluminescence from organic compounds: breakthrough and deep insight. Materials Chemistry Frontiers, 2020, 4, 317-331.	3.2	90
414	Bridging the van der Waals Interface for Advanced Optoelectronic Devices. Advanced Materials, 2020, 32, e1906874.	11.1	31
415	Gate-tunable flat bands in van der Waals patterned dielectric superlattices. 2D Materials, 2020, 7, 015028.	2.0	20
416	Electron-hole hybridization in bilayer graphene. National Science Review, 2020, 7, 248-253.	4.6	5
417	Intrinsic quantized anomalous Hall effect in a moiré heterostructure. Science, 2020, 367, 900-903.	6.0	844
418	The emergence of one-dimensional channels in marginal-angle twisted bilayer graphene. 2D Materials, 2020, 7, 015023.	2.0	30
419	Theoretical and experimental developments in quantum spin liquid in geometrically frustrated magnets: a review. Journal of Materials Science, 2020, 55, 2257-2290.	1.7	18
420	Γ_1^{\pm} : Solid state package allowing Bardeenâ€“Cooperâ€“Schrieffer and magnetic superstructure electronic states. Computer Physics Communications, 2020, 251, 107079.	3.0	4
421	Correlated insulator by the slice. Nature Physics, 2020, 16, 128-129.	6.5	2

#	ARTICLE	IF	CITATIONS
422	A two-dimensional ErCu_2 intermetallic compound on $\text{Cu}(111)$ with moiré-pattern-modulated electronic structures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1693-1700.	1.3	9
423	Strong correlations and orbital texture in single-layer 1T-TaSe_2 . <i>Nature Physics</i> , 2020, 16, 218-224.	6.5	126
424	Indirect-to-direct bandgap transition in bilayer InSe : roles of twistrionics. <i>2D Materials</i> , 2020, 7, 021002.	2.0	11
425	Pairing and non-Fermi liquid behavior in partially flat-band systems: Beyond nesting physics. <i>Physical Review B</i> , 2020, 101, .	1.1	24
426	Localization and delocalization of light in photonic moiré lattices. <i>Nature</i> , 2020, 577, 42-46.	13.7	253
427	Directional massless Dirac fermions in a layered van der Waals material with one-dimensional long-range order. <i>Nature Materials</i> , 2020, 19, 27-33.	13.3	21
428	Dirac fermions and flat bands in the ideal kagome metal FeSn . <i>Nature Materials</i> , 2020, 19, 163-169.	13.3	367
429	Bilayer Graphene: From Stacking Order to Growth Mechanisms. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900605.	1.2	4
430	Unusual butterfly-shaped hysteresis and defect-induced ferromagnetic transitions in highly oriented pyrolytic graphite with variable Bernal ordering. <i>Carbon</i> , 2020, 158, 857-863.	5.4	5
431	Novel phenomena in two-dimensional semiconductors. , 2020, , 25-79.		0
432	Tunable anisotropic behaviors in phosphorene under periodic potentials in arbitrary directions. <i>Nanotechnology</i> , 2020, 31, 105205.	1.3	6
433	Van Der Waals Heterostructures with Spin-Orbit Coupling. <i>Annalen Der Physik</i> , 2020, 532, 1900344.	0.9	15
434	Skyrmion and tetartion lattices in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	9
435	Electronic properties of slid bilayer graphene: effective models in low energy range. <i>European Physical Journal B</i> , 2020, 93, 1.	0.6	1
436	Twisting for Tunable Nonlinear Optics. <i>Matter</i> , 2020, 3, 987-988.	5.0	20
437	Strain-Controlled Dynamic Rotation of Twisted 2D Atomic Layers for Tunable Nanomechanical Systems. <i>ACS Applied Nano Materials</i> , 2020, 3, 10878-10884.	2.4	3
438	Optically induced flat bands in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	38
439	Band structure and inter-tube optical transitions in double-walled carbon nanotubes. <i>Physical Review B</i> , 2020, 102, .	1.1	11

#	ARTICLE	IF	CITATIONS
440	HeteromoirÃ© Engineering on Magnetic Bloch Transport in Twisted Graphene Superlattices. Nano Letters, 2020, 20, 7572-7579.	4.5	10
441	Overdoping Graphene Beyond the van Hove Singularity. Physical Review Letters, 2020, 125, 176403.	2.9	83
442	Combined Minivalley and Layer Control in Twisted Double Bilayer Graphene. Physical Review Letters, 2020, 125, 176801.	2.9	15
443	Circular dichroism in higher-order harmonic generation: Heralding topological phases and transitions in Chern insulators. Physical Review B, 2020, 102, .	1.1	87
444	Tuning the quantumness of simple Bose systems: A universal phase diagram. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27231-27237.	3.3	8
445	Supertwisted spirals of layered materials enabled by growth on non-Euclidean surfaces. Science, 2020, 370, 442-445.	6.0	65
446	Interlayer Binding Energy of Hexagonal MoS2 as Determined by an In Situ Peeling-to-Fracture Method. Journal of Physical Chemistry C, 2020, 124, 23419-23425.	1.5	23
447	Obstruction and Interference in Low-Energy Models for Twisted Bilayer Graphene. Physical Review Letters, 2020, 125, 176404.	2.9	10
448	Shedding light on moirÃ© excitons: A first-principles perspective. Science Advances, 2020, 6, .	4.7	50
449	Decomposition and embedding in the stochastic <i>GW</i> self-energy. Journal of Chemical Physics, 2020, 153, 134103.	1.2	15
450	On the electronâ€“polaronâ€“electronâ€“polaron scattering and Landau levels in pristine graphene-like quantum electrodynamics. European Physical Journal B, 2020, 93, 1.	0.6	8
451	Quantum geometry and stability of moirÃ© flatband ferromagnetism. Physical Review B, 2020, 102, .	1.1	17
452	Spectroscopic Evidence for a Spin- and Valley-Polarized Metallic State in a Nonmagic-Angle Twisted Bilayer Graphene. ACS Nano, 2020, 14, 13081-13090.	7.3	10
453	Light-induced irreversible structural phase transition in trilayer graphene. Light: Science and Applications, 2020, 9, 174.	7.7	40
454	Ferromagnetic correlation in hydrogen doped highly oriented pyrolytic graphite. Diamond and Related Materials, 2020, 109, 108030.	1.8	3
455	p Orbital Flat Band and Dirac Cone in the Electronic Honeycomb Lattice. ACS Nano, 2020, 14, 13638-13644.	7.3	31
456	Correlated insulating phases of twisted bilayer graphene at commensurate filling fractions: A Hartree-Fock study. Physical Review B, 2020, 102, .	1.1	107
457	Emergent flat band lattices in spatially periodic magnetic fields. Physical Review B, 2020, 102, .	1.1	2

#	ARTICLE	IF	CITATIONS
458	Moiré Band Topology in Twisted Bilayer Graphene. Nano Letters, 2020, 20, 6076-6083.	4.5	30
459	Interaction effects and superconductivity signatures in twisted double-bilayer WSe ₂ . Nanoscale Horizons, 2020, 5, 1309-1316.	4.1	68
460	Effects of structural distortions on the electronic structure of T -type transition metal dichalcogenides. Physical Review B, 2020, 102, .	1.1	5
461	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. Nature Materials, 2020, 19, 1068-1073.	13.3	169
462	Emergent magnetic texture in driven twisted bilayer graphene. Nanoscale, 2020, 12, 15383-15392.	2.8	16
463	Simulating Twistrionics without a Twist. Physical Review Letters, 2020, 125, 030504.	2.9	37
464	Electronic properties of twisted bilayer graphene in high-energy k - μ -Hamiltonian approximation. Modern Physics Letters B, 2020, 34, 2040055.	1.0	2
465	Superconductivity in metallic twisted bilayer graphene stabilized by WSe ₂ . Nature, 2020, 583, 379-384.	13.7	225
466	Hofstadter butterfly and the quantum Hall effect in twisted double bilayer graphene. Physical Review B, 2020, 102, .	1.1	22
467	Flat Bands and Chiral Optical Response of Moiré Insulators. Physical Review Letters, 2020, 125, 037402.	2.9	24
468	Recent Advances in Twisted Structures of Flatland Materials and Crafting Moiré Superlattices. Advanced Functional Materials, 2020, 30, 2000878.	7.8	41
469	Interface electronic structure between aluminum and black phosphorus. Results in Physics, 2020, 18, 103222.	2.0	3
470	High-resolution optical micro-spectroscopy extending from the near-infrared to the vacuum-ultraviolet. Review of Scientific Instruments, 2020, 91, 073107.	0.6	1
471	Flattening is flattering: The revolutionizing 2D electronic systems*. Chinese Physics B, 2020, 29, 097307.	0.7	6
472	Universality and quantum criticality in quasiperiodic spin chains. Nature Communications, 2020, 11, 2225.	5.8	33
473	Spin density wave and electron nematicity in magic-angle twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	18
474	Graphene bilayers with a twist. Nature Materials, 2020, 19, 1265-1275.	13.3	416
475	Twist-angle dependence of moiré excitons in WS ₂ /MoSe ₂ heterobilayers. Nature Communications, 2020, 11, 5888.	5.8	87

#	ARTICLE	IF	CITATIONS
476	Effect of bilayer stacking on the atomic and electronic structure of twisted double bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	24
477	Abnormal conductivity in low-angle twisted bilayer graphene. <i>Science Advances</i> , 2020, 6, .	4.7	54
478	Electrical switching of magnetic order in an orbital Chern insulator. <i>Nature</i> , 2020, 588, 66-70.	13.7	179
479	Unconventional ferroelectricity in moiré heterostructures. <i>Nature</i> , 2020, 588, 71-76.	13.7	165
480	Anomalous Cyclotron Motion in Graphene Superlattice Cavities. <i>Physical Review Letters</i> , 2020, 125, 217701.	2.9	11
481	Enter 2D quantum materials. <i>Nature Materials</i> , 2020, 19, 1255-1255.	13.3	2
482	2D Octagon-Structure Carbon and Its Polarization Resolved Raman Spectra. <i>Nanomaterials</i> , 2020, 10, 2252.	1.9	6
483	Ferroc orders in two-dimensional transition/rare-earth metal halides. <i>APL Materials</i> , 2020, 8, .	2.2	27
484	Plasmon-Enhanced Near-Field Chirality in Twisted van der Waals Heterostructures. <i>Nano Letters</i> , 2020, 20, 8711-8718.	4.5	21
485	Ultrafast formation of a transient two-dimensional diamondlike structure in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	8
486	Atomic-Scale Studies of Overlapping Grain Boundaries between Parallel and Quasi-Parallel Grains in Low-Symmetry Monolayer ReS ₂ . <i>Matter</i> , 2020, 3, 2108-2123.	5.0	11
487	Multilayer GaSe/InSe Heterointerface-Based Devices for Charge Transport and Optoelectronics. <i>ACS Applied Nano Materials</i> , 2020, 3, 11769-11776.	2.4	18
488	Rational Design of Binary Alloys for Catalytic Growth of Graphene via Chemical Vapor Deposition. <i>Catalysts</i> , 2020, 10, 1305.	1.6	7
489	Moiré Fringe Induced Gauge Field in Photonics. <i>Physical Review Letters</i> , 2020, 125, 203901.	2.9	21
490	Hofstadter Topology: Noncrystalline Topological Materials at High Flux. <i>Physical Review Letters</i> , 2020, 125, 236804.	2.9	49
491	In situ manipulation of van der Waals heterostructures for twistrionics. <i>Science Advances</i> , 2020, 6, .	4.7	69
492	Effects of Hydrogen on the Stacking Orientation of Bilayer Graphene Grown on Copper. <i>Chemistry of Materials</i> , 2020, 32, 10357-10364.	3.2	10
493	Twist Angle-Dependent Optical Responses in Controllably Grown WS ₂ Vertical Homojunctions. <i>Chemistry of Materials</i> , 2020, 32, 9721-9729.	3.2	25

#	ARTICLE	IF	CITATIONS
494	Correlated insulating states at fractional fillings of moiré superlattices. <i>Nature</i> , 2020, 587, 214-218.	13.7	315
495	Frontiers in hybrid and interfacial materials chemistry research. <i>MRS Bulletin</i> , 2020, 45, 951-964.	1.7	6
496	Landscape of Charge Puddles in Graphene Nanoribbons on Hexagonal Boron Nitride. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 2000317.	0.7	3
497	MoS ₂ /graphene composites: Fabrication and electrochemical energy storage. <i>Energy Storage Materials</i> , 2020, 33, 470-502.	9.5	85
498	Origin and evolution of ultraflat bands in twisted bilayer transition metal dichalcogenides: Realization of triangular quantum dots. <i>Physical Review B</i> , 2020, 102, .	1.1	62
499	Functional renormalization group for a large moiré unit cell. <i>Physical Review B</i> , 2020, 102, .	1.1	14
500	Plasmonic Nonreciprocity Driven by Band Hybridization in Moiré Materials. <i>Physical Review Letters</i> , 2020, 125, 066801.	2.9	15
501	Spectral functions of CVD grown MoS ₂ monolayers after chemical transfer onto Au surface. <i>Applied Surface Science</i> , 2020, 532, 147390.	3.1	11
502	How interlayer twist angles affect thermal conduction of double-walled nanotubes: A non-equilibrium molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2020, 160, 120234.	2.5	5
503	Detection of chirality of single-walled carbon nanotubes on hexagonal boron nitride. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	5
504	Preparation of Twisted Bilayer Graphene via the Wetting Transfer Method. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40958-40967.	4.0	35
505	Chiral Plasmons with Twisted Atomic Bilayers. <i>Physical Review Letters</i> , 2020, 125, 077401.	2.9	51
506	Topological flat bands in frustrated kagome lattice CoSn. <i>Nature Communications</i> , 2020, 11, 4004.	5.8	203
507	Two-dimensional lateral surface superlattices in GaAs heterostructures with independent control of carrier density and modulation potential. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	6
508	Mechanics at the interfaces of 2D materials: Challenges and opportunities. <i>Current Opinion in Solid State and Materials Science</i> , 2020, 24, 100837.	5.6	61
509	Facile Ge/GR nanocubes synthesis and application for Sudan I photodegradation in water. <i>Diamond and Related Materials</i> , 2020, 106, 107879.	1.8	3
510	Growth and Grain Boundaries in 2D Materials. <i>ACS Nano</i> , 2020, 14, 9320-9346.	7.3	62
511	Electronic-structure methods for twisted moiré layers. <i>Nature Reviews Materials</i> , 2020, 5, 748-763.	23.3	142

#	ARTICLE	IF	CITATIONS
512	Excitonic Laughlin states in ideal topological insulator flat bands and their possible presence in moiré superlattice materials. <i>Physical Review B</i> , 2020, 102, .	1.1	14
513	Symmetry breaking in the double moiré superlattices of relaxed twisted bilayer graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2020, 102, .	1.1	17
514	Twistronics in Graphene, from Transfer Assembly to Epitaxy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4690.	1.3	9
515	Non-Abelian Dirac node braiding and near-degeneracy of correlated phases at odd integer filling in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	97
516	Moiré is More: Access to New Properties of Two-Dimensional Layered Materials. <i>Matter</i> , 2020, 3, 1142-1161.	5.0	46
517	Determination of interatomic coupling between two-dimensional crystals using angle-resolved photoemission spectroscopy. <i>Nature Communications</i> , 2020, 11, 3582.	5.8	10
518	Topological superconductivity, ferromagnetism, and valley-polarized phases in moiré systems: Renormalization group analysis for twisted double bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	19
519	Nematicity with a twist: Rotational symmetry breaking in a moiré superlattice. <i>Science Advances</i> , 2020, 6, eaba8834.	4.7	65
520	Machine-learning models for Raman spectra analysis of twisted bilayer graphene. <i>Carbon</i> , 2020, 169, 455-464.	5.4	24
521	Electronic localization in twisted bilayer MoS_2 with small rotation angle. <i>Physical Review B</i> , 2020, 102, .	1.1	10
522	Crossed graphene nanoribbons as beam splitters and mirrors for electron quantum optics. <i>Physical Review B</i> , 2020, 102, .	1.1	10
523	Fabricating 3D Metastructures by Simultaneous Modulation of Flexible Resist Stencils and Basal Molds. <i>Advanced Materials</i> , 2020, 32, 2002570.	11.1	3
524	Constrained random phase approximation of the effective Coulomb interaction in lattice models of twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	13
525	Landau level of fragile topology. <i>Physical Review B</i> , 2020, 102, .	1.1	63
526	Microscopic pairing mechanism, order parameter, and disorder sensitivity in moiré superlattices: Applications to twisted double-bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	29
527	Tunneling spectroscopy as a probe of fractionalization in two-dimensional magnetic heterostructures. <i>Physical Review B</i> , 2020, 102, .	1.1	15
528	Ground State and Hidden Symmetry of Magic-Angle Graphene at Even Integer Filling. <i>Physical Review X</i> , 2020, 10, .	2.8	184
529	Evidence of flat bands and correlated states in buckled graphene superlattices. <i>Nature</i> , 2020, 584, 215-220.	13.7	118

#	ARTICLE	IF	CITATIONS
530	Electronic phase separation in multilayer rhombohedral graphite. <i>Nature</i> , 2020, 584, 210-214.	13.7	81
531	Molecular Beam Epitaxy of Two-Dimensional Vanadium-Molybdenum Diselenide Alloys. <i>ACS Nano</i> , 2020, 14, 11140-11149.	7.3	28
532	Moiré patterns in graphene-rhenium disulfide vertical heterostructures. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	9
533	Orbital-selective Dirac fermions and extremely flat bands in frustrated kagome-lattice metal CoSn. <i>Nature Communications</i> , 2020, 11, 4002.	5.8	121
534	Observation of flat band, RKKY plateau, and magnetization jump in quasi-one-dimensional triangular kagome lattice model. <i>Journal of Applied Physics</i> , 2020, 128, 163903.	1.1	3
535	Molecular beam epitaxy of the magnetic Kagome metal FeSn on LaAlO ₃ (111). <i>AIP Advances</i> , 2020, 10, .	0.6	13
536	Supercell-core software: A useful tool to generate an optimal supercell for vertically stacked nanomaterials. <i>AIP Advances</i> , 2020, 10, 105105.	0.6	4
537	Blue Phosphorene Bilayer is a Two-Dimensional Metal and an Unambiguous Classification Scheme for Buckled Hexagonal Bilayers. <i>Physical Review Letters</i> , 2020, 125, 196401.	2.9	28
538	Geometry Rescues Superconductivity in Twisted Graphene. <i>Physics Magazine</i> , 2020, 13, .	0.1	6
539	Tunable phase transitions and high photovoltaic performance of two-dimensional In ₂ Ge ₂ Te ₆ semiconductors. <i>Nanoscale Horizons</i> , 2020, 5, 1566-1573.	4.1	17
540	Emergence of orbital angular moment at van Hove singularity in graphene/h-BN moiré superlattice. <i>Nature Communications</i> , 2020, 11, 5380.	5.8	15
541	Magnon magic angles and tunable Hall conductivity in 2D twisted ferromagnetic bilayers. <i>Scientific Reports</i> , 2020, 10, 15069.	1.6	16
542	Quasi-flat-band physics in a two-leg ladder model and its relation to magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	17
543	Wide application feasibility report on graphene. <i>Emerging Materials Research</i> , 2020, 9, 1168-1194.	0.4	1
544	Nanoscale Conductivity Imaging of Correlated Electronic States in WSe_2 Moiré Superlattices. <i>Physical Review Letters</i> , 2020, 125, 186803.	2.9	36
545	Magic-angle semimetals. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	37
546	Rotated angular modulated electronic and optical properties of bilayer phosphorene: A first-principles study. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	10
547	Enhanced Ferromagnetism of CrI ₃ Bilayer by Self-Intercalation*. <i>Chinese Physics Letters</i> , 2020, 37, 107506.	1.3	25

#	ARTICLE	IF	CITATIONS
548	Band structure of twisted bilayer graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2020, 102, .	1.1	32
549	One-Dimensional Moiré Superlattices and Flat Bands in Collapsed Chiral Carbon Nanotubes. <i>Nano Letters</i> , 2020, 20, 7588-7593.	4.5	10
550	Correlated states in magic angle twisted bilayer graphene under the optical conductivity scrutiny. <i>Npj Quantum Materials</i> , 2020, 5, .	1.8	14
551	Optical and plasmonic properties of twisted bilayer graphene: Impact of interlayer tunneling asymmetry and ground-state charge inhomogeneity. <i>Physical Review B</i> , 2020, 102, .	1.1	33
552	Flat bands in the CoSn-type compounds. <i>Physical Review B</i> , 2020, 102, .	1.1	52
553	Controlled Two-Dimensional Ferromagnetism in $1T\text{-CrTe}_2$: The Role of Charge Density Wave and Strain. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21047-21053.	1.5	29
554	Moiré magnons in twisted bilayer magnets with collinear order. <i>Physical Review B</i> , 2020, 102, .	1.1	29
555	Surfactant-Mediated Epitaxial Growth of Single-Layer Graphene in an Unconventional Orientation on SiC. <i>Physical Review Letters</i> , 2020, 125, 106102.	2.9	13
556	Fabrication and manipulation of nanosized graphene homojunction with atomically-controlled boundaries. <i>Nano Research</i> , 2020, 13, 3286-3291.	5.8	3
558	Tuning graphene thermal modulator by rotating. <i>International Journal of Smart and Nano Materials</i> , 2020, 11, 310-323.	2.0	3
559	Moiré potential impedes interlayer exciton diffusion in van der Waals heterostructures. <i>Science Advances</i> , 2020, 6, .	4.7	83
560	Synthesis of Graphene Oxide-Supported β -Cyclodextrin Adsorbent for Removal of p-Nitrophenol. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	7
561	Enhancement of van der Waals Interlayer Coupling through Polar Janus MoSSe. <i>Journal of the American Chemical Society</i> , 2020, 142, 17499-17507.	6.6	80
562	Twisted Bilayer Graphene Quantum Dots for Chiral Nanophotonics. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22704-22710.	1.5	23
563	Superconducting pairing symmetry and spin-orbit coupling in proximitized graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	2
564	Lithium intercalation in MoS_2 bilayers and implications for moiré flat bands. <i>Physical Review B</i> , 2020, 102, .	1.1	1
565	Optical soliton formation controlled by angle twisting in photonic moiré lattices. <i>Nature Photonics</i> , 2020, 14, 663-668.	15.6	129
566	Time-reversal symmetry breaking versus chiral symmetry breaking in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 102, .	1.1	14

#	ARTICLE	IF	CITATIONS
567	Aharonov-Bohm Oscillations in Minimally Twisted Bilayer Graphene. Physical Review Letters, 2020, 125, 096402.	2.9	27
568	Change of chirality at magic angles of twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	10
569	Origin of the vortex displacement field in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	8
570	Honeycomb-Lattice Mott Insulator on Tantalum Disulphide. Physical Review Letters, 2020, 125, 096403.	2.9	8
571	Jahn-Teller coupling to moiré phonons in the continuum model formalism for small-angle twisted bilayer graphene. European Physical Journal Plus, 2020, 135, 630.	1.2	7
572	Valley magnetism, nematicity, and density wave orders in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	36
573	Point defects in two-dimensional hexagonal boron nitride: A perspective. Journal of Applied Physics, 2020, 128, .	1.1	42
574	Quantum Hall spin liquids and their possible realization in moiré systems. Physical Review B, 2020, 102, .	1.1	10
575	Experimental evidence for orbital magnetic moments generated by moiré-scale current loops in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	38
576	Electronic structure of 30° twisted double bilayer graphene. Physical Review B, 2020, 102, .	1.1	10
577	Emergent Fermi Surface in a Triangular-Lattice SU(4) Quantum Antiferromagnet. Physical Review Letters, 2020, 125, 117202.	2.9	17
578	Terahertz Photogalvanics in Twisted Bilayer Graphene Close to the Second Magic Angle. Nano Letters, 2020, 20, 7152-7158.	4.5	25
579	Twisted Trilayer Graphene: A Precisely Tunable Platform for Correlated Electrons. Physical Review Letters, 2020, 125, 116404.	2.9	82
580	Highly energy-tunable quantum light from moiré-trapped excitons. Science Advances, 2020, 6, .	4.7	140
581	Correlation-induced valley splitting and orbital magnetism in a strain-induced zero-energy flatband in twisted bilayer graphene near the magic angle. Physical Review B, 2020, 102, .	1.1	26
582	Bulk valley transport and Berry curvature spreading at the edge of flat bands. Nature Communications, 2020, 11, 5548.	5.8	21
583	Deconfinement of Mott localized electrons into topological and spin-orbit-coupled Dirac fermions. Npj Quantum Materials, 2020, 5, .	1.8	13
584	Substrate screening approach for quasiparticle energies of two-dimensional interfaces with lattice mismatch. Physical Review B, 2020, 102, .	1.1	8

#	ARTICLE	IF	CITATIONS
585	Quantum geometric contributions to the BKT transition: Beyond mean field theory. Physical Review B, 2020, 102, .	1.1	20
586	Interplay between electronic correlation and atomic disorder in a low carrier density transition-metal oxide. Physical Review B, 2020, 102, .	1.1	20
587	Flat Bands in Magic-Angle Vibrating Plates. Physical Review Letters, 2020, 125, 214301.	2.9	31
588	Renormalization Group Study of Hidden Symmetry in Twisted Bilayer Graphene with Coulomb Interactions. Physical Review Letters, 2020, 125, 257602.	2.9	80
589	Magic-angle bilayer phononic graphene. Physical Review B, 2020, 102, .	1.1	37
590	Superradiant Phase Transition in Electronic Systems and Emergent Topological Phases. Physical Review Letters, 2020, 125, 257604.	2.9	45
591	Efficient simulation of moiré materials using the density matrix renormalization group. Physical Review B, 2020, 102, .	1.1	76
592	Band Engineering of Large-Twist-Angle Graphene Superlattices with Pressure. Physical Review Letters, 2020, 125, 226403.	1.1	76
593	Flat-band ferromagnetism in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	15
594	Time-Domain Investigations of Coherent Phonons in van der Waals Thin Films. Nanomaterials, 2020, 10, 2543.	1.9	25
595	Quantum anomalous Hall phase in synthetic bilayers via twistronics without a twist. Physical Review B, 2020, 102, .	1.1	7
596	Evolution of the electronic structure of twisted bilayer MoSe ₂ . Physical Review B, 2020, 102, .	1.1	7
597	Tuning band gaps in twisted bilayer MoS ₂ . Physical Review B, 2020, 102, .	1.1	22
598	Imaging of nearly flat band induced atomic-scale negative differential conductivity in <i>ABC</i> -stacked trilayer graphene. Physical Review B, 2020, 102, .	1.1	14
599	Effective field theory for acoustic and pseudoacoustic phonons in solids. Physical Review D, 2020, 102, .	1.6	2
600	Observation of Flat Frequency Bands at Open Edges and Antiphase Boundary Seams in Topological Mechanical Metamaterials. Physical Review Letters, 2020, 125, 225501.	2.9	5
601	Current-Induced Reversal of Anomalous Hall Conductance in Twisted Bilayer Graphene. Physical Review Letters, 2020, 125, 226401.	2.9	18
602	Misorientation-Controlled Cross-Plane Thermoelectricity in Twisted Bilayer Graphene. Physical Review Letters, 2020, 125, 226802.	2.9	26

#	ARTICLE	IF	CITATIONS
603	Spin magnetometry as a probe of stripe superconductivity in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	24
604	Topological disorder triggered by interaction-induced flattening of electron spectra in solids. Physical Review B, 2020, 102, .	1.1	9
605	Magnetolectric Coupling in Multiferroic Bilayer $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{VS} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 110 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 247601. \text{Physical Review Letters, 2020, 125, 247601.}$	2.9	110
606	Ultrahigh-resolution scanning microwave impedance microscopy of moiré lattices and superstructures. Science Advances, 2020, 6, .	4.7	23
607	Strongly correlated Chern insulators in magic-angle twisted bilayer graphene. Nature, 2020, 588, 610-615.	13.7	262
608	Tunability of multiple ultraflat bands and effect of spin-orbit coupling in twisted bilayer transition metal dichalcogenides. Physical Review B, 2020, 102, .	1.1	31
609	Tunable Lattice Reconstruction, Triangular Network of Chiral One-Dimensional States, and Bandwidth of Flat Bands in Magic Angle Twisted Bilayer Graphene. Physical Review Letters, 2020, 125, 236102.	2.9	29
610	Robust Spin Interconnect with Isotropic Spin Dynamics in Chemical Vapor Deposited Graphene Layers and Boundaries. ACS Nano, 2020, 14, 15864-15873.	7.3	12
611	Measurement of Electrical Conductivity Degree of some Metallic Conductors by Using the LC Circuit. Materials Science Forum, 0, 1002, 239-247.	0.3	0
612	Advances in Metal Phthalocyanine based Carbon Composites for Electrocatalytic CO ₂ Reduction. ChemCatChem, 2020, 12, 6103-6130.	1.8	38
613	Electronic Raman Scattering in Twistrionic Few-Layer Graphene. Physical Review Letters, 2020, 125, 197401.	2.9	10
614	Investigation of Thermal Annealing Effect on Bilayer Graphene by Isotope Labeling Assisted Raman Spectroscopy. Physica Status Solidi (B): Basic Research, 2020, 257, 2000250.	0.7	0
615	Interactions in the 8-orbital model for twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	27
616	Magnetic exchange interactions in monolayer CrI ₃ from many-body wavefunction calculations. 2D Materials, 2020, 7, 035005.	2.0	32
617	Direct Observation of Flatband Loop States Arising from Nontrivial Real-Space Topology. Physical Review Letters, 2020, 124, 183901.	2.9	45
618	Electronic structure calculations of twisted multi-layer graphene superlattices. 2D Materials, 2020, 7, 035028.	2.0	33
619	Effective continuum model for relaxed twisted bilayer graphene and moiré electron-phonon interaction. Physical Review B, 2020, 101, .	1.1	53
620	Anomalous Hall effect, magneto-optical properties, and nonlinear optical properties of twisted graphene systems. Npj Computational Materials, 2020, 6, .	3.5	42

#	ARTICLE	IF	CITATIONS
621	Superconductivity and strong correlations in moiré flat bands. Nature Physics, 2020, 16, 725-733.	6.5	448
622	Strongly correlated and topological states in [111] grown transition metal oxide thin films and heterostructures. APL Materials, 2020, 8, .	2.2	26
623	Stacking Domains and Dislocation Networks in Marginally Twisted Bilayers of Transition Metal Dichalcogenides. Physical Review Letters, 2020, 124, 206101.	2.9	100
624	Mapping the twist-angle disorder and Landau levels in magic-angle graphene. Nature, 2020, 581, 47-52.	13.7	241
625	Tunable correlated states and spin-polarized phases in twisted bilayer graphene. Nature, 2020, 583, 215-220.	13.7	433
626	Marginal Fermi Liquid in Twisted Bilayer Graphene. Physical Review Letters, 2020, 124, 186801.	2.9	23
627	Ferromagnetism in Narrow Bands of Moiré Superlattices. Physical Review Letters, 2020, 124, 187601.	2.9	123
628	KITE: high-performance accurate modelling of electronic structure and response functions of large molecules, disordered crystals and heterostructures. Royal Society Open Science, 2020, 7, 191809.	1.1	30
629	Nanoscale strain engineering of giant pseudo-magnetic fields, valley polarization, and topological channels in graphene. Science Advances, 2020, 6, eaat9488.	4.7	75
630	Exotic properties of materials and the necessity to invoke the dimension of angle (?) and the orbital degrees of freedom of s electrons. International Journal of Computational Materials Science and Engineering, 2020, 09, 2050003.	0.5	2
631	Antiferromagnetism and chiral d -wave superconductivity from an effective model for twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	5
632	Theory of exciton-electron scattering in atomically thin semiconductors. Physical Review B, 2020, 101, .	1.1	50
633	Twisted bilayer graphene in a parallel magnetic field. Physical Review B, 2020, 101, .	1.1	17
634	A first-principles theoretical study of the electronic and optical properties of twisted bilayer GaN structures. Journal of Computational Electronics, 2020, 19, 910-916.	1.3	12
635	Unusual butterfly-shaped magnetization signals and spin-glass-like behaviour in highly oriented pyrolytic graphite. Carbon, 2020, 167, 85-91.	5.4	6
636	Strong mid-infrared photoresponse in small-twist-angle bilayer graphene. Nature Photonics, 2020, 14, 549-553.	15.6	76
637	Independent superconductors and correlated insulators in twisted bilayer graphene. Nature Physics, 2020, 16, 926-930.	6.5	276
638	Topological quantum control: Edge currents via Floquet depinning of skyrmions in the $\hat{1}/2=0$ graphene quantum Hall antiferromagnet. Physical Review B, 2020, 101, .	1.1	1

#	ARTICLE	IF	CITATIONS
639	Archetypical "push the band critical point" mechanism for peaking of the density of states in three-dimensional crystals: Theory and case study of cubic H_3S . Physical Review B, 2020, 101, .	1.1	12
640	Superconducting currents and charge gradients in the octonion spaces. European Physical Journal Plus, 2020, 135, 1.	1.2	11
641	Conduction properties of extended defect states in Dirac materials. European Physical Journal Plus, 2020, 135, 1.	1.2	4
642	Twistronics in tensile strained bilayer black phosphorus. Nanoscale, 2020, 12, 12909-12916.	2.8	13
643	Optical rotation in thin chiral/twisted materials and the gyrotropic magnetic effect. Physical Review B, 2020, 101, .	1.1	7
644	Electronic spectrum of bilayer graphene with broken P-symmetry of both intra- and inter-layers. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114192.	1.3	2
645	Antiferromagnet "Semiconductor Van Der Waals Heterostructures: Interlayer Interplay of Exciton with Magnetic Ordering. Nano Letters, 2020, 20, 4625-4630.	4.5	26
646	Isothermal Growth and Stacking Evolution in Highly Uniform Bernal-Stacked Bilayer Graphene. ACS Nano, 2020, 14, 6834-6844.	7.3	28
647	Homotopy characterization of non-Hermitian Hamiltonians. Physical Review B, 2020, 101, .	1.1	86
648	Electron "phonon and electron" electron interaction effects in twisted bilayer graphene. Annals of Physics, 2020, 417, 168193.	1.0	14
649	Emergent quantum materials. MRS Bulletin, 2020, 45, 340-347.	1.7	14
650	The electronic structure of ideal graphene. , 2020, , 1-23.		0
651	Effects of vacancy defects on the mechanical properties of graphene/hexagonal BN superlattice nanoribbons. New Carbon Materials, 2020, 35, 165-175.	2.9	5
652	Optical, optoelectronic, and photoelectric properties in moiré superlattices of twist bilayer graphene. Materials Today Physics, 2020, 14, 100238.	2.9	26
655	Electron states in a magnetic field. , 2020, , 24-62.		1
656	Quantum transport via evanescent waves. , 2020, , 63-76.		0
657	The Klein paradox and chiral tunneling. , 2020, , 77-107.		0
658	Edges, nanoribbons, and quantum dots. , 2020, , 108-140.		0

#	ARTICLE	IF	CITATIONS
659	Point defects. , 2020, , 141-167.		0
660	Optics and response functions. , 2020, , 168-192.		0
661	The Coulomb problem. , 2020, , 193-212.		0
662	Crystal lattice dynamics, structure, and thermodynamics. , 2020, , 213-256.		0
663	Gauge fields and strain engineering. , 2020, , 257-278.		0
664	Scattering mechanisms and transport properties. , 2020, , 279-325.		0
665	Spin effects and magnetism. , 2020, , 326-350.		0
666	Graphene on hexagonal boron nitride. , 2020, , 351-378.		0
667	Twisted bilayer graphene. , 2020, , 379-388.		0
668	Many-body effects in graphene. , 2020, , 389-400.		0
671	Spin liquids and pseudogap metals in the SU(4) Hubbard model in a moiré superlattice. Physical Review B, 2020, 101, .	1.1	13
672	Superconductivity in sodium-doped T-carbon. Physical Review B, 2020, 101, .	1.1	12
673	Twisted Nano-Optics: Manipulating Light at the Nanoscale with Twisted Phonon Polaritonic Slabs. Nano Letters, 2020, 20, 5323-5329.	4.5	126
674	Cascade of electronic transitions in magic-angle twisted bilayer graphene. Nature, 2020, 582, 198-202.	13.7	282
675	Cascade of phase transitions and Dirac revivals in magic-angle graphene. Nature, 2020, 582, 203-208.	13.7	297
676	Coulomb interaction in quasibound states of graphene quantum dots. Physical Review B, 2020, 101, .	1.1	20
677	Unconventional valley-dependent optical selection rules and landau level mixing in bilayer graphene. Nature Communications, 2020, 11, 2941.	5.8	9
678	Changes of Structure and Bonding with Thickness in Chalcogenide Thin Films. Advanced Materials, 2020, 32, e2001033.	11.1	19

#	ARTICLE	IF	CITATIONS
679	Interlayer coupling induced quasiparticles. <i>Physical Review B</i> , 2020, 101, .	1.1	5
680	Opportunities and Challenges in Twisted Bilayer Graphene: A Review. <i>Nano-Micro Letters</i> , 2020, 12, 126.	14.4	86
681	Versatile construction of van der Waals heterostructures using a dual-function polymeric film. <i>Nature Communications</i> , 2020, 11, 3029.	5.8	41
682	Designing Kagome Lattice from Potassium Atoms on Phosphorusâ€“Gold Surface Alloy. <i>Nano Letters</i> , 2020, 20, 5583-5589.	4.5	20
683	Correlated electronic phases in twisted bilayer transition metal dichalcogenides. <i>Nature Materials</i> , 2020, 19, 861-866.	13.3	544
684	Visualization of moir� superlattices. <i>Nature Nanotechnology</i> , 2020, 15, 580-584.	15.6	187
685	Intertwined order in fractional Chern insulators from finite-momentum pairing of composite fermions. <i>Physical Review B</i> , 2020, 101, .	1.1	7
686	Interlayer friction and superlubricity in bilayer graphene and MoS2/MoSe2 van der Waals heterostructures. <i>Tribology International</i> , 2020, 151, 106483.	3.0	49
687	Moir�â€“Patternâ€“Tuned Electronic Structures of van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2002672.	7.8	31
688	Artificial Metaphotonics Born Naturally in Two Dimensions. <i>Chemical Reviews</i> , 2020, 120, 6197-6246.	23.0	78
689	Magic-angle semimetals with chiral symmetry. <i>Physical Review B</i> , 2020, 101, .	1.1	15
690	Effective Floquet Hamiltonians for periodically driven twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	33
691	Floquet engineering of interlayer couplings: Tuning the magic angle of twisted bilayer graphene at the exit of a waveguide. <i>Physical Review B</i> , 2020, 101, .	1.1	29
692	Electronic structure and quantum transport in twisted bilayer graphene with resonant scatterers. <i>Physical Review B</i> , 2020, 101, .	1.1	9
693	Unusual Moir� superlattices in exfoliated �¼m-thin HOPG lamellae: An angular-diffraction study. <i>Diamond and Related Materials</i> , 2020, 108, 107920.	1.8	8
694	Magnetic vortex and unsaturated magnetization components in highly oriented pyrolytic graphite. <i>Materials Research Express</i> , 2020, 7, 055601.	0.8	1
695	Slave-rotor theory on magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	5
696	Reversing abnormal hole localization in high-Al-content AlGaIn quantum well to enhance deep ultraviolet emission by regulating the orbital state coupling. <i>Light: Science and Applications</i> , 2020, 9, 104.	7.7	25

