

Xiaodong Xu

List of Publications by Year in Descending Order

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

150 papers	24,627 citations	61 h-index	156 g-index
159 ext. papers	31,430 ext. citations	15.9 avg, IF	7.22 L-index

#	Paper	IF	Citations
150	The study of displacement damage in AlGa _N /Ga _N high electron mobility transistors based on experiment and simulation method. <i>IEEE Transactions on Nuclear Science</i> , 2022 , 1-1	1.7	1
149	Reversible strain-induced magnetic phase transition in a van der Waals magnet.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	9
148	First-Principles Calculations for the Impact of Hydrogenation on the Electron Behavior and Stability of Borophene Nanosheets: Implications for Boron 2D Electronics. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1419-1425	5.6	1
147	Nano-spectroscopy of excitons in atomically thin transition metal dichalcogenides.. <i>Nature Communications</i> , 2022 , 13, 542	17.4	3
146	Long-range transport of 2D excitons with acoustic waves.. <i>Nature Communications</i> , 2022 , 13, 1334	17.4	3
145	Electric control of a canted-antiferromagnetic Chern insulator.. <i>Nature Communications</i> , 2022 , 13, 1668	17.4	4
144	The Potential of Phosphorus Nitride Monolayer for Li ⁺ Battery from the Anchoring and Diffusing Perspective: A First-Principles Study. <i>Advanced Theory and Simulations</i> , 2022 , 5, 2100305	3.5	0
143	Evidence for equilibrium exciton condensation in monolayer WTe ₂ . <i>Nature Physics</i> , 2022 , 18, 94-99	16.2	4
142	Light-induced ferromagnetism in moiré superlattices.. <i>Nature</i> , 2022 , 604, 468-473	50.4	5
141	Phase engineering of Cr ₅ Te ₈ with colossal anomalous Hall effect. <i>Nature Electronics</i> , 2022 , 5, 224-232	28.4	10
140	Spin photovoltaic effect in magnetic van der Waals heterostructures. <i>Science Advances</i> , 2021 , 7, eabg8094	14.3	0
139	Determination of the Spin Axis in Quantum Spin Hall Insulator Candidate Monolayer WTe ₂ . <i>Physical Review X</i> , 2021 , 11,	9.1	2
138	Excitons and emergent quantum phenomena in stacked 2D semiconductors. <i>Nature</i> , 2021 , 599, 383-392	50.4	24
137	Direct visualization of magnetic domains and moiré magnetism in twisted 2D magnets. <i>Science</i> , 2021 , 374, 1140-1144	33.3	21
136	Unraveling Strain Gradient Induced Electromechanical Coupling in Twisted Double Bilayer Graphene Moiré Superlattices. <i>Advanced Materials</i> , 2021 , 33, e2105879	24	7
135	Magnetism and Its Structural Coupling Effects in 2D Ising Ferromagnetic Insulator VI. <i>Nano Letters</i> , 2021 , 21, 9180-9186	11.5	7
134	Imaging Graphene Moiré Superlattices via Scanning Kelvin Probe Microscopy. <i>Nano Letters</i> , 2021 , 21, 3280-3286	11.5	3

