

**k** · **p** theory for two-dimensional trans  
semiconductors

2D Materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Spin and valley dynamics of excitons in transition metal dichalcogenide monolayers. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 2349-2362.	0.7	107
2	Heterostructures of transition metal dichalcogenides. <i>Physical Review B</i> , 2015, 92, .	1.1	190
3	Polarization analysis of excitons in monolayer and bilayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2015, 92, .	1.1	135
4	Graphene on transition-metal dichalcogenides: A platform for proximity spin-orbit physics and optospintronics. <i>Physical Review B</i> , 2015, 92, .	1.1	268
5	<i>Ab initio</i> tight-binding Hamiltonian for transition metal dichalcogenides. <i>Physical Review B</i> , 2015, 92, .	1.1	158
6	Boundary conditions for transition-metal dichalcogenide monolayers in the continuum model. <i>Physical Review B</i> , 2015, 92, .	1.1	15
7	Electrical Tuning of Exciton Binding Energies in Monolayer $\frac{WSe_2}{WS_2}$ <i>Physical Review Letters</i> , 2015, 115, 126802.	2.9	323
8	Experimental Evidence for Dark Excitons in Monolayer $\frac{WSe_2}{WS_2}$ <i>Physical Review Letters</i> , 2015, 115, 257403.	2.9	376
9	Theory of two-dimensional spatially indirect equilibrium exciton condensates. <i>Physical Review B</i> , 2015, 92, .	1.1	84
10	Excitonic effects in two-dimensional semiconductors: Path integral Monte Carlo approach. <i>Physical Review B</i> , 2015, 92, .	1.1	49
11	Theory of strain in single-layer transition metal dichalcogenides. <i>Physical Review B</i> , 2015, 92, .	1.1	138
12	Polarization-dependent photocurrents in polar stacks of van der Waals solids. <i>Physical Review B</i> , 2015, 92, .	1.1	17
13	Local Spectroscopic Characterization of Spin and Layer Polarization in $\frac{WSe_2}{WS_2}$ <i>Physical Review Letters</i> , 2015, 115, 136803.	2.9	51
14	Very large strain gauges based on single layer MoSe <sub>2</sub> and WSe <sub>2</sub> for sensing applications. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	32
15	Excitonic resonances in thin films of WSe <sub>2</sub> : from monolayer to bulk material. <i>Nanoscale</i> , 2015, 7, 10421-10429.	2.8	275
16	Magneto-optics in transition metal diselenide monolayers. <i>2D Materials</i> , 2015, 2, 034002.	2.0	126
17	Spin-orbit engineering in transition metal dichalcogenide alloy monolayers. <i>Nature Communications</i> , 2015, 6, 10110.	5.8	176
18	WSe <sub>2</sub> Light-Emitting Tunneling Transistors with Enhanced Brightness at Room Temperature. <i>Nano Letters</i> , 2015, 15, 8223-8228.	4.5	231