#	ARTICLE	IF	CITATIONS
697	Mesoscopic electronic transport in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	5
698	Twisted bilayer graphene fabricated by direct bonding in a high vacuum. <i>Applied Physics Express</i> , 2020, 13, 075004.	1.1	8
699	Anisotropic destruction of the Fermi surface in inhomogeneous holographic lattices. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	6
700	Modeling mechanical relaxation in incommensurate trilayer van der Waals heterostructures. <i>Physical Review B</i> , 2020, 101, .	1.1	31
701	Twisted Kitaev bilayers and the moiré Ising model. <i>Physical Review B</i> , 2020, 101, .	1.1	11
702	Phonon-mediated superconductivity in aluminum-deposited graphene $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{Al} \langle \text{mml:mi} \text{C} \langle \text{mml:mn} \text{8} \langle \text{mml:mn} \text{1} \langle \text{mml:msub} \langle \text{mml:mi} \text{B} \langle \text{mml:mn} \text{2} \langle \text{mml:mn} \text{2} \langle \text{mml:mn} \text{2} \rangle \rangle \rangle \rangle \rangle \rangle \rangle$. <i>Physical Review B</i> , 2020, 101, .	1.1	13
703	Systematic construction of topological flat-band models by molecular-orbital representation. <i>Physical Review B</i> , 2020, 101, .	1.1	18
704	Non-Fermi-liquid behavior and saddlelike flat band in the layered ferromagnet $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:msub} \langle \text{mml:mi} \text{AlFe} \langle \text{mml:mn} \text{2} \langle \text{mml:mn} \text{2} \rangle \rangle \langle \text{mml:msub} \langle \text{mml:mi} \text{B} \langle \text{mml:mn} \text{2} \rangle \rangle \rangle \rangle$. <i>Physical Review B</i> , 2020, 101, .	1.1	7
705	Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 2001483.	7.8	27
706	Observation of Electrically Tunable van Hove Singularities in Twisted Bilayer Graphene from NanoARPES. <i>Advanced Materials</i> , 2020, 32, 2001656.	11.1	25
707	Polar coupling enabled nonlinear optical filtering at MoS ₂ /ferroelectric heterointerfaces. <i>Nature Communications</i> , 2020, 11, 1422.	5.8	31
708	Simulation of Hubbard model physics in WSe ₂ /WS ₂ moiré superlattices. <i>Nature</i> , 2020, 579, 353-358.	13.7	511
709	Mott and generalized Wigner crystal states in WSe ₂ /WS ₂ moiré superlattices. <i>Nature</i> , 2020, 579, 359-363.	13.7	536
710	Ground state superconducting pair correlations in twisted bilayer graphene. <i>Modern Physics Letters B</i> , 2020, 34, 2050016.	1.0	6
711	Moiré Potential, Lattice Corrugation, and Band Gap Spatial Variation in a Twist-Free MoTe ₂ /MoS ₂ Heterobilayer. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2637-2646.	2.1	19
712	Nonmonotonic plasmon dispersion in strongly interacting Coulomb Luttinger liquids. <i>Physical Review B</i> , 2020, 101, .	1.1	1
713	Perfect one-dimensional chiral states in biased twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	32
714	Inducing Magnetic Phase Transitions in Monolayer CrI ₃ via Lattice Deformations. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7585-7590.	1.5	28

#	ARTICLE	IF	CITATIONS
715	Sizable Band Gap in Epitaxial Bilayer Graphene Induced by Silicene Intercalation. Nano Letters, 2020, 20, 2674-2680.	4.5	23
716	General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.	13.7	393
717	Particle-Hole Duality, Emergent Fermi Liquids, and Fractional Chern Insulators in Moiré Flatbands. Physical Review Letters, 2020, 124, 106803.	2.9	99
718	Multidimensional graphene structures and beyond: Unique properties, syntheses and applications. Progress in Materials Science, 2020, 113, 100665.	16.0	61
719	Topological flat bands without magic angles in massive twisted bilayer graphenes. Physical Review B, 2020, 101, .	1.1	13
720	Pressure-Induced Multidimensional Assembly and Sintering of CuInS_2 Nanoparticles into Lamellar Nanosheets with Band Gap Narrowing. ACS Applied Nano Materials, 2020, 3, 2438-2446.	2.4	10
721	Twist Angle-Dependent Atomic Reconstruction and Moiré Patterns in Transition Metal Dichalcogenide Heterostructures. ACS Nano, 2020, 14, 4550-4558.	7.3	172
722	Realization and transport investigation of a single layer-twisted bilayer graphene junction. Carbon, 2020, 163, 105-112.	5.4	4
723	Tunable Cherenkov Radiation of Phonon Polaritons in Silver Nanowire/Hexagonal Boron Nitride Heterostructures. Nano Letters, 2020, 20, 2770-2777.	4.5	19
724	Observation of Drastic Electronic-Structure Change in a One-Dimensional Moiré Superlattice. Physical Review Letters, 2020, 124, 106101.	2.9	23
725	Graphene-based hybrid photocatalysts: a promising route toward high-efficiency photocatalytic water remediation. , 2020, , 325-359.		0
726	Classification of critical points in energy bands based on topology, scaling, and symmetry. Physical Review B, 2020, 101, .	1.1	33
727	Fabrication, optical properties, and applications of twisted two-dimensional materials. Nanophotonics, 2020, 9, 1717-1742.	2.9	27
728	When graphene goes strange. Nature Materials, 2020, 19, 368-368.	13.3	1
729	Tuning the electronic properties of bilayer black phosphorene with the twist angle. Journal of Materials Chemistry C, 2020, 8, 6264-6272.	2.7	28
730	Ultraheavy and Ultrarelativistic Dirac Quasiparticles in Sandwiched Graphenes. Nano Letters, 2020, 20, 3030-3038.	4.5	80
731	Stacking-dependent topological phase in bilayer $M\text{B}_2\text{Ti}$		

#	ARTICLE	IF	CITATIONS
733	Correlated states in twisted double bilayer graphene. <i>Nature Physics</i> , 2020, 16, 520-525.	6.5	374
734	Electronic and optical properties of monolayer tin diselenide: The effect of doping, magnetic field, and defects. <i>Physical Review B</i> , 2020, 101, .	1.1	15
735	Unfolding method for periodic twisted systems with commensurate Moiré patterns. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 025501.	0.7	7
736	Pressure-induced gap modulation and topological transitions in twisted bilayer and twisted double bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	19
737	Stable Flatbands, Topology, and Superconductivity of Magic Honeycomb Networks. <i>Physical Review Letters</i> , 2020, 124, 137002.	2.9	25
738	Prospects and Opportunities of 2D van der Waals Magnetic Systems. <i>Annalen Der Physik</i> , 2020, 532, 1900452.	0.9	76
739	Electronic correlations in nodal-line semimetals. <i>Nature Physics</i> , 2020, 16, 636-641.	6.5	86
740	Excitons and Electron-Hole Liquid State in 2D Γ -Phase Group IV Monochalcogenides. <i>Advanced Functional Materials</i> , 2020, 30, 2000533.	7.8	39
741	Superconductivity in an Al-twisted bilayer graphene-Al junction device. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SGGI07.	0.8	2
742	van der Waals metamaterials. <i>Physical Review B</i> , 2020, 101, .	1.1	18
743	Surface/Interface Engineering of Carbon-Based Materials for Constructing Multidimensional Functional Hybrids. <i>Solar Rrl</i> , 2020, 4, 1900577.	3.1	52
744	Thickness-Controlled Synthesis of CoX_2 (X = S, Se, and Te) Single Crystalline 2D Layers with Linear Magnetoresistance and High Conductivity. <i>Chemistry of Materials</i> , 2020, 32, 2321-2329.	3.2	35
745	Tunable correlated Chern insulator and ferromagnetism in a moiré superlattice. <i>Nature</i> , 2020, 579, 56-61.	18.7	425
746	Thermal conductivity of van der Waals hetero-bilayer of $\text{MoS}_2/\text{MoSe}_2$. <i>Applied Physics Express</i> , 2020, 13, 075001.	1.1	3
747	Interface Magnetism in Topological Armchair/Cove-Edged Graphene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15448-15453.	1.5	9
748	Twisted Quadrupole Topological Photonic Crystals. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000010.	4.4	42
749	Berry curvature memory through electrically driven stacking transitions. <i>Nature Physics</i> , 2020, 16, 1028-1034.	6.5	100
750	Flat-band superconductivity for tight-binding electrons on a square-octagon lattice. <i>Physical Review B</i> , 2020, 101, .	1.1	29

#	ARTICLE	IF	CITATIONS
751	Electronic structure and magnetic exchange interactions of Cr-based van der Waals ferromagnets. A comparative study between CrBr ₃ and Cr ₂ Ge ₂ Te ₆ . Journal of Materials Chemistry C, 2020, 8, 13582-13589.	2.7	13
752	Dielectric metasurfaces: From wavefront shaping to quantum platforms. Progress in Surface Science, 2020, 95, 100584.	3.8	23
753	Scale-free ferroelectricity induced by flat phonon bands in HfO ₂ . Science, 2020, 369, 1343-1347.	6.0	231
754	Fragile Phases as Affine Monoids: Classification and Material Examples. Physical Review X, 2020, 10, .	2.8	43
755	Ultra-flat twisted superlattices in 2D heterostructures. Npj Computational Materials, 2020, 6, .	3.5	2
756	Tunable spin-polarized correlated states in twisted double bilayer graphene. Nature, 2020, 583, 221-225.	13.7	385
757	Charge-carrier transmission across twins in graphene. Journal of Physics Condensed Matter, 2020, 32, 425003.	0.7	2
758	Gate-tunable topological flat bands in twisted monolayer-bilayer graphene. Physical Review B, 2020, 102, .	1.1	34
759	Superconductivity of KFe ₂ As ₂ Under Pressure: Ab Initio Study of Tetragonal and Collapsed Tetragonal Phases. Journal of Superconductivity and Novel Magnetism, 2020, 33, 2347-2354.	0.8	3
760	Phonon scattering induced carrier resistivity in twisted double-bilayer graphene. Physical Review B, 2020, 101, .	1.1	19
761	Soliton-Dependent Electronic Transport across Bilayer Graphene Domain Wall. Nano Letters, 2020, 20, 5936-5942.	4.5	6
762	Visualization of Crystallographic Orientation and Twist Angles in Two-Dimensional Crystals with an Optical Microscope. Nano Letters, 2020, 20, 6059-6066.	4.5	6
763	Nematic superconductivity in twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	83
764	Nonlocal exchange interactions in strongly correlated electron systems. Physical Review B, 2020, 101, .	1.1	0
765	Intermediate phase in interacting Dirac fermions with staggered potential. Physical Review B, 2020, 101, .	1.1	6
766	Growth of twisted bilayer graphene through two-stage chemical vapor deposition. Nanotechnology, 2020, 31, 435603.	1.3	12
767	Pressure and electric field dependence of quasicrystalline electronic states in $\alpha\text{-NbTe}_3$ twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	1
768	Monolayer NbF ₄ : a 4d ₁ -analogue of cuprates. Science Bulletin, 2020, 65, 1901-1906.	4.3	3

#	ARTICLE	IF	CITATIONS
769	Metal to Orthogonal Metal Transition*. Chinese Physics Letters, 2020, 37, 047103.	1.3	14
770	Tunable strain soliton networks confine electrons in van der Waals materials. Nature Physics, 2020, 16, 1097-1102.	6.5	47
771	Flat bands in twisted bilayer transition metal dichalcogenides. Nature Physics, 2020, 16, 1093-1096.	6.5	197
772	Untying the insulating and superconducting orders in magic-angle graphene. Nature, 2020, 583, 375-378.	13.7	323
773	Theory and simulation developments of confined mass transport through graphene-based separation membranes. Physical Chemistry Chemical Physics, 2020, 22, 6032-6057.	1.3	19
774	Flat bands and gaps in twisted double bilayer graphene. Nanoscale, 2020, 12, 5014-5020.	2.8	38
775	Manufacturing strategies for wafer-scale two-dimensional transition metal dichalcogenide heterolayers. Journal of Materials Research, 2020, 35, 1350-1368.	1.2	12
776	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. Materials Today Physics, 2020, 13, 100196.	2.9	42
777	Moiré Flat Bands in Twisted Double Bilayer Graphene. Nano Letters, 2020, 20, 2410-2415.	4.5	107
778	Rotational stability of twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	23
779	Formation of Bloch Flat Bands in Polar Twisted Bilayers without Magic Angles. Physical Review Letters, 2020, 124, 086401.	2.9	52
780	Soliton signature in the phonon spectrum of twisted bilayer graphene. 2D Materials, 2020, 7, 025050.	2.0	34
781	Nature of the Correlated Insulator States in Twisted Bilayer Graphene. Physical Review Letters, 2020, 124, 097601.	2.9	258
782	Transfer assembly for two-dimensional van der Waals heterostructures. 2D Materials, 2020, 7, 022005.	2.0	87
783	Phonon-mediated superconductivity in strongly correlated electron systems: A Luttinger-Ward functional approach. Annals of Physics, 2020, 417, 168100.	1.0	3
784	Continuous graphene fibers prepared by liquid crystal spinning as strain sensors for Monitoring Vital Signs. Materials Today Communications, 2020, 24, 100909.	0.9	16
785	Nano-photocurrent Mapping of Local Electronic Structure in Twisted Bilayer Graphene. Nano Letters, 2020, 20, 2958-2964.	4.5	34
786	Dynamical Scaling of Charge and Spin Responses at a Kondo Destruction Quantum Critical Point. Physical Review Letters, 2020, 124, 027205.	2.9	8

#	ARTICLE	IF	CITATIONS
787	K3Ir2O6 and K16.3Ir8O30, Low-Dimensional Iridates with Infinite IrO6 Chains. Journal of the American Chemical Society, 2020, 142, 5389-5395.	6.6	10
788	Disassembling 2D van der Waals crystals into macroscopic monolayers and reassembling into artificial lattices. Science, 2020, 367, 903-906.	6.0	262
789	Two paths to intrinsic quantization. Science, 2020, 367, 848-849.	6.0	1
790	Honeycomb Borophene Fragment Stabilized in Polyanionic Sandwich Lithium Salt: A New Type of Two-Dimensional Material with Superconductivity. Journal of Physical Chemistry C, 2020, 124, 5870-5879.	1.5	9
791	Superfluid weight and Berezinskii-Kosterlitz-Thouless transition temperature of twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	124
792	One-dimensional flat bands in twisted bilayer germanium selenide. Nature Communications, 2020, 11, 1124.	5.8	80
793	The local strain distribution in bilayer materials: a multiscale study. Nanoscale, 2020, 12, 6456-6461.	2.8	5
794	Circular quantum dots in twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	19
795	Fluidic Flow Assisted Deterministic Folding of Van der Waals Materials. Advanced Functional Materials, 2020, 30, 1908691.	7.8	5
796	Buckling of 2D nano hetero-structures with moire patterns. Computational Materials Science, 2020, 177, 109507.	1.4	10
797	Proximity-Induced Superconductivity in Monolayer MoS ₂ . ACS Nano, 2020, 14, 2718-2728.	7.3	40
798	Interlayer Decoupling in 30° Twisted Bilayer Graphene Quasicrystal. ACS Nano, 2020, 14, 1656-1664.	7.3	64
799	Metamorphoses of Electron Systems Hosting a Fermion Condensate. JETP Letters, 2020, 111, 96-103.	0.4	1
800	Magnetic structures in the locally inverted interlayer coupling region of a bilayer magnetic system. Journal of Magnetism and Magnetic Materials, 2020, 501, 166447.	1.0	1
801	van der Waals Integrated Devices Based on Nanomembranes of 3D Materials. Nano Letters, 2020, 20, 1410-1416.	4.5	19
802	Singularities and topologically protected states in twisted bilayer graphene. Applied Physics Letters, 2020, 116, 011602.	1.5	12
803	Thermodynamic properties of graphene bilayers. Physical Review B, 2020, 101, .	1.1	12
804	Enhanced hydrodynamic transport in near magic angle twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	10

#	ARTICLE	IF	CITATIONS
805	Elastic straining of free-standing monolayer graphene. Nature Communications, 2020, 11, 284.	5.8	194
806	Large-area, periodic, and tunable intrinsic pseudo-magnetic fields in low-angle twisted bilayer graphene. Nature Communications, 2020, 11, 371.	5.8	66
807	General principles to high-throughput constructing two-dimensional carbon allotropes*. Chinese Physics B, 2020, 29, 037306.	0.7	8
808	Theoretical design of SnTe/GeS lateral heterostructures: A first-principles study. Physica B: Condensed Matter, 2020, 583, 412047.	1.3	8
809	Evidence for flat zero-energy bands in bilayer graphene with a periodic defect lattice. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 113987.	1.3	4
810	Large-area epitaxial growth of curvature-stabilized ABC trilayer graphene. Nature Communications, 2020, 11, 546.	5.8	47
811	Strong Light-Matter Interactions Enabled by Polaritons in Atomically Thin Materials. Advanced Optical Materials, 2020, 8, 1901473.	3.6	56
812	Quantum Transport beyond DC. , 2020, , 278-292.		0
814	Topological charge pumping by a sliding moiré pattern. Physical Review B, 2020, 101, .	1.1	22
815	Topological sliding moiré heterostructure. Physical Review B, 2020, 101, .	1.1	20
816	Topological charge pumping in twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	25
817	Collective Excitations of Quantum Anomalous Hall Ferromagnets in Twisted Bilayer Graphene. Physical Review Letters, 2020, 124, 046403.	2.9	107
818	Scanning Probe Microscopy of Topological Structure Induced Electronic States of Graphene. Small Methods, 2020, 4, 1900683.	4.6	16
819	Proximity Effect in Crystalline Framework Materials: Stacking-Induced Functionality in MOFs and COFs. Advanced Functional Materials, 2020, 30, 1908004.	7.8	64
820	Ferromagnetism and superconductivity in twisted double bilayer graphene. Physical Review B, 2020, 101, .	1.1	37
821	Correlated states of a triangular net of coupled quantum wires: Implications for the phase diagram of marginally twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	12
822	Novel Graphene/In2O3 Nanocubes Preparation and Selective Electrochemical Detection for L-Lysine of Camellia nitidissima Chi. Materials, 2020, 13, 1999.	1.3	1
823	Twist-tailoring Coulomb correlations in van der Waals homobilayers. Nature Communications, 2020, 11, 2167.	5.8	63

#	ARTICLE	IF	CITATIONS
824	Hybrid-functional electronic structure of multilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	7
825	A cantilever torque magnetometry method for the measurement of Hall conductivity of highly resistive samples. <i>Review of Scientific Instruments</i> , 2020, 91, 045001.	0.6	7
826	Critical role of device geometry for the phase diagram of twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	22
827	Stacking of Exfoliated 2D Materials: A Review. <i>Chinese Journal of Chemistry</i> , 2020, 38, 981-995.	2.6	30
828	Towards scalable van der Waals heterostructure arrays. <i>Rare Metals</i> , 2020, 39, 327-329.	3.6	18
829	Giant orbital magnetoelectric effect and current-induced magnetization switching in twisted bilayer graphene. <i>Nature Communications</i> , 2020, 11, 1650.	5.8	74
830	Moiré engineering of electronic phenomena in correlated oxides. <i>Nature Physics</i> , 2020, 16, 631-635.	6.5	40
831	Bilayer, Hydrogenated and Fluorinated Graphene: QED versus SU(2) QCD Theory. <i>JETP Letters</i> , 2020, 111, 230-234.	0.4	2
832	Facile deterministic cutting of 2D materials for twistrionics using a tapered fibre scalpel. <i>Nanotechnology</i> , 2020, 31, 32LT02.	1.3	5
833	Atomic-Precision Repair of a Few-Layer 2H-MoTe ₂ Thin Film by Phase Transition and Recrystallization Induced by a Heterophase Interface. <i>Advanced Materials</i> , 2020, 32, e2000236.	11.1	16
834	Nanoscale probing of broken-symmetry states in graphene induced by individual atomic impurities. <i>Physical Review B</i> , 2020, 101, .	1.1	7
835	Tunable bandwidths and gaps in twisted double bilayer graphene on the verge of correlations. <i>Physical Review B</i> , 2020, 101, .	1.1	31
836	Harmonic fingerprint of unconventional superconductivity in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	19
837	First-principles calculations of monolayer hexagonal boron nitride: Possibility of superconductivity. <i>Physical Review B</i> , 2020, 101, .	1.1	12
838	Symmetry breaking and skyrmionic transport in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	55
839	Moiré patterns arising from bilayer graphone/graphene superlattice. <i>Nano Research</i> , 2020, 13, 1060-1064.	5.8	11
840	Evolution of high-frequency Raman modes and their doping dependence in twisted bilayer MoS ₂ . <i>Nanoscale</i> , 2020, 12, 17272-17280.	2.8	23
841	Conductivity scaling and the effects of symmetry-breaking terms in bilayer graphene Hamiltonian. <i>Physical Review B</i> , 2020, 101, .	1.1	2

#	ARTICLE	IF	CITATIONS
842	Monolayer-gap modulated topological phases in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	4
843	Mechanism for Anomalous Hall Ferromagnetism in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2020, 124, 166601.	2.9	231
844	Flat-band superconductivity in periodically strained graphene: mean-field and Berezinskiiâ€“Kosterlitzâ€“Thouless transition. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 365603.	0.7	7
845	Selective flattening of magnon bands in kagome-lattice ferromagnets with Dzyaloshinskii-Moriya interaction. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	3
846	30Â°-Twisted Bilayer Graphene Quasicrystals from Chemical Vapor Deposition. <i>Nano Letters</i> , 2020, 20, 3313-3319.	4.5	60
847	Magic-Angle Bilayer Graphene Nanocalorimeters: Toward Broadband, Energy-Resolving Single Photon Detection. <i>Nano Letters</i> , 2020, 20, 3459-3464.	4.5	28
848	Effectively modulating vertical tunneling transport by mechanically twisting bilayer graphene within the all-metallic architecture. <i>Nanoscale</i> , 2020, 12, 8793-8800.	2.8	5
849	Metal-insulator transition and dominant d+id pairing symmetry in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	18
850	Theoretical prediction of low-energy Stone-Wales graphene with an intrinsic type-III Dirac cone. <i>Physical Review B</i> , 2020, 101, .	1.1	53
851	Minibands in twisted bilayer graphene probed by magnetic focusing. <i>Science Advances</i> , 2020, 6, eaay7838.	4.7	21
852	2D Hexagonal Covalent Organic Radical Frameworks as Tunable Correlated Electron Systems. <i>Advanced Functional Materials</i> , 2021, 31, 2004584.	7.8	14
853	The electronâ€“phonon coupling constant for single-layer graphene on metal substrates determined from He atom scattering. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7575-7585.	1.3	19
854	Detection of electron-phonon coupling in two-dimensional materials by light scattering. <i>Nano Research</i> , 2021, 14, 1711-1733.	5.8	25
855	Visualization of the flat electronic band in twisted bilayer graphene near the magic angle twist. <i>Nature Physics</i> , 2021, 17, 184-188.	6.5	93
856	Observation of flat bands in twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 189-193.	6.5	144
857	Six-membered-ring inorganic materials: definition and prospects. <i>National Science Review</i> , 2021, 8, nwaa248.	4.6	14
858	Phonon dispersions and electronic structures of two-dimensional IV-V compounds. <i>Carbon</i> , 2021, 172, 345-352.	5.4	9
859	Electronic circular dichroism and Raman optical activity: Principle and applications. <i>Applied Spectroscopy Reviews</i> , 2021, 56, 553-587.	3.4	18

#	ARTICLE	IF	CITATIONS
860	Electrically tunable correlated and topological states in twisted monolayer-bilayer graphene. <i>Nature Physics</i> , 2021, 17, 374-380.	6.5	173
861	Stacking of 2D Materials. <i>Advanced Functional Materials</i> , 2021, 31, 2007810.	7.8	123
862	Realization of an Antiferromagnetic Superatomic Graphene: Dirac Mott Insulator and Circular Dichroism Hall Effect. <i>Nano Letters</i> , 2021, 21, 230-235.	4.5	16
863	Van der Waals Nanowires with Continuously Variable Interlayer Twist and Twist Homojunctions. <i>Advanced Functional Materials</i> , 2021, 31, 2006412.	7.8	22
864	Structure, Preparation, and Applications of 2D Material-Based Metal-Semiconductor Heterostructures. <i>Small Structures</i> , 2021, 2, 2000093.	6.9	71
865	Synthesis of Large-Area Single-Crystal Graphene. <i>Trends in Chemistry</i> , 2021, 3, 15-33.	4.4	27
866	The coupling effect characterization for van der Waals structures based on transition metal dichalcogenides. <i>Nano Research</i> , 2021, 14, 1734-1751.	5.8	11
867	Two-dimensional magnetic materials: structures, properties and external controls. <i>Nanoscale</i> , 2021, 13, 1398-1424.	2.8	74
868	Angle, Spin, and Depth Resolved Photoelectron Spectroscopy on Quantum Materials. <i>Chemical Reviews</i> , 2021, 121, 2816-2856.	23.0	16
869	Engineering a Robust Flat Band in III-V Semiconductor Heterostructures. <i>Nano Letters</i> , 2021, 21, 680-685.	4.5	19
870	Two-Dimensional Materials for Integrated Photonics: Recent Advances and Future Challenges. <i>Small Science</i> , 2021, 1, 2000053.	5.8	56
871	Tuning layer-hybridized moiré excitons by the quantum-confined Stark effect. <i>Nature Nanotechnology</i> , 2021, 16, 52-57.	15.6	60
872	Topological flat bands in twisted trilayer graphene. <i>Science Bulletin</i> , 2021, 66, 18-22.	4.3	42
873	Heterogeneities at multiple length scales in 2D layered materials: From localized defects and dopants to mesoscopic heterostructures. <i>Nano Research</i> , 2021, 14, 1625-1649.	5.8	8
874	Symmetry breaking in twisted double bilayer graphene. <i>Nature Physics</i> , 2021, 17, 26-30.	6.5	141
875	Moiré-Potential-Induced Band Structure Engineering in Graphene and Silicene. <i>Small</i> , 2021, 17, e1903769.	5.2	9
878	From magic angle twisted bilayer graphene to moiré superlattice quantum simulator. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 118101.	0.2	3
879	Tailoring Coulomb correlations in twisted WSe2 bilayers. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
880	Exotic physical properties of 2D materials modulated by moiré superlattices. <i>Materials Advances</i> , 2021, 2, 5542-5559.	2.6	13
881	Electronic transport in graphene. , 2021, , 27-49.		2
882	A vacuum ultraviolet laser with a submicrometer spot for spatially resolved photoemission spectroscopy. <i>Light: Science and Applications</i> , 2021, 10, 22.	7.7	22
883	Large power dissipation of hot Dirac fermions in twisted bilayer graphene. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 115704.	0.7	4
884	Study on physical properties and magnetism controlling of two-dimensional magnetic materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 127801.	0.2	3
885	Construction of a double-walled carbon nanoring. <i>Nanoscale</i> , 2021, 13, 4880-4886.	2.8	11
886	Multi-shaped strain soliton networks and moiré-potential-modulated band edge states in twisted bilayer SiC. <i>RSC Advances</i> , 2021, 11, 24366-24373.	1.7	2
887	Topological and nematic superconductivity mediated by ferro-SU(4) fluctuations in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	34
888	Fermi-level depinning of 2D transition metal dichalcogenide transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11407-11427.	2.7	49
889	Gate-Tunable Fractional Chern Insulators in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 126, 026801.	2.9	29
890	Theories for the correlated insulating states and quantum anomalous Hall effect phenomena in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	114
891	Correlation-Induced Insulating Topological Phases at Charge Neutrality in Twisted Bilayer Graphene. <i>Physical Review X</i> , 2021, 11, .	2.8	64
892	Recent progress of transfer methods of two-dimensional atomic crystals and high-quality electronic devices. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 138202.	0.2	0
893	Methods of transferring two-dimensional materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 028201.	0.2	4
894	Enhanced second-order Stark effect in twisted bilayer graphene quantum dots. <i>Nano Research</i> , 2021, 14, 3935.	5.8	4
895	Entering a Two-Dimensional Materials World. <i>Springer Series in Solid-state Sciences</i> , 2021, , 17-59.	0.3	0
896	Moiré superlattices and related moiré excitons in twisted van der Waals heterostructures. <i>Chemical Society Reviews</i> , 2021, 50, 6401-6422.	18.7	38
897	Study of the Growth Mechanism of Solution-Synthesized Symmetric Tellurium Nanoflakes at Atomic Resolution. <i>Small</i> , 2021, 17, e2005801.	5.2	11

#	ARTICLE	IF	CITATIONS
898	Tunable conductance and spin filtering in twisted bilayer copper phthalocyanine molecular devices. <i>Nanoscale Advances</i> , 2021, 3, 3497-3501.	2.2	5
899	Correlated insulating phases in the twisted bilayer graphene*. <i>Chinese Physics B</i> , 2021, 30, 017305.	0.7	29
900	Two-Dimensional Carbon Allotropes and Nanoribbons based on 2,6-Polyazulene Chains: Stacking Stabilities and Electronic Properties. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 732-738.	2.1	41
901	Stronger Interlayer Interactions Contribute to Faster Hot Carrier Cooling of Bilayer Graphene under Pressure. <i>Physical Review Letters</i> , 2021, 126, 027402.	2.9	19
902	Excitonic density wave and spin-valley superfluid in bilayer transition metal dichalcogenide. <i>Nature Communications</i> , 2021, 12, 642.	5.8	27
903	Moiré versus Mott: Incommensuration and Interaction in One-Dimensional Bichromatic Lattices. <i>Physical Review Letters</i> , 2021, 126, 036803.	2.9	5
904	Controllable preparation and photoelectric applications of two-dimensional in-plane and van der Waals heterostructures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 027901-027901.	0.2	5
905	Evolution of interlayer stacking orders and rotations in bilayer PtSe ₂ visualized by STEM. <i>2D Materials</i> , 2021, 8, 025014.	2.0	4
906	Sequential growth and twisted stacking of chemical-vapor-deposited graphene. <i>Nanoscale Advances</i> , 2021, 3, 983-990.	2.2	5
907	Berry curvature-induced emerging magnetic response in two-dimensional materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 127303.	0.2	2
908	Electronic Structure for Multielectronic Molecules near a Metal Surface. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2884-2899.	1.5	3
909	Moiré Superlattice-Induced Superconductivity in One-Unit-Cell FeTe. <i>Nano Letters</i> , 2021, 21, 1327-1334.	4.5	6
910	Floquet engineering of topological transitions in a twisted transition metal dichalcogenide homobilayer. <i>Physical Review B</i> , 2021, 103, .	1.1	17
911	Evidence for a higher-order topological insulator in a three-dimensional material built from van der Waals stacking of bismuth-halide chains. <i>Nature Materials</i> , 2021, 20, 473-479.	13.3	98
912	The frontiers of functionalized graphene-based nanocomposites as chemical sensors. <i>Nanotechnology Reviews</i> , 2021, 10, 330-369.	2.6	31
913	The 2021 quantum materials roadmap. <i>JPhys Materials</i> , 2020, 3, 042006.	1.8	111
914	Design, Fabrication, and Mechanism of Nitrogen-Doped Graphene-Based Photocatalyst. <i>Advanced Materials</i> , 2021, 33, e2003521.	11.1	324
915	Optical conductivity of twisted bilayer graphene near the magic angle*. <i>Chinese Physics B</i> , 2021, 30, 017303.	0.7	11

#	ARTICLE	IF	CITATIONS
916	Layer-dependent interface reconstruction and strain modulation in twisted WSe ₂ . <i>Nanoscale</i> , 2021, 13, 13624-13630.	2.8	8
917	Emerging field of few-layered intercalated 2D materials. <i>Nanoscale Advances</i> , 2021, 3, 963-982.	2.2	15
918	Strain-Induced Interlayer Parallel-to-Antiparallel Magnetic Transitions of Twisted Bilayers. <i>Advanced Theory and Simulations</i> , 2021, 4, 2000215.	1.3	2
919	Advances in the Applications of Graphene-Based Nanocomposites in Clean Energy Materials. <i>Crystals</i> , 2021, 11, 47.	1.0	18
920	Spin-polarized superconductivity: Order parameter topology, current dissipation, and multiple-period Josephson effect. <i>Physical Review Research</i> , 2021, 3, .	1.3	11
921	Singular flat bands. <i>Advances in Physics: X</i> , 2021, 6, .	1.5	33
922	Optical conductivity of twisted bilayer graphene under heterostrain. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 187301.	0.2	2
923	Dynamic electron correlations with charge order wavelength along all directions in the copper oxide plane. <i>Nature Communications</i> , 2021, 12, 597.	5.8	21
924	Hofstadter subband ferromagnetism and symmetry-broken Chern insulators in twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 478-481.	6.5	138
925	Structuring Possibilities. <i>Springer Series in Solid-state Sciences</i> , 2021, , 209-228.	0.3	0
926	Scanning tunneling microscopy (STM) of graphene. , 2021, , 345-379.		1
927	Ginzberg-Landau-Wilson theory for flat band, Fermi-arc and surface states of strongly correlated systems. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	6
928	Current-Driven Magnetization Reversal in Orbital Chern Insulators. <i>Physical Review Letters</i> , 2021, 126, 056801.	2.9	15
929	Ultrahigh Ballistic Resistance of Twisted Bilayer Graphene. <i>Crystals</i> , 2021, 11, 206.	1.0	9
930	Engineering symmetry breaking in 2D layered materials. <i>Nature Reviews Physics</i> , 2021, 3, 193-206.	11.9	135
931	Tunable strongly coupled superconductivity in magic-angle twisted trilayer graphene. <i>Nature</i> , 2021, 590, 249-255.	13.7	449
932	Chern insulators, van Hove singularities and topological flat bands in magic-angle twisted bilayer graphene. <i>Nature Materials</i> , 2021, 20, 488-494.	13.3	192
933	Spin-Orbit-Induced Ising Ferromagnetism at a van der Waals Interface. <i>Nano Letters</i> , 2021, 21, 1807-1814.	4.5	14

#	ARTICLE	IF	CITATIONS
934	Anisotropic band flattening in graphene with one-dimensional superlattices. <i>Nature Nanotechnology</i> , 2021, 16, 525-530.	15.6	44
935	Two-Dimensional Hexagonal Boron Nitride for Building Next-Generation Energy-Efficient Devices. <i>ACS Energy Letters</i> , 2021, 6, 985-996.	8.8	37
937	Twisted Bilayer Graphene: A Versatile Fabrication Method and the Detection of Variable Nanometric Strain Caused by Twist-Angle Disorder. <i>ACS Applied Nano Materials</i> , 2021, 4, 1858-1866.	2.4	19
938	Tip-Based Cleaning and Smoothing Improves Performance in Monolayer MoS ₂ Devices. <i>ACS Omega</i> , 2021, 6, 4013-4021.	1.6	13
939	Direct imaging and electronic structure modulation of moiré superlattices at the 2D/3D interface. <i>Nature Communications</i> , 2021, 12, 1290.	5.8	48
940	Higher-Order Band Topology in Twisted Moiré Superlattice. <i>Physical Review Letters</i> , 2021, 126, 066401.	2.9	56
941	High-temperature topological superconductivity in twisted double-layer copper oxides. <i>Nature Physics</i> , 2021, 17, 519-524.	6.5	90
942	Spontaneous Valley Spirals in Magnetically Encapsulated Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 126, 056803.	2.9	13
943	Large-area integration of two-dimensional materials and their heterostructures by wafer bonding. <i>Nature Communications</i> , 2021, 12, 917.	5.8	99
944	Misalignment instability in magic-angle twisted bilayer graphene on hexagonal boron nitride. <i>2D Materials</i> , 2021, 8, 025025.	2.0	11
945	Merged Four Dirac Points at the Critical Interlayer Distance in Commensurately Twisted Bilayer Graphene: The Origin of the Zero Velocity. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 024703.	0.7	1
946	Tunable and sizeable band gaps in strained SiC ₃ /hBN vdW heterostructures: A potential replacement for graphene in future nanoelectronics. <i>Computational Materials Science</i> , 2021, 188, 110233.	1.4	8
947	Landau Levels as a Probe for Band Topology in Graphene Moiré Superlattices. <i>Physical Review Letters</i> , 2021, 126, 056401.	2.9	18
948	Correlated insulating states at fractional fillings of the WS ₂ /WSe ₂ moiré lattice. <i>Nature Physics</i> , 2021, 17, 715-719.	6.5	157
949	Imaging moiré flat bands in three-dimensional reconstructed WSe ₂ /WS ₂ superlattices. <i>Nature Materials</i> , 2021, 20, 945-950.	13.3	118
950	Tunable Optical Properties of Thin Films Controlled by the Interface Twist Angle. <i>Nano Letters</i> , 2021, 21, 2832-2839.	4.5	26
951	Chirality-Induced Giant Unidirectional Magnetoresistance in Twisted Bilayer Graphene. <i>Innovation(China)</i> , 2021, 2, 100085.	5.2	21
952	Hall effects in artificially corrugated bilayer graphene without breaking time-reversal symmetry. <i>Nature Electronics</i> , 2021, 4, 116-125.	13.1	49