133	Magnetic domains and domain wall pinning in atomically thin CrBr revealed by nanoscale imaging. <i>Nature Communications</i> , 2021 , 12, 1989	17.4	20
132	Intertwined Topological and Magnetic Orders in Atomically Thin Chern Insulator MnBiTe. <i>Nano Letters</i> , 2021 , 21, 2544-2550	11.5	26
131	Van der Waals epitaxial growth of air-stable CrSe nanosheets with thickness-tunable magnetic order. <i>Nature Materials</i> , 2021 , 20, 818-825	27	68
130	Highly anisotropic excitons and multiple phonon bound states in a van der Waals antiferromagnetic insulator. <i>Nature Nanotechnology</i> , 2021 , 16, 655-660	28.7	18
129	Magnetic Order and Symmetry in the 2D Semiconductor CrSBr. <i>Nano Letters</i> , 2021 , 21, 3511-3517	11.5	27
128	Giant Out-of-Plane Second Harmonic Generation Susceptibility in Janus Group III Chalcogenide Monolayers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 11285-11293	3.8	4
127	Quantum oscillations in the field-induced ferromagnetic state of MnBi ₂ SbTe ₄ . <i>Physical Review B</i> , 2021 , 103,	3.3	3
126	Observation of Single-Electron Transport and Charging on Individual Point Defects in Atomically Thin WSe ₂ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14056-14064	3.8	0
125	Effect of Hydrogen on Radiation-Induced Displacement Damage in AlGaN/GaN HEMTs. <i>IEEE Transactions on Nuclear Science</i> , 2021 , 68, 1258-1264	1.7	3
124	Interlayer electronic coupling on demand in a 2D magnetic semiconductor. <i>Nature Materials</i> , 2021 , 20, 1657-1662	27	12
123	Direct observation of two-dimensional magnons in atomically thin CrI ₃ . <i>Nature Physics</i> , 2021 , 17, 20-25	16.2	49
122	Electrically tunable correlated and topological states in twisted monolayer/bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 374-380	16.2	64
121	Graphene-based monoatomic chain spintronics: contact-derived half-metallicity, sp ² vs sp. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021 , 126, 114486	3	
120	Nanocavity Clock Spectroscopy: Resolving Competing Exciton Dynamics in WSe/MoSe Heterobilayers. <i>Nano Letters</i> , 2021 , 21, 522-528	11.5	4
119	Symmetry breaking in twisted double bilayer graphene. <i>Nature Physics</i> , 2021 , 17, 26-30	16.2	69
118	Intrinsic donor-bound excitons in ultraclean monolayer semiconductors. <i>Nature Communications</i> , 2021 , 12, 871	17.4	10
117	Defect-Induced Magnetic Skyrmion in a Two-Dimensional Chromium Triiodide Monolayer. <i>JACS Au</i> , 2021 , 1, 1362-1367		4
116	Observation of Giant Optical Linear Dichroism in a Zigzag Antiferromagnet FePS ₃ . <i>Nano Letters</i> , 2021 , 21, 6938-6945	11.5	6

115	Competing correlated states and abundant orbital magnetism in twisted monolayer-bilayer graphene. <i>Nature Communications</i> , 2021 , 12, 4727	17.4	5
114	Even-Odd Layer-Dependent Anomalous Hall Effect in Topological Magnet MnBiTe Thin Films. <i>Nano Letters</i> , 2021 , 21, 7691-7698	11.5	8
113	Terahertz response of monolayer and few-layer WTe at the nanoscale. <i>Nature Communications</i> , 2021 , 12, 5594	17.4	8
112	Moiré Trions in MoSe/WSe heterobilayers. <i>Nature Nanotechnology</i> , 2021 , 16, 1208-1213	28.7	13
111	Giant and anisotropic second harmonic generation of VV binary phosphorene derivative with permanent dipole. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 6544-6552	7.1	4
110	Unveiling 2D Ferroelectricity and Ferromagnetism Interaction in van der Waals Heterobilayers. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 27837-27843	3.8	1
109	Stacking Domain Wall Magnons in Twisted van der Waals Magnets. <i>Physical Review Letters</i> , 2020 , 125, 247201	7.4	13
108	Metasurface Integrated Monolayer Exciton Polariton. <i>Nano Letters</i> , 2020 , 20, 5292-5300	11.5	16
107	Long Radiation Lifetime and Quasi-Isotropic Excitons in Antioxidant VV Binary Phosphorene Allotropes with Intrinsic Dipole. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14787-14796	3.8	2
106	Separation of the valley exciton-polariton in two-dimensional semiconductors with an anisotropic photonic crystal. <i>Physical Review B</i> , 2020 , 101,	3.3	3
105	Monolayer Semiconductor Auger Detector. <i>Nano Letters</i> , 2020 , 20, 5538-5543	11.5	2
104	Magnetic proximity and nonreciprocal current switching in a monolayer WTe helical edge. <i>Nature Materials</i> , 2020 , 19, 503-507	27	32
103	Two-Dimensional van der Waals Nanoplatelets with Robust Ferromagnetism. <i>Nano Letters</i> , 2020 , 20, 2100-2106	11.5	10
102	Layer-resolved magnetic proximity effect in van der Waals heterostructures. <i>Nature Nanotechnology</i> , 2020 , 15, 187-191	28.7	66
101	Valley phonons and exciton complexes in a monolayer semiconductor. <i>Nature Communications</i> , 2020 , 11, 618	17.4	55
100	Tuning inelastic light scattering via symmetry control in the two-dimensional magnet CrI. <i>Nature Nanotechnology</i> , 2020 , 15, 212-216	28.7	54
99	Enhanced Shift Currents in Monolayer 2D GeS and SnS by Strain-Induced Band Gap Engineering. <i>ACS Omega</i> , 2020 , 5, 17207-17214	3.9	12
98	Excitons in strain-induced one-dimensional moiré potentials at transition metal dichalcogenide heterojunctions. <i>Nature Materials</i> , 2020 , 19, 1068-1073	27	79