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19	Exciton states in monolayer MoSe <sub>2</sub> : impact on interband transitions. 2D Materials, 2015, 2, 045005.	2.0	71
20	Landau levels and Shubnikov-de Haas oscillations in monolayer transition metal dichalcogenide semiconductors. New Journal of Physics, 2015, 17, 103006.	1.2	26
21	Growth and electronic structure of epitaxial single-layer WS <sub>2</sub> on Au(111). Physical Review B, 2015, 92, .	1.1	70
22	Spin-orbit coupling in the band structure of monolayer WSe <sub>2</sub> . Journal of Physics Condensed Matter, 2015, 27, 182201.	0.7	67
23	Optically bright excitons indicating strong Coulomb coupling in transition-metal dichalcogenides. Journal of Physics Condensed Matter, 2015, 27, 345003.	0.7	23
24	A tight-binding model for MoS <sub>2</sub> monolayers. Journal of Physics Condensed Matter, 2015, 27, 365501.	0.7	74
25	Observation of intervalley quantum interference in epitaxial monolayer tungsten diselenide. Nature Communications, 2015, 6, 8180.	5.8	55
26	Exciton band structure in layered MoSe <sub>2</sub> : from a monolayer to the bulk limit. Nanoscale, 2015, 7, 20769-20775.	2.8	163
27	Electronic Band Structure of Transition Metal Dichalcogenides from Ab Initio and Slater-Koster Tight-Binding Model. Applied Sciences (Switzerland), 2016, 6, 284.	1.3	56
28	Excitonic Stark effect in MoS <sub>2</sub> . Physical Review B, 2016, 94, .	1.1	48
29	Band structure characterization of WS <sub>2</sub> grown by chemical vapor deposition. Applied Physics Letters, 2016, 108, .	1.5	40
30	Auger recombination of dark excitons in WS <sub>2</sub> and WSe <sub>2</sub> monolayers. 2D Materials, 2016, 3, 035011.	2.0	38
31	S2DS: Physics-based compact model for circuit simulation of two-dimensional semiconductor devices including non-idealities. Journal of Applied Physics, 2016, 120, .	1.1	78
32	Valley Zeeman Splitting and Valley Polarization of Neutral and Charged Excitons in Monolayer MoTe <sub>2</sub> at High Magnetic Fields. Nano Letters, 2016, 16, 3624-3629.	4.5	102
33	Excitons. Springer Series in Materials Science, 2016, , 321-363.	0.4	3
34	Optical absorption by Dirac excitons in single-layer transition-metal dichalcogenides. Physical Review B, 2016, 94, .	1.1	39
35	Spin-orbital coupling effect on the power factor in semiconducting transition-metal dichalcogenide monolayers. Semiconductor Science and Technology, 2016, 31, 095011.	1.0	56
36	Two-dimensional Fröhlich interaction in transition-metal dichalcogenide monolayers: Theoretical modeling and first-principles calculations. Physical Review B, 2016, 94, .	1.1	155

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37	Excitonic Valley Effects in Monolayer WS <sub>2</sub> under High Magnetic Fields. Nano Letters, 2016, 16, 7899-7904.	4.5	114
38	Theory of intervalley Coulomb interactions in monolayer transition-metal dichalcogenides. Physical Review B, 2016, 94, .	1.1	40
39	Strain-controlled spin splitting in the conduction band of monolayer $WS_2$ . Physical Review B, 2016, 94, .	1.1	40
40	Influence of spin dynamics of defects on weak localization in paramagnetic two-dimensional metals. Physical Review B, 2016, 93, .	1.1	2
41	Edge states in dichalcogenide nanoribbons and triangular quantum dots. Physical Review B, 2016, 93, .	1.1	29
42	Trivial and inverted Dirac bands and the emergence of quantum spin Hall states in graphene on transition-metal dichalcogenides. Physical Review B, 2016, 93, .	1.1	227
43	Magnetoexcitons in large area CVD-grown monolayer MoS <sub>2</sub> and MoSe <sub>2</sub> on sapphire. Physical Review B, 2016, 93, .	1.1	99
44	Spin transport in single-layer transition-metal dichalcogenides. Physical Review B, 2016, 93, .	1.1	7
45	Valley Zeeman energy in monolayer MoS <sub>2</sub> rings: Aharonov-Bohm effect. Physical Review B, 2016, 93, .	1.1	1
46	High-temperature superfluidity of the two-component Bose gas in a transition metal dichalcogenide bilayer. Physical Review B, 2016, 93, .	1.1	67
47	Quantum Transport and Observation of Dyakonov-Perel Spin-Orbit Scattering in Monolayer MoS <sub>2</sub> . Physical Review Letters, 2016, 116, 046803.	2.9	59
48	Shubnikov-de Haas Oscillations of High-Mobility Holes in Monolayer and Bilayer WS <sub>2</sub> . Landau Level Degeneracy, Effective Mass, and Negative Compressibility. Physical Review Letters, 2016, 116, 086601.	1.1	1
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50	Tuning Valley Polarization in a WS <sub>2</sub> with a Tiny Magnetic Field. Physical Review X, 2016, 6, .	1.1	1
51	Tight-binding approach to strain and curvature in monolayer transition-metal dichalcogenides. Physical Review B, 2016, 94, .	1.1	38
52	Valleytronics in 2D materials. Nature Reviews Materials, 2016, 1, .	23.3	1,712
53	Trion fine structure and coupled spin-valley dynamics in monolayer tungsten disulfide. Nature Communications, 2016, 7, 12715.	5.8	239
54	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Nature Communications, 2016, 7, 13279.	5.8	360