#	ARTICLE	IF	CITATIONS
953	Tunable van Hove singularities and correlated states in twisted monolayer-bilayer graphene. <i>Nature Physics</i> , 2021, 17, 619-626.	6.5	103
954	Dual-Gated Graphene Devices for Near-Field Nano-imaging. <i>Nano Letters</i> , 2021, 21, 1688-1693.	4.5	13
955	Electron-hole asymmetry and band gaps of commensurate double moire patterns in twisted bilayer graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2021, 103, .	1.1	13
956	Moiré heterostructures as a condensed-matter quantum simulator. <i>Nature Physics</i> , 2021, 17, 155-163.	6.5	317
958	Carrier distribution control in bilayer graphene under a perpendicular electric field by interlayer stacking arrangements. <i>Applied Physics Express</i> , 2021, 14, 035001.	1.1	4
959	Measuring local moiré lattice heterogeneity of twisted bilayer graphene. <i>Physical Review Research</i> , 2021, 3, .	1.3	16
960	Van der Waals Heterostructures by Design: From 1D and 2D to 3D. <i>Matter</i> , 2021, 4, 552-581.	5.0	83
961	Piezoelectric networks and ferroelectric domains in twistrionic superlattices in WS_2/MoS_2 and $WSe_2/MoSe_2$ bilayers. <i>2D Materials</i> , 2021, 8, 025030.	2.0	36
962	Polymorphism in Post-Dichalcogenide Two-Dimensional Materials. <i>Chemical Reviews</i> , 2021, 121, 2713-2775.	23.0	64
963	Moiré commensurability and the quantum anomalous Hall effect in twisted bilayer graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2021, 103, .	1.1	44
964	Local optical conductivity of bilayer graphene with kink potential. <i>Physical Review B</i> , 2021, 103, .	1.1	1
965	Recent Advances in Two-Dimensional Heterostructures: From Band Alignment Engineering to Advanced Optoelectronic Applications. <i>Advanced Electronic Materials</i> , 2021, 7, 2001174.	2.6	34
966	Stacking-Engineered Heterostructures in Transition Metal Dichalcogenides. <i>Advanced Materials</i> , 2021, 33, e2005735.	11.1	47
967	The Impact of Interlayer Rotation on Thermal Transport Across Graphene/Hexagonal Boron Nitride van der Waals Heterostructure. <i>Nano Letters</i> , 2021, 21, 2634-2641.	4.5	104
968	Two-Dimensional $F-Ti_3C_2T_x$ @Ag Composite for an Extraordinary Long Cycle Lifetime with High Specific Capacity in an Aluminum Battery. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11822-11832.	4.0	32
969	Electronic and Magnetic Diversity of Graphene/Graphene Superlattices. <i>Chemistry of Materials</i> , 2021, 33, 2090-2098.	3.2	5
970	Imaging Graphene Moiré Superlattices via Scanning Kelvin Probe Microscopy. <i>Nano Letters</i> , 2021, 21, 3280-3286.	4.5	17
971	Symmetry-Induced Error Filtering in a Photonic Lieb Lattice. <i>Physical Review Letters</i> , 2021, 126, 110501.	2.9	12

#	ARTICLE	IF	CITATIONS
972	Manufacturing process design of high-pressure graphite-blasting for mechanical production of turbostratic graphene. SN Applied Sciences, 2021, 3, 1.	1.5	1
973	Atomic configuration controlled photocurrent in van der Waals homostructures. 2D Materials, 2021, 8, 035008.	2.0	7
974	Advances in Rare-Earth Trivalent Quantum Materials: Structure, Properties, and Synthesis. Advanced Science, 2021, 8, e2004762.	5.6	16
975	Nodeless kagome superconductivity in LaRu_2P_3 . Physical Review Materials, 2021, 5, .	1.93	7
976	Collective excitations and flat-band plasmon in twisted bilayer graphene near the magic angle. Physical Review B, 2021, 103, .	1.1	23
977	In Operando Angle-Resolved Photoemission Spectroscopy with Nanoscale Spatial Resolution: Spatial Mapping of the Electronic Structure of Twisted Bilayer Graphene. Small Science, 2021, 1, 2000075.	5.8	8
978	Unconventional superconductivity near a flat band in organic and organometallic materials. Physical Review B, 2021, 103, .	1.1	6
979	Exotic Dielectric Behaviors Induced by Pseudo-Spin Texture in Magnetic Twisted Bilayer. Chinese Physics Letters, 2021, 38, 037501.	1.3	10
980	Photodetectors of 2D Materials from Ultraviolet to Terahertz Waves. Advanced Materials, 2021, 33, e2008126.	11.1	282
981	Raman spectroscopic study of artificially twisted and non-twisted trilayer graphene. Applied Physics Letters, 2021, 118, .	1.5	3
982	Moiré-induced electronic structure modifications in monolayer V_2S_3 on $\text{Au}(111)$. Physical Review B, 2021, 103, .	1.1	3
983	Fermi Velocity Reduction of Dirac Fermions around the Brillouin Zone Center in In_2Se_3 Bilayer Graphene Heterostructures. Advanced Materials, 2021, 33, 2007503.	11.1	7
984	First-principles study on electronic properties of twisted bilayer borophene. IOP Conference Series: Earth and Environmental Science, 2021, 702, 012026.	0.2	2
985	The properties and prospects of chemically exfoliated nanosheets for quantum materials in two dimensions. Applied Physics Reviews, 2021, 8, .	5.5	17
986	Twist-angle engineering of excitonic quantum interference and optical nonlinearities in stacked 2D semiconductors. Nature Communications, 2021, 12, 1553.	5.8	28
987	Recent Advances in 2D Superconductors. Advanced Materials, 2021, 33, e2006124.	11.1	68
988	Reconfigurable electronics by disassembling and reassembling van der Waals heterostructures. Nature Communications, 2021, 12, 1825.	5.8	29
989	Structural Defects, Mechanical Behaviors, and Properties of Two-Dimensional Materials. Materials, 2021, 14, 1192.	1.3	48

#	ARTICLE	IF	CITATIONS
990	Quasiperiodicity, band topology, and moiré graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	22
991	Stripe phases in WSe ₂ /WS ₂ moiré superlattices. <i>Nature Materials</i> , 2021, 20, 940-944.	13.3	137
992	Moiré excitons in MoSe ₂ -WSe ₂ heterobilayers and heterotrilayers. <i>Nature Communications</i> , 2021, 12, 1656.	5.8	46
993	Quantum spin Hall effect in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ta} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle M \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ta} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle M \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle =$	1.1	22
994	Unveiling Atomic-Scale Moiré Features and Atomic Reconstructions in High-Angle Commensurately Twisted Transition Metal Dichalcogenide Homobilayers. <i>Nano Letters</i> , 2021, 21, 3262-3270.	4.5	15
996	Hyperbolic enhancement of photocurrent patterns in minimally twisted bilayer graphene. <i>Nature Communications</i> , 2021, 12, 1641.	5.8	34
997	Observation of Flat Bands in Gated Semiconductor Artificial Graphene. <i>Physical Review Letters</i> , 2021, 126, 106402.	2.9	7
998	Spin-Twisted Optical Lattices: Tunable Flat Bands and Larkin-Ovchinnikov Superfluids. <i>Physical Review Letters</i> , 2021, 126, 103201.	2.9	29
999	Low-frequency and Moiré Floquet engineering: A review. <i>Annals of Physics</i> , 2021, 435, 168434.	1.0	42
1000	Interplay of fractional Chern insulator and charge density wave phases in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	41
1001	Phase diagram and orbital Chern insulator in twisted double bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	11
1002	̂ valley transition metal dichalcogenide moiré bands. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	84
1003	Hybrid Wannier Chern bands in magic angle twisted bilayer graphene and the quantized anomalous Hall effect. <i>Physical Review Research</i> , 2021, 3, .	1.3	46
1004	Generalized Wigner crystallization in moiré materials. <i>Physical Review B</i> , 2021, 103, .	1.1	46
1005	Moiré Patterns in 2D Materials: A Review. <i>ACS Nano</i> , 2021, 15, 5944-5958.	7.3	107
1006	Reconstruction of moiré lattices in twisted transition metal dichalcogenide bilayers. <i>Physical Review B</i> , 2021, 103, .	1.1	22
1007	Twistronics: a turning point in 2D quantum materials. <i>Electronic Structure</i> , 2021, 3, 014004.	1.0	40
1008	Electric field-tunable superconductivity in alternating-twist magic-angle trilayer graphene. <i>Science</i> , 2021, 371, 1133-1138.	6.0	261

#	ARTICLE	IF	CITATIONS
1009	Superconductivity in type-II Weyl-semimetal WTe ₂ induced by a normal metal contact. Journal of Applied Physics, 2021, 129, .	1.1	23
1010	Magnetism and Charge Order in the Honeycomb Lattice. Physical Review Letters, 2021, 126, 107205.	2.9	17
1011	Selection rules of twistrionic angles in two-dimensional material flakes via dislocation theory. Physical Review B, 2021, 103, .	1.1	3
1012	Photothermal twistrionics. Nature Nanotechnology, 2021, 16, 489-490.	15.6	0
1013	Correlated insulators in twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	6
1014	Recovery of massless Dirac fermions at charge neutrality in strongly interacting twisted bilayer graphene with disorder. Physical Review B, 2021, 103, .	1.1	19
1015	Spin-Seebeck effect and thermal colossal magnetoresistance in the narrowest zigzag graphene nanoribbons. Nanotechnology, 2021, 32, 245703.	1.3	7
1016	Enhanced electron-phonon coupling in doubly aligned hexagonal boron nitride bilayer graphene heterostructure. Physical Review B, 2021, 103, .	1.1	15
1017	Symmetry-broken Chern insulators and Rashba-like Landau-level crossings in magic-angle bilayer graphene. Nature Physics, 2021, 17, 710-714.	6.5	114
1018	Tuning electron correlation in magic-angle twisted bilayer graphene using Coulomb screening. Science, 2021, 371, 1261-1265.	6.0	151
1019	Flavour Hund's coupling, Chern gaps and charge diffusivity in moiré graphene. Nature, 2021, 592, 43-48.	13.7	127
1020	Current switching of valley polarization in twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	16
1021	Phonon renormalization in reconstructed MoS ₂ moiré superlattices. Nature Materials, 2021, 20, 1100-1105.	13.3	121
1022	Scallion-Inspired Graphene Scaffold Enabled High Rate Lithium Metal Battery. Nano Letters, 2021, 21, 2347-2355.	4.5	20
1023	Symmetry Breaking and Nonlinear Electric Transport in van der Waals Nanostructures. Annual Review of Condensed Matter Physics, 2021, 12, 201-223.	5.2	30
1024	Recent Advances in Synthesis and Study of 2D Twisted Transition Metal Dichalcogenide Bilayers. Small Structures, 2021, 2, 2000153.	6.9	29
1025	Theory for Twisted Bilayer Photonic Crystal Slabs. Physical Review Letters, 2021, 126, 136101.	2.9	72
1026	Fermi arcs and pseudogap in a lattice model of a doped orthogonal metal. Physical Review B, 2021, 103, .	1.1	10

#	ARTICLE	IF	CITATIONS
1027	Accurate Measurement of the Gap of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow}\langle \text{mml:mrow}\langle \text{mml:mi}\rangle \text{Graphene}\langle \text{mml:mi}\rangle \langle \text{mml:mo}\rangle \langle \text{mml:mi}\rangle \text{h}\langle \text{mml:mo}\rangle \langle \text{mml:mrow}\rangle \langle \text{mml:mi}\rangle \text{Moir}\text{\AA}\text{\textcircled{C}} \text{ Superlattice through Photocurrent Spectroscopy. Physical Review Letters, 2021, 126, 146402.$	1.1	19
1028	Effects of domain walls in bilayer graphene in an external magnetic field. Physical Review B, 2021, 103, .	1.1	2
1029	Effect of the External Velocity on the Exfoliation Properties of Graphene from Amorphous SiO ₂ Surface. Crystals, 2021, 11, 454.	1.0	4
1030	Spectral characterization of magic angles in twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	19
1031	Tuning the flat bands of the kagome metal CoSn with Fe, In, or Ni doping. Physical Review Materials, 2021, 5, .	0.9	17
1032	Moir $\text{\AA}\text{\textcircled{C}}$ superlattice on the surface of a topological insulator. Physical Review B, 2021, 103, .	1.1	28
1033	Phase transitions in 2D materials. Nature Reviews Materials, 2021, 6, 829-846.	23.3	205
1034	Interlayer exciton formation, relaxation, and transport in TMD van der Waals heterostructures. Light: Science and Applications, 2021, 10, 72.	7.7	184
1035	Electronic structures, charge transfer, and charge order in twisted transition metal dichalcogenide bilayers. Physical Review B, 2021, 103, .	1.1	56
1036	Lattice relaxation, mirror symmetry and magnetic field effects on ultraflat bands in twisted trilayer graphene. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	23
1037	Realistic flat-band model based on degenerate p-orbitals in two-dimensional ionic materials. Science Bulletin, 2021, 66, 765-770.	4.3	7
1038	Superflat energy band induced by moir $\text{\AA}\text{\textcircled{C}}$ electric potential in twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	2
1039	Simulating twistrionics in acoustic metamaterials. 2D Materials, 2021, 8, 031002.	2.0	23
1040	Entropic evidence for a Pomeranchuk effect in magic-angle graphene. Nature, 2021, 592, 214-219.	13.7	118
1041	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"}\langle \text{mml:mrow}\langle \text{mml:msub}\langle \text{mml:mi}\rangle \text{CoN}\langle \text{mml:mi}\rangle \langle \text{mml:mrow}\langle \text{mml:mn}\rangle 4\langle \text{mml:mn}\rangle \langle \text{mml:msub}\langle \text{mml:mi}\rangle \text{C}\langle \text{mml:mi}\rangle \langle \text{mml:mrow}\langle \text{mml:mn}\rangle 2\langle \text{mml:mn}\rangle \langle \text{mml:msub}\langle \text{mml:mi}\rangle \text{Two-dimensional cobalt carbonitride with a flat-band feature. Physical Review B, 2021, 103, .$	1.1	13
1042	Synthesis of Wafer \AA Scale Graphene with Chemical Vapor Deposition for Electronic Device Applications. Advanced Materials Technologies, 2021, 6, 2000744.	3.0	46
1043	Hidden wave function of twisted bilayer graphene: The flat band as a Landau level. Physical Review B, 2021, 103, .	1.1	20
1044	Resonance modes in moir $\text{\AA}\text{\textcircled{C}}$ photonic patterns for twistoptics. OSA Continuum, 2021, 4, 1339.	1.8	9

#	ARTICLE	IF	CITATIONS
1045	Limits on superconductivity in flatland. <i>Science</i> , 2021, 372, 132-132.	6.0	0
1046	Topological phases in N -layer ABC graphene/boron nitride moiré superlattices. <i>Physical Review B</i> , 2021, 103, .	1.1	5
1047	Using irradiation-induced defects as pinning sites to minimize self-alignment in twisted bilayer graphene. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	4
1048	Tunable lateral spin polarization and spin-dependent collimation in velocity-modulated ferromagnetic-gate graphene structures. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 2573-2581.	0.8	0
1049	CHARACTERIZATION OF ELECTRONIC STRUCTURES AT ORGANIC 2D MATERIALS INTERFACES WITH ADVANCED SYNCHROTRON-BASED SOFT X-RAY SPECTROSCOPY. <i>Surface Review and Letters</i> , 2021, 28, 2140009.	0.5	1
1050	Charge-Order on the Triangular Lattice: A Mean-Field Study for the Lattice $S = 1/2$ Fermionic Gas. <i>Nanomaterials</i> , 2021, 11, 1181.	1.9	3
1051	Metastable $1T'$ -phase group VIB transition metal dichalcogenide crystals. <i>Nature Materials</i> , 2021, 20, 1113-1120.	13.3	119
1052	Skyrmions in twisted van der Waals magnets. <i>Physical Review B</i> , 2021, 103, .	1.1	41
1053	Gapless state of interacting Majorana fermions in a strain-induced Landau level. <i>Physical Review B</i> , 2021, 103, .	1.1	3
1054	Heating freezes electrons in twisted bilayer graphene. <i>Nature</i> , 2021, 592, 191-193.	13.7	2
1056	High-Entropy van der Waals Materials Formed from Mixed Metal Dichalcogenides, Halides, and Phosphorus Trisulfides. <i>Journal of the American Chemical Society</i> , 2021, 143, 7042-7049.	6.6	55
1057	Strain in twisted bilayer graphene grown by chemical vapour deposition on Ni surfaces. <i>Applied Surface Science</i> , 2021, 544, 148884.	3.1	8
1058	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. <i>Nano Today</i> , 2021, 37, 101059.	6.2	82
1059	Enhancement of high-order harmonic generation in two-dimensional materials by plasmonic fields. <i>Physical Review A</i> , 2021, 103, .	1.0	3
1060	Orbital magnetic states in moiré graphene systems. <i>Nature Reviews Physics</i> , 2021, 3, 367-382.	11.9	51
1061	Scanning tunneling microscopy identification of van Hove singularities and negative thermal expansion in highly oriented pyrolytic graphite with hexagonal moiré superlattices. <i>Carbon Trends</i> , 2021, 3, 100034.	1.4	5
1062	Universal superlattice potential for 2D materials from twisted interface inside h-BN substrate. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	23
1063	MultiShifter: Software to generate structural models of extended two-dimensional defects in 3D and 2D crystals. <i>Computational Materials Science</i> , 2021, 191, 110310.	1.4	7

#	ARTICLE	IF	CITATIONS
1064	Interacting spin- $\frac{1}{2}$ fermions in a Luttinger semimetal: Competing phases and their selection in the global phase diagram. Physical Review B, 2021, 103, .	1.1	10
1065	Hetero-site nucleation for growing twisted bilayer graphene with a wide range of twist angles. Nature Communications, 2021, 12, 2391.	5.8	92
1066	Layer-Dependent Electronic and Optical Properties of 2D Black Phosphorus: Fundamentals and Engineering. Laser and Photonics Reviews, 2021, 15, 2000399.	4.4	25
1068	The More, the Better—Recent Advances in Construction of 2D Multi-Heterostructures. Advanced Functional Materials, 2021, 31, 2102049.	7.8	27
1069	Nematicity and competing orders in superconducting magic-angle graphene. Science, 2021, 372, 264-271.	6.0	223
1070	Isospin Pomeranchuk effect in twisted bilayer graphene. Nature, 2021, 592, 220-224.	13.7	125
1071	Twistronics for photons: opinion. Optical Materials Express, 2021, 11, 1377.	1.6	30
1072	Harnessing the photonic local density of states in graphene moiré superlattices. Physical Review B, 2021, 103, .	1.1	1
1073	Trigonal warping, satellite Dirac points, and multiple field tuned topological transitions in twisted double bilayer graphene. Physical Review B, 2021, 103, .	1.1	5
1074	Cascade of replica bands in flat-band systems: Predictions for twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	3
1075	Exceptional Performance Driven by Planar Honeycomb Structure in a New High Temperature Thermoelectric Material BaAgAs. Advanced Functional Materials, 2021, 31, 2100583.	7.8	25
1076	Moiré edge states in twisted bilayer graphene and their topological relation to quantum pumping. Physical Review B, 2021, 103, .	1.1	15
1077	Strain effect on electronic structure and transport properties of zigzag \hat{L} -T 3 nanoribbons: a mean-field theoretical study. Journal of Physics Condensed Matter, 2021, 33, 215301.	0.7	5
1078	Turn of the decade: versatility of 2D hexagonal boron nitride. JPhys Materials, 2021, 4, 032003.	1.8	17
1079	Strain-induced dispersive Landau levels: Application in twisted honeycomb magnets. Physical Review B, 2021, 103, .	1.1	8
1080	Silica optical fiber integrated with two-dimensional materials: towards opto-electro-mechanical technology. Light: Science and Applications, 2021, 10, 78.	7.7	62
1081	Emergence of Chern Insulating States in Non-Magic Angle Twisted Bilayer Graphene. Chinese Physics Letters, 2021, 38, 047301.	1.3	20
1082	Layer-by-layer assembly of multilayer optical lattices: A theoretical proposal. European Physical Journal D, 2021, 75, 1.	0.6	3

#	ARTICLE	IF	CITATIONS
1083	Crystal Field Effect and Electric Field Screening in Multilayer Graphene with and without Twist. Nano Letters, 2021, 21, 4636-4642.	4.5	5
1084	Terahertz superlattice modes in moiré metasurface composed of twisted square and hexagonal lattices. Applied Physics Express, 2021, 14, 062003.	1.1	2
1085	Imaging Dual-Moiré Lattices in Twisted Bilayer Graphene Aligned on Hexagonal Boron Nitride Using Microwave Impedance Microscopy. Nano Letters, 2021, 21, 4292-4298.	4.5	15
1086	Recent progress on antimonene: from theoretical calculation to epitaxial growth. Japanese Journal of Applied Physics, 2021, 60, SE0805.	0.8	13
1088	Straintronics of 2D inorganic materials for electronic and optical applications. Physics-Usppekhi, 2022, 65, 567-596.	0.8	6
1089	Dissolution-precipitation growth of doped monolayer molybdenum disulfide through double-faced precursor supply. APL Materials, 2021, 9, .	2.2	6
1090	Effective Floquet model for minimally twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	6
1091	1D charge density wave in the hidden order state of URu2Si2. Communications Physics, 2021, 4, .	2.0	1
1092	Quantifying the Charge Carrier Interaction in Metallic Twisted Bilayer Graphene Superlattices. Nanomaterials, 2021, 11, 1306.	1.9	8
1093	Carbon under pressure. Physics Reports, 2021, 909, 1-73.	10.3	64
1094	Twisted bilayer graphene. IV. Exact insulator ground states and phase diagram. Physical Review B, 2021, 103, .	1.1	123
1095	Gate-defined Josephson junctions in magic-angle twisted bilayer graphene. Nature Nanotechnology, 2021, 16, 760-763.	15.6	51
1096	Tunable large Berry dipole in strained twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	31
1097	Emerging chiral optics from chiral interfaces. Physical Review B, 2021, 103, .	1.1	10
1098	p + ip-wave pairing symmetry at type-II van Hove singularities. Frontiers of Physics, 2021, 16, 1.	2.4	1
1099	Twisted bilayer graphene. I. Matrix elements, approximations, perturbation theory, and a two-band model. Physical Review B, 2021, 103, .	1.1	103
1100	Twisted bilayer graphene. V. Exact analytic many-body excitations in Coulomb Hamiltonians: Charge gap, Goldstone modes, and absence of Cooper pairing. Physical Review B, 2021, 103, .	1.1	89
1101	Electronic Structures of Twisted Bilayer InSe/InSe and Heterobilayer Graphene/InSe. ACS Omega, 2021, 6, 13426-13432.	1.6	4

#	ARTICLE	IF	CITATIONS
1102	Symmetry mediated tunable molecular magnetism on a 2D material. Communications Physics, 2021, 4, .	2.0	7
1103	Luminescence Anomaly of Dipolar Valley Excitons in Homobilayer Semiconductor Moiré Superlattices. Physical Review X, 2021, 11, .	2.8	10
1104	Non-Fermi Liquids in Conducting Two-Dimensional Networks. Physical Review Letters, 2021, 126, 186601.	2.9	6
1105	Strong interlayer charge transfer due to exciton condensation in an electrically isolated GaAs quantum well bilayer. Applied Physics Letters, 2021, 118, 202110.	1.5	1
1106	Enhanced Coherence in Superconducting Circuits via Band Engineering. Physical Review Letters, 2021, 126, 187701.	2.9	9
1107	Towards holographic flat bands. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
1108	Moiré phonons in twisted MoSe ₂ –WSe ₂ heterobilayers and their correlation with interlayer excitons. 2D Materials, 2021, 8, 035030.	2.0	29
1109	Gate tunable conductance anisotropy in bilayer black phosphorene. Solid State Communications, 2021, 330, 114272.	0.9	0
1110	Visualizing delocalized correlated electronic states in twisted double bilayer graphene. Nature Communications, 2021, 12, 2516.	5.8	30
1111	Odd-frequency pair density wave in the Kitaev-Kondo lattice model. Physical Review B, 2021, 103, .	1.1	8
1112	Electric-field-tunable electronic nematic order in twisted double-bilayer graphene. 2D Materials, 2021, 8, 034005.	2.0	23
1113	Optical band engineering via vertical stacking of honeycomb plasmonic lattices. Physical Review B, 2021, 103, .	1.1	3
1114	Highly tunable junctions and non-local Josephson effect in magic-angle graphene tunnelling devices. Nature Nanotechnology, 2021, 16, 769-775.	15.6	58
1115	Imaging orbital ferromagnetism in a moiré Chern insulator. Science, 2021, 372, 1323-1327.	6.0	94
1116	Twisted bilayer graphene. II. Stable symmetry anomaly. Physical Review B, 2021, 103, .	1.1	85
1117	Importance of long-ranged electron-electron interactions for the magnetic phase diagram of twisted bilayer graphene. Physical Review B, 2021, 103, .	1.1	17
1118	Twisted bilayer graphene. VI. An exact diagonalization study at nonzero integer filling. Physical Review B, 2021, 103, .	1.1	79
1120	Spin excitations in the heavily overdoped monolayer graphene superconductor: An analog to the cuprates. Physical Review B, 2021, 103, .	1.1	3

#	ARTICLE	IF	CITATIONS
1121	Thermally induced band hybridization in bilayer-bilayer MoS ₂ /WS ₂ heterostructure*. Chinese Physics B, 2021, 30, 057801.	0.7	4
1122	Recent advances in graphene and other 2D materials. Nano Materials Science, 2022, 4, 3-9.	3.9	97
1123	Electronic localization in small-angle twisted bilayer graphene. 2D Materials, 2021, 8, 035046.	2.0	25
1124	Stacking-engineered ferroelectricity in bilayer boron nitride. Science, 2021, 372, 1458-1462.	6.0	344
1125	Chiral approximation to twisted bilayer graphene: Exact intravalley inversion symmetry, nodal structure, and implications for higher magic angles. Physical Review Research, 2021, 3, .	1.3	49
1126	Twisted bilayer graphene. III. Interacting Hamiltonian and exact symmetries. Physical Review B, 2021, 103, .	1.1	98
1127	Spectroscopy of a tunable moiré system with a correlated and topological flat band. Nature Communications, 2021, 12, 2732.	5.8	30
1128	Optical Signatures of Periodic Charge Distribution in a Mott-like Correlated Insulator State. Physical Review X, 2021, 11, .	2.8	24
1129	Flat band assisted topological charge pump in the dice lattice. Physical Review B, 2021, 103, .	1.1	8
1130	Interacting conformal Carrollian theories: Cues from electrodynamics. Physical Review D, 2021, 103, .	1.6	26
1131	Building devices in magic-angle graphene. Nature Nanotechnology, 2021, 16, 745-746.	15.6	1
1132	Twistronics versus straintronics in twisted bilayers of graphene and transition metal dichalcogenides. Physical Review B, 2021, 103, .	1.1	20
1133	Preparation of DNA Origami Belt and Effect of pH on Its Stability. Chinese Journal of Analytical Chemistry, 2021, 49, 743-751.	0.9	4
1134	Angle-resolved photoemission spectroscopy studies of electron-electron interactions in graphene. Current Applied Physics, 2021, 30, 27-39.	1.1	3
1135	Solid-state quantum chemistry with \hat{T}_θ (ThetaPhi): Spin liquids, superconductors, and magnetic superstructures made computationally available. Journal of Computational Chemistry, 2021, 42, 1498-1513.	1.5	1
1136	Odd Integer Quantum Hall States with Interlayer Coherence in Twisted Bilayer Graphene. Nano Letters, 2021, 21, 4249-4254.	4.5	11
1137	Evidence of Orbital Ferromagnetism in Twisted Bilayer Graphene Aligned to Hexagonal Boron Nitride. Nano Letters, 2021, 21, 4299-4304.	4.5	27
1138	Charged skyrmions and topological origin of superconductivity in magic-angle graphene. Science Advances, 2021, 7, .	4.7	109

#	ARTICLE	IF	CITATIONS
1139	Multivalley enhanced electron-phonon coupling and potential Ising superconductivity in monolayer α -W-antimonene. <i>Computational Materials Science</i> , 2021, 192, 110411.	1.4	2
1140	High-throughput identification of one-dimensional atomic wires and first principles calculations of their electronic states*. <i>Chinese Physics B</i> , 2021, 30, 057304.	0.7	11
1141	Edge channels of broken-symmetry quantum Hall states in graphene visualized by atomic force microscopy. <i>Nature Communications</i> , 2021, 12, 2852.	5.8	24
1142	Evidence for Moiré Trions in Twisted MoSe_2 Homobilayers. <i>Nano Letters</i> , 2021, 21, 4461-4468.	4.5	31
1143	Giant thermopower and power factor in magic angle twisted bilayer graphene at low temperature. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 245704.	0.7	5
1144	Pressure-dependent interfacial charge transfer excitons in WSe_2 - MoSe_2 heterostructures in near infrared region. <i>Results in Physics</i> , 2021, 24, 104110.	2.0	22
1145	Spin moiré engineering of topological magnetism and emergent electromagnetic fields. <i>Physical Review B</i> , 2021, 103, .	1.1	16
1146	Twisted symmetric trilayer graphene: Single-particle and many-body Hamiltonians and hidden nonlocal symmetries of trilayer moiré systems with and without displacement field. <i>Physical Review B</i> , 2021, 103, .	1.1	25
1147	Trigonal quasicrystalline states in 30° rotated double moiré superlattices. <i>Scientific Reports</i> , 2021, 11, 11548.	1.6	0
1148	Single element material sulfur quantum dots nonlinear optics and ultrafast photonic applications. <i>Optics and Laser Technology</i> , 2021, 138, 106858.	2.2	10
1149	Critical analysis of the response function in low-dimensional materials. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 295701.	0.7	1
1150	Correlation hard gap in antidot graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	1
1151	Signatures of moiré trions in $\text{WSe}_2/\text{MoSe}_2$ heterobilayers. <i>Nature</i> , 2021, 594, 46-50.	18.7	77
1152	Theoretical studies of the THz compression of low-to-medium energy electron pulses and the single-shot stamping of electron THz timing jitter. <i>New Journal of Physics</i> , 2021, 23, 063052.	1.2	1
1153	Reentrant metal-insulator transition and competing magnetic interactions on a triangular lattice with second nearest-neighbor hopping. <i>Physical Review B</i> , 2021, 103, .	1.1	1
1154	Strong interaction between interlayer excitons and correlated electrons in WSe_2/WS_2 moiré superlattice. <i>Nature Communications</i> , 2021, 12, 3608.	5.8	63
1155	Tunable phononic thermal transport in two-dimensional C_6CaC_6 via guest atom intercalation. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	15
1156	Flat Bands in Magic-Angle Bilayer Photonic Crystals at Small Twists. <i>Physical Review Letters</i> , 2021, 126, 223601.	2.9	69

#	ARTICLE	IF	CITATIONS
1157	Recent mechanical processing techniques of two-dimensional layered materials: A review. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 135-152.	1.5	11
1158	Electronic phase separation: Recent progress in the old problem. <i>Physics Reports</i> , 2021, 916, 1-105.	10.3	19
1159	Methods to accelerate high-throughput screening of atomic qubit candidates in van der Waals materials. <i>Journal of Applied Physics</i> , 2021, 129, 225105.	1.1	3
1160	Moiré lattice effects on the orbital magnetic response of twisted bilayer graphene and Condon instability. <i>Physical Review B</i> , 2021, 103, .	1.1	11
1161	Moiré superlattice modulations in single-unit-cell FeTe films grown on NbSe ₂ single crystals*. <i>Chinese Physics B</i> , 2021, 30, 126801.	0.7	2
1162	Renormalization group analysis of weakly interacting van der Waals Fermi system. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 335604.	0.7	0
1163	Near-field thermal transport between two identical twisted bilayer graphene sheets separated by a vacuum gap. <i>Physical Review B</i> , 2021, 103, .	1.1	10
1164	Structural engineering of graphene for high-resolution cryo-electron microscopy. <i>SmartMat</i> , 2021, 2, 202-212.	6.4	24
1165	Synchronizing Bloch-Oscillating Free Carriers in Moiré Flat Bands. <i>Physical Review Letters</i> , 2021, 126, 256803.	2.9	7
1166	Photonic analog of bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	26
1167	Enhanced superconductivity in quasiperiodic crystals. <i>Physical Review Research</i> , 2021, 3, .	1.3	6
1168	Nanoinfrared Characterization of Bilayer Graphene Conductivity under Dual-Gate Tuning. <i>Nano Letters</i> , 2021, 21, 5151-5157.	4.5	8
1169	Metal-insulator transition in transition metal dichalcogenide heterobilayer moiré superlattices. <i>Physical Review B</i> , 2021, 103, .	1.1	36
1170	Substituent Effects in the Synthesis of Heterostructures. <i>Inorganic Chemistry</i> , 2021, 60, 9598-9606.	1.9	3
1171	Anisotropic moiré optical transitions in twisted monolayer/bilayer phosphorene heterostructures. <i>Nature Communications</i> , 2021, 12, 3947.	5.8	33
1172	Topological gaps by twisting. <i>Communications Physics</i> , 2021, 4, .	2.0	20
1173	Ultrafast Pump-Probe Spectroscopy—A Powerful Tool for Tracking Spin-Quantum Dynamics in Metal Halide Perovskites. <i>Advanced Quantum Technologies</i> , 2021, 4, 2100052.	1.8	12
1174	Fizeau drag in graphene plasmonics. <i>Nature</i> , 2021, 594, 513-516.	13.7	57

#	ARTICLE	IF	CITATIONS
1175	Ultrasensitive Calorimetric Measurements of the Electronic Heat Capacity of Graphene. Nano Letters, 2021, 21, 5330-5337.	4.5	10
1176	Pairing in magic-angle twisted bilayer graphene: Role of phonon and plasmon umklapp. Physical Review B, 2021, 103, .	1.1	34
1177	Domain wall induced spin-polarized flat bands in antiferromagnetic topological insulators. Physical Review B, 2021, 103, .	1.1	20
1178	Ferroelectric-tuned van der Waals heterojunction with band alignment evolution. Nature Communications, 2021, 12, 4030.	5.8	79
1179	Tunnel Junctions with a Moiré Superlattice as a Barrier. ACS Applied Electronic Materials, 2021, 3, 2543-2550.	2.0	2
1180	Accessing the spectral function of <i>i</i> in operando devices by angle-resolved photoemission spectroscopy. AVS Quantum Science, 2021, 3, 021101.	1.8	15
1181	Temperature dependent Raman scattering of directly grown twisted bilayer graphene film using LPCVD method. Carbon, 2021, 177, 366-376.	5.4	7
1182	Theory of angle-resolved photoemission spectroscopy in graphene-based moiré superlattices. Physical Review B, 2021, 103, .	1.1	5
1183	Rare Earth Engineering in $R\text{Mn}$		

#	ARTICLE	IF	CITATIONS
1193	Eshelby-twisted three-dimensional moiré superlattices. Physical Review B, 2021, 103, .	1.1	11
1194	Bilayer twisting as a mean to isolate connected flat bands in a kagome lattice through Wigner crystallization*. Chinese Physics B, 2021, 30, 077104.	0.7	2
1195	Momentum-Resolved Electronic Structures of a Monolayer-MoS ₂ /Multilayer-MoSe ₂ Heterostructure. Journal of Physical Chemistry C, 2021, 125, 16591-16597.	1.5	2
1196	Interlayer electronic coupling on demand in a 2D magnetic semiconductor. Nature Materials, 2021, 20, 1657-1662.	13.3	94
1197	Flat band carrier confinement in magic-angle twisted bilayer graphene. Nature Communications, 2021, 12, 4180.	5.8	22
1198	Heteroepitaxial van der Waals semiconductor superlattices. Nature Nanotechnology, 2021, 16, 1092-1098.	15.6	54
1199	Exchange interaction, disorder, and stacking faults in rhombohedral graphene multilayers. Physical Review B, 2021, 104, .	1.1	5
1200	Shaping and structuring 2D materials via kirigami and origami. Materials Science and Engineering Reports, 2021, 145, 100621.	14.8	36
1201	Lattice collective modes from a continuum model of magic-angle twisted bilayer graphene. Physical Review B, 2021, 104, .	1.1	12
1202	Stacking and gate-tunable topological flat bands, gaps, and anisotropic strip patterns in twisted trilayer graphene. Physical Review B, 2021, 104, .	1.1	16
1203	Tunable bandgaps and flat bands in twisted bilayer biphenylene carbon*. Chinese Physics B, 2021, 30, 077103.	0.7	3
1204	Heteroatoms/molecules to tune the properties of 2D materials. Materials Today, 2021, 47, 108-130.	8.3	20
1205	Designing Three-Dimensional Flat Bands in Nodal-Line Semimetals. Physical Review X, 2021, 11, .	2.8	17
1206	Presence of s -Wave Pairing in Josephson Junctions Made of Twisted Ultrathin Bi_2 Physical Review X, 2021, 11, .	2.8	34
1207	Momentum Space Quantum Monte Carlo on Twisted Bilayer Graphene. Chinese Physics Letters, 2021, 38, 077305.	1.3	47
1208	Mirror symmetry breaking and lateral stacking shifts in twisted trilayer graphene. Physical Review B, 2021, 104, .	1.1	36
1209	Magic continuum in a twisted bilayer square lattice with staggered flux. Physical Review B, 2021, 104, .	1.1	9
1210	Chiral p -wave superconductivity in twisted bilayer graphene from dynamical mean field theory. SciPost Physics, 2021, 11, .	1.5	5

#	ARTICLE	IF	CITATIONS
1211	Flat topological bands and eigenstate criticality in a quasiperiodic insulator. Physical Review B, 2021, 104, .	1.1	7
1212	Flat and correlated plasmon bands in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{graphene} \langle \text{mml:mtext} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mtext} \rangle \text{heterostructures} \langle \text{mml:mtext} \rangle$. Physical Review B, 2021, 104, .		
1213	The Magic Kingdom of imperfect graphene. MRS Bulletin, 2021, 46, 650-654.	1.7	0
1214	Confined Chemical Transitions for Direct Extraction of Conductive Cellulose Nanofibers with Graphitized Carbon Shell at Low Temperature and Pressure. Journal of the American Chemical Society, 2021, 143, 11620-11630.	6.6	43
1215	Modeling the optical properties of twisted bilayer photonic crystals. Light: Science and Applications, 2021, 10, 157.	7.7	42
1216	Direct Visualization and Manipulation of Stacking Orders in Few-Layer Graphene by Dynamic Atomic Force Microscopy. Journal of Physical Chemistry Letters, 2021, 12, 7328-7334.	2.1	9
1217	Strain-Induced Quantum Phase Transitions in Magic-Angle Graphene. Physical Review Letters, 2021, 127, 027601.	2.9	67
1218	Fractal energy gaps and topological invariants in hBN/graphene/hBN double moiré systems. Physical Review B, 2021, 104, .	1.1	17
1219	Charge density wave and finite-temperature transport in minimally twisted bilayer graphene. Physical Review B, 2021, 104, .	1.1	6
1220	Superconductivity in a graphene system survives a strong magnetic field. Nature, 2021, 595, 495-496.	13.7	1
1221	Twist angle dependent absorption feature induced by interlayer rotations in CVD bilayer graphene. Nanophotonics, 2021, 10, 2695-2703.	2.9	1
1222	Emulating Heavy Fermions in Twisted Trilayer Graphene. Physical Review Letters, 2021, 127, 026401.	2.9	37
1223	Large-scale Mapping of Moiré Superlattices by Hyperspectral Raman Imaging. Advanced Materials, 2021, 33, e2008333.	11.1	41
1224	Photo-induced ultrafast phase transition in twisted bilayer graphene. Microscopy and Microanalysis, 2021, 27, 2954-2956.	0.2	0
1225	Mott insulating state and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle z \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle$ superconductivity in an ABC graphene trilayer. Physical Review B, 2021, 104, .		
1226	Charge- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Superconductivity from Multicomponent Nematic Pairing: Application to Twisted Bilayer Graphene. Physical Review Letters, 2021, 127, 047001.	2.9	30
1227	Ultrathin hexagonal boron nitride as a van der Waals™ force initiator activated graphene for engineering efficient non-metal electrocatalysts of Li-CO2 battery. Nano Research, 2022, 15, 1171-1177.	5.8	18
1228	Effects of heterostrain and lattice relaxation on the optical conductivity of twisted bilayer graphene. Physical Review B, 2021, 104, .	1.1	10