97	Superconductivity in metallic twisted bilayer graphene stabilized by WSe. <i>Nature</i> , 2020 , 583, 379-384	50.4	101
96	Layered Antiferromagnetism Induces Large Negative Magnetoresistance in the van der Waals Semiconductor CrSBr. <i>Advanced Materials</i> , 2020 , 32, e2003240	24	30
95	PN/PAs-WSe van der Waals heterostructures for solar cell and photodetector. <i>Scientific Reports</i> , 2020 , 10, 17213	4.9	4
94	Modulation of the electronic band structure of silicene by polar two-dimensional substrates. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 21412-21420	3.6	6
93	Emergent phenomena and proximity effects in two-dimensional magnets and heterostructures. <i>Nature Materials</i> , 2020 , 19, 1276-1289	27	80
92	Voltage Control of a van der Waals Spin-Filter Magnetic Tunnel Junction. <i>Nano Letters</i> , 2019 , 19, 915-920	1.5	80
91	Second harmonic generation in Janus MoSSe a monolayer and stacked bulk with vertical asymmetry. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 21022-21029	3.6	19
90	Optical generation of high carrier densities in 2D semiconductor heterobilayers. <i>Science Advances</i> , 2019 , 5, eaax0145	14.3	40
89	Virtual Trions in the Photoluminescence of Monolayer Transition-Metal Dichalcogenides. <i>Physical Review Letters</i> , 2019 , 122, 217401	7.4	16
88	Atomically Thin CrCl: An In-Plane Layered Antiferromagnetic Insulator. <i>Nano Letters</i> , 2019 , 19, 3993-3998	1.5	120
87	Strong spin-orbit coupling and Dirac nodal lines in the three-dimensional electronic structure of metallic rutile IrO ₂ . <i>Physical Review B</i> , 2019 , 99,	3.3	11
86	Anisotropic structural dynamics of monolayer crystals revealed by femtosecond surface X-ray scattering. <i>Nature Photonics</i> , 2019 , 13, 425-430	33.9	19
85	Ferromagnetism Near Room Temperature in the Cleavable van der Waals Crystal FeGeTe. <i>ACS Nano</i> , 2019 , 13, 4436-4442	16.7	119
84	Chiral heteronanotubes: arrangement-dominated chiral interface states and conductivities. <i>Nanoscale</i> , 2019 , 11, 8699-8705	7.7	5
83	Imaging quantum spin Hall edges in monolayer WTe. <i>Science Advances</i> , 2019 , 5, eaat8799	14.3	64
82	Visualizing electrostatic gating effects in two-dimensional heterostructures. <i>Nature</i> , 2019 , 572, 220-223	50.4	71
81	Giant nonreciprocal second-harmonic generation from antiferromagnetic bilayer CrI. <i>Nature</i> , 2019 , 572, 497-501	50.4	172
80	Switching 2D magnetic states via pressure tuning of layer stacking. <i>Nature Materials</i> , 2019 , 18, 1298-1302	7	194