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55	Theory of edge-state optical absorption in two-dimensional transition metal dichalcogenide flakes. <i>Physical Review B</i> , 2016, 94, .	1.1	35
56	Pressure coefficients for direct optical transitions in MoS <sub>2</sub> , MoSe <sub>2</sub> , WS <sub>2</sub> , and WSe <sub>2</sub> crystals and semiconductor to metal transitions. <i>Scientific Reports</i> , 2016, 6, 26663.	1.6	56
57	Uniform Benchmarking of Low-Voltage van der Waals FETs. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2016, 2, 28-35.	1.1	24
58	Spatially Resolved Electronic Properties of Single-Layer WS <sub>2</sub> on Transition Metal Oxides. <i>ACS Nano</i> , 2016, 10, 10058-10067.	7.3	31
59	Engineering Bandgaps of Monolayer MoS <sub>2</sub> and WS <sub>2</sub> on Fluoropolymer Substrates by Electrostatically Tuned Many-Body Effects. <i>Advanced Materials</i> , 2016, 28, 6457-6464.	11.1	116
60	Temperature dependent EXAFS study on transition metal dichalcogenides MoX <sub>2</sub> (X = S, Se, Te). <i>Journal of Physics Condensed Matter</i> , 2016, 28, 325401.	0.7	7
61	Biexciton Emission from Edges and Grain Boundaries of Triangular WS <sub>2</sub> Monolayers. <i>ACS Nano</i> , 2016, 10, 2399-2405.	7.3	220
62	Evolution of band structures in MoS <sub>2</sub> -based homo- and heterobilayers. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 065304.	1.3	8
63	Superconductivity protected by spin-valley locking in ion-gated MoS <sub>2</sub> . <i>Nature Physics</i> , 2016, 12, 144-149.	6.5	419
64	Exciton diamagnetic shifts and valley Zeeman effects in monolayer WS <sub>2</sub> and MoS <sub>2</sub> to 65 Tesla. <i>Nature Communications</i> , 2016, 7, 10643.	5.8	253
65	Brightening of dark excitons in monolayers of semiconducting transition metal dichalcogenides. <i>2D Materials</i> , 2017, 4, 021003.	2.0	192
66	Optical Control of Spin Polarization in Monolayer Transition Metal Dichalcogenides. <i>ACS Nano</i> , 2017, 11, 1581-1587.	7.3	34
67	Valley-Polarized Exciton Dynamics in Exfoliated Monolayer WSe <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2017, 121, 6409-6413.	1.5	25
68	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
69	Tunable spin and valley dependent magneto-optical absorption in molybdenum disulfide quantum dots. <i>Scientific Reports</i> , 2017, 7, 41044.	1.6	27
70	Direct Observation of Ultrafast Exciton Formation in a Monolayer of WSe <sub>2</sub> . <i>Nano Letters</i> , 2017, 17, 1455-1460.	4.5	171
71	Determination of band offsets, hybridization, and exciton binding in 2D semiconductor heterostructures. <i>Science Advances</i> , 2017, 3, e1601832.	4.7	293
72	All-optical band engineering of gapped Dirac materials. <i>Physical Review B</i> , 2017, 95, .	1.1	79