#	ARTICLE	IF	CITATIONS
1229	Magnon bands in twisted bilayer honeycomb quantum magnets*. Chinese Physics B, 2021, 30, 077505.	0.7	2
1230	Localization-to-delocalization transition of light in frequency-tuned photonic moiré lattices. Optics Express, 2021, 29, 25388.	1.7	17
1231	Multiple flat bands and topological Hofstadter butterfly in twisted bilayer graphene close to the second magic angle. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	35
1232	Flat bands with fragile topology through superlattice engineering on single-layer graphene. Physical Review Research, 2021, 3, .	1.3	7
1233	Gross-Neveu-Heisenberg criticality from competing nematic and antiferromagnetic orders in bilayer graphene. Physical Review B, 2021, 104, .	1.1	6
1234	Dirac node engineering and flat bands in doped Dirac materials. Physical Review Research, 2021, 3, .	1.3	2
1235	Probing the bright exciton state in twisted bilayer graphene via resonant Raman scattering. Applied Physics Letters, 2021, 119, .	1.5	7
1236	Reviewing computational studies of defect formation and behaviors in carbon fiber structural units. Computational Materials Science, 2021, 195, 110477.	1.4	6
1237	Excitonic and Valley-Polarization Signatures of Fractional Correlated Electronic Phases in a $WSe_2/MoSe_2$ Moiré Superlattice. Physical Review Letters, 2021, 127, 037402.	2.9	43
1238	Acoustic Valley Spin Chern Insulators. Physical Review Applied, 2021, 16, .	1.5	13
1239	Resonant Coupling of a Moiré Exciton to a Phonon in a $WSe_2/MoSe_2$ Heterobilayer. Nano Letters, 2021, 21, 5938-5944.	4.5	20
1240	Strong Interminivalley Scattering in Twisted Bilayer Graphene Revealed by High-Temperature Magneto-Oscillations. Physical Review Letters, 2021, 127, 056802.	2.9	11
1241	Nonlinear Hall Effect with Time-Reversal Symmetry: Theory and Material Realizations. Advanced Quantum Technologies, 2021, 4, 2100056.	1.8	36
1242	Pauli-limit violation and re-entrant superconductivity in moiré graphene. Nature, 2021, 595, 526-531.	13.7	165
1243	Projective representation of D_6 group in twisted bilayer graphene*. Chinese Physics B, 2021, 30, 070311.	0.7	0
1244	General construction of flat bands with and without band crossings based on wave function singularity. Physical Review B, 2021, 104, .	1.1	13
1245	Full Slonczewski-Weiss-McClure parametrization of few-layer twistrionic graphene. Physical Review B, 2021, 104, .	1.1	8
1246	Impact of nitrogen doping on the band structure and the charge carrier scattering in monolayer graphene. Physical Review Materials, 2021, 5, .	0.9	3

#	ARTICLE	IF	CITATIONS
1247	Strain-induced doping and zero line mode at the fold of twisted Bernal-stacked bilayer graphene. 2D Materials, 2021, 8, 045009.	2.0	2
1248	Spectroscopic Signatures of Interlayer Coupling in Janus MoSSe/MoS ₂ Heterostructures. ACS Nano, 2021, 15, 14394-14403.	7.3	36
1249	Imaging local discharge cascades for correlated electrons in WS ₂ /WSe ₂ moiré superlattices. Nature Physics, 2021, 17, 1114-1119.	6.5	36
1250	Two-dimensional group-III nitrides and devices: a critical review. Reports on Progress in Physics, 2021, 84, 086501.	8.1	19
1251	Bilayer graphene encapsulated within monolayers of WS ₂ or Cr ₂ : Tunable proximity spin-orbit or exchange coupling. Physical Review B, 2021, 104, .	1.1	15
1252	Magic-angle lasers in nanostructured moiré superlattice. Nature Nanotechnology, 2021, 16, 1099-1105.	15.6	79
1253	Light-matter coupling and quantum geometry in moiré materials. Physical Review B, 2021, 104, .	1.1	29
1254	New method of transport measurements on van der Waals heterostructures under pressure. Journal of Applied Physics, 2021, 130, .	1.1	16
1255	Charge-order-enhanced capacitance in semiconductor moiré superlattices. Nature Nanotechnology, 2021, 16, 1068-1072.	15.6	40
1256	Flat band properties of twisted transition metal dichalcogenide homo- and heterobilayers of MoS ₂ , MoSe ₂ , WS ₂ and WSe ₂ . 2D Materials, 2021, 8, 045010.	2.0	39
1257	Bandgap engineering of stacked two-dimensional polyaniline by twist angle. Applied Physics Letters, 2021, 119, 061602.	1.5	7
1258	Crystal Symmetry Engineering in Epitaxial Perovskite Superlattices. Advanced Functional Materials, 2021, 31, 2106466.	7.8	7
1259	Flat bands with band crossings enforced by symmetry representation. Physical Review B, 2021, 104, .	1.1	12
1260	Optical spectral weight, phase stiffness, and T_c bounds for trivial and topological flat band superconductors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
1261	Theoretical Study of Chemical Vapor Deposition Synthesis of Graphene and Beyond: Challenges and Perspectives. Journal of Physical Chemistry Letters, 2021, 12, 7942-7963.	2.1	15
1262	Very high thermoelectric power factor near magic angle in twisted bilayer graphene. 2D Materials, 2021, 8, 045022.	2.0	3
1263	Twisting of 2D Kagomé Sheets in Layered Intermetallics. ACS Central Science, 2021, 7, 1381-1390.	5.3	14
1264	Shear and Breathing Modes of Layered Materials. ACS Nano, 2021, 15, 12509-12534.	7.3	22

#	ARTICLE	IF	CITATIONS
1265	Interaction-Driven Filling-Induced Metal-Insulator Transitions in 2D Moiré Lattices. <i>Physical Review Letters</i> , 2021, 127, 096802.	2.9	31
1266	Lattice model for the Coulomb interacting chiral limit of magic-angle twisted bilayer graphene: Symmetries, obstructions, and excitations. <i>Physical Review B</i> , 2021, 104, .	1.1	21
1267	Direct Visualization of Native Defects in Graphite and Their Effect on the Electronic Properties of Bernal-Stacked Bilayer Graphene. <i>Nano Letters</i> , 2021, 21, 7100-7108.	4.5	13
1268	Resonance Raman enhancement by the intralayer and interlayer electron-phonon processes in twisted bilayer graphene. <i>Scientific Reports</i> , 2021, 11, 17206.	1.6	7
1269	Coulomb interaction, phonons, and superconductivity in twisted bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	52
1270	Chirality-induced spin texture switching in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	5
1271	Competing correlated states and abundant orbital magnetism in twisted monolayer-bilayer graphene. <i>Nature Communications</i> , 2021, 12, 4727.	5.8	37
1272	Fracton-elasticity duality in twisted moiré superlattices. <i>Physical Review B</i> , 2021, 104, .	1.1	9
1273	Angle-dependent electron confinement in graphene moiré superlattices. <i>Physical Review B</i> , 2021, 104, .	1.1	5
1274	High transmission in twisted bilayer graphene with angle disorder. <i>Physical Review B</i> , 2021, 104, .	1.1	10
1275	Generation of gradient photonic moiré lattice fields. <i>Optics Express</i> , 2021, 29, 29116.	1.7	10
1276	Moiré excitons in defective van der Waals heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
1277	Flat bands, electron interactions, and magnetic order in magic-angle mono-trilayer graphene. <i>Physical Review Materials</i> , 2021, 5, .	0.9	14
1278	Moving Dirac nodes by chemical substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
1279	Moiré physics in twisted van der Waals heterostructures of 2D materials. <i>Emergent Materials</i> , 2021, 4, 813-826.	3.2	17
1280	Elastocapillary cleaning of twisted bilayer graphene interfaces. <i>Nature Communications</i> , 2021, 12, 5069.	5.8	19
1281	Vertical transverse transport induced by hidden in-plane Berry curvature in two dimensions. <i>Physical Review B</i> , 2021, 104, .	1.1	1
1282	Density functional approach to the band gaps of finite and periodic two-dimensional systems. <i>Physical Review B</i> , 2021, 104, .	1.1	2

#	ARTICLE	IF	CITATIONS
1283	Harmonic generation in transition metal dichalcogenides and their heterostructures. <i>Materials Today</i> , 2021, 50, 570-586.	8.3	14
1284	Narrow bands, electrostatic interactions and band topology in graphene stacks. <i>2D Materials</i> , 2021, 8, 044006.	2.0	11
1285	Designing artificial two-dimensional landscapes via atomic-layer substitution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	43
1286	Ab initio four-band Wannier tight-binding model for generic twisted graphene systems. <i>Physical Review B</i> , 2021, 104, .	1.1	12
1287	WS2 moire's superlattices derived from mechanical flexibility for hydrogen evolution reaction. <i>Nature Communications</i> , 2021, 12, 5070.	5.8	152
1288	Two-dimensional heterostructures and their device applications: progress, challenges and opportunities—review. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 433001.	1.3	30
1289	Transport and spectral properties of magic-angle twisted bilayer graphene junctions based on local orbital models. <i>Physical Review B</i> , 2021, 104, .	1.1	6
1290	A simple fabrication strategy for orientationally accurate twisted heterostructures. <i>Nanotechnology</i> , 2021, 32, 455705.	1.3	10
1291	Recent Advances on Transition Metal Dichalcogenides for Electrochemical Energy Conversion. <i>Advanced Materials</i> , 2021, 33, e2008376.	11.1	114
1292	Manifestation of Strongly Correlated Electrons in a 2D Kagome Metal-Organic Framework. <i>Advanced Functional Materials</i> , 2021, 31, 2106474.	7.8	20
1293	Tunable Dirac points and zero-energy modes in periodic curved graphene superlattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 409, 127510.	0.9	1
1294	Theory of plasmonic edge states in chiral bilayer systems. <i>Physical Review B</i> , 2021, 104, .	1.1	7
1295	Heterostrain Determines Flat Bands in Magic-Angle Twisted Graphene Layers. <i>Physical Review Letters</i> , 2021, 127, 126405.	2.9	23
1296	Bending for Better: Flexible Organic Single Crystals with Controllable Curvature and Curvature-Related Conductivity for Customized Electronic Devices. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22424-22431.	7.2	38
1297	Observation of interband collective excitations in twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 1162-1168.	6.5	47
1298	Epitaxial Intercalation Growth of Scalable Hexagonal Boron Nitride/Graphene Bilayer Moiré Materials with Highly Convergent Interlayer Angles. <i>ACS Nano</i> , 2021, 15, 14384-14393.	7.3	14
1299	A review of assembly techniques for fabricating twisted bilayer graphene. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 114004.	1.5	5
1300	Does filling-dependent band renormalization aid pairing in twisted bilayer graphene?. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	24

#	ARTICLE	IF	CITATIONS
1301	Various Stacking Patterns of Two-Dimensional Molecular Assemblies in Hydrogen-Bonded Cocrystals: Insight into Competitive Intermolecular Interactions and Control of Stacking Patterns. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22839-22848.	7.2	13
1302	Recent advances of semitransparent organic solar cells. <i>Solar Energy</i> , 2021, 225, 97-107.	2.9	22
1303	Resolving the intrinsic bandgap and edge effect of BiI ₃ film epitaxially grown on graphene. <i>Materials Today Physics</i> , 2021, 20, 100454.	2.9	4
1304	Visualizing electron localization of WS ₂ /WSe ₂ moiré superlattices in momentum space. <i>Science Advances</i> , 2021, 7, eabf4387.	4.7	24
1305	Realization of topological Mott insulator in a twisted bilayer graphene lattice model. <i>Nature Communications</i> , 2021, 12, 5480.	5.8	50
1306	Quantum Monte Carlo study of honeycomb antiferromagnets under a triaxial strain. <i>Physical Review B</i> , 2021, 104, .	1.1	8
1307	Superconductivity in the twisted bilayer graphene: emergent mystery in the magic angle, the topological bosons and the Bardeen Cooper Schrieffer “ Bose Einstein unconventional crossover. <i>Philosophical Magazine</i> , 2021, 101, 2377-2411.	0.7	1
1308	Mirror-Image Cofacial Coronene Dimers Characterized by CD and CPL Spectroscopy: A Twisted Bilayer Nanographene. <i>ChemPhotoChem</i> , 2021, 5, 974-978.	1.5	2
1309	Optoelectronic fingerprints of interference between different charge carriers and band flattening in graphene superlattices. <i>Physical Review B</i> , 2021, 104, .	1.1	10
1310	Vibrational Properties of a Naturally Occurring Semiconducting van der Waals Heterostructure. <i>Journal of Physical Chemistry C</i> , 2021, 125, 21607-21613.	1.5	4
1311	Band structure and superconductivity in twisted trilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	29
1312	Unconventional sequence of correlated Chern insulators in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 1210-1215.	6.5	78
1313	Electronic Floquet gyro-liquid crystal. <i>Nature Communications</i> , 2021, 12, 5299.	5.8	5
1314	Evidence of two-dimensional flat band at the surface of antiferromagnetic kagome metal FeSn. <i>Nature Communications</i> , 2021, 12, 5345.	5.8	34
1315	Atomic frustration-based twistrionics. <i>2D Materials</i> , 0, , .	2.0	0
1316	Direct measurement of surface forces: Recent advances and insights. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	6
1317	Graphene-based mid-infrared photodetectors using metamaterials and related concepts. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	20
1318	Computational design of moiré assemblies aided by artificial intelligence. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	10

#	ARTICLE	IF	CITATIONS
1319	Domain wall competition in the Chern insulating regime of twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	15
1320	Spin liquid in twisted homobilayers of group-VI dichalcogenides. <i>Physical Review B</i> , 2021, 104, .	1.1	8
1321	Nematicity Arising from a Chiral Superconducting Ground State in Magic-Angle Twisted Bilayer Graphene under In-Plane Magnetic Fields. <i>Physical Review Letters</i> , 2021, 127, 127001.	2.9	13
1322	Bending for Better: Flexible Organic Single Crystals with Controllable Curvature and Curvature-Related Conductivity for Customized Electronic Devices. <i>Angewandte Chemie</i> , 2021, 133, 22598-22605.	1.6	22
1323	Magic angle twisted bilayer graphene as a highly efficient quantum Otto engine. <i>Physical Review B</i> , 2021, 104, .	1.1	8
1324	Novel two-dimensional transition metal chalcogenides created by epitaxial growth. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021, 64, 1.	2.0	3
1325	Spontaneous fractional Chern insulators in transition metal dichalcogenide moiré superlattices. <i>Physical Review Research</i> , 2021, 3, .	1.3	40
1326	Propagation of waves in high Brillouin zones: Chaotic branched flow and stable superwires. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	5
1327	Quantum Hall superconductivity from moiré Landau levels. <i>Physical Review Research</i> , 2021, 3, .	1.3	7
1328	Universal principles of moiré band structures. <i>2D Materials</i> , 2021, 8, 044007.	2.0	5
1329	Modeling the structure and interlayer interactions of twisted bilayer graphene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2022, 30, 152-155.	1.0	2
1330	Fermi velocity reduction in graphene due to enhanced vacuum fluctuations. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 485502.	0.7	2
1331	Exact Diagonalization for Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 147203.	2.9	32
1332	Carrier transport theory for twisted bilayer graphene in the metallic regime. <i>Nature Communications</i> , 2021, 12, 5737.	5.8	17
1333	Electronic states and modulation doping of hexagonal boron nitride trilayers. <i>Physical Review Materials</i> , 2021, 5, .	0.9	2
1334	Twisted symmetric trilayer graphene. II. Projected Hartree-Fock study. <i>Physical Review B</i> , 2021, 104, .	1.1	20
1335	Visualizing Van der Waals Epitaxial Growth of 2D Heterostructures. <i>Advanced Materials</i> , 2021, 33, e2105079.	11.1	24
1336	Bandgap Tuned WS ₂ Thin-Film Photodetector by Strain Gradient in van der Waals Effective Homojunctions. <i>Advanced Optical Materials</i> , 2021, 9, 2101310.	3.6	13

#	ARTICLE	IF	CITATIONS
1337	Computational methods for 2D materials modelling. Reports on Progress in Physics, 2021, 84, 106501.	8.1	4
1338	Stacking effects on the structure and magnetic properties of MoN ₂ . Europhysics Letters, 2021, 135, 40005.	0.7	1
1339	Chiral magic-angle twisted bilayer graphene in a magnetic field: Landau level correspondence, exact wave functions, and fractional Chern insulators. Physical Review B, 2021, 104, .	1.1	31
1340	Tunable moire spinons in magnetically encapsulated twisted van der Waals quantum spin liquids. Physical Review Research, 2021, 3, .	1.3	5
1341	Emerging of two-dimensional materials in novel memristor. Frontiers of Physics, 2022, 17, 1.	2.4	37
1342	Ultrafast Interlayer Charge Separation, Enhanced Visible-Light Absorption, and Tunable Overpotential in Twisted Graphitic Carbon Nitride Bilayers for Water Splitting. Advanced Materials, 2021, 33, e2104695.	11.1	26
1343	Quantum criticality in twisted transition metal dichalcogenides. Nature, 2021, 597, 345-349.	13.7	163
1344	Weyl Semimetal Path to Valley Filtering in Graphene. Physical Review Letters, 2021, 127, 126801.	2.9	3
1345	Emergence of intrinsically isolated flat bands and their topology in fully relaxed twisted multilayer graphene. Physical Review B, 2021, 104, .	1.1	4
1346	High-order harmonic generation from twisted bilayer graphene driven by a midinfrared laser field. Physical Review A, 2021, 104, .	1.0	11
1347	Engineering Three-Dimensional Moiré Flat Bands. Nano Letters, 2021, 21, 7519-7526.	4.5	10
1348	Electric Field Induced Twisted Bilayer Graphene Infrared Plasmon Spectrum. Nanomaterials, 2021, 11, 2433.	1.9	10
1349	Emergence of Ferromagnetism Due to Spontaneous Symmetry Breaking in a Twisted Bilayer Graphene Nanoflex. Nano Letters, 2021, 21, 7548-7554.	4.5	4
1350	Lattice reconstruction induced multiple ultra-flat bands in twisted bilayer WSe ₂ . Nature Communications, 2021, 12, 5601.	5.8	48
1351	One-Dimensional Flat Bands and Anisotropic Moiré Excitons in Twisted Tin Sulfide Bilayers. Chemistry of Materials, 2021, 33, 7432-7440.	3.2	6
1352	Multifaceted moiré superlattice physics in twisted WSe_2 bilayers. Physical Review B, 2021, 104, .	1.1	1
1353	Interface nano-optics with van der Waals polaritons. Nature, 2021, 597, 187-195.	13.7	143
1354	Magnetic phases from competing Hubbard and extended Coulomb interactions in twisted bilayer graphene. Physical Review B, 2021, 104, .	1.1	5

#	ARTICLE	IF	CITATIONS
1355	Recent progress in the synthesis of novel two-dimensional van der Waals materials. National Science Review, 2022, 9, nwab164.	4.6	50
1356	Effective continuum model of twisted bilayer GeSe and origin of the emerging one-dimensional mode. Physical Review B, 2021, 104, .	1.1	6
1357	Flat Bands and Giant Light-Matter Interaction in Hexagonal Boron Nitride. Physical Review Letters, 2021, 127, 137401.	2.9	22
1358	Boosting proximity spin-orbit coupling in graphene/WSe2 heterostructures via hydrostatic pressure. Npj 2D Materials and Applications, 2021, 5, .	3.9	34
1359	Various Stacking Patterns of Two-Dimensional Molecular Assemblies in Hydrogen-Bonded Cocrystals: Insight into Competitive Intermolecular Interactions and Control of Stacking Patterns. Angewandte Chemie, 2021, 133, 23021.	1.6	1
1360	Experimental evidence of plasmarons and effective fine structure constant in electron-doped graphene/h-BN heterostructure. Npj Quantum Materials, 2021, 6, .	1.8	3
1361	Twisted angle modulated structural property, electronic structure and carrier transport of MoS2/AlN(0001) mixed-dimensional van der Waals heterostructure. Applied Surface Science, 2021, 563, 150330.	3.1	4
1362	Novel electronic structures and magnetic properties in twisted two-dimensional graphene/Janus 2H-VSeTe heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 134, 114854.	1.3	8
1363	Quantum metric and correlated states in two-dimensional systems. Current Opinion in Solid State and Materials Science, 2021, 25, 100952.	5.6	20
1364	Tracking the light-driven layer stacking of graphene oxide. Carbon, 2021, 183, 612-619.	5.4	2
1365	Tunable optical property and flat bands in twisted double bilayer graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 416, 127670.	0.9	3
1366	Non-abelian bosonization in two and three spatial dimensions and applications. Nuclear Physics B, 2021, 972, 115565.	0.9	6
1367	2D layered nanomaterials for therapeutics delivery. Current Opinion in Biomedical Engineering, 2021, 20, 100319.	1.8	16
1368	Van Hove singularities, moiré-superlattices and rhombohedral stacking in exfoliated sublattices of highly oriented pyrolytic graphite. Materials Today Chemistry, 2021, 22, 100585.	1.7	2
1369	Construction of moiré superlattice on the MoO2 (010) surfaces. Physica B: Condensed Matter, 2022, 624, 413429.	1.3	0
1370	High-quality graphene from the surface of CrFeCoNiC high-entropy alloy. Journal of Alloys and Compounds, 2022, 889, 161712.	2.8	1
1371	Flat bands in twisted bilayers of polar two-dimensional semiconductors. Physical Review Materials, 2021, 5, .	0.9	6
1372	WKB Estimate of Bilayer Graphene's Magic Twist Angles. Physical Review Letters, 2021, 126, 016404.	2.9	20

#	ARTICLE	IF	CITATIONS
1373	Structural diversity, large interlayer spacing and switchable electronic properties of graphitic systems. <i>Journal of Materials Science</i> , 2021, 56, 5509-5519.	1.7	3
1374	Material properties particularly suited to be measured with helium scattering: selected examples from 2D materials, van der Waals heterostructures, glassy materials, catalytic substrates, topological insulators and superconducting radio frequency materials. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7653-7672.	1.3	25
1375	Edge State Induced Spintronic Properties of Graphene Nanoribbons: A Theoretical Perspective. <i>Advances in Sustainability Science and Technology</i> , 2021, , 165-198.	0.4	0
1376	Interplay between structural deformations and flat band phenomenology in twisted bilayer antimonene. <i>RSC Advances</i> , 2021, 11, 27855-27859.	1.7	2
1377	Raman Spectroscopy of Twisted Bilayer Graphene. <i>Journal of Carbon Research</i> , 2021, 7, 10.	1.4	9
1378	Spin-fluctuation-induced pairing in twisted bilayer graphene. <i>Physical Review B</i> , 2021, 103, .	1.1	26
1379	Direct imaging of interlayer-coupled symmetric and antisymmetric plasmon modes in graphene/hBN/graphene heterostructures. <i>Nanoscale</i> , 2021, 13, 14628-14635.	2.8	3
1380	Recent advances of graphdiyne: synthesis, functionalization, and electrocatalytic applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7964-7981.	3.2	9
1381	Predictions of moiré excitons in twisted two-dimensional organic-inorganic halide perovskites. <i>Chemical Science</i> , 2021, 12, 6073-6080.	3.7	5
1382	Correlation-driven topological phases in magic-angle twisted bilayer graphene. <i>Nature</i> , 2021, 589, 536-541.	13.7	151
1383	Nematic topological semimetal and insulator in magic-angle bilayer graphene at charge neutrality. <i>Physical Review Research</i> , 2021, 3, .	1.3	93
1384	Enhanced percolative spin-glass-like behavior in oxygen-rich highly oriented pyrolytic graphite with anomalous non-hexagonal superlattices and doubled electron diffraction patterns. <i>Carbon Trends</i> , 2021, 2, 100022.	1.4	2
1385	Graphene adlayer growth between nonepitaxial graphene and the Ni(111) substrate: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2222-2228.	1.3	7
1386	Optical properties of two-dimensional black phosphorus. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, 70, 027802.	0.2	7
1387	Emerging flat bands in large-angle twisted bi-layer graphene under pressure. <i>Nanoscale</i> , 2021, 13, 9264-9269.	2.8	6
1388	Studying 2D materials with advanced Raman spectroscopy: CARS, SRS and TERS. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23428-23444.	1.3	26
1389	Moiré patterns of twisted bilayer antimonene and their structural and electronic transition. <i>Nanoscale</i> , 2021, 13, 13427-13436.	2.8	5
1390	Periodic nanostructures: preparation, properties and applications. <i>Chemical Society Reviews</i> , 2021, 50, 6423-6482.	18.7	34

#	ARTICLE	IF	CITATIONS
1391	Twist Angle-Dependent Interlayer Exciton Lifetimes in van der Waals Heterostructures. <i>Physical Review Letters</i> , 2021, 126, 047401.	2.9	88
1392	Enhanced third-harmonic generation by manipulating the twist angle of bilayer graphene. <i>Light: Science and Applications</i> , 2021, 10, 19.	7.7	24
1393	Ultra-high thermal conductivities of tetrahedral carbon allotropes with non-simple structures. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24550-24556.	1.3	2
1394	Moiré correlations in ABCA graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	59
1395	Charge-polarized interfacial superlattices in marginally twisted hexagonal boron nitride. <i>Nature Communications</i> , 2021, 12, 347.	5.8	132
1396	Quantum Nanophotonics in Two-Dimensional Materials. <i>ACS Photonics</i> , 2021, 8, 85-101.	3.2	83
1397	Creation of moiré bands in a monolayer semiconductor by spatially periodic dielectric screening. <i>Nature Materials</i> , 2021, 20, 645-649.	13.3	45
1398	Emerging 2D Materials Produced via Electrochemistry. <i>Advanced Materials</i> , 2020, 32, e1907857.	11.1	127
1399	Research development of 2D materials based photodetectors towards mid-infrared regime. <i>Nano Select</i> , 2021, 2, 527-540.	1.9	17
1400	Technological Realization of Polariton Systems. <i>Springer Series in Optical Sciences</i> , 2020, , 139-166.	0.5	3
1401	Simpler van der Waals Heterostructure-Twisted Bilayer Graphene. <i>Springer Theses</i> , 2020, , 53-62.	0.0	2
1402	How Magical Is Magic-Angle Graphene?. <i>Matter</i> , 2020, 2, 1106-1114.	5.0	21
1403	Tunable Second Harmonic Generation in Twisted Bilayer Graphene. <i>Matter</i> , 2020, 3, 1361-1376.	5.0	40
1404	The linear and non-linear optical absorption and asymmetrical electromagnetic interaction in chiral twisted bilayer graphene with hybrid edges. <i>Materials Today Physics</i> , 2020, 14, 100222.	2.9	52
1405	Topological carbon materials: A new perspective. <i>Physics Reports</i> , 2020, 868, 1-32.	10.3	42
1408	Spontaneous Formation of Moiré Patterns through Self-Assembly of Janus Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4542-4547.	2.1	6
1409	Spontaneous Folding Growth of Graphene on h-BN. <i>Nano Letters</i> , 2021, 21, 2033-2039.	4.5	11
1410	Direct Observation of Incommensurate-Commensurate Transition in Graphene-hBN Heterostructures via Optical Second Harmonic Generation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27758-27764.	4.0	10

#	ARTICLE	IF	CITATIONS
1411	Electronics tuned in twisted bilayer graphene. <i>Nature</i> , 2020, 583, 364-365.	13.7	7
1412	Atomic reconstruction in twisted bilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2020, 15, 592-597.	15.6	245
1413	Electronic structures and electron-phonon superconductivity of Nb ₂ C-based MXenes. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 485301.	1.3	9
1414	Revealing fermionic quantum criticality from new Monte Carlo techniques. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 463001.	0.7	30
1415	Anomalous thickness-dependent electrical conductivity in van der Waals layered transition metal halide, Nb ₃ Cl ₈ . <i>Journal of Physics Condensed Matter</i> , 2020, 32, 304004.	0.7	15
1416	Charge order and Mott insulating ground states in small-angle twisted bilayer graphene. <i>New Journal of Physics</i> , 2020, 22, 073016.	1.2	5
1417	Terahertz tunable optical dual-functional slow light reflector based on gold-graphene metamaterials. <i>New Journal of Physics</i> , 2020, 22, 123009.	1.2	24
1418	Raman and infrared spectra of complex low energy tetrahedral carbon allotropes from first-principles calculations. <i>Chinese Physics B</i> , 2020, 29, 093601.	0.7	3
1419	Electrostatic gating of solid-ion-conductor on InSe flakes and InSe/h-BN heterostructures*. <i>Chinese Physics B</i> , 2020, 29, 118501.	0.7	3
1420	Quantum anomalous Hall effect in twisted bilayer graphene quasicrystal*. <i>Chinese Physics B</i> , 2020, 29, 107101.	0.7	10
1421	A review of experimental advances in twisted graphene moiré superlattice*. <i>Chinese Physics B</i> , 2020, 29, 128104.	0.7	12
1422	Superconductivity in twisted multilayer graphene: A smoking gun in recent condensed matter physics. <i>Chinese Physics B</i> , 2020, 29, 117401.	0.7	10
1423	Density wave and topological superconductivity in the magic-angle-twisted bilayer-graphene. <i>Chinese Physics B</i> , 2020, 29, 127102.	0.7	7
1424	Correlations in the elastic Landau level of spontaneously buckled graphene. <i>2D Materials</i> , 2021, 8, 015011.	2.0	12
1425	An outlook into the flat land of 2D materials beyond graphene: synthesis, properties and device applications. <i>2D Materials</i> , 2021, 8, 013001.	2.0	32
1426	Interferences of electrostatic moiré potentials and bichromatic superlattices of electrons and excitons in transition metal dichalcogenides. <i>2D Materials</i> , 2021, 8, 025007.	2.0	17
1427	Moiré and beyond in transition metal dichalcogenide twisted bilayers. <i>2D Materials</i> , 2021, 8, 022002.	2.0	33
1428	Hartree theory calculations of quasiparticle properties in twisted bilayer graphene. <i>Electronic Structure</i> , 2020, 2, 034001.	1.0	39

#	ARTICLE	IF	CITATIONS
1429	Orbital order and possible non-Fermi liquid in moiré systems. Physical Review B, 2020, 101, .	1.1	8
1430	Band structure and insulating states driven by Coulomb interaction in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	94
1431	Quantum phase diagram of a Moiré-Hubbard model. Physical Review B, 2020, 102, .	1.1	73
1432	Strain-induced excitonic instability in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	12
1433	Moiré quantum chemistry: Charge transfer in transition metal dichalcogenide superlattices. Physical Review B, 2020, 102, .	1.1	85
1434	Ferromagnetism and its stability from the one-magnon spectrum in twisted bilayer graphene. Physical Review B, 2020, 102, .	1.1	30
1435	Flat-band topology of magic angle graphene on a transition metal dichalcogenide. Physical Review B, 2020, 102, .	1.1	13
1436	Charge transfer excitations, pair density waves, and superconductivity in moiré materials. Physical Review B, 2020, 102, .	1.1	44
1437	Parquet renormalization group analysis of weak-coupling instabilities with multiple high-order Van Hove points inside the Brillouin zone. Physical Review B, 2020, 102, .	1.1	27
1438	Valley- and spin-polarized broken-symmetry states of interacting electrons in gated MoS2 quantum dots. Physical Review B, 2020, 102, .	1.1	8
1439	Band flattening in buckled monolayer graphene. Physical Review B, 2020, 102, .	1.1	25
1440	Linear-in- T resistivity in dilute metals: A Fermi liquid perspective. Physical Review B, 2019, 99, .	1.1	37
1441	Determination of dynamical exponents of graphene at quantum critical point by holography. Physical Review D, 2020, 102, .	1.6	1
1442	Strange Metal in Magic-Angle Graphene with near Planckian Dissipation. Physical Review Letters, 2020, 124, 076801.	2.9	293
1443	Plasmonic Dirac Cone in Twisted Bilayer Graphene. Physical Review Letters, 2020, 125, 256804.	2.9	21
1444	Quantum Criticality in the 2D Quasiperiodic Potts Model. Physical Review Letters, 2020, 125, 265702.	2.9	5
1445	Temperonic Crystal: A Superlattice for Temperature Waves in Graphene. Physical Review Letters, 2020, 125, 265901.	2.9	35
1446	Spin-Orbit-Induced Topological Flat Bands in Line and Split Graphs of Bipartite Lattices. Physical Review Letters, 2020, 125, 266403.	2.9	43

#	ARTICLE	IF	CITATIONS
1447	Layer Pseudospin Dynamics and Genuine Non-Abelian Berry Phase in Inhomogeneously Strained Moiré Pattern. Physical Review Letters, 2020, 125, 266404.	2.9	9
1448	Theory of thin-film-mediated exfoliation of van der Waals bonded layered materials. Physical Review Materials, 2018, 2, .	0.9	18
1449	Intrinsic stacking domains in graphene on silicon carbide: A pathway for intercalation. Physical Review Materials, 2018, 2, .	0.9	27
1450	Magnetic noise from ultrathin abrasively deposited materials on diamond. Physical Review Materials, 2018, 2, .	0.9	10
1451	Emergence of flat-band magnetism and half-metallicity in twisted bilayer graphene. Physical Review Materials, 2019, 3, .	0.9	14
1452	Benchmarking van der Waals-treated DFT: The case of hexagonal boron nitride and graphene on Ir(111). Physical Review Materials, 2019, 3, .	0.9	12
1453	Defect-induced magnetism and Yu-Shiba-Rusinov states in twisted bilayer graphene. Physical Review Materials, 2019, 3, .	0.9	17
1454	Less-ordered structures of silicene on Ag(111) surface revealed by atomic force microscopy. Physical Review Materials, 2019, 3, .	0.9	6
1455	Working principles of doping-well structures for high-mobility two-dimensional electron systems. Physical Review Materials, 2020, 4, .	0.9	18
1456	Plasmonics in argentene. Physical Review Materials, 2020, 4, .	0.9	15
1457	Fluorine intercalated graphene: Formation of a two-dimensional spin lattice through pseudoatomization. Physical Review Materials, 2020, 4, .	0.9	3
1458	Theory of tunable flux lattices in the homobilayer moiré of twisted and uniformly strained transition metal dichalcogenides. Physical Review Materials, 2020, 4, .	0.9	20
1459	Exact continuum model for low-energy electronic states of twisted bilayer graphene. Physical Review Research, 2019, 1, .	1.3	186
1460	Topological Floquet engineering of twisted bilayer graphene. Physical Review Research, 2019, 1, .	1.3	56
1461	Derivation of Wannier orbitals and minimal-basis tight-binding Hamiltonians for twisted bilayer graphene: First-principles approach. Physical Review Research, 2019, 1, .	1.3	49
1462	Flat band in twisted bilayer Bravais lattices. Physical Review Research, 2019, 1, .	1.3	34
1463	Twisted bilayer graphene aligned with hexagonal boron nitride: Anomalous Hall effect and a lattice model. Physical Review Research, 2019, 1, .	1.3	146
1464	Designer fermion models in functionalized graphene bilayers. Physical Review Research, 2019, 1, .	1.3	4

#	ARTICLE	IF	CITATIONS
1465	Prominent Cooper pairing away from the Fermi level and its spectroscopic signature in twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	11
1466	Phonons in twisted transition-metal dichalcogenide bilayers: Ultrasoft phasons and a transition from a superlubric to a pinned phase. Physical Review Research, 2020, 2, .	1.3	45
1467	Impurity-scattering-induced carrier transport in twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	13
1468	Surface states and arcless angles in twisted Weyl semimetals. Physical Review Research, 2020, 2, .	1.3	13
1469	Emergence and stability of spin-valley entangled quantum liquids in moiré heterostructures. Physical Review Research, 2020, 2, .	1.3	21
1470	Emergent symmetries and coexisting orders in Dirac fermion systems. Physical Review Research, 2020, 2, .	1.3	11
1471	Three-dimensional topological twistrionics. Physical Review Research, 2020, 2, .	1.3	32
1472	Superconductivity from collective excitations in magic-angle twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	33
1473	Electronic structure of carbon nanotubes on graphene substrates. Physical Review Research, 2020, 2, .	1.3	8
1474	Spontaneous symmetry breaking in a honeycomb lattice subject to a periodic potential. Physical Review Research, 2020, 2, .	1.3	5
1475	Chern bands of twisted bilayer graphene: Fractional Chern insulators and spin phase transition. Physical Review Research, 2020, 2, .	1.3	90
1476	Mott phase in a van der Waals transition-metal halide at single-layer limit. Physical Review Research, 2020, 2, .	1.3	15
1477	Landau poles in condensed matter systems. Physical Review Research, 2020, 2, .	1.3	3
1478	Disorder in twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	56
1479	Electron pairing by Coulomb repulsion in narrow band structures. Physical Review Research, 2020, 2, .	1.3	4
1480	Time-reversal invariant topological superconductivity in planar Josephson junction. Physical Review Research, 2020, 2, .	1.3	5
1481	High-order nonlinear optical response of a twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	26
1482	Layer-dependent electronic and magnetic properties of NbTe_2 . Physical Review Research, 2020, 2, .	1.3	17