79	Spiral Graphene Nanoribbons with Azulene Defects as Potential Nonlinear Optical Materials. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1648-1654	5.6	13
78	Signatures of moiré-trapped valley excitons in MoSe ₂ /WSe ₂ heterobilayers. <i>Nature</i> , 2019 , 567, 66-70	50.4	486
77	Direct observation of van der Waals stacking-dependent interlayer magnetism. <i>Science</i> , 2019 , 366, 983-987	39.3	198
76	Electrical control of 2D magnetism in bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2018 , 13, 544-548	28.7	626
75	Encapsulated Silicon Nitride Nanobeam Cavity for Hybrid Nanophotonics. <i>ACS Photonics</i> , 2018 , 5, 2176-2181	2.1	23
74	Double-helix PLI chains: novel potential nonlinear optical materials. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12618-12623	3.6	8
73	Tuning Ising superconductivity with layer and spin-orbit coupling in two-dimensional transition-metal dichalcogenides. <i>Nature Communications</i> , 2018 , 9, 1427	17.4	124
72	Giant tunneling magnetoresistance in spin-filter van der Waals heterostructures. <i>Science</i> , 2018 , 360, 1214-1218	33.3	555
71	Modulating the molecular third-order optical nonlinearity by curved surface of carbon skeleton. <i>Molecular Physics</i> , 2018 , 116, 242-250	1.7	
70	Ferroelectric switching of a two-dimensional metal. <i>Nature</i> , 2018 , 560, 336-339	50.4	280
69	Two-dimensional itinerant ferromagnetism in atomically thin FeGeTe. <i>Nature Materials</i> , 2018 , 17, 778-782	27	522
68	Interlayer valley excitons in heterobilayers of transition metal dichalcogenides. <i>Nature Nanotechnology</i> , 2018 , 13, 1004-1015	28.7	218
67	Single-Crystalline Nanobelts Composed of Transition Metal Ditellurides. <i>Advanced Materials</i> , 2018 , 30, e1707260	24	15
66	Observation of topological surface states and strong electron/hole imbalance in extreme magnetoresistance compound LaBi. <i>Physical Review Materials</i> , 2018 , 2,	3.2	7
65	Evolution of electronic structure and electron-phonon coupling in ultrathin tetragonal CoSe films. <i>Physical Review Materials</i> , 2018 , 2,	3.2	4
64	Ligand-field helical luminescence in a 2D ferromagnetic insulator. <i>Nature Physics</i> , 2018 , 14, 277-281	16.2	192
63	Radiative control of dark excitons at room temperature by nano-optical antenna-tip Purcell effect. <i>Nature Nanotechnology</i> , 2018 , 13, 59-64	28.7	113
62	Stacking-Dependent Magnetism in Bilayer CrI ₃ . <i>Nano Letters</i> , 2018 , 18, 7658-7664	11.5	270

61	Experimental observation of conductive edge states in weak topological insulator candidate HfTe5. <i>APL Materials</i> , 2018 , 6, 121111	5.7	13
60	Ultrathin van der Waals Metalenses. <i>Nano Letters</i> , 2018 , 18, 6961-6966	11.5	36
59	Gate-induced superconductivity in a monolayer topological insulator. <i>Science</i> , 2018 , 362, 922-925	33.3	143
58	Unusual Exciton-Phonon Interactions at van der Waals Engineered Interfaces. <i>Nano Letters</i> , 2017 , 17, 1194-1199	11.5	63
57	Many-body effects in nonlinear optical responses of 2D layered semiconductors. <i>2D Materials</i> , 2017 , 4, 025024	5.9	28
56	Determination of band offsets, hybridization, and exciton binding in 2D semiconductor heterostructures. <i>Science Advances</i> , 2017 , 3, e1601832	14.3	208
55	Edge conduction in monolayer WTe2. <i>Nature Physics</i> , 2017 , 13, 677-682	16.2	320
54	Layer-dependent ferromagnetism in a van der Waals crystal down to the monolayer limit. <i>Nature</i> , 2017 , 546, 270-273	50.4	2210
53	Mechanism of mechanically induced optoelectronic and spintronic phase transitions in 1D graphene spirals: insight into the role of interlayer coupling. <i>Nanoscale</i> , 2017 , 9, 9693-9700	7.7	8
52	Dirac line nodes and effect of spin-orbit coupling in the nonsymmorphic critical semimetals MSiS(M=Hf,Zr). <i>Physical Review B</i> , 2017 , 95,	3.3	93
51	All-angle Negative Reflection with An Ultrathin Acoustic Gradient Metasurface: Floquet-Bloch Modes Perspective and Experimental Verification. <i>Scientific Reports</i> , 2017 , 7, 13852	4.9	15
50	Van der Waals engineering of ferromagnetic semiconductor heterostructures for spin and valleytronics. <i>Science Advances</i> , 2017 , 3, e1603113	14.3	419
49	Experimental realization of all-angle negative refraction in acoustic gradient metasurface. <i>Applied Physics Letters</i> , 2017 , 111, 221602	3.4	35
48	Phonon-assisted oscillatory exciton dynamics in monolayer MoSe2. <i>Npj 2D Materials and Applications</i> , 2017 , 1,	8.8	37
47	Dynamic Optical Tuning of Interlayer Interactions in the Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2017 , 17, 7761-7766	11.5	29
46	Moiré excitons: From programmable quantum emitter arrays to spin-orbit-coupled artificial lattices. <i>Science Advances</i> , 2017 , 3, e1701696	14.3	247
45	Topological mosaics in moiré superlattices of van der Waals heterobilayers. <i>Nature Physics</i> , 2017 , 13, 356-362	16.2	131
44	Spatial manipulating spin-polarization and tunneling patterns in graphene spirals via periphery structural modification. <i>Carbon</i> , 2017 , 113, 325-333	10.4	10