#	ARTICLE	IF	CITATIONS
1483	Pairing in graphene-based moiré superlattices. Physical Review Research, 2020, 2, .	1.3	40
1484	Quantum phase transition in the Yukawa-SYK model. Physical Review Research, 2020, 2, .	1.3	27
1485	Band topology, Hubbard model, Heisenberg model, and Dzyaloshinskii-Moriya interaction in twisted bilayer WSe_2 . Physical Review Research, 2020, 2, .	1.3	95
1486	Topological flat bands and correlated states in twisted monolayer-bilayer graphene. Physical Review Research, 2020, 2, .	1.3	24
1487	Duality between atomic configurations and Bloch states in twistrionic materials. Physical Review Research, 2020, 2, .	1.3	14
1488	Superconducting Kondo phase in an orbitally separated bilayer. Physical Review Research, 2020, 2, .	1.3	3
1489	Probing the wave functions of correlated states in magic angle graphene. Physical Review Research, 2020, 2, .	1.3	5
1490	Hofstadter butterfly and Floquet topological insulators in minimally twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	17
1491	Transport across twist angle domains in moiré graphene. Physical Review Research, 2020, 2, .	1.3	30
1492	Impurity-induced resonant spinon zero modes in Dirac quantum spin liquids. Physical Review Research, 2020, 2, .	1.3	12
1493	Floquet engineering of twisted double bilayer graphene. Physical Review Research, 2020, 2, .	1.3	28
1494	Optical imprinting of superlattices in two-dimensional materials. Physical Review Research, 2020, 2, .	1.3	10
1495	Structural relaxation and low-energy properties of twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	39
1496	Valley splitter and transverse valley focusing in twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	6
1497	Artificial graphene: Unconventional superconductivity in a honeycomb superlattice. Physical Review Research, 2020, 2, .	1.3	22
1498	Floquet-engineered topological flat bands in irradiated twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	21
1499	Optical Hall response of bilayer graphene: Manifestation of chiral hybridized states in broken mirror symmetry lattices. Physical Review Research, 2020, 2, .	1.3	5
1500	Moiré effects in graphene-hBN heterostructures. Physical Review Research, 2020, 2, .	1.3	9

#	ARTICLE	IF	CITATIONS
1501	Phase Separation in a Spin Density Wave State of Twisted Bilayer Graphene. JETP Letters, 2020, 112, 651-656.	0.4	3
1502	Tunable asymmetric spin splitting by black phosphorus sandwiched epsilon-near-zero-metamaterial in the terahertz region. Optics Express, 2019, 27, 15868.	1.7	24
1503	Photonic flat-band lattices and unconventional light localization. Nanophotonics, 2020, 9, 1161-1176.	2.9	56
1504	2D materials integrated with metallic nanostructures: fundamentals and optoelectronic applications. Nanophotonics, 2020, 9, 1877-1900.	2.9	36
1506	General continuum model for twisted bilayer graphene and arbitrary smooth deformations. SciPost Physics, 2019, 7, .	1.5	34
1507	Solvable lattice models for metals with Z2 topological order. SciPost Physics, 2019, 7, .	1.5	2
1508	Dimer description of the SU(4) antiferromagnet on the triangular lattice. SciPost Physics, 2020, 8, .	1.5	8
1509	DMRG study of strongly interacting \mathbb{Z}_2 flatbands: a toy model inspired by twisted bilayer graphene. SciPost Physics Core, 2020, 3, .	0.9	18
1510	Electronic structure, phonons, and high-temperature phonon-mediated superconductivity in lithium-intercalated diamond-like boron compounds. Applied Physics Express, 2020, 13, 083003.	1.1	3
1511	Topological properties of graphene moiré superlattice systems and recent optical studies. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 220303.	0.2	7
1512	Topological properties and orbital magnetism in twisted graphene systems. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 147301.	0.2	10
1513	Layered Dynamical Conductivity for a Transfer Matrix Method “Application to an (N) -layer Graphene”. Journal of the Physical Society of Japan, 2020, 89, 094706.	0.7	3
1514	High electron mobility and transverse negative magnetoresistance in van der Waals material Nb ₂ GeTe ₄ . Materials Chemistry Frontiers, 2021, 5, 8275-8280.	3.2	2
1515	Realization of nearly dispersionless bands with strong orbital anisotropy from destructive interference in twisted bilayer MoS ₂ . Nature Communications, 2021, 12, 5644.	5.8	57
1516	Correlated Insulating States and Transport Signature of Superconductivity in Twisted Trilayer Graphene Superlattices. Physical Review Letters, 2021, 127, 166802.	2.9	44
1517	Dichotomy of Electron-Phonon Coupling in Graphene Moiré Flat Bands. Physical Review Letters, 2021, 127, 167001.	2.9	35
1518	Geometric origins of topological insulation in twisted layered semiconductors. Physical Review B, 2021, 104, .	1.1	13
1519	Control of spin-charge conversion in van der Waals heterostructures. APL Materials, 2021, 9, .	2.2	20

#	ARTICLE	IF	CITATIONS
1520	Corrugation effect, Dirac cone splitting, and plasmon properties of biased twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	4
1521	Electrostatic interactions in twisted bilayer graphene. <i>Nano Materials Science</i> , 2022, 4, 27-35.	3.9	13
1522	Acoustic-Phonon-Mediated Superconductivity in Rhombohedral Trilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 187001.	2.9	47
1523	Interlayer Excitons in Transition Metal Dichalcogenide Semiconductors for 2D Optoelectronics. <i>Advanced Materials</i> , 2022, 34, e2107138.	11.1	28
1524	Topological charge pumping in quasiperiodic systems characterized by the Bott index. <i>Physical Review B</i> , 2021, 104, .	1.1	5
1525	Interlayer polarizability in twisted bilayer graphene quantum dots. <i>Physical Review B</i> , 2021, 104, .	1.1	5
1526	Electrically tunable Feshbach resonances in twisted bilayer semiconductors. <i>Science</i> , 2021, 374, 336-340.	6.0	15
1527	Steering on Degrees of Freedom of 2D Van der Waals Heterostructures. <i>Small Science</i> , 2022, 2, 2100033.	5.8	13
1528	Models and mountains. <i>Nature Physics</i> , 2021, 17, 1077-1078.	6.5	0
1529	Robust charge-density wave strengthened by electron correlations in monolayer 1T-TaSe2 and 1T-NbSe2. <i>Nature Communications</i> , 2021, 12, 5873.	5.8	39
1530	Control over Light Emission in Low- ϵ Refractive- ϵ Index Artificial Materials Inspired by Reciprocal Design. <i>Advanced Optical Materials</i> , 2022, 10, 2100785.	3.6	9
1531	Molecular dynamics simulations of ion beam irradiation on graphene/MoS2 heterostructure. <i>Scientific Reports</i> , 2021, 11, 21113.	1.6	6
1532	A Perspective on Collective Properties of Atoms on 2D Materials. <i>Advanced Electronic Materials</i> , 2022, 8, 2100607.	2.6	4
1533	Strong coupling theory of magic-angle graphene: A pedagogical introduction. <i>Annals of Physics</i> , 2021, 435, 168646.	1.0	27
1534	Tailoring the Band Structure of Twisted Double Bilayer Graphene with Pressure. <i>Nano Letters</i> , 2021, 21, 8777-8784.	4.5	19
1535	2D Bi2Se3 materials for optoelectronics. <i>IScience</i> , 2021, 24, 103291.	1.9	16
1536	Graphene Superconductivity at Room-Temperature of a Wide Range and Standard Atmosphere, Based on Vacuum Channels and White-Light Interferometry. <i>Advanced Electronic Materials</i> , 0, , 2100595.	2.6	0
1537	Macroscopically degenerate localized zero-energy states of quasicrystalline bilayer systems in the strong coupling limit. <i>Physical Review B</i> , 2021, 104, .	1.1	6

#	ARTICLE	IF	CITATIONS
1538	Electrochemical Exfoliation of 2D Advanced Carbon Derivatives. , 0, , .		4
1539	Superconductivity in twisted bilayer quasi-one-dimensional systems with flat bands. Physical Review B, 2021, 104, .	1.1	1
1540	Rippling Ferroic Phase Transition and Domain Switching In 2D Materials. Advanced Materials, 2021, 33, e2103469.	11.1	14
1541	Recent advances in 2D graphene reinforced metal matrix composites. Nanotechnology, 2022, 33, 062003.	1.3	0
1542	Optimized Colossal Near-Field Thermal Radiation Enabled by Manipulating Coupled Plasmon Polariton Geometry. Advanced Materials, 2021, 33, e2106097.	11.1	36
1543	Robust Interlayer Exciton in WS ₂ /MoSe ₂ van der Waals Heterostructure under High Pressure. Nano Letters, 2021, 21, 8035-8042.	4.5	30
1544	Flat band of Kagome lattice in graphene plasmonic crystals. Journal Physics D: Applied Physics, 2022, 55, 065106.	1.3	5
1545	Evidence for unconventional superconductivity in twisted bilayer graphene. Nature, 2021, 600, 240-245.	13.7	134
1546	How correlations change the magnetic structure factor of the kagome Hubbard model. Physical Review B, 2021, 104, .	1.1	11
1547	Dynamic Tuning of Moiré Excitons in a WSe ₂ /WS ₂ Heterostructure via Mechanical Deformation. Nano Letters, 2021, 21, 8910-8916.	4.5	15
1548	Review of fabrication methods, physical properties, and applications of twisted bilayer graphene. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 246802.	0.2	3
1549	Ultrafast Transition from Intra- to Interlayer Exciton Phases in a Van Der Waals Heterostructure. , 2019, , .		0
1550	Influence of neighboring layers on interfacial energy of adjacent layers. Chinese Journal of Chemical Physics, 2019, 32, 693-700.	0.6	0
1551	Quantum Spin Liquid in Organic Insulators and He^3 . Springer Tracts in Modern Physics, 2020, , 179-191.	0.1	0
1552	Novel phenomena in flatband photonic structures: from localized states to real-space topology. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 154207.	0.2	1
1555	Fabry-Pérot cavities and quantum dot formation at gate-defined interfaces in twisted double bilayer graphene. 2D Materials, 2022, 9, 014003.	2.0	2
1556	Band evolution and Landau-Zener Bloch oscillations in strained photonic rhombic lattices. Optics Express, 2021, 29, 37503.	1.7	4
1557	Observation of metallic electronic structure in a single-atomic-layer oxide. Nature Communications, 2021, 12, 6171.	5.8	26

#	ARTICLE	IF	CITATIONS
1559	Photoluminescent Semiconducting Graphene Nanoribbons via Longitudinally Unzipping Single-Walled Carbon Nanotubes. ACS Applied Materials & Interfaces, 2021, 13, 52892-52900.	4.0	10
1560	Magnetism of magic-angle twisted bilayer graphene. SciPost Physics, 2021, 11, .	1.5	13
1561	Topological materials discovery from crystal symmetry. Nature Reviews Materials, 2022, 7, 196-216.	23.8	65
1562	Developing Graphene-Based Moiré Heterostructures for Twistronics. Advanced Science, 2022, 9, e2103170.	5.6	21
1563	Electronic structures and band alignment transition in double-wall MoS ₂ /WS ₂ nanotubes for optoelectronic applications. Journal Physics D: Applied Physics, 2021, 54, 095105.	1.3	2
1564	Progress on band structure engineering of twisted bilayer and two-dimensional moiré heterostructures*. Chinese Physics B, 2020, 29, 127304.	0.7	8
1566	Clusterization transition between cluster Mott insulators on a breathing kagome lattice. Physical Review Research, 2020, 2, .	1.3	4
1567	Fractal non-Fermi liquids from moiré Hofstadter phonons. Physical Review B, 2020, 102, .	1.1	1
1568	Selecting "convenient observers"™ to probe the atomic structure of CVD graphene on Ir(111) via photoelectron diffraction. Journal of Physics Condensed Matter, 2021, 33, 105001.	0.7	3
1569	Van der Waals Integrated Silicon/Graphene/AlGaN Based Vertical Heterostructured Hot Electron Light Emitting Diodes. Nanomaterials, 2020, 10, 2568.	1.9	1
1570	Interference effects in one-dimensional moiré crystals. Carbon, 2022, 186, 416-422.	5.4	1
1571	Twister: Construction and structural relaxation of commensurate moiré superlattices. Computer Physics Communications, 2022, 271, 108184.	3.0	16
1572	The contact properties of bilayer tellurene/borophene van der Waals heterostructures with different Te orientations towards tunneling photodiode applications. Applied Surface Science, 2022, 574, 151637.	3.1	1
1573	Atomically Thin Materials. SpringerBriefs in Applied Sciences and Technology, 2020, , 1-10.	0.2	0
1574	Topological Fermion-Condensation Quantum Phase Transition. Springer Tracts in Modern Physics, 2020, , 49-69.	0.1	0
1576	Incommensurability-induced sub-ballistic narrow-band-states in twisted bilayer graphene. 2D Materials, 2022, 9, 011001.	2.0	9
1577	Promising Graphene-Based Nanomaterials and Their Biomedical Applications and Potential Risks: A Comprehensive Review. ACS Biomaterials Science and Engineering, 2021, 7, 5363-5396.	2.6	70
1578	Magic angle and plasmon mode engineering in twisted trilayer graphene with pressure. Physical Review B, 2021, 104, .	1.1	9

#	ARTICLE	IF	CITATIONS
1579	Twist the doorknob to open the electronic properties of graphene-based van der Waals structure. <i>Matter</i> , 2021, 4, 3444-3482.	5.0	12
1580	Probing 2D magnetism through electronic tunneling transport. <i>Materials and Design</i> , 2021, 212, 110235.	3.3	2
1581	Reentrant superconductivity through a quantum Lifshitz transition in twisted trilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	22
1582	Weak-Field Hall Resistivity and Spin-Valley Flavor Symmetry Breaking in Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 196401.	2.9	38
1583	Interaction-driven band flattening and correlated phases in twisted bilayer graphene. <i>Nature Physics</i> , 2021, 17, 1375-1381.	6.5	34
1584	Heterostrain-enabled dynamically tunable moiré superlattice in twisted bilayer graphene. <i>Scientific Reports</i> , 2021, 11, 21402.	1.6	16
1585	Quasiparticle band structures and optical properties of twisted bilayer MoS ₂ . <i>Europhysics Letters</i> , 0, .	0.7	1
1586	Network model and four-terminal transport in minimally twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	9
1587	Light-induced emergent phenomena in 2D materials and topological materials. <i>Nature Reviews Physics</i> , 2022, 4, 33-48.	11.9	94
1588	Competing Zero-Field Chern Insulators in Superconducting Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 197701.	2.9	80
1589	Pairing transition in a double layer with interlayer Coulomb repulsion. <i>Physical Review Research</i> , 2020, 2, .	1.3	4
1590	Strain engineering and stacking pattern tune the electrical conductivity of two-dimensional SiPS. <i>Semiconductor Science and Technology</i> , 2020, 35, 095012.	1.0	0
1591	Twistronics in graphene-based van der Waals structures. <i>Chinese Physics B</i> , 2020, 29, 117303.	0.7	23
1592	Electric field-induced chiral d + id superconductivity in AA-stacked bilayer graphene: a quantum Monte Carlo study. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 025601.	0.7	1
1593	Recent advances in the properties and synthesis of bilayer graphene and transition metal dichalcogenides. <i>JPhys Materials</i> , 2020, 3, 042003.	1.8	11
1594	Visualizing dissipative charge-carrier dynamics at the nanoscale with superconducting-charge-qubit microscopy. <i>Physical Review Research</i> , 2020, 2, .	1.3	2
1595	In pursuit of accurate interlayer potentials for twisted bilayer graphynes. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 27031-27041.	1.3	2
1596	Engineering of flat bands and Dirac bands in two-dimensional covalent organic frameworks (COFs): relationships among molecular orbital symmetry, lattice symmetry, and electronic-structure characteristics. <i>Materials Horizons</i> , 2022, 9, 88-98.	6.4	33

#	ARTICLE	IF	CITATIONS
1597	T-carbon: Experiments, properties, potential applications and derivatives. Nano Today, 2022, 42, 101346.	6.2	23
1598	Electrostatic potential and magnetic moment of radially insulating Corbino disk. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 137, 115049.	1.3	0
1599	Mott Insulating States with Competing Orders in the Triangular Lattice Hubbard Model. Physical Review X, 2021, 11, .	2.8	50
1600	Higher-order exceptional point and Landau-Zener Bloch oscillations in driven non-Hermitian photonic Lieb lattices. APL Photonics, 2021, 6, .	3.0	17
1601	TaCo ₂ Te ₂ : An Airy-Stable, High Mobility Van der Waals Material with Probable Magnetic Order. Advanced Functional Materials, 2022, 32, .	7.8	10
1602	Magic in twisted transition metal dichalcogenide bilayers. Nature Communications, 2021, 12, 6730.	5.8	109
1603	Thermal dynamics and electronic temperature waves in layered correlated materials. Nature Communications, 2021, 12, 6904.	5.8	7
1604	Correlation-Induced Triplet Pairing Superconductivity in Graphene-Based Moiré Systems. Physical Review Letters, 2021, 127, 217001.	2.9	25
1605	Topologically protected two-fluid edge states. Physical Review B, 2021, 104, .	1.1	0
1606	Monolayer 1T-NbSe ₂ as a 2D-correlated magnetic insulator. Science Advances, 2021, 7, eabi6339.	4.7	39
1607	Kondo lattice mediated interactions in flat-band systems. Physical Review Research, 2021, 3, .	1.3	6
1608	Recent progresses of quantum confinement in graphene quantum dots. Frontiers of Physics, 2022, 17, 1.	2.4	31
1609	Spin-valley locked instabilities in moiré transition metal dichalcogenides with conventional and higher-order Van Hove singularities. Physical Review B, 2021, 104, .	1.1	11
1610	Moiré circuits: Engineering magic-angle behavior. Physical Review B, 2021, 104, .	1.1	10
1611	Recent Developments in van der Waals Antiferromagnetic 2D Materials: Synthesis, Characterization, and Device Implementation. ACS Nano, 2021, 15, 17175-17213.	7.3	57
1612	Mid-infrared photonics and optoelectronics in 2D materials. Materials Today, 2021, 51, 294-316.	8.3	28
1613	High-Throughput Screening of Two-Dimensional Planar sp ² Carbon Space Associated with a Labeled Quotient Graph. Journal of Physical Chemistry Letters, 2021, 12, 11511-11519.	2.1	34
1614	Robust Quantum Oscillation of Dirac Fermions in a Single-Defect Resonant Transistor. ACS Nano, 2021, 15, 20013-20019.	7.3	6

#	ARTICLE	IF	CITATIONS
1615	Unraveling energy and charge transfer in type-II van der Waals heterostructures. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	16
1616	Quantum dot-like plasmonic modes in twisted bilayer graphene supercells. <i>2D Materials</i> , 2022, 9, 014004.	2.0	7
1617	Microwave impedance microscopy and its application to quantum materials. <i>Nature Reviews Physics</i> , 2022, 4, 61-74.	11.9	28
1618	Evidence for increased metallicity arising from carbon-sulfur bonding and amorphization effects in sulfur-doped pyrolytic graphite. <i>Diamond and Related Materials</i> , 2022, 121, 108729.	1.8	2
1619	Modification of the Magnetic and Electronic Properties of the Grapheneâ€Ni(111) Interface via Halogens Intercalation. <i>Advanced Theory and Simulations</i> , 0, , 2100319.	1.3	1
1620	Synthesis of bilayer borophene. <i>Nature Chemistry</i> , 2022, 14, 25-31.	6.6	105
1621	A full gap above the Fermi level: the charge density wave of monolayer VS ₂ . <i>Nature Communications</i> , 2021, 12, 6837.	5.8	16
1622	Excellent HER and OER Catalyzing Performance of Seâ€Vacancies in Defectsâ€Engineered PtSe ₂ : From Simulation to Experiment. <i>Advanced Energy Materials</i> , 2022, 12, 2102359.	10.2	59
1623	Band manipulation and spin texture in interacting moirÃ© helical edges. <i>Physical Review B</i> , 2021, 104, .	1.1	3
1624	Interlayer Interactions in 1D Van der Waals MoirÃ© Superlattices. <i>Advanced Science</i> , 2022, 9, e2103460.	5.6	11
1625	Magic angles and flat Chern bands in alternating-twist multilayer graphene system. <i>Journal of Materials Science and Technology</i> , 2022, 111, 28-34.	5.6	7
1626	Field-Dependent Band Structure Measurements in Two-Dimensional Heterostructures. <i>Nano Letters</i> , 2021, , .	4.5	2
1627	Twist engineering of the two-dimensional magnetism in double bilayer chromium triiodide homostructures. <i>Nature Physics</i> , 2022, 18, 30-36.	6.5	62
1628	Opportunities in electrically tunable 2D materials beyond graphene: Recent progress and future outlook. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	26
1629	MoirÃ© flat bands in twisted 2D hexagonal vdW materials. <i>2D Materials</i> , 2022, 9, 014005.	2.0	10
1630	Competing magnetic states in transition metal dichalcogenide moirÃ© materials. <i>Physical Review B</i> , 2021, 104, .	1.1	27
1631	Sliding ferroelectricity in 2D van der Waals materials: Related physics and future opportunities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	83
1632	Tight-binding approximation for bilayer graphene and nanotube structures: From commensurability to incommensurability between the layers. <i>Physical Review B</i> , 2022, 105, .	1.1	0

#	ARTICLE	IF	CITATIONS
1633	First-principles study on the heterostructure of twisted graphene/hexagonal boron nitride/graphene sandwich structure. Journal of Physics Condensed Matter, 2022, 34, 125504.	0.7	5
1634	In-situ twistable bilayer graphene. Scientific Reports, 2022, 12, 204.	1.6	12
1635	Imaging moiré deformation and dynamics in twisted bilayer graphene. Nature Communications, 2022, 13, 70.	5.8	16
1636	Phonon-assisted Interfacial Charge Transfer Excitons in Graphene/h-BN van der Waals Heterostructures. Chinese Journal of Physics, 2022, 76, 110-120.	2.0	2
1637	Piezo-phototronic intersubband terahertz devices based on layer-dependent van der Waals quantum well. Nano Energy, 2022, 94, 106912.	8.2	6
1638	Periodic Evolution of the Out-of-Phase Dipole and the Single-Charged Vortex Solitons in Periodic Photonic Moiré Lattice with Saturable Self-Focusing Nonlinearity Media. SSRN Electronic Journal, 0, , .	0.4	0
1640	The Sensitive Energy Band Structure and the Spiral Current in Helical Graphenes. SSRN Electronic Journal, 0, , .	0.4	0
1642	Twist-angle two-dimensional superlattices and their application in (opto)electronics. Journal of Semiconductors, 2022, 43, 011001.	2.0	10
1643	Out-of-equilibrium criticalities in graphene superlattices. Science, 2022, 375, 430-433.	6.0	34
1644	Probing three-state Potts nematic fluctuations by ultrasound attenuation. Physical Review B, 2022, 105, .	1.1	3
1645	Moiré Superlattice Effects and Band Structure Evolution in Near-30-Degree Twisted Bilayer Graphene. ACS Nano, 2022, 16, 1954-1962.	7.3	6
1646	Spin-Polarized Nematic Order, Quantum Valley Hall States, and Field-Tunable Topological Transitions in Twisted Multilayer Graphene Systems. Physical Review Letters, 2022, 128, 026403.	2.9	14
1647	Topological invariants in two-dimensional quasicrystals. Physical Review Research, 2022, 4, .	1.3	11
1648	Enhancement of pairing correlations due to nearly flat bands in the plaquette-Lieb Hubbard model. International Journal of Modern Physics C, 0, , .	0.8	0
1649	Moiré engineering of spin-orbit coupling in twisted platinum diselenide. Electronic Structure, 2022, 4, 014004.	1.0	8
1650	Valley-Polarized Quantum Anomalous Hall State in Moiré MoTe_2 Heterobilayers. Physical Review Letters, 2022, 128, 026402.	2.9	18
1651	Dirac Magic and Lifshitz Transitions in AA-Stacked Twisted Multilayer Graphene. Physical Review Letters, 2022, 128, 026404.	2.9	7
1652	Anisotropic 2D materials for post-Moore photoelectric devices. Journal of Semiconductors, 2022, 43, 010201.	2.0	6

#	ARTICLE	IF	CITATIONS
1653	Superlattice in a Ru superstructure for enhancing hydrogen evolution. <i>Angewandte Chemie</i> , 0, , .	1.6	5
1654	Square-Net Topological Semimetals: How Spectroscopy Furthers Understanding and Control. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 838-850.	2.1	5
1655	Identifying the Transition Order in an Artificial Ferroelectric van der Waals Heterostructure. <i>Nano Letters</i> , 2022, 22, 1265-1269.	4.5	23
1656	Nanoscale Control of One-Dimensional Confined States in Strongly Correlated Homojunctions. <i>Nano Letters</i> , 2022, 22, 1190-1197.	4.5	10
1657	Orientated Growth of Ultrathin Tellurium by van der Waals Epitaxy. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	7
1658	Frustrated magnetic interactions in a cyclacene crystal. <i>Physical Review Materials</i> , 2022, 6, .	0.9	3
1659	Nearly free phonons in a weak soliton potential and the case of twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	0
1660	Correlation-driven electron-hole asymmetry in graphene field effect devices. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	6
1661	Chiral valley phonons and flat phonon bands in moiré materials. <i>Physical Review B</i> , 2022, 105, .	1.1	10
1662	Localization and Criticality in Antiblockaded Two-Dimensional Rydberg Atom Arrays. <i>Physical Review Letters</i> , 2022, 128, 013603.	2.9	10
1663	Stacking order and Coulomb correlation effect in the layered charge density wave phase of $1T\bar{a}NbS_2$. <i>Physical Review B</i> , 2022, 105, .	1.1	13
1664	Magnetoconductance modulations due to interlayer tunneling in radial superlattices. <i>Nanoscale Horizons</i> , 2022, 7, 168-173.	4.1	0
1665	Stochastic many-body calculations of moiré states in twisted bilayer graphene at high pressures. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	18
1666	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate. <i>Nature Materials</i> , 2022, 21, 740-747.	13.3	92
1667	Tunable Orbital Ferromagnetism at Noninteger Filling of a Moiré Superlattice. <i>Nano Letters</i> , 2022, 22, 238-245.	4.5	17
1668	On electrically tunable stacking domains and ferroelectricity in moiré superlattices. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	3.9	22
1669	Correlated States of 2D Electrons near the Landau Level Filling $\nu = 1/2$. <i>Physical Review Letters</i> , 2022, 128, 026802.	2.9	8
1670	Moiré patterns and carbon nanotube sorting. <i>Nano Futures</i> , 2022, 6, 015005.	1.0	1

#	ARTICLE	IF	CITATIONS
1671	Vacancy-engineered flat-band superconductivity in holey graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	9
1672	Scanning probe analysis of twisted graphene grown on a graphene/silicon carbide template. <i>Nanotechnology</i> , 2022, 33, 155603.	1.3	4
1673	Steering the current flow in twisted bilayer graphene. <i>JPhys Materials</i> , 2022, 5, 024003.	1.8	1
1674	Spin-orbit coupling proximity effect in MoS ₂ /Fe ₃ GeTe ₂ heterostructures. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	11
1675	Tuning Magnetic Order in CrI ₃ Bilayers via Moiré Patterns. <i>Advanced Theory and Simulations</i> , 0, , 2100307.	1.3	4
1676	Moiré graphene nanoribbons: nearly perfect absorptions and highly efficient reflections with wide angles. <i>Optics Express</i> , 2022, 30, 2219.	1.7	7
1677	Atom scattering as a probe of the surface electron-phonon interaction at conducting surfaces. <i>Surface Science Reports</i> , 2022, 77, 100552.	3.8	5
1678	Superlattice in a Ru Superstructure for Enhancing Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	62
1679	Excitonic devices with van der Waals heterostructures: valleytronics meets twistrionics. <i>Nature Reviews Materials</i> , 2022, 7, 449-464.	23.3	94
1680	Super-Klein tunneling and electron-beam collimation in the honeycomb superlattice. <i>Physical Review B</i> , 2022, 105, .	1.1	4
1681	Moiré Physics of One-Dimensional Related Systems and Their Measurement. <i>Journal of Physics: Conference Series</i> , 2022, 2152, 012035.	0.3	0
1682	Non-covalent interactions of graphene surface: Mechanisms and applications. <i>CheM</i> , 2022, 8, 947-979.	5.8	29
1683	Interfacial charge and energy transfer in van der Waals heterojunctions. <i>Informa-Materially</i> , 2022, 4, .	8.5	48
1684	Spin-orbit-driven ferromagnetism at half moiré filling in magic-angle twisted bilayer graphene. <i>Science</i> , 2022, 375, 437-441.	6.0	61
1685	The fabrication and physical properties of two-dimensional van der Waals heterostructures. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 048502.	0.2	2
1686	Control of ultrafast photocurrent in twisted bilayer graphene by circularly polarized few-cycle lasers. <i>Physical Review B</i> , 2022, 105, .	1.1	4
1687	Density functional theory method for twisted geometries with application to torsional deformations in group-IV nanotubes. <i>Journal of Computational Physics</i> , 2022, 456, 111023.	1.9	6
1688	Unconventional superconductivity in magic-angle twisted trilayer graphene. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	35

#	ARTICLE	IF	CITATIONS
1689	Reproducibility in the fabrication and physics of moiré materials. <i>Nature</i> , 2022, 602, 41-50.	13.7	97
1690	Designing spin-textured flat bands in twisted graphene multilayers via helimagnet encapsulation. <i>2D Materials</i> , 2022, 9, 024002.	2.0	3
1691	Josephson effects in twisted cuprate bilayers. <i>Physical Review B</i> , 2022, 105, .	1.1	27
1692	Raman spectra of twisted bilayer graphene close to the magic angle. <i>2D Materials</i> , 2022, 9, 025007.	2.0	12
1693	Mechanistic study of graphene reinforcement of rheological performance of recycled polyethylene modified asphalt: A new observation from molecular dynamics simulation. <i>Construction and Building Materials</i> , 2022, 320, 126263.	3.2	30
1694	Evolution between quantum Hall and conducting phases: Simple models and some results. <i>Physical Review B</i> , 2022, 105, .	1.1	2
1695	Evaluation local strain of twisted bilayer graphene via moiré pattern. <i>Optics and Lasers in Engineering</i> , 2022, 152, 106946.	2.0	10
1696	Construction of novel two-dimensional materials and heterostructures in ultra-high vacuum. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	0
1697	Opportunities for Ultrathin 2D Catalysts in Promoting CO ₂ Photoreduction. <i>Inorganic Materials Series</i> , 2022, , 65-149.	0.5	1
1698	Strain Engineering of Low-Dimensional Materials for Emerging Quantum Phenomena and Functionalities. <i>Advanced Materials</i> , 2023, 35, e2107362.	11.1	21
1699	Higher-order Van Hove singularity in magic-angle twisted trilayer graphene. <i>Physical Review Research</i> , 2022, 4, .	1.3	19
1700	Second-harmonic generation in atomically thin C_2N_2 and its possible origin from charge density wave transitions. <i>Physical Review B</i> , 2022, 105, .		
1701	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges. <i>Chemical Reviews</i> , 2022, 122, 6514-6613.	23.0	187
1702	Proximity-driven ferromagnetism and superconductivity in the triangular Rashba-Hubbard model. <i>Physical Review B</i> , 2022, 105, .	1.1	6
1703	Degradation of Phonons in Disordered Moiré Superlattices. <i>Physical Review Letters</i> , 2022, 128, 065901.	2.9	15
1704	Gapping Fragile Topological Bands by Interactions. <i>Physical Review Letters</i> , 2022, 128, 056801.	2.9	4
1706	Gate-defined wires in twisted bilayer graphene: From electrical detection of intervalley coherence to internally engineered Majorana modes. <i>Physical Review B</i> , 2022, 105, .	1.1	8
1707	Nonlinear intensity dependence of photogalvanics and photoconductance induced by terahertz laser radiation in twisted bilayer graphene close to magic angle. <i>Physical Review Materials</i> , 2022, 6, .	0.9	5

#	ARTICLE	IF	CITATIONS
1708	Cavity magnon-polaritons in cuprate parent compounds. <i>Physical Review Research</i> , 2022, 4, .	1.3	22
1709	Superconductivity in graphite-diamond hybrid. <i>Materials Today Physics</i> , 2022, 23, 100630.	2.9	7
1710	One-€ Interlayer-€ Twisted Multilayer MoS ₂ Moiré Superlattices. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	16
1711	In Situ Atomistic Insight into Magnetic Metal Diffusion across Bi _{0.5} Sb _{1.5} Te ₃ Quintuple Layers. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	0
1712	Transport in Twisted Crystalline Charge Transfer Complexes. <i>Chemistry of Materials</i> , 2022, 34, 1778-1788.	3.2	19
1713	SU(4) Fluctuation Interference Mechanism for Nematic Order in Magic-Angle Twisted Bilayer Graphene: The Room-Temperature Ferroelectricity in $\text{K}^{\text{+}}\text{Mn}^{\text{2+}}\text{O}_2$. <i>Physical Review Letters</i> , 2022, 128, 067601.	2.9	13
1714	$T \propto \mu_0^2$ - Multilayers. <i>Physical Review Letters</i> , 2022, 128, 067601.	2.9	52
1715	Optical coherent injection of carrier and current in twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	5
1716	Deep Elastic Strain Engineering of 2D Materials and Their Twisted Bilayers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 8655-8663.	4.0	16
1717	<i>Ab initio</i> theory of magnetism in two-dimensional d^2 <i>Physical Review B</i> , 2022, 105, .	1.1	10
1718	Scattering between Minivalleys in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , 2022, 128, 057702.	2.9	11
1719	A Scalable Network Model for Electrically Tunable Ferroelectric Domain Structure in Twistrionic Bilayers of Two-Dimensional Semiconductors. <i>Nano Letters</i> , 2022, 22, 1534-1540.	4.5	15
1720	Correlation-induced d -wave pairing in a quantum dot square lattice. <i>Physical Review B</i> , 2021, 104, .	1.1	4
1721	Fractional Chern insulators in magic-angle twisted bilayer graphene. <i>Nature</i> , 2021, 600, 439-443.	13.7	158
1722	Higher-order topological superconductivity from repulsive interactions in kagome and honeycomb systems. <i>2D Materials</i> , 2022, 9, 015031.	2.0	27
1723	Twisted charge-density-wave patterns in bilayer 2D crystals and modulated electronic states. <i>2D Materials</i> , 2022, 9, 014007.	2.0	11
1724	Exact Landau Level Description of Geometry and Interaction in a Flatband. <i>Physical Review Letters</i> , 2021, 127, 246403.	2.9	56
1725	Unconventional Superconductivity in Systems with Annular Fermi Surfaces: Application to Rhombohedral Trilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 247001.	2.9	48

#	ARTICLE	IF	CITATIONS
1726	SU(4) Chiral Spin Liquid, Exciton Supersolid, and Electric Detection in Moiré Bilayers. Physical Review Letters, 2021, 127, 247701.	2.9	39
1727	Cascades between Light and Heavy Fermions in the Normal State of Magic-Angle Twisted Bilayer Graphene. Physical Review Letters, 2021, 127, 266402.	2.9	44
1728	Locking of skyrmion cores on a centrosymmetric discrete lattice: Onsite versus offsite. Physical Review Research, 2021, 3, .	1.3	24
1729	Kekulé Spiral Order at All Nonzero Integer Fillings in Twisted Bilayer Graphene. Physical Review X, 2021, 11, .	2.8	47
1730	The Novel Electric Properties Induced by Flat Bands in Twisted Two-dimensional Quantum Materials. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
1731	Non-Isothermal Crystallization Kinetics of Graphene/PA10T Composites. SSRN Electronic Journal, 0, , .	0.4	0
1732	Moiré bands in twisted trilayer black phosphorene: effects of pressure and electric field. Nanoscale, 2022, 14, 3758-3767.	2.8	4
1733	Defects in graphene-based heterostructures: topological and geometrical effects. RSC Advances, 2022, 12, 6772-6782.	1.7	16
1734	Charge transport through single-molecule bilayer-graphene junctions with atomic thickness. Chemical Science, 2022, 13, 5854-5859.	3.7	9
1735	Twist-angle-controlled neutral exciton annihilation in WS ₂ homostructures. Nanoscale, 2022, 14, 5537-5544.	2.8	4
1736	Pressure-stabilized graphene-like P layer in superconducting LaP ₂ . Physical Chemistry Chemical Physics, 2022, 24, 6469-6475.	1.3	5
1737	A review of electronic band structure and low temperature transport based on molybdenum disulfide. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
1738	Flat bands and related novel quantum states in two-dimensional systems. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 127302.	0.2	3
1739	Engineering of the Properties of Low Dimensional Materials via Inhomogeneous Strain. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0
1740	Devices and defects in two-dimensional materials: outlook and perspectives. , 2022, , 339-401.		1
1741	Phonon-mediated superconductivity in two-dimensional hydrogenated phosphorus carbide: HPC ₃ . Physical Chemistry Chemical Physics, 2022, 24, 9256-9262.	1.3	19
1742	New progress and prospects of mechanical exfoliation technology of two-dimensional materials. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 108201.	0.2	1
1743	Quantum Monte Carlo study of strongly correlated electrons. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 127101.	0.2	3

#	ARTICLE	IF	CITATIONS
1744	Detection of dielectric screening effect by excitons in two-dimensional semiconductors and its application. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 127102.	0.2	2
1745	Electron transport study on the epitaxial bilayer graphene grown on SiC substrate. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	0
1746	Conductivity of two-dimensional narrow gap semiconductors subjected to strong Coulomb disorder. <i>Physical Review B</i> , 2022, 105, .	1.1	8
1747	Sieve of Eratosthenes for Bose-Einstein condensates in optical moiré lattices. <i>Physical Review A</i> , 2022, 105, .	1.0	1
1748	Fermi Level Pinning Dependent 2D Semiconductor Devices: Challenges and Prospects. <i>Advanced Materials</i> , 2022, 34, e2108425.	11.1	80
1749	Planar Heterojunction of Ultrathin CrTe ₃ and CrTe ₂ van der Waals Magnet. <i>ACS Nano</i> , 2022, 16, 4348-4356.	7.3	10
1750	Bulk Superlattice Analogues for Energy Conversion. <i>Journal of the American Chemical Society</i> , 2022, 144, 3298-3313.	6.6	11
1751	Superconductivity from repulsive interactions in rhombohedral trilayer graphene: A Kohn-Luttinger-like mechanism. <i>Physical Review B</i> , 2022, 105, .	1.1	35
1752	A perspective on optimizing photoelectric conversion process in 2D transition-metal dichalcogenides and related heterostructures. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	9
1753	Rotation induced symmetry change of friction coefficient of water on graphene/h-BN heterostructures. <i>Applied Physics Letters</i> , 2022, 120, 084103.	1.5	1
1754	High pressure induced secondary and tertiary gaps in relaxed graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2022, 105, .	1.1	2
1755	Are Heavy Fermion Strange Metals Planckian?. <i>Crystals</i> , 2022, 12, 251.	1.0	16
1756	Ferromagnetism in armchair graphene nanoribbon heterostructures. <i>Physical Review B</i> , 2022, 105, .	1.1	3
1757	Superfluid Weight Bounds from Symmetry and Quantum Geometry in Flat Bands. <i>Physical Review Letters</i> , 2022, 128, 087002.	2.9	26
1758	Tunable angle-dependent electrochemistry at twisted bilayer graphene with moiré flat bands. <i>Nature Chemistry</i> , 2022, 14, 267-273.	6.6	51
1759	Flat-Band-Induced Anomalous Anisotropic Charge Transport and Orbital Magnetism in Kagome Metal CoSn. <i>Physical Review Letters</i> , 2022, 128, 096601.	2.9	22
1760	Bound on resistivity in flat-band materials due to the quantum metric. <i>Physical Review B</i> , 2022, 105, .	1.1	21
1761	Controlling exciton-exciton annihilation in WSe ₂ bilayers via interlayer twist. <i>Nano Research</i> , 2022, 15, 4661-4667.	5.8	6

#	ARTICLE	IF	CITATIONS
1762	Isospin order in superconducting magic-angle twisted trilayer graphene. <i>Nature Physics</i> , 2022, 18, 522-527.	6.5	27
1763	Designing Ultra-flat Bands in Twisted Bilayer Materials at Large Twist Angles: Theory and Application to Two-Dimensional Indium Selenide. <i>Journal of the American Chemical Society</i> , 2022, 144, 3949-3956.	6.6	19
1764	Stacking and Twisting of Layered Materials Enabled by Screw Dislocations and Non-Euclidean Surfaces. <i>Accounts of Materials Research</i> , 2022, 3, 369-378.	5.9	13
1765	Engineering Proximity Exchange by Twisting: Reversal of Ferromagnetic and Emergence of Antiferromagnetic Dirac Bands in Graphene/Cr ₂ Br ₂ . <i>Physical Review Letters</i> , 2022, 128, 106401.	2.9	18
1766	Recent Advances in Moiré Superlattice Structures of Twisted Bilayer and Multilayer Graphene. <i>Chinese Physics Letters</i> , 2022, 39, 037301.	1.3	2
1767	Scalable Moiré Lattice with Oriented TMD Monolayers. <i>Nanoscale Research Letters</i> , 2022, 17, 34.	3.1	2
1768	Breakdown of semiclassical description of thermoelectricity in near-magic angle twisted bilayer graphene. <i>Nature Communications</i> , 2022, 13, 1522.	5.8	12
1769	Nonsymmorphic symmetry-protected band crossings in a square-net metal PtPb ₄ . <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	10
1770	Twisted photovoltaics at terahertz frequencies from momentum shift current. <i>Physical Review Research</i> , 2022, 4, .	1.3	15
1771	Momentum-space gravity from the quantum geometry and entropy of Bloch electrons. <i>Physical Review Research</i> , 2022, 4, .	1.3	8
1772	Theoretical study of broadband near-field optical spectrum of twisted bilayer graphene. <i>Frontiers of Physics</i> , 2022, 17, 1.	2.4	0
1773	Accurate tight-binding model for twisted bilayer graphene describes topological flat bands without geometric relaxation. <i>Physical Review B</i> , 2022, 105, .	1.1	9
1774	The resurrection of tellurium as an elemental two-dimensional semiconductor. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	3.9	36
1775	Magnon-Coupled Intralayer Moiré Trion in Monolayer Semiconductor Antiferromagnet Heterostructures. <i>Advanced Materials</i> , 2022, 34, e2200301.	11.1	7
1776	Excitons in semiconductor moiré superlattices. <i>Nature Nanotechnology</i> , 2022, 17, 227-238.	15.6	105
1777	Inhibition and Reconstruction of Zener Tunneling in Photonic Honeycomb Lattices. <i>Advanced Materials</i> , 2022, 34, e2110044.	11.1	4
1778	Spectroscopic Visualization of Flat Bands in Magic-Angle Twisted Monolayer-Bilayer Graphene: Coexistence of Localization and Delocalization. <i>Physical Review Letters</i> , 2022, 128, 126401.	2.9	15
1779	Two-dimensional weak topological insulators in inversion-symmetric crystals. <i>Physical Review B</i> , 2022, 105, .	1.1	7

#	ARTICLE	IF	CITATIONS
1780	Fermionic Monte-Carlo Study of a Realistic Model of Twisted Bilayer Graphene. <i>Physical Review X</i> , 2022, 12, .	2.8	31
1781	Tunable band gap in twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	4
1782	TMDs as a platform for spin liquid physics: A strong coupling study of twisted bilayer WSe ₂ . <i>APL Materials</i> , 2022, 10, .	2.2	19
1783	Two-dimensional ferromagnetism detected by proximity-coupled quantum Hall effect of graphene. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	11
1784	Challenges and opportunities in 2D heterostructures for electronic and optoelectronic devices. <i>IScience</i> , 2022, 25, 103942.	1.9	38
1785	In-plane orbital magnetization as a probe for symmetry breaking in strained twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	4
1786	Environmental effects on layer-dependent dynamics of Dirac fermions in quasicrystalline bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	3
1787	Interlayer hybridization in graphene quasicrystal and other bilayer graphene systems. <i>Physical Review B</i> , 2022, 105, .	1.1	4
1788	Transition-metal hydroxide nanosheets with peculiar double-layer structures as efficient electrocatalysts. <i>Chem Catalysis</i> , 2022, 2, 867-882.	2.9	10
1789	Molding 2D Exciton Flux toward Room Temperature Excitonic Devices. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	2
1790	Controllable Preparation of 2D Vertical van der Waals Heterostructures and Superlattices for Functional Applications. <i>Small</i> , 2022, 18, e2107059.	5.2	15
1791	Acoustic-phonon-mediated superconductivity in Bernal bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	27
1792	Spectroscopy signatures of electron correlations in a trilayer graphene/hBN moiré superlattice. <i>Science</i> , 2022, 375, 1295-1299.	6.0	30
1793	Nonunitary multiorbital superconductivity from competing interactions in Dirac materials. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
1794	Inherited topological superconductivity in two-dimensional Dirac semimetals. <i>Physical Review B</i> , 2022, 105, .	1.1	3
1795	Moiré-induced band-gap opening in one-dimensional superlattices of carbon nanotubes on hexagonal boron nitride. <i>Physical Review B</i> , 2022, 105, .	1.1	1
1796	Twisted 2D electronic and photonic materials and devices. <i>Applied Physics Letters</i> , 2022, 120, 130401.	1.5	0
1797	Strain induced topological transitions in twisted double bilayer graphene. <i>Frontiers of Physics</i> , 2022, 17, 1.	2.4	6

#	ARTICLE	IF	CITATIONS
1816	Magic-angle magnonic nanocavity in a magnetic moiré superlattice. <i>Physical Review B</i> , 2022, 105, .	1.1	11
1817	Ultrafast control of moiré pseudo-electromagnetic field in homobilayer semiconductors. <i>Natural Sciences</i> , 2022, 2, .	1.0	3
1819	The sensitive energy band structure and the spiral current in helical graphenes. <i>Results in Physics</i> , 2022, 35, 105351.	2.0	4
1820	Atomistic Hartree theory of twisted double bilayer graphene near the magic angle. <i>Electronic Structure</i> , 2022, 4, 025001.	1.0	4
1821	On the Mechanism Controlling the Relative Orientation of Graphene Bi-Layers. <i>Symmetry</i> , 2022, 14, 719.	1.1	1
1822	Science of 2.5 dimensional materials: paradigm shift of materials science toward future social innovation. <i>Science and Technology of Advanced Materials</i> , 2022, 23, 275-299.	2.8	32
1823	Magnetic proximity effect at the interface of two-dimensional materials and magnetic oxide insulators. <i>Journal of Alloys and Compounds</i> , 2022, 911, 164830.	2.8	6
1824	Non-invasive digital etching of van der Waals semiconductors. <i>Nature Communications</i> , 2022, 13, 1844.	5.8	8
1825	Dynamics of Interfacial Bubble Controls Adhesion Mechanics in Van der Waals Heterostructure. <i>Nano Letters</i> , 2022, 22, 3612-3619.	4.5	4
1826	Twisted graphene stabilized by organic linkers pillaring. <i>Nanotechnology</i> , 2022, 33, 26LT01.	1.3	0
1827	Correlated States in Strained Twisted Bilayer Graphenes Away from the Magic Angle. <i>Nano Letters</i> , 2022, 22, 3204-3211.	4.5	15
1828	Broken-symmetry states at half-integer band fillings in twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 639-643.	6.5	17
1829	Superconductivity in high- T_c and related strongly correlated systems from variational perspective: Beyond mean field theory. <i>Physics Reports</i> , 2022, 959, 1-117.	10.3	14
1830	Extreme structure and spontaneous lift of spin degeneracy in doped perforated bilayer graphenes. <i>Carbon</i> , 2022, 192, 61-70.	5.4	6
1831	Formation of cavity resonance states in twisted bilayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 141, 115219.	1.3	0
1832	Influence of numerous Moiré superlattices on transport properties of twisted multilayer graphene. <i>Carbon</i> , 2022, 194, 52-61.	5.4	6
1833	Giant nonlinear Hall effect in twisted bilayer WTe ₂ . <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	22
1834	Moiré nematic phase in twisted double bilayer graphene. <i>Nature Physics</i> , 2022, 18, 196-202.	6.5	51

#	ARTICLE	IF	CITATIONS
1835	Theory of Correlated Insulators and Superconductivity in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 247703.	2.9	24
1836	Electronic structures at the interface between LiNbO_3 and the metal electrodes: first-principles calculation. <i>Ferroelectrics</i> , 2021, 585, 52-61.	0.3	0
1837	Twisted van der Waals Josephson Junction Based on a High- T_c Superconductor. <i>Nano Letters</i> , 2021, 21, 10469-10477.	4.5	22
1838	Band structures and topological properties of twisted bilayer MoTe_2 and WSe_2 . <i>Physica Scripta</i> , 2021, 96, 125874.	1.2	5
1839	Electron pairing with gapless excitations in mixed double layers. <i>Physical Review B</i> , 2021, 104, .	1.1	1
1840	A perspective of twisted photonic structures. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	23
1841	Emergence and Tuning of Multiple Flat Bands in Twisted Bilayer $\hat{\Gamma}^3$ -Graphyne. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 12283-12291.	2.1	3
1842	Visualizing band structure hybridization and superlattice effects in twisted MoS_2/WS_2 heterobilayers. <i>2D Materials</i> , 2022, 9, 015032.	2.0	9
1843	Optical and magnetic control of orbital flat bands in a polariton Lieb lattice. <i>Physical Review A</i> , 2021, 104, .	1.0	1
1844	Electronic transport properties and quantum localization effects monitored by selective functionalization in Bernal bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	1
1845	Mott insulator of strongly interacting two-dimensional semiconductor excitons. <i>Nature Physics</i> , 2022, 18, 149-153.	6.5	19
1846	Strange Metals from Melting Correlated Insulators in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 127, 266601.	2.9	11
1847	Correlated states in doubly-aligned hBN/graphene/hBN heterostructures. <i>Nature Communications</i> , 2021, 12, 7196.	5.8	22
1848	Bulk and edge properties of twisted double bilayer graphene. <i>Nature Physics</i> , 2022, 18, 48-53.	6.5	14
1849	Strong Moiré Excitons in High-Angle Twisted Transition Metal Dichalcogenide Homobilayers with Robust Commensuration. <i>Nano Letters</i> , 2022, 22, 203-210.	4.5	12
1850	Oscillations of the Spacing between van Hove Singularities Induced by sub-Ångstrom Fluctuations of Interlayer Spacing in Graphene Superlattices. <i>Physical Review Letters</i> , 2021, 127, 266801.	2.9	10
1851	Observation of high-order moiré effect and multiple Dirac fermions replicas in graphene-SiC heterostructures. <i>Physical Review B</i> , 2021, 104, .	1.1	5
1852	Detection of graphene's divergent orbital diamagnetism at the Dirac point. <i>Science</i> , 2021, 374, 1399-1402.	6.0	17

#	ARTICLE	IF	CITATIONS
1853	Recent progress in optoelectronic applications of hybrid 2D/3D silicon-based heterostructures. Science China Materials, 2022, 65, 876-895.	3.5	9
1854	Strain-induced large injection current in twisted bilayer graphene. Physical Review B, 2021, 104, .	1.1	12
1855	Orbitally selective Mott phase in electron-doped twisted transition metal-dichalcogenides: A possible realization of the Kondo lattice model. Physical Review Research, 2021, 3, .	1.3	16
1856	Projection of infinite- U Hubbard model and algebraic sign structure. Physical Review B, 2021, 104, .	1.1	10
1857	Enhancement effects of interlayer orbital hybridization in Janus MoSSe and tellurene heterostructures for photovoltaic applications. Physical Review Materials, 2021, 5, .	0.9	9
1858	Observation of a flat band and bandgap in millimeter-scale twisted bilayer graphene. Communications Materials, 2021, 2, .	2.9	15
1859	Orbital frustration and topological flat bands. Physical Review B, 2021, 104, .	1.1	2
1860	Generalized dynamical mean-field theory of two-sublattice systems with long-range interactions and its application to study charge and spin correlations in graphene. Physical Review B, 2021, 104, .	1.1	4
1861	Substrate Engineering-Tailored Fabrication of Aligned Graphene Nanoribbon Arrays: Implications for Graphene Electronic Devices. ACS Applied Nano Materials, 2021, 4, 13838-13847.	2.4	3
1862	Pressure-Induced Insulator-Metal Transition in Two-Dimensional Mott Insulator NiPS ₃ . Journal of the Physical Society of Japan, 2021, 90, .	0.7	4
1863	Molecular Engineering of 2D Nanomaterial Field-Effect Transistor Sensors: Fundamentals and Translation across the Innovation Spectrum. Advanced Materials, 2022, 34, e2106975.	11.1	11
1864	Building ground states of the Hubbard model by time-ordered bound-pair injection. Physical Review B, 2021, 104, .	1.1	1
1865	General construction and topological classification of crystalline flat bands. Nature Physics, 2022, 18, 185-189.	6.5	45
1866	Electronic Properties of Oxidized Graphene: Effects of Strain and an Electric Field on Flat Bands and the Energy Gap. Journal of Physical Chemistry Letters, 2022, 13, 66-74.	2.1	5
1867	Unveiling 2D Ferroelectricity and Ferromagnetism Interaction in van der Waals Heterobilayers. Journal of Physical Chemistry C, 2021, 125, 27837-27843.	1.5	2
1868	Shift-current response as a probe of quantum geometry and electron-electron interactions in twisted bilayer graphene. Physical Review Research, 2022, 4, .	1.3	16
1869	Recent advances in the controlled chemical vapor deposition growth of bilayer 2D single crystals. Journal of Materials Chemistry C, 2022, 10, 13324-13350.	2.7	10
1870	Modulating the period and electronic property of striped moiré superstructures for monolayer WSe ₂ on Au(100) by varied interface coupling. Nanoscale, 2022, , .	2.8	1

#	ARTICLE	IF	CITATIONS
1871	Directed exfoliating and ordered stacking of transition-metal-dichalcogenides. <i>Nanoscale</i> , 2022, 14, 7484-7492.	2.8	2
1872	Development of a versatile micro-focused angle-resolved photoemission spectroscopy system with Kirkpatrick-Baez mirror optics. <i>Review of Scientific Instruments</i> , 2022, 93, 033906.	0.6	21
1873	Local Density of States Modulated by Strain in Marginally Twisted Bilayer Graphene. <i>Chinese Physics Letters</i> , 2022, 39, 047403.	1.3	2
1874	Global Phase Diagram of the Normal State of Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2022, 128, 156401.	2.9	42
1875	Microscopic evidence for anisotropic multigap superconductivity in the CsV ₃ Sb ₅ kagome superconductor. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	41
1876	Moiré Landau levels of a C_4 -symmetric twisted bilayer system in the absence of a magnetic field. <i>Physical Review B</i> , 2022, 105, .		
1877	Intelligent infrared sensing enabled by tunable moiré quantum geometry. <i>Nature</i> , 2022, 604, 266-272.	13.7	69
1878	Nematic superconductivity in magic-angle twisted bilayer graphene from atomistic modeling. <i>Communications Physics</i> , 2022, 5, .	2.0	15
1879	Determination of Cleavage Energy and Efficient Nanostructuring of Layered Materials by Atomic Force Microscopy. <i>Nano Letters</i> , 2022, 22, 3550-3556.	4.5	7
1880	Trions in twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	11
1881	Domain Formation Driven by the Entropy of Topological Edge Modes. <i>Physical Review Letters</i> , 2022, 128, 156801.	2.9	2
1882	Gate-Controlled Quantum Dots Based on 2D Materials. <i>Advanced Quantum Technologies</i> , 2022, 5, .	1.8	13
1883	Disorder-robust phase crystal in high-temperature superconductors stabilized by strong correlations. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	5
1884	Domain Wall Formation and Magnon Localization in Twisted Chromium Trihalides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	1.2	5
1885	Influence of Twist-Angle and Concentration Disorder on the Density of Electronic States of Twisted Graphene. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4109.	1.3	0
1886	Learning motifs and their hierarchies in atomic resolution microscopy. <i>Science Advances</i> , 2022, 8, eabk1005.	4.7	10
1887	Inducing and tuning Kondo screening in a narrow-electronic-band system. <i>Nature Communications</i> , 2022, 13, 2156.	5.8	13
1888	Quantum-metric-enabled exciton condensate in double twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	10

#	ARTICLE	IF	CITATIONS
1889	Engineering holographic flat fermionic bands. <i>Physical Review D</i> , 2022, 105, .	1.6	3
1890	Generalized Maxwell-Higgs vortices in models with enhanced symmetry. <i>European Physical Journal C</i> , 2022, 82, 1.	1.4	0
1891	Strong suppression of near-field thermal transport between twisted bilayer graphene near the magic angle. <i>Materials Today Physics</i> , 2022, 24, 100692.	2.9	5
1892	Quantum critical behaviour in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 633-638.	6.5	66
1893	Controlled Synthesis of a Two-Dimensional Non-van der Waals Ferromagnet toward a Magnetic Moiré Superlattice. <i>ACS Nano</i> , 2022, 16, 7572-7579.	7.3	15
1894	Exciton Proliferation and Fate of the Topological Mott Insulator in a Twisted Bilayer Graphene Lattice Model. <i>Physical Review Letters</i> , 2022, 128, 157201.	2.9	19
1895	Observation of quadratic magnetoresistance in twisted double bilayer graphene. <i>Chinese Physics B</i> , 2022, 31, 107201.	0.7	1
1896	Unusual magnetotransport in twisted bilayer graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2118482119.	3.3	13
1897	The Magnetic Genome of Two-Dimensional van der Waals Materials. <i>ACS Nano</i> , 2022, 16, 6960-7079.	7.3	149
1898	An atomistic approach for the structural and electronic properties of twisted bilayer graphene-boron nitride heterostructures. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	22
1899	Light-induced ferromagnetism in moiré superlattices. <i>Nature</i> , 2022, 604, 468-473.	13.7	61
1900	Dirac Fermion Cloning, Moiré Flat Bands, and Magic Lattice Constants in Epitaxial Monolayer Graphene. <i>Advanced Materials</i> , 2022, 34, e2200625.	11.1	9
1901	Domino-like stacking order switching in twisted monolayer-multilayer graphene. <i>Nature Materials</i> , 2022, 21, 621-626.	13.3	28
1902	Recent experimental progresses on 2D van der Waals semiconductor moiré superlattices. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	0
1903	Polaritons in low-dimensional materials and their coupling characteristics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 127104.	0.2	2
1905	Experimental synthesis of borophene. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	1
1906	Lateral layered semiconductor multijunctions for novel electronic devices. <i>Chemical Society Reviews</i> , 2022, 51, 4000-4022.	18.7	12
1907	çŸ³â€”çƒç,â€¦³â¼“ç³»äçš„èŸ…â¼ç”µæ€§1/4šé†â€™™ç%1â¼ç1/2—æ—1æ³•çš„ç”ç©Ÿ. <i>Scientia Sinica: Physica, Mechanica Et Astronomi</i>		

#	ARTICLE	IF	CITATIONS
1908	Bipolar semiconductor in two-dimensional covalent organic frameworks. <i>Physical Review B</i> , 2022, 105, .	1.1	5
1909	Moiré Modulation of Van Der Waals Potential in Twisted Hexagonal Boron Nitride. <i>ACS Nano</i> , 2022, 16, 7589-7604.	7.3	12
1910	Hilbert Space Structure of the Low Energy Sector of U(N) Quantum Hall Ferromagnets and Their Classical Limit. <i>Symmetry</i> , 2022, 14, 872.	1.1	2
1911	Correlated Hofstadter spectrum and flavour phase diagram in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 825-831.	6.5	26
1912	Correlated Insulators, Semimetals, and Superconductivity in Twisted Trilayer Graphene. <i>Physical Review X</i> , 2022, 12, .	2.8	22
1913	Engineering of Chemical Vapor Deposition Graphene Layers: Growth, Characterization, and Properties. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	8
1914	Radiative pattern of intralayer and interlayer excitons in two-dimensional WS ₂ /WSe ₂ heterostructure. <i>Scientific Reports</i> , 2022, 12, 6939.	1.6	5
1915	Coexistence of extended flat band and Kekulé order in Li-intercalated graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	18
1916	Origami-controlled strain engineering of tunable flat bands and correlated states in folded graphene. <i>Physical Review Materials</i> , 2022, 6, .	0.9	9
1917	Interaction-driven giant thermopower in magic-angle twisted bilayer graphene. <i>Nature Physics</i> , 2022, 18, 691-698.	6.5	16
1918	Tunable Electronic Structure in Twisted Bilayer WTe ₂ . <i>Frontiers in Physics</i> , 2022, 10, .	1.0	0
1919	Boundary Modes from Periodic Magnetic and Pseudomagnetic Fields in Graphene. <i>Physical Review Letters</i> , 2022, 128, 176406.	2.9	10
1920	Kohn-Luttinger superconductivity and intervalley coherence in rhombohedral trilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	30
1921	Family of Ideal Chern Flatbands with Arbitrary Chern Number in Chiral Twisted Graphene Multilayers. <i>Physical Review Letters</i> , 2022, 128, 176404.	2.9	31
1922	Strained bilayer graphene, emergent energy scales, and moiré gravity. <i>Physical Review Research</i> , 2022, 4, .	1.3	9
1923	Tunable multi-bands in twisted double bilayer graphene. <i>2D Materials</i> , 2022, 9, 034001.	2.0	2
1924	Near-zero Poisson's ratio and suppressed mechanical anisotropy in strained black phosphorene/SnSe van der Waals heterostructure: a first-principles study. <i>Applied Mathematics and Mechanics (English)</i> Tj ETQq0 0 0 rgt /Overlock 10 Tf		
1925	Imaging tunable quantum Hall broken-symmetry orders in graphene. <i>Nature</i> , 2022, 605, 51-56.	13.7	30

#	ARTICLE	IF	CITATIONS
1926	Benchmarking Noise and Dephasing in Emerging Electrical Materials for Quantum Technologies. <i>Advanced Materials</i> , 2023, 35, e2109671.	11.1	9
1927	Interaction-induced velocity renormalization in magic-angle twisted multilayer graphene. <i>2D Materials</i> , 2022, 9, 031001.	2.0	2
1928	Topological network and valley beam splitter in acoustic biaxially strained moiré superlattices. <i>Physical Review B</i> , 2022, 105, .	1.1	7
1929	Doping a moiré Mott insulator: A model study of twisted cuprates. <i>Physical Review B</i> , 2022, 105, .	1.1	2
1930	Accurate Atomic-Scale Imaging of Two-Dimensional Lattices Using Atomic Force Microscopy in Ambient Conditions. <i>Nanomaterials</i> , 2022, 12, 1542.	1.9	6
1931	Electronic properties of twisted multilayer graphene. <i>JPhys Materials</i> , 2022, 5, 034003.	1.8	11
1932	Emerging exciton physics in transition metal dichalcogenide heterobilayers. <i>Nature Reviews Materials</i> , 2022, 7, 778-795.	23.3	75
1933	Observation of chiral and slow plasmons in twisted bilayer graphene. <i>Nature</i> , 2022, 605, 63-68.	13.7	45
1934	Cubic Nanogrids for Counterbalance Contradiction among Reorganization Energy, Strain Energy, and Wide Bandgap. <i>Journal of Physical Chemistry Letters</i> , 2022, , 4297-4308.	2.1	3
1935	Flat bands and topological properties of twisted bilayer WSe_2 under external stimuli. <i>Physica Scripta</i> , 0, , .	1.2	0
1936	Median-point approximation and its application for the study of fermionic systems. <i>Physical Review B</i> , 2022, 105, .	1.1	0
1937	Preparation and application of graphene-based wearable sensors. <i>Nano Research</i> , 2022, 15, 9850-9865.	5.8	20
1938	Twisted double ABC-stacked trilayer graphene with weak interlayer coupling. <i>Physical Review B</i> , 2022, 105, .	1.1	2
1939	Exciton moiré potential in twisted WSe_2 homobilayers modulated by electric field. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	0
1940	Construction of low-energy symmetric Hamiltonians and Hubbard parameters for twisted multilayer systems using ab initio input. <i>Physical Review B</i> , 2022, 105, .	1.1	3
1941	Anomalous optical excitations from arrays of whirled lattice distortions in moiré superlattices. <i>Nature Materials</i> , 2022, 21, 890-895.	13.3	15
1942	Alternating twisted multilayer graphene: generic partition rules, double flat bands, and orbital magnetoelectric effect. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	8
1943	Catalytic Growth of Ultralong Graphene Nanoribbons on Insulating Substrates. <i>Advanced Materials</i> , 2022, 34, e2200956.	11.1	12

#	ARTICLE	IF	CITATIONS
1944	Dynamic Tuning of Moiré Superlattice Morphology by Laser Modification. ACS Nano, 2022, 16, 8172-8180.	7.3	3
1945	$\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:m} \text{ sub} \rangle \langle \text{mml:mi} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:m} \text{ n} \rangle \text{3} \langle \text{mml:m} \text{ n} \rangle \langle \text{mml:m} \text{ sub} \rangle \langle \text{mml:math} \rangle$ symmetry breaking metal-insulator transitions in a flat band in the half-filled Hubbard model on the decorated honeycomb lattice. Physical Review B, 2022, 105, .	1.1	1
1946	Tuning lattice thermal conductivity of bilayer and trilayer molybdenum disulfide thermoelectric materials through twist angles. International Journal of Heat and Mass Transfer, 2022, 194, 123005.	2.5	10
1947	Recent Progress in 1D Contacts for 2D Material-Based Devices. Advanced Materials, 2022, 34, e2202408.	11.1	13
1948	Bilayer-favored intercalation induced efficient and selective liquid phase production of bilayer graphene. Journal of Materials Chemistry A, 2022, 10, 14381-14391.	5.2	2
1949	Defect-assisted tunneling spectroscopy of electronic band structure in twisted bilayer graphene/hexagonal boron nitride moiré superlattices. Applied Physics Letters, 2022, 120, 203103.	1.5	1
1950	Emergent Multifunctional Magnetic Proximity in van der Waals Layered Heterostructures. Advanced Science, 2022, 9, .	5.6	17
1951	Cost-Effective Calculation of Collective Electronic Excitations in Graphite Intercalated Compounds. Nanomaterials, 2022, 12, 1746.	1.9	1
1952	Phonon-mediated superconductivity near the lattice instability in hole-doped hydrogenated monolayer hexagonal boron nitride. Physical Review Materials, 2022, 6, .	0.9	3
1953	Coexisting charge density wave and ferromagnetic instabilities in monolayer InSe. Npj Computational Materials, 2022, 8, .	3.5	18
1954	Observation of Reentrant Correlated Insulators and Interaction-Driven Fermi-Surface Reconstructions at One Magnetic Flux Quantum per Moiré Unit Cell in Magic-Angle Twisted Bilayer Graphene. Physical Review Letters, 2022, 128, .	2.9	17
1955	Band gap regulation and a selective preparation method for single-walled silicon carbide nanotubes. Results in Physics, 2022, 38, 105658.	2.0	6
1956	Data-Driven Design of a High-Performance, Two-Dimensional Graphene-Based Seawater Desalination Membrane. SSRN Electronic Journal, 0, , .	0.4	0
1957	First-Principles Study on the Magnetism of Triangular Graphene Quantum Dot with Armchair Edges Decorated by Zigzag Extensions. Advances in Condensed Matter Physics, 2022, 11, 38-48.	0.1	0
1958	Intralayer Phonons in Multilayer Graphene Moiré Superlattices. Research, 2022, 2022, .	2.8	4
1959	Intrinsic first- and higher-order topological superconductivity in a doped topological insulator. Physical Review B, 2022, 105, .	1.1	15
1960	Magnetic impurity as a local probe of the $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{U} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ (1) quantum spin liquid with spinon Fermi surface. Physical Review B, 2022, 105, .	1.1	8
1961	Berry curvature dipole senses topological transition in a moiré superlattice. Nature Physics, 2022, 18, 765-770.	6.5	51

#	ARTICLE	IF	CITATIONS
1962	Controllable Edge Epitaxy of Helical GeSe/GeS Heterostructures. Nano Letters, 2022, 22, 5086-5093.	4.5	8
1963	Predicting Van der Waals Heterostructures by a Combined Machine Learning and Density Functional Theory Approach. ACS Applied Materials & Interfaces, 2022, 14, 25907-25919.	4.0	8
1964	Direct observation of moiré flat-band breakdown at the edge of magic-angle twisted bilayer graphene. Physical Review B, 2022, 105, .	1.1	3
1965	Intrinsic superflat bands in general twisted bilayer systems. Light: Science and Applications, 2022, 11, .	7.7	9
1966	Vertical strain and twist induced tunability on electronic and optical properties of Janus HfSSe/SnC van der Waals heterostructure. Applied Surface Science, 2022, 598, 153756.	3.1	14
1967	Constructing two-dimensional holey graphyne with unusual annulative π -extension. Matter, 2022, 5, 2306-2318.	5.0	34
1968	Moiré band structures of the double twisted few-layer graphene. Physical Review B, 2022, 105, .	1.1	10
1969	Advanced wearable biosensors for the detection of body fluids and exhaled breath by graphene. Mikrochimica Acta, 2022, 189, .	2.5	35
1970	Interlayer shear coupling in bilayer graphene. Npj 2D Materials and Applications, 2022, 6, .	3.9	4
1971	Boron nitride on SiC(0001). Physical Review Materials, 2022, 6, .	0.9	1
1972	Theoretical prediction of superconductivity in monolayer B_3N . Physical Review B, 2022, 105, .	1.1	6
1973	Spectroscopic Evidence for Electron Correlations in Epitaxial Bilayer Graphene with Interface-Reconstructed Superlattice Potentials. Chinese Physics Letters, 2022, 39, 077301.	1.3	2
1974	Designing 1D correlated-electron states by non-Euclidean topography of 2D monolayers. Nature Communications, 2022, 13, .	5.8	9
1975	SU(4) Symmetry in Twisted Bilayer Graphene: An Itinerant Perspective. Physical Review Letters, 2022, 128, .	2.9	11
1976	Evidence for moiré intralayer excitons in twisted WSe ₂ /WSe ₂ homobilayer superlattices. Light: Science and Applications, 2022, 11, .	7.7	29
1977	Cascade of isospin phase transitions in Bernal-stacked bilayer graphene at zero magnetic field. Nature Physics, 2022, 18, 771-775.	6.5	48
1979	Two-dimensional magnetic transition metal halides: molecular beam epitaxy growth and physical property modulation. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 127505.	0.2	0
1980	Lattice relaxation and substrate effects on the electronic properties of graphene superlattice. Wuli Xuebao/Acta Physica Sinica, 2022, .	0.2	0

#	ARTICLE	IF	CITATIONS
1981	Delocalized magnetism in low-dimensional graphene system. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 188101.	0.2	1
1982	Twisted pillared phononic crystal plates. Applied Physics Letters, 2022, 120, .	1.5	6
1983	Nearly flat bands in twisted triple bilayer graphene. Physical Review B, 2022, 105, .	1.1	4
1984	Excitonic fractional quantum Hall hierarchy in moiré heterostructures. Physical Review B, 2022, 105, .	1.1	1
1985	Moiré Quasibound States in the Continuum. Physical Review Letters, 2022, 128, .	2.9	34
1986	Gutzwiller approximation approach to the SU(4) model. Physical Review B, 2022, 105, .		
1987	Prediction of protected band edge states and dielectric tunable quasiparticle and excitonic properties of monolayer MoSi ₂ N ₄ . Npj Computational Materials, 2022, 8, .	3.5	19
1988	Exploring Interfaces Through Synchrotron Radiation Characterization Techniques: A Graphene Case. Advanced Functional Materials, 2022, 32, .	7.8	3
1989	Isospin competitions and valley polarized correlated insulators in twisted double bilayer graphene. Nature Communications, 2022, 13, .	5.8	20
1990	Absence of spin susceptibility decrease in a bulk organic superconductor with triangular lattice. Physical Review Research, 2022, 4, .	1.3	1
1991	Dynamic control of moiré potential in twisted WS ₂ /WSe ₂ heterostructures. Nano Research, 2022, 15, 7688-7694.	5.8	11
1992	Floquet electronic bands and transport in magic-angle bilayer graphene. New Journal of Physics, 2022, 24, 063029.	1.2	1
1993	Doping fingerprints of spin and lattice fluctuations in moiré superlattice systems. Physical Review B, 2022, 105, .	1.1	6
1994	Pressure-Induced Superconductivity in Flat-Band Kagome Compounds Pd ₃ P ₂ (S _{1-x} Se _x) ₈ . Chinese Physics Letters, 2022, 39, 067404.	1.3	3
1995	Moiré band structures of twisted phosphorene bilayers. Physical Review B, 2022, 105, .	1.1	3
1996	Structural Diversity in Oxoiridates with 1D IrO ₃ Chain Fragments and Flat Bands. Inorganic Chemistry, 0, , .	1.9	1
1997	Deep-learning density functional theory Hamiltonian for efficient ab initio electronic-structure calculation. Nature Computational Science, 2022, 2, 367-377.	3.8	38
1998	Doping phase diagram of a Hubbard model for twisted bilayer cuprates. Physical Review B, 2022, 105, .	1.1	10

#	ARTICLE	IF	CITATIONS
1999	Connection between the semiconductor-superconductor transition and the spin-polarized superconducting phase in the honeycomb lattice. <i>Physical Review B</i> , 2022, 105, .	1.1	2
2000	Observation of Γ -Valley Moiré Bands and Emergent Hexagonal Lattice in Twisted Transition Metal Dichalcogenides. <i>Physical Review X</i> , 2022, 12, .	2.8	18
2001	Correlated Insulators, Density Wave States, and Their Nonlinear Optical Response in Magic-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2022, 128, .	2.9	19
2002	Effective curved space-time geometric theory of generic-twist-angle graphene with application to a rotating bilayer configuration. <i>Physical Review B</i> , 2022, 105, .	1.1	1
2003	Flat-band plasmons in twisted bilayer transition metal dichalcogenides. <i>Physical Review B</i> , 2022, 105, .	1.1	6
2004	Superconductivity, superfluidity and quantum geometry in twisted multilayer systems. <i>Nature Reviews Physics</i> , 2022, 4, 528-542.	11.9	68
2005	Landau levels of the Euler class topology. <i>Physical Review Research</i> , 2022, 4, .	1.3	9
2006	Observation of photoluminescence from a natural van der Waals heterostructure. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	1
2007	Microstructure Engineering of Hexagonal Boron Nitride for Single-Photon Emitter Applications. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	4
2008	Moiré disorder effect in twisted bilayer graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	9
2009	Controllable thermal radiation from twisted bilayer graphene. <i>International Journal of Heat and Mass Transfer</i> , 2022, 194, 123076.	2.5	13
2010	Nano-engineering and nano-manufacturing in 2D materials: marvels of nanotechnology. <i>Nanoscale Horizons</i> , 2022, 7, 849-872.	4.1	19
2011	Germanene. , 2022, , 27-48.		0
2012	Magic radius of an A -stacked bilayer graphene quantum dot. <i>Physical Review B</i> , 2022, 105, .		
2013	Symmetry constraints on superconductivity in twisted bilayer graphene: Fractional vortices, $4e$ condensates, or nonunitary pairing. <i>Physical Review B</i> , 2022, 105, .	1.1	8
2014	Interaction-Driven Metal-Insulator Transition with Charge Fractionalization. <i>Physical Review X</i> , 2022, 12, .	2.8	8
2015	Chern mosaic and Berry-curvature magnetism in magic-angle graphene. <i>Nature Physics</i> , 2022, 18, 885-892.	6.5	37
2016	Van Hove singularity and Lifshitz transition in thickness-controlled Li-intercalated graphene. <i>Physical Review B</i> , 2022, 105, .	1.1	7

#	ARTICLE	IF	CITATIONS
2017	Emergent Phenomena in Magnetic Two-Dimensional Materials and van der Waals Heterostructures. ACS Applied Electronic Materials, 2022, 4, 3278-3302.	2.0	26
2018	Ubiquitous defect-induced density wave instability in monolayer graphene. Science Advances, 2022, 8, .	4.7	17
2019	Theory of polar domains in moiré heterostructures. Physical Review B, 2022, 105, .	1.1	7
2020	Recent advances and challenges in graphene-based nanocomposite scaffolds for tissue engineering application. Journal of Biomedical Materials Research - Part A, 2022, 110, 1695-1721.	2.1	15
2021	How to Recognize the Universal Aspects of Mott Criticality?. Crystals, 2022, 12, 932.	1.0	4
2022	Quantum Spin Hall Edge States and Interlayer Coupling in Twisted Bilayer WTe ₂ . Nano Letters, 2022, 22, 5674-5680.	4.5	5
2023	Angle-resolved photoemission spectroscopy. Nature Reviews Methods Primers, 2022, 2, .	11.8	29
2024	Moiré-Induced Transport in CVD-Based Small-Angle Twisted Bilayer Graphene. Nano Letters, 2022, 22, 5252-5259.	4.5	4
2025	Soft-mode-phonon-mediated insulator-superconductor transition in doped two-dimensional topological insulator RuC. Applied Physics Letters, 2022, 121, 013102.	1.5	0
2026	Topological piezoelectric response in moiré graphene systems. Physical Review Research, 2022, 4, .	1.3	3
2027	Temperature-linear resistivity in twisted double bilayer graphene. Physical Review B, 2022, 106, .	1.1	8
2028	Pressure Tunable van Hove Singularities of Twisted Bilayer Graphene. Nano Letters, 2022, 22, 5841-5848.	4.5	4
2029	Semiconductor moiré materials. Nature Nanotechnology, 2022, 17, 686-695.	15.6	129
2030	Atomic-Level Design of Active Site on Two-Dimensional MoS ₂ toward Efficient Hydrogen Evolution: Experiment, Theory, and Artificial Intelligence Modelling. Advanced Functional Materials, 2022, 32, .	7.8	53
2031	First-principles calculation of gate-tunable ferromagnetism in magic-angle twisted bilayer graphene under pressure. Journal of Physics Condensed Matter, 2022, 34, 385501.	0.7	2
2032	Pentagonal 2D Transition Metal Dichalcogenides: PdSe ₂ and Beyond. Advanced Functional Materials, 2022, 32, .	7.8	16
2033	Strong modulation limit of excitons and trions in moiré materials. Physical Review B, 2022, 106, .	1.1	5
2034	Making a case for moiré semiconductors. Nature Nanotechnology, 0, , .	15.6	0