43	Magnetic behavior and spin-lattice coupling in cleavable van der Waals layered CrCl ₃ crystals. <i>Physical Review Materials</i> , 2017 , 1,	3.2	141
42	Exciton Dynamics in Monolayer Transition Metal Dichalcogenides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016 , 33, C39-C49	1.7	101
41	Multiple hot-carrier collection in photo-excited graphene Moiré Superlattices. <i>Science Advances</i> , 2016 , 2, e1600002	14.3	28
40	Trion formation dynamics in monolayer transition metal dichalcogenides. <i>Physical Review B</i> , 2016 , 93,	3.3	127
39	Valleytronics in 2D materials. <i>Nature Reviews Materials</i> , 2016 , 1,	73.3	1045
38	Room-temperature ferroelectricity in CuInP ₂ S ₆ ultrathin flakes. <i>Nature Communications</i> , 2016 , 7, 12357	17.4	355
37	Theoretical study of electron tunneling through the spiral molecule junctions along spiral paths. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 3765-71	3.6	8
36	Valley-polarized exciton dynamics in a 2D semiconductor heterostructure. <i>Science</i> , 2016 , 351, 688-91	33.3	451
35	Strong Circularly Polarized Photoluminescence from Multilayer MoS ₂ Through Plasma Driven Direct-Gap Transition. <i>ACS Photonics</i> , 2016 , 3, 310-314	6.3	9
34	Excitonic luminescence upconversion in a two-dimensional semiconductor. <i>Nature Physics</i> , 2016 , 12, 323-327	16.2	135
33	Photo-Nernst current in graphene. <i>Nature Physics</i> , 2016 , 12, 236-239	16.2	15
32	Evolution of the Valley Position in Bulk Transition-Metal Chalcogenides and Their Monolayer Limit. <i>Nano Letters</i> , 2016 , 16, 4738-45	11.5	56
31	Implementation of Outstanding Electronic Transport in Polar Covalent Boron Nitride Atomic Chains: another Extraordinary Odd-Even Behaviour. <i>Scientific Reports</i> , 2016 , 6, 26389	4.9	9
30	Directional interlayer spin-valley transfer in two-dimensional heterostructures. <i>Nature Communications</i> , 2016 , 7, 13747	17.4	80
29	Hybrid Tip-Enhanced Nanospectroscopy and Nanoimaging of Monolayer WSe ₂ with Local Strain Control. <i>Nano Letters</i> , 2016 , 16, 2621-7	11.5	123
28	Probing the Influence of Dielectric Environment on Excitons in Monolayer WSe: Insight from High Magnetic Fields. <i>Nano Letters</i> , 2016 , 16, 7054-7060	11.5	148
27	Observation of long-lived interlayer excitons in monolayer MoSe ₂ -WSe ₂ heterostructures. <i>Nature Communications</i> , 2015 , 6, 6242	17.4	896
26	Population pulsation resonances of excitons in monolayer MoSe ₂ with sub-1 eV linewidths. <i>Physical Review Letters</i> , 2015 , 114, 137402	7.4	20