#	ARTICLE	IF	CITATIONS
2035	Renormalized magic angles in asymmetric twisted graphene multilayers. <i>Physical Review B</i> , 2022, 106, .	1.1	2
2036	Wigner crystallization at large fine structure constant. <i>Physical Review B</i> , 2022, 106, .	1.1	0
2037	Emergence of correlations in alternating twist quadrilayer graphene. <i>Nature Materials</i> , 2022, 21, 884-889.	13.3	28
2038	Quantum Hall Interferometry in Triangular Domains of Marginally Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 5708-5714.	4.5	2
2039	Chemical insights into two-dimensional quantum materials. <i>Matter</i> , 2022, 5, 2168-2189.	5.0	2
2040	Recent Developments in Chemical Doping of Graphene using Experimental Approaches and Its Applications. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	10
2041	One-Step Growth of Bilayer $2H\text{-}1T\text{-}MoTe_2$ van der Waals Heterostructures with Interlayer-Coupled Resonant Phonon Vibration. <i>ACS Nano</i> , 2022, 16, 11268-11277.	7.3	7
2042	Periodic evolution of the out-of-phase dipole and the single-charged vortex solitons in periodic photonic moiré lattice with saturable self-focusing nonlinearity media. <i>Optics Express</i> , 2022, 30, 28840.	1.7	4
2043	Freestanding complex-oxide membranes. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 383001.	0.7	12
2044	Tuning colour centres at a twisted hexagonal boron nitride interface. <i>Nature Materials</i> , 2022, 21, 896-902.	13.3	31
2045	Acoustic-phonon-mediated superconductivity in moiré less graphene multilayers. <i>Physical Review B</i> , 2022, 106, .	1.1	18
2046	Engineering Grain Boundaries in Two-Dimensional Electronic Materials. <i>Advanced Materials</i> , 2023, 35, .	11.1	6
2047	Raman imaging of twist angle variations in twisted bilayer graphene at intermediate angles. <i>2D Materials</i> , 2022, 9, 045009.	2.0	8
2048	Understanding the Mott insulating state in $1T\text{-}TaS_2$ and $1T\text{-}TaSe_2$. <i>AAPPS Bulletin</i> , 2022, 32, .	2.7	8
2049	Role of correlated hopping in the many-body physics of flat-band systems: Nagaoka ferromagnetism. <i>Physical Review B</i> , 2022, 106, .	1.1	2
2050	Robust superconductivity in magic-angle multilayer graphene family. <i>Nature Materials</i> , 2022, 21, 877-883.	13.3	100
2051	Moiré superlattice structures in a rotating two-component Bose-Einstein condensates. <i>Results in Physics</i> , 2022, 39, 105780.	2.0	0
2052	Zero sound and plasmon modes for non-Fermi liquids. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 447, 128292.	0.9	6

#	ARTICLE	IF	CITATIONS
2053	Electron transport properties for a zigzag graphene nanoribbon embedding multiple rectangular quantum dots under a periodically modulated magnetic field. <i>Diamond and Related Materials</i> , 2022, 128, 109220.	1.8	1
2054	Enhanced interlayer coupling in twisted bilayer graphene quantum dots. <i>Applied Surface Science</i> , 2022, 600, 154148.	3.1	5
2056	2D topological matter from a boundary Green's functions perspective: Faddeev-LeVerrier algorithm implementation. <i>SciPost Physics</i> , 2022, 13, .	1.5	2
2057	Interfacial chemical vapor deposition of wrinkle-free bilayer graphene on dielectric substrates. <i>Applied Surface Science</i> , 2022, 602, 154367.	3.1	3
2058	Signature of lattice dynamics in twisted 2D homo/hetero-bilayers. <i>2D Materials</i> , 2022, 9, 045018.	2.0	9
2059	Imaging topological and correlated insulating states in twisted monolayer-bilayer graphene. <i>Nature Communications</i> , 2022, 13, .	5.8	17
2060	Graphene bilayer and trilayer moiré lattice with Rashba spin-orbit coupling. <i>Physical Review B</i> , 2022, 106, .	1.1	2
2061	Skyrmion superconductivity: DMRG evidence for a topological route to superconductivity. <i>Physical Review B</i> , 2022, 106, .	1.1	16
2062	Twisted multilayer nodal superconductors. <i>Physical Review B</i> , 2022, 106, .	1.1	8
2063	Symmetry Breaking and Anomalous Conductivity in a Double-Moiré Superlattice. <i>Nano Letters</i> , 2022, 22, 6215-6222.	4.5	11
2064	Longitudinal and transverse frictional drag in graphene/ AlO_3 heterostructures. <i>Physical Review B</i> , 2022, 106, .		
2065	Van der Waals heterostructures. <i>Nature Reviews Methods Primers</i> , 2022, 2, .	11.8	80
2066	Chiral $\text{SO}(4)$ spin-valley density wave and degenerate topological superconductivity in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2022, 106, .	1.1	8
2067	Localization from the Twisted Bilayer Dielectric Photonic Crystal Slabs. , 2022, , .		0
2068	Two-dimensional van der Waals: characterization and manipulation of superconductivity. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, .	0.2	0
2069	Moments and multiplets in moiré materials. <i>European Physical Journal B</i> , 2022, 95, .	0.6	5
2070	Topological Phases in AB-Stacked MoTe_2 : Z Physical Review Letters, 2022, 129, .	2.9	32
2071	Uncovering Topological Edge States in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 6186-6193.	4.5	10

#	ARTICLE	IF	CITATIONS
2072	Revisiting flat band superconductivity: Dependence on minimal quantum metric and band touchings. <i>Physical Review B</i> , 2022, 106, .	1.1	33
2073	Formation of topological domain walls and quantum transport properties of zero-line modes in commensurate bilayer graphene systems. <i>Frontiers of Physics</i> , 2022, 17, .	2.4	1
2074	The Promise of Soft-Matter-Enabled Quantum Materials. <i>Advanced Materials</i> , 2023, 35, .	11.1	4
2075	Mapping pm-scale Lattice Distortions and Measuring Interlayer Separations in Stacked 2D Materials by Interferometric 4D-STEM. <i>Microscopy and Microanalysis</i> , 2022, 28, 1752-1754.	0.2	1
2076	LaBr ₂ bilayer multiferroic moiré superlattice with robust magnetoelectric coupling and magnetic bimerons. <i>Npj Computational Materials</i> , 2022, 8, .	3.5	12
2077	Magic-Angle Twisted Bilayer Graphene as a Topological Heavy Fermion Problem. <i>Physical Review Letters</i> , 2022, 129, .	2.9	70
2078	Novel transport properties of the $\hat{I}\pm T3$ lattice with uniform electric and magnetic fields. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
2079	Giant nonlinear Hall effect in strained twisted bilayer graphene. <i>Physical Review B</i> , 2022, 106, .	1.1	22
2080	Skyrmions in Twisted Bilayer Graphene: Stability, Pairing, and Crystallization. <i>Physical Review X</i> , 2022, 12, .	2.8	15
2081	Deep Quantum-Dot Arrays in Moiré Superlattices of Non-van der Waals Materials. <i>Journal of the American Chemical Society</i> , 2022, 144, 14657-14667.	6.6	3
2082	Time-reversal invariant topological gapped phases in bilayer Dirac materials. <i>Physical Review B</i> , 2022, 106, .	1.1	1
2083	Symmetry origin of lattice vibration modes in twisted multilayer graphene: Phonons versus moiré phonons. <i>Physical Review B</i> , 2022, 106, .	1.1	10
2084	Reentrant Correlated Insulators in Twisted Bilayer Graphene at 25° ($\langle \text{mml:math} \rangle T_j \text{ ETQqO O O rgBT /Overlock 10 Tf 50 272 Td$ (xmlns: 2022, 129, .	2.9	25
2085	Correlated interlayer exciton insulator in heterostructures of monolayer WSe ₂ and moiré WS ₂ /WSe ₂ . <i>Nature Physics</i> , 2022, 18, 1214-1220.	6.5	54
2086	Energetic stability and spatial inhomogeneity in the local electronic structure of relaxed twisted trilayer graphene. <i>Physical Review B</i> , 2022, 106, .	1.1	7
2087	Orbital dependent band degeneracy and edge states in single layer and AA bilayer honeycomb lattice systems with p orbital degeneracy. <i>Journal of Physics Communications</i> , 2022, 6, 085011.	0.5	0
2088	Nonlinear anomalous Hall effects probe topological phase-transitions in twisted double bilayer graphene. <i>2D Materials</i> , 2022, 9, 045020.	2.0	21
2089	Quantum cascade of correlated phases in trigonally warped bilayer graphene. <i>Nature</i> , 2022, 608, 298-302.	13.7	44

#	ARTICLE	IF	CITATIONS
2090	Terahertz Metamaterials for Free-Space and on-Chip Applications: From Active Metadevices to Topological Photonic Crystals. <i>Advanced Devices & Instrumentation</i> , 2022, 2022, .	4.0	11
2091	Mott correlations in ABC graphene trilayer aligned with hBN. <i>Physical Review B</i> , 2022, 106, .	1.1	6
2092	Non-isothermal crystallization kinetics of graphene/PA10T composites. <i>Heliyon</i> , 2022, 8, e10206.	1.4	9
2093	Coexistence of crystalline rhombohedral stacking and hexagonal moiré superlattices in exfoliated highly oriented pyrolytic graphite. <i>Materials Today Communications</i> , 2022, 32, 104152.	0.9	3
2094	Tunable Sample-Wide Electronic Kagome Lattice in Low-Angle Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2022, 129, .	2.9	12
2095	Frequency-dependent surface wave suppression at the Dirac point of an acoustic graphene analog. <i>Physical Review B</i> , 2022, 106, .	1.1	0
2096	Superconducting quantum interference effect in NbSe ₂ /NbSe ₂ van der Waals junctions. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 405702.	0.7	0
2097	Recent Advances of Preparation and Application of Two-Dimension van der Waals Heterostructure. <i>Coatings</i> , 2022, 12, 1152.	1.2	6
2098	Evidence for a Square-Square Vortex Lattice Transition in a High- T_c Cuprate Superconductor. <i>Physical Review Letters</i> , 2022, 129, .	2.9	0
2099	Enhanced valley polarization of graphene on h-BN under circularly polarized light irradiation. <i>Physical Review B</i> , 2022, 106, .	1.1	5
2100	Progress and challenges on 3D tubular structures and devices of 2D materials. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	1
2101	Excitonic insulator in a heterojunction moiré superlattice. <i>Nature Physics</i> , 2022, 18, 1171-1176.	6.5	32
2102	Unveiling the effect of 2D silagraphene structural diversity on electronic properties: DFT, DOS, and ELF studies. <i>Journal of Molecular Modeling</i> , 2022, 28, .	0.8	0
2103	Revealing the Thermal Properties of Superconducting Magic-Angle Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 6465-6470.	4.5	18
2105	Ultra-strong spin-orbit coupling and topological moiré engineering in twisted ZrS ₂ bilayers. <i>Nature Communications</i> , 2022, 13, .	5.8	14
2106	Tuning moiré excitons and correlated electronic states through layer degree of freedom. <i>Nature Communications</i> , 2022, 13, .	5.8	15
2107	Moiré coupling and other emergent phenomena in stacked van der Waals materials. <i>APL Materials</i> , 2022, 10, 080401.	2.2	0
2108	Tunable electronic and magnetic properties of thin Nb ₃ Te ₂ nanofilms: Interplay between strain and thickness. <i>Physical Review B</i> , 2022, 106, .	1.1	9

#	ARTICLE	IF	CITATIONS
2109	Hexagonal Network of Photocurrent Enhancement in Few-Layer Graphene/InGaN Quantum Dot Junctions. Nano Letters, 2022, 22, 6964-6971.	4.5	1
2110	First-principles studies of the mixed-dimensional van der Waals heterostructures of graphene/MnF ₄ . Journal of Applied Physics, 2022, 132, .	1.1	0
2111	Emulating twisted double bilayer graphene with a multiorbital optical lattice. SciPost Physics, 2022, 13, .	1.5	4
2112	Anomalous Hall effect at half filling in twisted bilayer graphene. Nature Physics, 2022, 18, 1038-1042.	6.5	19
2113	Electronic structure of lattice relaxed alternating twist tNG-multilayer graphene: from few layers to bulk AT-graphite. 2D Materials, 2022, 9, 044002.	2.0	5
2114	MoS ₂ Transistor with Weak Fermi Level Pinning via MXene Contacts. Advanced Functional Materials, 2022, 32, .	7.8	13
2115	Magic angle conditions for twisted three-dimensional topological insulators. Physical Review B, 2022, 106, .	1.1	9
2116	Clinical Application of Graphene Composite in Internal Fixation of Ankle Fracture in Sports. Advances in Materials Science and Engineering, 2022, 2022, 1-9.	1.0	1
2117	Stacking and Twisting of Freestanding Complex Oxide Thin Films. Advanced Materials, 2022, 34, .	11.1	20
2118	Transport through quantum anomalous Hall bilayers with lattice mismatch. New Journal of Physics, 2022, 24, 083029.	1.2	1
2119	Twisted-graphene model draws inspiration from heavy elements. Nature, 2022, 608, 474-475.	13.7	0
2120	Electric conductivity of the line-centered honeycomb lattice. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115454.	1.3	1
2121	ZW-21: A novel two-dimensional graphene-based anode material for the lithium-ion battery. Diamond and Related Materials, 2022, 128, 109298.	1.8	4
2122	Interlayer interactions in transition metal dichalcogenides heterostructures. Reviews in Physics, 2022, 9, 100077.	4.4	13
2123	Recent progress in 2D van der Waals heterostructures: fabrication, properties, and applications. Science China Information Sciences, 2022, 65, .	2.7	16
2124	Topological multiferroic order in twisted transition metal dichalcogenide bilayers. SciPost Physics, 2022, 13, .	1.5	5
2125	Hierarchical dimensional crossover of an optically-trapped quantum gas with disorder. Communications in Theoretical Physics, 0, , .	1.1	1
2126	Detecting Symmetry Breaking in Magic Angle Graphene Using Scanning Tunneling Microscopy. Physical Review Letters, 2022, 129, .	2.9	14

#	ARTICLE	IF	CITATIONS
2127	Higher-dimensional Jordan-Wigner transformation and auxiliary Majorana fermions. Physical Review B, 2022, 106, .	1.1	7
2128	Magnetic moiré effects and two types of topological transition in a twisted-bilayer hyperbolic metasurface with double-split ring arrays. Optics Express, 2022, 30, 36552.	1.7	2
2129	Fast proton and water transport in ceramic membrane-based magic-angle graphene. Water Research, 2022, 225, 119076.	5.3	1
2130	Bilayer borophene prevails over monolayer counterpart. Nano Today, 2022, 46, 101608.	6.2	4
2131	Orthorhombic C32: A topological semimetal with nodal ring. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 451, 128397.	0.9	0
2132	Data cluster analysis and machine learning for classification of twisted bilayer graphene. Carbon, 2023, 201, 141-149.	5.4	5
2133	Scientific Background of Complex Oxides. Springer Theses, 2022, , 5-31.	0.0	0
2134	Introduction to 2-Dimensional Materials and Moiré Superlattices. Springer Theses, 2022, , 5-28.	0.0	0
2135	Multiscale Numerical Modeling for Near-Field Microwave Impedance Microscopy. , 2022, , .		0
2136	Electronic fractal patterns in building Sierpinski-triangle molecular systems. Physical Chemistry Chemical Physics, 2022, 24, 19576-19583.	1.3	2
2137	Anomalous Quantum Oscillations in the Aa and Ab Bilayer Graphene. SSRN Electronic Journal, 0, , .	0.4	0
2138	Surface etching and edge control of hexagonal boron nitride assisted by triangular Sn nanoplates. Nanoscale Advances, 2022, 4, 3786-3792.	2.2	0
2139	Emergence in Condensed Matter Physics. SpringerBriefs in Physics, 2022, , 11-43.	0.2	0
2140	Observation of moiré excitons in the twisted WS ₂ /WS ₂ homostructure. Nanoscale, 2022, 14, 12447-12454.	2.8	13
2141	Two-dimensional carbon materials with an anisotropic Dirac cone: high stability and tunable Fermi velocity. Physical Chemistry Chemical Physics, 2022, 24, 19263-19268.	1.3	2
2142	Highly efficient high-harmonic generation from artificially stacked 2D materials. , 2022, , .		0
2143	Phase transition from a nonmagnetic to a ferromagnetic state in a twisted bilayer graphene nanoflake: the role of electronic pressure on the magic-twist. Nanoscale, 2022, 14, 11945-11952.	2.8	4
2144	Unravelling the Electromechanical Coupling in Graphene/bulk h-BN Heterostructure. Nanoscale, 0, , .	2.8	1

#	ARTICLE	IF	CITATIONS
2145	Magnetic Bloch theorem and reentrant flat bands in twisted bilayer graphene at $\nu = \pm 2$. Physical Review B, 2022, 106, .	1.1	1
2146	Intralayer charge-transfer moiré excitons in van der Waals superlattices. Nature, 2022, 609, 52-57.	13.7	49
2147	Synthesis and applications of graphene and graphene-based nanocomposites: Conventional to artificial intelligence approaches. Frontiers in Environmental Chemistry, 0, 3, .	0.7	8
2148	Charge order and antiferromagnetism in twisted bilayer graphene from the variational cluster approximation. SciPost Physics, 2022, 13, .	1.5	1
2149	Analytical renormalization group approach to competing orders at charge neutrality in twisted bilayer graphene. Physical Review Research, 2022, 4, .	1.3	6
2150	Relaxation effects in twisted bilayer graphene: A multiscale approach. Physical Review B, 2022, 106, .	1.1	14
2151	Quantitative determination of interlayer electronic coupling at various critical points in bilayer MoS_2 . Physical Review B, 2022, 106, .	1.1	4
2152	Polaritons in Van der Waals Heterostructures. Advanced Materials, 2023, 35, .	11.1	15
2153	Engineering chiral topological superconductivity in twisted Ising superconductors. Physical Review B, 2022, 106, .	1.1	2
2154	Strong Coupling Superconductivity in Ca-Intercalated Bilayer Graphene on SiC. Nano Letters, 2022, 22, 7651-7658.	4.5	4
2155	Dirac fermions with plaquette interactions. II. $SU(4)$ phase diagram with Gross-Neveu criticality and quantum spin liquid. Physical Review B, 2022, 106, .	1.1	10
2156	Moiré Tuning of the Dynamic Behavior of a Twisted Bilayer van der Waals Material Resonator. Journal of Applied Mechanics, Transactions ASME, 2022, 89, .	1.1	7
2157	Progress and prospects in the quantum anomalous Hall effect. APL Materials, 2022, 10, .	2.2	11
2158	Dual-path inscription of plasmonic nano-Ag moiré fringes. Optics Letters, 2022, 47, 4933.	1.7	0
2159	Superconducting pairing from repulsive interactions of fermions in a flat-band system. Physical Review B, 2022, 106, .	1.1	3
2160	Charge and spin correlations in insulating and incoherent metal states of twisted bilayer graphene. Physical Review B, 2022, 106, .	1.1	3
2161	Competing instabilities of the extended Hubbard model on the triangular lattice: Truncated-unity functional renormalization group and application to moiré materials. Physical Review B, 2022, 106, .	1.1	7
2162	Ultralow Thermal Conductivity of Layered $\text{Bi}_2\text{O}_2\text{Se}$ Induced by Twisting. Advanced Functional Materials, 2022, 32, .	7.8	12

#	ARTICLE	IF	CITATIONS
2163	Graphene and Beyond: Recent Advances in Two-Dimensional Materials Synthesis, Properties, and Devices. ACS Nanoscience Au, 2022, 2, 450-485.	2.0	27
2164	Pairing symmetry of twisted bilayer graphene: A phenomenological synthesis. Physical Review B, 2022, 106, .	1.1	24
2165	Phonon-mediated Superconductivity in Two-dimensional MBP (M=Li, Na, Ti). Journal of Low Temperature Physics, 0, , .	0.6	0
2166	Functional renormalization of spinless triangular-lattice fermions: N-patch vs. truncated-unity scheme. European Physical Journal B, 2022, 95, .	0.6	3
2167	Topological materials for full-vector elastic waves. National Science Review, 2023, 10, .	4.6	7
2168	Filling- and interaction-modulated pairing symmetry in twisted bilayer graphene. Physical Review B, 2022, 106, .	1.1	2
2169	Designed growth of large bilayer graphene with arbitrary twist angles. Nature Materials, 2022, 21, 1263-1268.	13.3	45
2170	Tunable quantum criticalities in an isospin-extended Hubbard model simulator. Nature, 2022, 609, 479-484.	13.7	12
2171	Optical Sensing of Fractional Quantum Hall Effect in Graphene. Nano Letters, 2022, 22, 7363-7369.	4.5	11
2172	Spectroscopy of Twisted Bilayer Graphene Correlated Insulators. Physical Review Letters, 2022, 129, .	2.9	14
2173	Promotion of superconductivity in magic-angle graphene multilayers. Science, 2022, 377, 1538-1543.	6.0	42
2174	Electronic materials with nanoscale curved geometries. Nature Electronics, 2022, 5, 551-563.	13.1	16
2175	Designer flat bands: Topology and enhancement of superconductivity. Physical Review B, 2022, 106, .	1.1	6
2176	Lattice-Mismatch-Driven Small-Angle Moiré Twists in Epitaxially Grown 2D Vertical Layered Heterostructures. Advanced Materials, 0, , 2205403.	11.1	1
2177	Physical properties of the layered f -electron van der Waals magnet Ce_2Co_2 . Physical Review Materials, 2022, 6, .	0.9	1
2178	Magic angles in twisted bilayer graphene near commensuration: Towards a hypermagic regime. Physical Review B, 2022, 106, .	1.1	11
2179	Spontaneous spin-valley polarization in NbSe ₂ at a van der Waals interface. Nature Communications, 2022, 13, .	5.8	5
2180	Topological phase transition in magnon bands in a honeycomb ferromagnet driven by sublattice symmetry breaking. Physical Review B, 2022, 106, .	1.1	6

#	ARTICLE	IF	CITATIONS
2181	One-dimensional electronic states in a natural misfit structure. <i>Physical Review Materials</i> , 2022, 6, .	0.9	4
2182	Role of electromagnetic gauge-field fluctuations in the selection between chiral and nematic superconductivity. <i>Physical Review B</i> , 2022, 106, .	1.1	3
2183	Moiré Phonons in Magic-Angle Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 7791-7797.	4.5	14
2184	Novel two-dimensional PdSe phase: A puckered material with excellent electronic and optical properties. <i>Frontiers of Physics</i> , 2022, 17, .	2.4	4
2185	Interfacial Coupling and Modulation of van der Waals Heterostructures for Nanodevices. <i>Nanomaterials</i> , 2022, 12, 3418.	1.9	5
2186	Narrow bands in magnetic field and strong-coupling Hofstadter spectra. <i>Physical Review B</i> , 2022, 106, .	1.1	8
2187	Weak localization on moiré superlattice in twisted double bilayer graphene. <i>Japanese Journal of Applied Physics</i> , 2022, 61, 100907.	0.8	2
2188	Size-dependent ferroic phase transformations in GeSe nanoribbons. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	6
2189	Observation of Coexisting Dirac Bands and Moiré Flat Bands in Magic-Angle Twisted Trilayer Graphene. <i>Advanced Materials</i> , 2022, 34, .	11.1	15
2190	Electromagnetic Analog to Magic Angles in Twisted Bilayers of Two-Dimensional Media. <i>Physical Review Applied</i> , 2022, 18, .	1.5	4
2191	Manipulating Hubbard-type Coulomb blockade effect of metallic wires embedded in an insulator. <i>National Science Review</i> , 2023, 10, .	4.6	6
2192	Tuning moiré excitons in Janus heterobilayers for high-temperature Bose-Einstein condensation. <i>Science Advances</i> , 2022, 8, .	4.7	17
2193	Chiral superconductivity with enhanced quantized Hall responses in moiré transition metal dichalcogenides. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	6
2194	Strong interlayer coupling and stable topological flat bands in twisted bilayer photonic Moiré superlattices. <i>Light: Science and Applications</i> , 2022, 11, .	7.7	11
2195	Layer pseudospin magnetism in a transition metal dichalcogenide double-moiré system. <i>Physical Review B</i> , 2022, 106, .	1.1	3
2196	Effect of layered-coupling in twisted WSe ₂ moiré superlattices. <i>Nano Research</i> , 2023, 16, 3435-3442.	5.8	6
2197	Correlated metals and unconventional superconductivity in rhombohedral trilayer graphene: A renormalization group analysis. <i>Physical Review B</i> , 2022, 106, .	1.1	17
2198	Probing the interlayer mechanical coupling of 2D layered materials - A review. <i>Progress in Natural Science: Materials International</i> , 2022, 32, 528-537.	1.8	5

#	ARTICLE	IF	CITATIONS
2199	Corrugation-driven symmetry breaking in magic-angle twisted bilayer graphene. Communications Physics, 2022, 5, .	2.0	7
2200	Twisted bilayered graphenes at magic angles and Casimir interactions: correlation-driven effects. 2D Materials, 2023, 10, 014006.	2.0	5
2201	Role of electron-electron interaction in the plasmon modes of twisted bilayer graphene. Physical Review B, 2022, 106, .	1.1	4
2202	Quantum phases of dipolar bosons in a multilayer optical lattice. Physical Review A, 2022, 106, .	1.0	1
2203	Phononic twisted moiré lattice with quasicrystalline patterns. Applied Physics Letters, 2022, 121, 142202.	1.5	1
2204	The zoology of two-dimensional van der waals materials. , 2023, , 449-498.		1
2205	Is Pbam-32 thermodynamic stable comparing with diamond and graphite under variable P-T conditions?. Physical Chemistry Chemical Physics, 0, , .	1.3	0
2206	Van der Waals integration of artificial heterostructures and high-order superlattices. , 2023, 2, 20220034.		1
2207	Unconventional ferroelectricity in half-filling states of antiparallel stacking of twisted WSe ₂ . , 2023, 2, 20220033.		1
2208	Recent Advances in Ultrathin Chiral Metasurfaces by Twisted Stacking. Advanced Materials, 2023, 35, .	11.1	38
2209	A tunable monolithic SQUID in twisted bilayer graphene. Nature Nanotechnology, 2022, 17, 1159-1164.	15.6	19
2210	Giant nonlinear Hall effect in twisted bilayer WSe ₂ . National Science Review, 2023, 10, .	4.6	26
2211	Optically Probing the Asymmetric Interlayer Coupling in Rhombohedral-Stacked MoS ₂ Bilayer. Physical Review X, 2022, 12, .	2.8	9
2212	Moiré exciton condensate: Nonlinear Dirac point, broken-symmetry Bloch waves, and unusual optical selection rules. Physical Review B, 2022, 106, .	1.1	1
2213	Flat bands and band-touching from real-space topology in hyperbolic lattices. Physical Review B, 2022, 106, .	1.1	14
2214	Ferroelectric response to interlayer shifting and rotations in trilayer hexagonal Boron Nitride. Journal of Physics and Chemistry of Solids, 2023, 173, 111086.	1.9	2
2215	Emergent hypermagic manifold in twisted Kitaev bilayers. Physical Review B, 2022, 106, .	1.1	3
2216	Fractional correlated insulating states at one-third filled magic angle twisted bilayer graphene. Communications Physics, 2022, 5, .	2.0	4

#	ARTICLE	IF	CITATIONS
2235	Solvothermal growth of moiré superlattices in antimony telluride spiral-type nanoplates. <i>Frontiers in Materials</i> , 0, 9, .	1.2	0
2236	Giant ferroelectric polarization in a bilayer graphene heterostructure. <i>Nature Communications</i> , 2022, 13, .	5.8	20
2237	Aubry-André Anderson model: Magnetic impurities coupled to a fractal spectrum. <i>Physical Review B</i> , 2022, 106, .	1.1	0
2238	Self-organized quantum dots in marginally twisted MoSe ₂ /WSe ₂ and MoS ₂ /WS ₂ bilayers. <i>Npj 2D Materials and Applications</i> , 2022, 6, .	3.9	6
2239	Baby skyrmions in Chern ferromagnets and topological mechanism for spin-polaron formation in twisted bilayer graphene. <i>Nature Communications</i> , 2022, 13, .	5.8	5
2240	A Polymeric Planarization Strategy for Versatile Multiterminal Electrical Transport Studies on Small, Bulk Crystals. <i>ACS Applied Electronic Materials</i> , 2022, 4, 5550-5557.	2.0	2
2241	Localization and delocalization in networks with varied connectivity. <i>Physical Review A</i> , 2022, 106, .	1.0	1
2242	Tuning Band Gaps in Twisted Bilayer Borophene. <i>Journal of Physical Chemistry C</i> , 2022, 126, 17769-17776.	1.5	4
2243	Braiding Lateral Morphotropic Grain Boundaries in Homogenetic Oxides. <i>Advanced Materials</i> , 2023, 35, .	11.1	7
2244	Localization of light in 2D photonic Moiré superlattices. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 495111.	1.3	4
2245	Moiré modulation of charge density waves. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 494001.	0.7	1
2246	Dirac fermions with plaquette interactions. III. $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \text{SU} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle$ phase diagram with Gross-Neveu criticality and first-order phase transition. <i>Physical Review B</i> , 2022, 106, .	1.1	7
2247	Enhanced amplitude for superconductivity due to spectrum-wide wave function criticality in quasiperiodic and power-law random hopping models. <i>Physical Review B</i> , 2022, 106, .	1.1	7
2248	The carriers doping effect on electronic and optical behaviors of newly layered Sr _{1-x} Hf _x FBiS ₂ alloying materials for light-modulator devices. <i>Journal of Physics and Chemistry of Solids</i> , 2022, , 111097.	1.9	0
2249	Infrared photoresistance as a sensitive probe of electronic transport in twisted bilayer graphene. <i>2D Materials</i> , 2023, 10, 015005.	2.0	3
2250	Atomic-Scale Pentagraphene Ribbons Stabilized with Alkali Metals under Moderate Pressures. <i>Inorganic Chemistry</i> , 0, , .	1.9	1
2251	Light localization in defective periodic photonic moiré-like lattices. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2022, 39, 2291.	0.8	2
2252	Nanoscale View of Engineered Massive Dirac Quasiparticles in Lithographic Superstructures. <i>ACS Nano</i> , 2022, 16, 19354-19362.	7.3	2

#	ARTICLE	IF	CITATIONS
2253	Direct Observation of a Localized Flat-Band State in a Mapped Moiré Hubbard Photonic Lattice. <i>Physical Review Applied</i> , 2022, 18, .	1.5	2
2254	Moiré-driven reconstitution on electromagnetic energy transfer. <i>Materials Today Physics</i> , 2022, 28, 100891.	2.9	1
2255	Emerging Nonplanar van der Waals Nanoarchitectures from 2D Allotropes for Optoelectronics. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	4
2256	Photo-dynamics in 2D materials: Processes, tunability and device applications. <i>Physics Reports</i> , 2022, 993, 1-70.	10.3	4
2257	Electronic-level deciphering of the desalination mechanism of high-performance graphenylene membranes. <i>Journal of Membrane Science</i> , 2022, 664, 121068.	4.1	9
2258	Antiferromagnetism and chiral- π wave superconductivity in a honeycomb lattice close to Mott state. <i>Physica B: Condensed Matter</i> , 2023, 648, 414408.	1.3	1
2259	Perspectives on weak interactions in complex materials at different length scales. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 2671-2705.	1.3	10
2260	Atomic-Scale Confinement and Negative Refraction of Plasmons by Twisted Bilayer Graphene. <i>Nano Letters</i> , 2022, 22, 8975-8982.	4.5	2
2261	Engineering high quality graphene superlattices via ion milled ultra-thin etching masks. <i>Nature Communications</i> , 2022, 13, .	5.8	5
2262	Breaking Rotational Symmetry in Supertwisted WS_2 Spirals via Moiré Magnification of Intrinsic Heterostrain. <i>Nano Letters</i> , 2022, 22, 9027-9035.	4.5	11
2263	Flat bands and quasi-bound states in the continuum in a photonic Moiré lattice. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2023, 40, 260.	0.9	6
2264	Local atomic-morphology-resolved edge states in twisted bilayer graphene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 0, , .	0.7	1
2265	Machine Learning for Optical Scanning Probe Nanoscopy. <i>Advanced Materials</i> , 2023, 35, .	11.1	8
2266	Moiré flat bands of twisted few-layer graphite. <i>Frontiers of Physics</i> , 2023, 18, .	2.4	8
2267	A sport and a pastime: Model design and computation in quantum many-body systems. <i>Chinese Physics B</i> , 2022, 31, 127101.	0.7	5
2268	How graphenic are graphynes? Evidence for low-lying correlated gapped states in graphynes.	1.2	2
2269	ABC-stacked multilayer graphene in holography. <i>Journal of High Energy Physics</i> , 2022, 2022, .	1.6	3
2270	Terahertz Spin-Conjugate Symmetry Breaking for Nonreciprocal Chirality and One-Way Transmission Based on Magneto-Optical Moiré Metasurface. <i>Advanced Science</i> , 2023, 10, .	5.6	12

#	ARTICLE	IF	CITATIONS
2271	Determinant quantum Monte Carlo for the half-filled Hubbard model with nonlocal density-density interactions. <i>Physical Review B</i> , 2022, 106, .	1.1	5
2272	Correlated and topological physics in ABC-trilayer graphene moiré superlattices. , 2022, 1, .		1
2273	Charge Distribution and Spin Textures in Magic-Angle Twisted Bilayer Graphene. <i>JETP Letters</i> , 2022, 116, 729-736.	0.4	3
2274	Low energy excitation spectrum of magic-angle semimetals. <i>Physical Review B</i> , 2022, 106, .	1.1	0
2275	Raman Fingerprint of Interlayer Coupling in 2D TMDCs. <i>Nanomaterials</i> , 2022, 12, 3949.	1.9	6
2276	Doping a Mott insulator with excitons in a moiré bilayer: Fractional superfluid, neutral Fermi surface, and Mott transition. <i>Physical Review B</i> , 2022, 106, .	1.1	6
2277	Flat-band-induced superconductivity in synthetic bilayer optical lattices. <i>Physical Review B</i> , 2022, 106, .	1.1	1
2278	Localized dynamics arising from multiple flat bands in a decorated photonic Lieb lattice. <i>APL Photonics</i> , 2022, 7, 111301.	3.0	4
2279	Van der Waals-Interface-Dominated All-2D Electronics. <i>Advanced Materials</i> , 2023, 35, .	11.1	13
2280	Advance in two-dimensional twisted moiré materials: Fabrication, properties, and applications. <i>Nano Research</i> , 2023, 16, 2579-2596.	5.8	8
2281	Flat-Band-Induced Many-Body Interactions and Exciton Complexes in a Layered Semiconductor. <i>Nano Letters</i> , 2022, 22, 8883-8891.	4.5	1
2282	Tuning Quantum Phase Transitions at Half Filling in $3L$ Moiré Superlattices. <i>Physical Review X</i> , 2022, 12, .	2.8	3
2283	Dimensional crossover of a Rabi-Coupled two-component Bose-Einstein condensate in an optical lattice. <i>Communications in Theoretical Physics</i> , 0, , .	1.1	0
2284	Magnetic ground states of honeycomb lattice Wigner crystals. <i>Communications Physics</i> , 2022, 5, .	2.0	8
2285	Twisted lattice nanocavity with theoretical quality factor exceeding 200 billion. <i>Fundamental Research</i> , 2023, 3, 537-543.	1.6	4
2286	Interfacial engineering of halide perovskites and two-dimensional materials. <i>Chemical Society Reviews</i> , 2023, 52, 212-247.	18.7	13
2287	Preparation, properties and applications of two-dimensional superlattices. <i>Materials Horizons</i> , 2023, 10, 722-744.	6.4	4
2288	Research on the snow melting and defogging performance of graphene heating film coupled concrete road. <i>Applied Thermal Engineering</i> , 2023, 219, 119689.	3.0	5

#	ARTICLE	IF	CITATIONS
2289	Effect of spin-orbit interaction on flatbands and Landau levels in twisted double bilayer graphene. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2023, 147, 115602.	1.3	2
2290	TBPLaS: A tight-binding package for large-scale simulation. <i>Computer Physics Communications</i> , 2023, 285, 108632.	3.0	9
2291	Twistronics: Investigating Twist Angles in 2D Materials. , 2022, , 1-12.		0
2292	Conductivity of Two-Dimensional Small Gap Semiconductors and Topological Insulators in Strong Coulomb Disorder. <i>Journal of Experimental and Theoretical Physics</i> , 2022, 135, 409-425.	0.2	1
2293	Transport signatures of Van Hove singularities in mesoscopic twisted bilayer graphene. <i>Physical Review Research</i> , 2022, 4, .	1.3	4
2294	Magnetic Skyrmion Lattices in a Novel 2D Twisted Bilayer Magnet. <i>Advanced Functional Materials</i> , 2023, 33, .	7.8	15
2295	Chiral Majorana modes via proximity to a twisted cuprate bilayer. <i>Physical Review B</i> , 2022, 106, .	1.1	14
2296	Extraordinary Phonon Displacement and Giant Resonance Raman Enhancement in WSe_2/WSe_2 Moiré Heterostructures. <i>ACS Nano</i> , 2022, 16, 21505-21517.	7.3	4
2297	One Dimensional Twisted Van der Waals Structures Constructed by Self-Assembling Graphene Nanoribbons on Carbon Nanotubes. <i>Materials</i> , 2022, 15, 8220.	1.3	4
2298	<i>Colloquium</i> : Planckian dissipation in metals. <i>Reviews of Modern Physics</i> , 2022, 94, .	16.4	43
2299	Interface Superconductivity in a Dirac Semimetal NiTe ₂ . <i>Nanomaterials</i> , 2022, 12, 4114.	1.9	4
2300	Superconductivity and bosonic fluid emerging from moiré flat bands. <i>Physical Review B</i> , 2022, 106, .	1.1	13
2301	In Situ Growth Dynamics of Uniform Bilayer Graphene with Different Twisted Angles Following Layer-by-Layer Mode. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 11201-11207.	2.1	5
2302	<i>In situ</i> controllable magnetic phases in doped twisted bilayer transition metal dichalcogenides. <i>Physical Review Research</i> , 2022, 4, .	1.3	3
2303	Correlation driven near-flat band Stoner excitations in a Kagome magnet. <i>Nature Communications</i> , 2022, 13, .	5.8	1
2304	Magic-angle twisted bilayer systems with quadratic band touching: Exactly flat bands with high Chern number. <i>Physical Review Research</i> , 2022, 4, .	1.3	4
2305	Identifying the Active Sites of Heteroatom Graphene as a Conductive Membrane for the Electrochemical Filtration of Organic Contaminants. <i>International Journal of Molecular Sciences</i> , 2022, 23, 14967.	1.8	2
2306	Electric field tunable layer polarization in graphene/boron-nitride twisted quadrilayer superlattices. <i>Physical Review B</i> , 2022, 106, .	1.1	6

#	ARTICLE	IF	CITATIONS
2307	Metal-insulator transition in the disordered Hubbard model of the Lieb lattice. <i>Physical Review B</i> , 2022, 106, .	1.1	3
2308	Twist-engineered tunability in vertical MoS ₂ /MoSe ₂ heterostructure. <i>Applied Physics A: Materials Science and Processing</i> , 2023, 129, .	1.1	8
2309	Strongly correlated exciton-polarons in twisted homobilayer heterostructures. <i>Physical Review B</i> , 2022, 106, .	1.1	6
2311	Topological superconductivity from doping a triplet quantum spin liquid in a flat-band system. <i>Physical Review B</i> , 2022, 106, .	1.1	2
2312	Disorder-dominated quantum criticality in moiré bilayers. <i>Nature Communications</i> , 2022, 13, .	5.8	7
2313	Local Kekulé distortion turns twisted bilayer graphene into topological Mott insulators and superconductors. <i>Physical Review B</i> , 2022, 106, .	1.1	10
2314	Non-adiabatic Exciton Dynamics in van der Waals Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 11760-11769.	2.1	5
2315	Modulations in Superconductors: Probes of Underlying Physics. <i>Advanced Materials</i> , 2023, 35, .	11.1	0
2316	Strong Structural and Electronic Coupling in Metavalent PbS Moiré Superlattices. <i>Journal of the American Chemical Society</i> , 2022, 144, 23474-23482.	6.6	1
2317	Exotic Photonic Spin Hall Effect from a Chiral Interface. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	13
2318	Ultrasonic delamination based adhesion testing for high-throughput assembly of van der Waals heterostructures. <i>Journal of Applied Physics</i> , 2022, 132, .	1.1	2
2319	Cascade of transitions in twisted and non-twisted graphene layers within the van Hove scenario. <i>Npj Quantum Materials</i> , 2022, 7, .	1.8	4
2320	Only gold can pull this off: mechanical exfoliations of transition metal dichalcogenides beyond scotch tape. <i>Applied Physics A: Materials Science and Processing</i> , 2023, 129, .	1.1	7
2321	Engineering quantum states and electronic landscapes through surface molecular nanoarchitectures. <i>Reviews of Modern Physics</i> , 2022, 94, .	16.4	10
2322	Dirac spectroscopy of strongly correlated phases in twisted trilayer graphene. <i>Nature Materials</i> , 2023, 22, 316-321.	13.3	16
2323	Pixel-wise classification in graphene-detection with tree-based machine learning algorithms. <i>Machine Learning: Science and Technology</i> , 2022, 3, 045029.	2.4	1
2324	Superconductivity in the twisted bilayer transition metal dichalcogenide WSe_2 : A quantum cluster study. <i>Physical Review B</i> , 2022, 106, .	1.1	1
2325	Perpendicular electric field drives Chern transitions and layer polarization changes in Hofstadter bands. <i>Nature Communications</i> , 2022, 13, .	5.8	2

#	ARTICLE	IF	CITATIONS
2326	Interlayer coherence in superconductor bilayers. <i>Physical Review B</i> , 2022, 106, .	1.1	1
2327	Fabrication and Characterization of Pre-Defined Few-Layer Graphene. <i>Physchem</i> , 2023, 3, 13-21.	0.5	0
2328	Flat bands arising from spin-orbit assisted orbital frustration. <i>Physical Review B</i> , 2022, 106, .	1.1	0
2329	Bi2O2Se: A rising star for semiconductor devices. <i>Matter</i> , 2022, 5, 4274-4314.	5.0	20
2330	Robust Interlayer-Coherent Quantum Hall States in Twisted Bilayer Graphene. <i>Nano Letters</i> , 2023, 23, 163-169.	4.5	4
2331	Unconventional non-local relaxation dynamics in a twisted trilayer graphene moiré superlattice. <i>Nature Communications</i> , 2022, 13, .	5.8	5
2332	Doubled Moiré flat bands in double-twisted few-layer graphite. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	10
2333	Synthesis of Multilayer Graphene with Controlled C Supply. <i>Advanced Engineering Materials</i> , 2023, 25, .	1.6	0
2334	High-temperature superconductivity in two-dimensional hydrogenated titanium diboride: Ti2B2H4. <i>Materials Today Physics</i> , 2023, 30, 100954.	2.9	5
2335	On-chip light trapping in bilayer moiré photonic crystal slabs. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	13
2336	Self-Assembly Growth of Twisted Bilayer Graphene on Liquid Cu. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	3
2337	Heavy-fermion representation for twisted bilayer graphene systems. <i>Physical Review B</i> , 2022, 106, .	1.1	18
2338	Gap solitons in parity-time symmetric moiré optical lattices. <i>Photonics Research</i> , 2023, 11, 196.	3.4	13
2339	Recent Advances in Surface Modifications of Elemental Two-Dimensional Materials: Structures, Properties, and Applications. <i>Molecules</i> , 2023, 28, 200.	1.7	6
2341	Exotic states in moiré superlattices of twisted semiconducting transition metal dichalcogenides. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2023, 72, 027802. Mottness in two-dimensional van der Waals <mml:math>	0.2	1
2342	<math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:msub><mml:mi>X</mml:mi></mml:msub></mml:mrow></mml:mrow></math> X monolayers <math>		

#	ARTICLE	IF	CITATIONS
2346	Electric-field-induced metal-semiconductor transitions in twisted bilayers of WSe_2 . <i>Physical Review B</i> , 2023, 107, .	1.1	2
2347	Strong manipulation of the valley splitting upon twisting and gating in MoSe_2 and WSe_2 . <i>Physical Review B</i> , 2023, 107, .	1.1	10
2348	Optical and Electrical Properties of Low-Dimensional Crystalline Materials: A Review. <i>Crystals</i> , 2023, 13, 108.	1.0	3
2349	Pressure-induced reentrant Dirac semimetallic phases in twisted bilayer graphene. <i>Physical Review B</i> , 2023, 107, .	1.1	1
2350	Machine learning of the Γ -point gap and flat bands of twisted bilayer graphene at arbitrary angles. <i>Chinese Physics B</i> , 2023, 32, 057306.	0.7	1
2351	Near-field optical characterization of atomic structures and polaritons in twisted two-dimensional materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2023, 72, 027102.	0.2	2
2352	Graphene Oxide for Nonlinear Integrated Photonics. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	19
2353	Adjusting Crystal Orientation to Promote Sodium-Ion Transport in VS_8 @Graphene Anode Materials for High-Performance Sodium-Ion Batteries. <i>Small Methods</i> , 2023, 7, .	4.6	13
2354	High-angular-momentum topological superconductivities in twisted bilayer quasicrystal systems. <i>Physical Review B</i> , 2023, 107, .	1.1	7
2355	Mott Transition in the Hubbard Model on Anisotropic Honeycomb Lattice with Implications for Strained Graphene: Gutzwiller Variational Study. <i>International Journal of Molecular Sciences</i> , 2023, 24, 1509.	1.8	3
2356	Network model for periodically strained graphene. <i>Physical Review B</i> , 2023, 107, .	1.1	3
2357	Staggered pseudo magnetic field in twisted transition metal dichalcogenides: Physical origin and experimental consequences. <i>Physical Review Research</i> , 2023, 5, .	1.3	8
2358	Inversion Symmetry and Exotic Interlayer Exciton Behavior in Twisted Trilayer MoS_2 Produced by Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 4724-4732.	4.0	8
2359	Moiré potential renormalization and ultra-flat bands induced by quasiparticle-plasmon coupling. <i>Npj Computational Materials</i> , 2023, 9, .	3.5	2
2360	Ferroelectric valley valves with graphene/ MoTe_2 van der Waals heterostructures. <i>Nanoscale</i> , 0, , .	2.8	3
2361	Influence of vacancy defects on the electronic and optical properties of graphene/ MoS_2 heterostructures: A first principles study. <i>Materials Today Communications</i> , 2023, 34, 105313.	0.9	3
2362	Mechanical Characteristics of Diamond-Like Moiré Films. <i>JETP Letters</i> , 2022, 116, 737-744.	0.4	1
2363	Ion-gel-based light-emitting devices using transition metal dichalcogenides and hexagonal boron nitride heterostructures. <i>Japanese Journal of Applied Physics</i> , 0, , .	0.8	0

#	ARTICLE	IF	CITATIONS
2364	Stacking-induced magnetic frustration and spiral spin liquid. <i>Physical Review B</i> , 2022, 106, .	1.1	3
2365	Seeing moiré: Convolutional network learning applied to twistrionics. <i>Physical Review Research</i> , 2022, 4, .	1.3	0
2366	Spin-triplet superconductivity from intervalley Goldstone modes in magic-angle graphene. <i>Physical Review B</i> , 2022, 106, .	1.1	6
2367	Orbital-active Dirac materials from the symmetry principle. , 2022, 1, .		2
2368	Moiré Potential, Lattice Relaxation, and Layer Polarization in Marginally Twisted MoS ₂ Bilayers. <i>Nano Letters</i> , 2023, 23, 73-81.	4.5	6
2369	Twistrionics of Janus transition metal dichalcogenide bilayers. <i>Physical Review B</i> , 2022, 106, .	1.1	7
2370	OPTICAL PROPERTIES OF LOW-DIMENSIONAL SYSTEMS: METHODS OF THEORETICAL STUDY OF 2D MATERIALS. <i>Vestnik NĀ,C RK</i> , 2022, , 35-40.	0.1	0
2371	2D materials for neuromorphic devices. , 2023, , 259-285.		0
2372	Flat Bands for Electrons in Rhombohedral Graphene Multilayers with a Twin Boundary. <i>Advanced Materials Interfaces</i> , 2023, 10, .	1.9	3
2373	Unveiling Electronic Behaviors in Heterochiral Charge-Density-Wave Twisted Stacking Materials with 1.25 nm Unit Dependence. <i>ACS Nano</i> , 2023, 17, 2702-2710.	7.3	5
2374	Recent progress on fabrication and flat-band physics in 2D transition metal dichalcogenides moiré superlattices. <i>Journal of Semiconductors</i> , 2023, 44, 011901.	2.0	6
2376	Review of phonons in moiré superlattices. <i>Journal of Semiconductors</i> , 2023, 44, 011902.	2.0	6
2377	Commensurate and incommensurate double moiré interference in twisted trilayer graphene. <i>Physical Review B</i> , 2023, 107, .	1.1	5
2378	Thermodynamic Characteristic for a Correlated Flat-Band System with a Quantum Anomalous Hall Ground State. <i>Physical Review Letters</i> , 2023, 130, .	2.9	11
2379	The Moiré pattern rule of the twisted bilayer graphene and its electronic property under a strain. <i>European Physical Journal Plus</i> , 2023, 138, .	1.2	1
2380	Critical magnetic fields and electron pairing in magic-angle twisted bilayer graphene. <i>Physical Review B</i> , 2023, 107, .	1.1	3
2381	Phonon-limited resistivity of multilayer graphene systems. <i>Physical Review B</i> , 2023, 107, .	1.1	1
2382	The twisted two-dimensional ferroelectrics. <i>Journal of Semiconductors</i> , 2023, 44, 011002.	2.0	1

#	ARTICLE	IF	CITATIONS
2383	Substrate engineering for wafer-scale two-dimensional material growth: strategies, mechanisms, and perspectives. <i>Chemical Society Reviews</i> , 2023, 52, 1650-1671.	18.7	24
2384	Optical spectroscopy study of two-dimensional materials. , 2023, , 305-335.		0
2385	Strong gate-tunability of flat bands in bilayer graphene due to moiré encapsulation between hBN monolayers. <i>Nanoscale</i> , 2023, 15, 4561-4569.	2.8	3
2386	Colloquium : Quantum anomalous Hall effect. <i>Reviews of Modern Physics</i> , 2023, 95, .	16.4	88
2387	Moiré-induced bandgap tuning by varying electric dipole in InSe/CuSe vertical heterostructure. <i>Applied Physics Letters</i> , 2023, 122, .	1.5	3
2388	Moiré-superlattice MXenes enabled ultra-stable K-ion storage in neutral electrolyte. <i>Nano Research</i> , 2023, 16, 5006-5017.	5.8	3
2389	Two-dimensional superconductors with intrinsic p-wave pairing or nontrivial band topology. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	9
2390	Controlling Exchange Interactions and Emergent Magnetic Phenomena in Layered 3d π -Orbital Ferromagnets. , 2023, 2, .		1
2391	Moiré heterostructures: highly tunable platforms for quantum simulation and future computing. <i>Journal of Semiconductors</i> , 2023, 44, 010301.	2.0	3
2392	Excitonic Chern insulator and kinetic ferromagnetism in a MoTe_2 bilayer. <i>Physical Review B</i> , 2023, 107, .		
2393	Isospin- and momentum-polarized orders in bilayer graphene. <i>Physical Review B</i> , 2023, 107, .	1.1	11
2394	Novel electrical properties of moiré graphene systems. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2023, 72, 067302.	0.2	0
2395	Twist angle-dependent work functions in CVD-grown twisted bilayer graphene probed by Kelvin probe force microscopy. <i>Nanoscale</i> , 2023, 15, 5825-5833.	2.8	1
2396	A natural indirect-to-direct band gap transition in artificially fabricated MoS_2 and MoSe_2 flowers. <i>Nanoscale</i> , 2023, 15, 7792-7802.	2.8	2
2397	Defect engineering of two-dimensional materials for advanced energy conversion and storage. <i>Chemical Society Reviews</i> , 2023, 52, 1723-1772.	18.7	66
2398	Optical properties and polaritons of low symmetry 2D materials. , 2023, 2, R03.		11
2399	Advances in the understanding of the structure-performance relationships of 2D material catalysts based on electron microscopy. <i>Materials Chemistry Frontiers</i> , 2023, 7, 2764-2778.	3.2	6
2400	Phase diagram of twisted bilayer graphene at filling factor $\nu = \pm 1/2$. <i>Physical Review B</i> , 2023, 107, .		

#	ARTICLE	IF	CITATIONS
2401	Continuum effective Hamiltonian for graphene bilayers for an arbitrary smooth lattice deformation from microscopic theories. <i>Physical Review B</i> , 2023, 107, .	1.1	10
2402	Chiral Decomposition of Twisted Graphene Multilayers with Arbitrary Stacking. <i>Nano Letters</i> , 2023, 23, 2921-2926.	4.5	7
2403	Synthetic twisted bilayers made using atoms and light. <i>Science Bulletin</i> , 2023, 68, 557-558.	4.3	0
2404	Lifshitz symmetry: Lie algebras, spacetimes and particles. <i>SciPost Physics</i> , 2023, 14, .	1.5	5
2405	Moiré phonons in graphene/hexagonal boron nitride moiré superlattice. <i>Physical Review B</i> , 2023, 107, .	1.1	4
2406	Domain-Dependent Surface Adhesion in Twisted Few-Layer Graphene: Platform for Moiré-Assisted Chemistry. <i>Nano Letters</i> , 2023, 23, 3137-3143.	4.5	4
2407	Inducing Single Spin-Polarized Flat Bands in Monolayer Graphene. <i>Advanced Materials</i> , 2023, 35, .	11.1	2
2408	Functional Renormalization Group Study of Superconductivity in Rhombohedral Trilayer Graphene. <i>Physical Review Letters</i> , 2023, 130, .	2.9	9
2409	Neutral Magic-Angle Bilayer Graphene: Condon Instability and Chiral Resonances. <i>Small Science</i> , 2023, 3, .	5.8	2
2410	Moiré-driven multiferroic order in twisted CrCl ₃ , CrBr ₃ and CrI ₃ bilayers. <i>2D Materials</i> , 2023, 10, 025026.	2.0	12
2411	Look-alike Landau levels in locally biased twisted bilayer graphene. <i>Physica B: Condensed Matter</i> , 2023, 658, 414826.	1.3	0
2412	One-dimensional flat bands and Dirac cones in narrow zigzag dice lattice ribbons. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2023, 293, 116486.	1.7	1
2413	Fabrication, energy band engineering, and strong correlations of two-dimensional van der Waals moiré superlattices. <i>Nano Today</i> , 2023, 50, 101829.	6.2	0
2414	Topological and nodal superconductor kagome magnesium triboride. <i>Physical Review Materials</i> , 2023, 7, .	0.9	3
2415	Cooperative effect of strain and electric field on Schottky barriers in van der Waals heterostructure of graphene and hydrogenated phosphorus carbide. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2023, 148, 115665.	1.3	2
2416	Strong Interlayer Coupling in Twisted Transition Metal Dichalcogenide Moiré Superlattices. <i>Advanced Materials</i> , 2023, 35, .	11.1	6
2417	Chirality as generalized spin-orbit interaction in spintronics. <i>Physics Reports</i> , 2023, 1009, 1-115.	10.3	30
2418	Universality of moiré physics in collapsed chiral carbon nanotubes. <i>Carbon</i> , 2023, 205, 394-401.	5.4	5

#	ARTICLE	IF	CITATIONS
2419	Electrical switching of a bistable moiré superconductor. Nature Nanotechnology, 2023, 18, 331-335.	15.6	9
2420	Multiband flattening and linear Dirac band structure in graphene with impurities. Physical Review B, 2023, 107, .	1.1	0
2421	Optimal twist angle for a graphene-like bilayer. Journal of Physics Condensed Matter, 2023, 35, 165302.	0.7	0
2422	A primer on twistrionics: a massless Dirac fermion's journey to moiré patterns and flat bands in twisted bilayer graphene. Journal of Physics Condensed Matter, 2023, 35, 143001.	0.7	2
2423	Remarkably Deep Moiré Potential for Intralayer Excitons in MoSe ₂ /MoS ₂ Twisted Heterobilayers. Nano Letters, 2023, 23, 1306-1312.	4.5	11
2424	Gap labeling theorem for multilayer thin film heterostructures. Physical Review B, 2023, 107, .	1.1	0
2425	Anomalous quantum oscillations in AA and AB bilayer graphene. Physica B: Condensed Matter, 2023, 654, 414720.	1.3	1
2426	Pseudomagnetic fields, particle-hole asymmetry, and microscopic effective continuum Hamiltonians of twisted bilayer graphene. Physical Review B, 2023, 107, .	1.1	16
2427	Strain disorder and gapless intervalley coherent phase in twisted bilayer graphene. Physical Review B, 2023, 107, .	1.1	1
2428	Modified Dirac Fermions in the Crystalline Xenon and Graphene Moiré Heterostructure. , 2023, 2, .		2
2429	Magnon Interference Tunneling Spectroscopy as a Probe of 2D Magnetism. Physical Review Letters, 2023, 130, .	2.9	5
2430	Tunable Superconductivity and Måbius Fermi Surfaces in an Inversion-Symmetric Twisted van der Waals Heterostructure. Physical Review Letters, 2023, 130, .	2.9	3
2431	Holographic Lieb lattice and gapping its Dirac band. Journal of High Energy Physics, 2023, 2023, .	1.6	0
2432	Quantum metric induced phases in Moiré materials. Physical Review Research, 2023, 5, .	1.3	11
2433	Construction of twisted graphene-silicene heterostructures. Nano Research, 2023, 16, 7926-7930.	5.8	1
2434	Far-field coupling between moiré photonic lattices. Nature Nanotechnology, 2023, 18, 514-520.	15.6	13
2436	Flat band and Lifshitz transition in long-range-ordered supergraphene obtained by Erbium intercalation. Physical Review Research, 2023, 5, .	1.3	3
2437	First-principles study on tuning electronic and optical properties in graphene rotation on h-BN. Chemical Physics Letters, 2023, 815, 140366.	1.2	0

#	ARTICLE	IF	CITATIONS
2438	Resistive-switching behavior in stacked graphene diode. Japanese Journal of Applied Physics, 2023, 62, SG1031.	0.8	0
2439	Electron doping of a double-perovskite flat-band system. Proceedings of the National Academy of Sciences of the United States of America, 2023, 120, .	3.3	1
2440	Formation of Artificial Fermi Surfaces with a Triangular Superlattice on a Conventional Two-Dimensional Electron Gas. Nano Letters, 2023, 23, 1705-1710.	4.5	3
2441	Evidence for Dirac flat band superconductivity enabled by quantum geometry. Nature, 2023, 614, 440-444.	13.7	23
2442	Twisted bilayer BC_3 : Valley interlocked anisotropic flat bands. Physical Review B, 2023, 107, .		
2443	Anderson's Theorem for Correlated Insulating States in Twisted Bilayer Graphene. Physical Review Letters, 2023, 130, .	2.9	4
2444	Berry curvature, spin Hall effect, and nonlinear optical response in moiré transition metal dichalcogenide heterobilayers. Physical Review B, 2023, 107, .	1.1	2
2445	Mechanisms for magnetic skyrmion catalysis and topological superconductivity. Physical Review Research, 2023, 5, .	1.3	4
2446	Large Valley Nernst Effect in Twisted Multilayer Graphene Systems. Chinese Physics B, 0, , .	0.7	0
2447	Transport evidence of superlattice Dirac cones in graphene monolayer on twisted boron nitride substrate. 2D Materials, 2023, 10, 025016.	2.0	3
2448	Observation of Linear and Nonlinear Light Localization at the Edges of Moiré Arrays. Physical Review Letters, 2023, 130, .	2.9	13
2449	Absence of edge states in the valley Chern insulator in moiré graphene. Physical Review B, 2023, 107, .	1.1	1
2450	Atomic Bose-Einstein condensate in twisted-bilayer optical lattices. Nature, 2023, 615, 231-236.	13.7	30
2451	Predicted novel Janus $\hat{\Gamma}^3\text{-Ge}_2\text{XY}$ ($X/Y = \text{S, Se, Te}$) monolayers with Mexican-hat dispersions and high carrier mobilities. Journal Physics D: Applied Physics, 2023, 56, 135302.	1.3	5
2452	Controlling quantum phases of electrons and excitons in moiré superlattices. Journal of Applied Physics, 2023, 133, 080901.	1.1	1
2453	The quantum twisting microscope. Nature, 2023, 614, 682-687.	13.7	25
2454	Twisted bilayer zigzag-graphene nanoribbon junctions with tunable edge states. Nature Communications, 2023, 14, .	5.8	11
2455	Emergence of flat bands in twisted bilayer C_3N induced by simple localization and destructive interference. Physical Review B, 2023, 107, .	1.1	1

#	ARTICLE	IF	CITATIONS
2456	Perspective on Meta-Boundaries. ACS Photonics, 0, , .	3.2	2
2457	Spin-Phonon Coupling in Two-Dimensional Magnetic Materials. , 2023, , .		4
2458	Multilayered Atomic Relaxation in van der Waals Heterostructures. Physical Review X, 2023, 13, .	2.8	4
2459	Magnetic excitations, phase diagram, and order-by-disorder in the extended triangular-lattice Hubbard model. Physical Review B, 2023, 107, .	1.1	2
2460	Monolayer and bilayer PtCl_3 : Energetics, magnetism, and band topology. Physical Review B, 2023, 107, .		4
2461	Multilayer graphenes as a platform for interaction-driven physics and topological superconductivity. Physical Review B, 2023, 107, .	1.1	15
2462	Topology Hierarchy of Transition Metal Dichalcogenides Built from Quantum Spin Hall Layers. Advanced Materials, 2023, 35, .	11.1	2
2463	Truncated atomic plane wave method for subband structure calculations of moiré systems. Physical Review B, 2023, 107, .	1.1	2
2464	Preparation and Raman spectroscopy of low-angle twisted trilayer graphene. , 2023, , .		0
2465	Sensitivity enhanced tunable plasmonic biosensor using two-dimensional twisted bilayer graphene superlattice. Nanophotonics, 2023, 12, 1271-1284.	2.9	6
2466	Exciton insulator in a moiré lattice. Wuli Xuebao/Acta Physica Sinica, 2023, 72, 067101.	0.2	0
2467	High-pressure studies of atomically thin van der Waals materials. Applied Physics Reviews, 2023, 10, .	5.5	9
2468	Formation of Large-Area Twisted Bilayer Graphene on Ni(111) Film via Ambient Pressure Chemical Vapor Deposition. ACS Applied Electronic Materials, 2023, 5, 1592-1599.	2.0	1
2469	Competition of density waves and superconductivity in twisted tungsten diselenide. Physical Review Research, 2023, 5, .	1.3	5
2470	Unconventional gapless semiconductor in an extended martini lattice in covalent honeycomb materials. Physical Review B, 2023, 107, .	1.1	0
2471	Bistritzer-MacDonald dynamics in twisted bilayer graphene. Journal of Mathematical Physics, 2023, 64, .	0.5	4
2472	Non-Abelian topological superconductivity in maximally twisted double-layer spin-triplet valley-singlet superconductors. Communications Physics, 2023, 6, .	2.0	2
2473	Emergent second-harmonic generation in van der Waals heterostructure of bilayer MoS_2 and monolayer graphene. Science Advances, 2023, 9, .	4.7	6

#	ARTICLE	IF	CITATIONS
2474	Raman spectroscopic studies on the evolution of interlayer coupling and stacking order in twisted bilayers and polytypes of WSe_2 . Journal of Applied Physics, 2023, 133, 114301.	1.1	0
2475	Topological nature of dislocation networks in two-dimensional moiré materials. Physical Review B, 2023, 107, .	1.1	11
2476	Epitaxial growth of borophene on substrates. Progress in Surface Science, 2023, 98, 100704.	3.8	4
2477	Dynamic stability in spinor Bose gases in moiré lattices with square and hexagonal symmetries. Physical Review A, 2023, 107, .	1.0	0
2478	Coupled Ferroelectricity and Correlated States in a Twisted Quadrilayer MoS_2 Moiré Superlattice. Chinese Physics Letters, 2023, 40, 047303.	1.3	3
2479	Higher-order topological superconductivity in twisted bilayer graphene. Physical Review B, 2023, 107, .	1.1	6
2480	A van der Waals Heterostructure with an Electronically Textured Moiré Pattern: $PtSe_2/PtTe_2$. ACS Nano, 2023, 17, 5913-5920.	7.3	1
2481	Unique Electronic Properties of the Twisted Bilayer Graphene. Physica Status Solidi (B): Basic Research, 2023, 260, .	0.7	1
2482	Valley-polarized nematic order in twisted moiré systems: In-plane orbital magnetism and crossover from non-Fermi liquid to Fermi liquid. Physical Review B, 2023, 107, .	1.1	2
2483	Realization of independent contacts in barrier-separated InAs/GaSb quantum wells. Applied Physics Letters, 2023, 122, .	1.5	1
2484	Electronic properties of twisted bilayer graphene suspended and encapsulated with hexagonal boron nitride. Physical Review B, 2023, 107, .	1.1	3
2485	Joining and arrangement of multilayers: A string representation for honeycomb layered materials. Matter, 2023, , .	5.0	0
2486	Bias dependence of the interlayer conductance in moiré tunnel junctions. Results in Physics, 2023, 47, 106379.	2.0	1
2487	van der Waals heterostructures. , 2024, , 310-328.		0
2488	Data-Driven Design of High-Performance Graphene-Based Seawater Desalination Membranes. ACS Applied Nano Materials, 2023, 6, 5889-5900.	2.4	8
2489	Asymmetry effects on the phases of RKKY-coupled two-impurity Kondo systems. Physical Review B, 2023, 107, .	1.1	1
2490	Polar meron-antimeron networks in strained and twisted bilayers. Nature Communications, 2023, 14, .	5.8	9
2491	Signatures of hot carriers and hot phonons in the re-entrant metallic and semiconducting states of Moiré-gapped graphene. Nature Communications, 2023, 14, .	5.8	3

#	ARTICLE	IF	CITATIONS
2492	Perspectives of spin-valley locking devices. Chinese Physics B, 0, , .	0.7	1
2493	Gate-controlled localization to delocalization transition of flat band wavefunction in twisted monolayer-bilayer graphene. Chinese Physics B, 0, , .	0.7	0
2494	Second Harmonic Generation in van der Waals Heterostructure of Centrosymmetric ReS ₂ and Graphene. Advanced Optical Materials, 2023, 11, .	3.6	4
2495	Supermoiré low-energy effective theory of twisted trilayer graphene. Physical Review B, 2023, 107, .	1.1	11
2496	Chiral zero-energy modes in the disordered lattice. Physical Review B, 2023, 107, .	1.1	2
2497	Mott transition, Widom line, and pseudogap in the half-filled triangular lattice Hubbard model. Physical Review B, 2023, 107, .	1.1	2
2498	Fabrication and applications of van der Waals heterostructures. International Journal of Extreme Manufacturing, 2023, 5, 022007.	6.3	6
2499	Vertical Stress Induced Anomalous Spectral Shift of 13.17° Moiré Superlattice in Twist Bilayer Graphene. Molecules, 2023, 28, 3015.	1.7	3
2500	Tunable correlation in twisted monolayer-trilayer graphene. Chinese Physics B, 0, , .	0.7	2
2501	Vanadium-Containing Planar Heterostructures Based on Topological Insulators. JETP Letters, 2023, 117, 228-233.	0.4	0
2502	Growth and applications of two-dimensional single crystals. 2D Materials, 2023, 10, 032001.	2.0	4
2503	Stacking order and driving forces in the layered charge density wave phase of 1T-MX ₂ (M = Nb, Ta and X) Tj ETQq1 1 0.7843 14 rgBT / 0.8	0.8	14
2504	Topological invariant and domain connectivity in moiré materials. Physical Review B, 2023, 107, .	1.1	1
2505	Moiré photonics and optoelectronics. Science, 2023, 379, .	6.0	34
2506	Covalent bonded bilayers from germanene and stanene with topological giant capacitance effects. Npj 2D Materials and Applications, 2023, 7, .	3.9	6
2507	Moiré engineering in 2D heterostructures with process-induced strain. Applied Physics Letters, 2023, 122, .	1.5	7
2509	Across-Layer Sliding Ferroelectricity in 2D Heterolayers. Advanced Functional Materials, 2023, 33, .	7.8	14
2510	Moiré Pattern Formation in Epitaxial Growth on a Covalent Substrate: Sb on InSb(111)A. Nano Letters, 2023, 23, 3189-3195.	4.5	1

#	ARTICLE	IF	CITATIONS
2511	Generating Coherent Phonon Waves in Narrow-Band Materials: A Twisted Bilayer Graphene Phaser. Physical Review Letters, 2023, 130, .	2.9	1
2512	Chern insulator phases and spontaneous spin and valley order in a moiré lattice model for magic-angle twisted bilayer graphene. Physical Review B, 2023, 107, .	1.1	2
2513	Moiré Lattice in One-Dimensional Synthetic Frequency Dimension. Physical Review Letters, 2023, 130, .	2.9	8
2514	Strong correlations in ABC-stacked trilayer graphene: Moiré is important. Physical Review B, 2023, 107, .	1.1	5
2515	Superconductivity and correlated phases in non-twisted bilayer and trilayer graphene. Nature Reviews Physics, 2023, 5, 304-315.	11.9	15
2516	Rational Engineering of 2D Materials as Advanced Catalyst Cathodes for High-Performance Metal-Free Carbon Dioxide Batteries. Small Structures, 2023, 4, .	6.9	2
2517	1D Electronic Flat Bands in Untwisted Moiré Superlattices. Advanced Materials, 2023, 35, .	11.1	6
2518	Computational simulation of self-cleaning carbon-based membranes with zeolite porous structure for desalination. Diamond and Related Materials, 2023, 136, 109925.	1.8	1
2519	ξ -Josephson junction in twisted bilayer graphene induced by a valley-polarized state. Physical Review Research, 2023, 5, .	1.3	10
2520	Tuning of Interlayer Interaction in MoS ₂ -WS ₂ van der Waals Heterostructures Using Hydrostatic Pressure. Journal of Physical Chemistry C, 2023, 127, 7784-7791.	1.5	1
2521	Moiré straintronics: a universal platform for reconfigurable quantum materials. Npj 2D Materials and Applications, 2023, 7, .	3.9	7
2522	Epitaxial growth of trilayer Graphene Moiré superlattice. Chinese Physics B, 0, , .	0.7	0
2523	Interlayer torsional sliding and strain localization in bilayer graphene. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2023, 479, .	1.0	0
2524	Two-dimensional Mg ₂ Si-111: A direct bandgap semiconductor with excellent optical response properties predicted by first-principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2023, 475, 128849.	0.9	1
2525	Acoustic Multiplexing Based on Higher-Order Topological Insulators with Combined Valley and Layer Degrees of Freedom. Physical Review Applied, 2023, 19, .	1.5	2
2526	First principles investigation of screened Coulomb interaction and electronic structure of low-temperature phase TaS ₂ . IScience, 2023, 26, 106681.	1.9	2
2527	Causal structure of interacting Weyl fermions in condensed matter systems. Nature Communications, 2023, 14, .	5.8	0
2528	Designing a Transition Photonic Band with a Moiré Synthetic Sphere. Physical Review Applied, 2023, 19, .	1.5	0

#	ARTICLE	IF	CITATIONS
2529	Enigma of the vortex state in a strongly correlated d -wave superconductor. Physical Review B, 2023, 107, .	1.1	1
2530	Quantum size effects in stacked multilayer graphene. Physica Scripta, 0, , .	1.2	0
2531	Magic angle in thermal conductivity of twisted bilayer graphene. Materials Today Physics, 2023, 35, 101093.	2.9	12
2532	Photonic van der Waals integration from 2D materials to 3D nanomembranes. Nature Reviews Materials, 2023, 8, 498-517.	23.3	39
2533	Electric backaction on moiré mechanics. Physical Review B, 2023, 107, .	1.1	0
2535	Moiré magnetic exchange interactions in twisted magnets. Nature Computational Science, 2023, 3, 314-320.	3.8	11
2564	On-Chip Sub-Diffraction THz Spectroscopy of Materials and Liquids. , 0, , .		0
2577	Investigation of Properties of Patterned Dielectric Superlattice Using Computational Methods. , 2023, , 285-299.		0
2588	Fast Twist Angle Mapping of Bilayer Graphene Using Spectroscopic Ellipsometric Contrast Microscopy. Nano Letters, 2023, 23, 5506-5513.	4.5	2
2641	Abnormal Metal-Semiconductor-Like Transition and Exceptional Enhanced Superconducting State in Pressurized Restacked TaS ₂ . Journal of the American Chemical Society, 2023, 145, 14581-14586.	6.6	5
2678	A good tip. Nature Physics, 0, , .	6.5	0
2682	Layer-Dependent Interaction Effects in the Electronic Structure of Twisted Bilayer Graphene Devices. Nano Letters, 2023, 23, 6799-6806.	4.5	1
2683	Hofstadter butterfly in graphene. , 2024, , 724-731.		0
2685	Polaritonic Probe of an Emergent 2D Dipole Interface. Nano Letters, 0, , .	4.5	0
2696	Twisted bilayer graphene. , 2024, , 288-294.		0
2702	Ferromagnetism in sp ² carbon. Nano Research, 2023, 16, 12883-12900.	5.8	0
2710	Unconventional charge order and superconductivity in kagome-lattice systems as seen by muon-spin rotation. Npj Quantum Materials, 2023, 8, .	1.8	1
2730	Small twist, big miracle—recent progress in the fabrication of twisted 2D materials. Journal of Materials Chemistry C, 0, , .	2.7	0

#	ARTICLE	IF	CITATIONS
2731	Towards bubble-free, centimeter-sized bilayer graphene enabled by backside lamination. <i>Journal of Materials Chemistry C</i> , 2023, 11, 11814-11821.	2.7	0
2738	Quantum states and intertwining phases in kagome materials. <i>Nature Reviews Physics</i> , 2023, 5, 635-658.	11.9	2
2754	p-Type Two-Dimensional Semiconductors: From Materials Preparation to Electronic Applications. <i>Nano-Micro Letters</i> , 2023, 15, .	14.4	2
2763	Strong correlations in two-dimensional transition metal dichalcogenides. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	1
2789	A New Era of Quantum Materials Mastery and Quantum Simulators In and Out of Equilibrium. <i>Lecture Notes in Physics</i> , 2023, , 1-39.	0.3	2
2841	Liquid Cu-Zn catalyzed growth of graphene single-crystals. <i>New Journal of Chemistry</i> , 2023, 47, 20703-20707.	1.4	2
2849	Vapour-phase deposition of two-dimensional layered chalcogenides. <i>Nature Reviews Materials</i> , 2023, 8, 799-821.	23.3	1
2856	Enriching 2D transition metal borides <i>via</i> MB XMenes (M = Fe, Co, Ir): Strong correlation and magnetism. <i>Nanoscale Horizons</i> , 0, , .	4.1	0
2887	Coexistence of Flat Band and Kekulé Order. <i>Springer Theses</i> , 2023, , 59-67.	0.0	0
2903	Interlayer exciton dynamics of transition metal dichalcogenide heterostructures under electric fields. <i>Nano Research</i> , 0, , .	5.8	1
2915	Extreme light confinement and control in low-symmetry phonon-polaritonic crystals. <i>Nature Reviews Materials</i> , 2024, 9, 9-28.	23.3	1
2952	Engineering correlated insulators in bilayer graphene with a remote Coulomb superlattice. <i>Nature Materials</i> , 2024, 23, 189-195.	13.3	1
2955	Various Stacking Patterns of Two-Dimensional Molecular Assemblies in Hydrogen-Bonded Cocrystals: Insight into Competitive Intermolecular Interactions and Control of Stacking Patterns. <i>Springer Theses</i> , 2024, , 45-76.	0.0	0
2961	Precise synthesis of graphene by chemical vapor deposition. <i>Nanoscale</i> , 2024, 16, 4407-4433.	2.8	0
3010	Stacking of two-dimensional materials. , 2024, , 419-474.		0
3024	Stacking engineering in layered homostructures: transitioning from 2D to 3D architectures. <i>Physical Chemistry Chemical Physics</i> , 2024, 26, 7988-8012.	1.3	0
3031	Van der Waals integration: Enables quantum explorations and innovative devices. <i>MRS Bulletin</i> , 0, , .	1.7	0