25	Highly anisotropic and robust excitons in monolayer black phosphorus. <i>Nature Nanotechnology</i> , 2015 , 10, 517-21	28.7	999
24	Electrical control of second-harmonic generation in a WSe ₂ monolayer transistor. <i>Nature Nanotechnology</i> , 2015 , 10, 407-11	28.7	300
23	Single quantum emitters in monolayer semiconductors. <i>Nature Nanotechnology</i> , 2015 , 10, 497-502	28.7	556
22	Monolayer semiconductor nanocavity lasers with ultralow thresholds. <i>Nature</i> , 2015 , 520, 69-72	50.4	545
21	Intrinsic homogeneous linewidth and broadening mechanisms of excitons in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2015 , 6, 8315	17.4	309
20	Anomalous Light Cones and Valley Optical Selection Rules of Interlayer Excitons in Twisted Heterobilayers. <i>Physical Review Letters</i> , 2015 , 115, 187002	7.4	142
19	Spin-layer locking effects in optical orientation of exciton spin in bilayer WSe ₂ . <i>Nature Physics</i> , 2014 , 10, 130-134	16.2	243
18	Introduction to the issue on graphene optoelectronics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014 , 20, 6-8	3.8	3
17	Spin and pseudospins in layered transition metal dichalcogenides. <i>Nature Physics</i> , 2014 , 10, 343-350	16.2	1733
16	Electrically tunable excitonic light-emitting diodes based on monolayer WSe ₂ p-n junctions. <i>Nature Nanotechnology</i> , 2014 , 9, 268-72	28.7	1202
15	Coherent Electronic Coupling in Atomically Thin MoSe ₂ . <i>Physical Review Letters</i> , 2014 , 112,	7.4	88
14	Lateral heterojunctions within monolayer MoSe ₂ -WSe ₂ semiconductors. <i>Nature Materials</i> , 2014 , 13, 1096-101	101	732
13	Nonlinear valley and spin currents from Fermi pocket anisotropy in 2D crystals. <i>Physical Review Letters</i> , 2014 , 113, 156603	7.4	64
12	Spin-orbit-coupled quantum wires and Majorana fermions on zigzag edges of monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2014 , 89,	3.3	54
11	Theory of low-power ultra-broadband terahertz sideband generation in bi-layer graphene. <i>Nature Communications</i> , 2014 , 5, 4854	17.4	20
10	Valley-splitting and valley-dependent inter-Landau-level optical transitions in monolayer MoS ₂ quantum Hall systems. <i>Physical Review B</i> , 2014 , 90,	3.3	60
9	Dirac cones and Dirac saddle points of bright excitons in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2014 , 5, 3876	17.4	196
8	Systematic Doping Control of CVD Graphene Transistors with Functionalized Aromatic Self-Assembled Monolayers. <i>Advanced Functional Materials</i> , 2014 , 24, 3464-3470	15.6	36

7	Vapor-transport growth of high optical quality WSe ₂ monolayers a. <i>APL Materials</i> , 2014 , 2, 101101	5.7	48
6	Zeeman-type spin splitting controlled by an electric field. <i>Nature Physics</i> , 2013 , 9, 563-569	16.2	368
5	Electrical tuning of valley magnetic moment through symmetry control in bilayer MoS ₂ . <i>Nature Physics</i> , 2013 , 9, 149-153	16.2	451
4	Chemical doping for threshold control and contact resistance reduction in graphene and MoS ₂ field effect transistors 2013 ,		2
3	Coupled spin and valley physics in monolayers of MoS ₂ and other group-VI dichalcogenides. <i>Physical Review Letters</i> , 2012 , 108, 196802	7.4	2994
2	Giant Shift Photovoltaic Current in Group V-V Binary Nanosheets. <i>Advanced Theory and Simulations</i> , 2010 , 4, 172	1004.72	0
1	Phase-pure two-dimensional Fe _x GeTe ₂ magnets with near-room-temperature TC. <i>Nano Research</i> , 2010 , 2, 4	10	4