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73	Optical properties of atomically thin transition metal dichalcogenides: observations and puzzles. <i>Nanophotonics</i> , 2017, 6, 1289-1308.	2.9	165
74	Dark trions and biexcitons in WS <sub>2</sub> and WSe <sub>2</sub> made bright by e-e scattering. <i>Scientific Reports</i> , 2017, 7, 45998.	1.6	48
75	Valley dynamics of excitons in monolayer dichalcogenides. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700131.	1.2	19
76	Giant Enhancement of Defect-Bound Exciton Luminescence and Suppression of Band-Edge Luminescence in Monolayer WSe <sub>2</sub> Ag Plasmonic Hybrid Structures. <i>Nano Letters</i> , 2017, 17, 4317-4322.	4.5	31
77	Enabling valley selective exciton scattering in monolayer WSe <sub>2</sub> through upconversion. <i>Nature Communications</i> , 2017, 8, 14927.	5.8	124
78	Interlayer resistance of misoriented MoS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10406-10412.	1.3	12
79	Interlayer coupling in commensurate and incommensurate bilayer structures of transition-metal dichalcogenides. <i>Physical Review B</i> , 2017, 95, .	1.1	128
80	Optical selection rules for excitonic Rydberg series in the massive Dirac cones of hexagonal two-dimensional materials. <i>Physical Review B</i> , 2017, 95, .	1.1	23
81	Proposal for dark exciton based chemical sensors. <i>Nature Communications</i> , 2017, 8, 14776.	5.8	70
82	Two-dimensional transition-metal dichalcogenides-based ferromagnetic van der Waals heterostructures. <i>Nanoscale</i> , 2017, 9, 17585-17592.	2.8	53
83	Three-band k.p Hamiltonian of monolayer MoS <sub>2</sub> based on the group theory and infinitesimal basis transformations approach. <i>Physica B: Condensed Matter</i> , 2017, 527, 66-71.	1.3	4
84	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. <i>Physical Review Letters</i> , 2017, 119, 187402.	2.9	136
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86	Gate-Controlled Spin-Valley Locking of Resident Carriers in $WS_2$ Monolayers. <i>Physical Review Letters</i> , 2017, 119, 137401.	2.9	107
87	Rashba-like dispersion in buckled square lattices. <i>Physical Review B</i> , 2017, 96, .	1.1	6
88	Universal spin dynamics in quantum wires. <i>Physical Review B</i> , 2017, 96, .	1.1	3
89	Diffusion quantum Monte Carlo study of excitonic complexes in two-dimensional transition-metal dichalcogenides. <i>Physical Review B</i> , 2017, 96, .	1.1	76
90	Superfluidity of dipolar excitons in a transition metal dichalcogenide double layer. <i>Physical Review B</i> , 2017, 96, .	1.1	46

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91	Fine structure and lifetime of dark excitons in transition metal dichalcogenide monolayers. Physical Review B, 2017, 96, .	1.1	141
92	Signature of Hanle precession in trilayer $\text{MoS}_2$ : Theory and experiment. Physical Review B, 2017, 95, .	2.8	389
93	Polarity tuning of spin-orbit-induced spin splitting in two-dimensional transition metal dichalcogenides. Journal of Applied Physics, 2017, 122, .	1.1	31
94	Acoustic Traps and Lattices for Electrons in Semiconductors. Physical Review X, 2017, 7, .	2.8	21
95	Long-lived spin polarization in n-doped $\text{MoSe}_2$ monolayers. Applied Physics Letters, 2017, 111, .	1.5	12
96	Excitonic Linewidth Approaching the Homogeneous Limit in $\text{MoS}_2$ -Based van der Waals Heterostructures. Physical Review X, 2017, 7, .	2.8	389
97	Atomically inspired $k$ and valley Zeeman effect in transition metal dichalcogenide monolayers. Physical Review B, 2017, 95, .	1.1	36
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99	Magnetic Proximity Effects in Transition-Metal Dichalcogenides: Converting Excitons. Physical Review Letters, 2017, 119, 127403.	2.9	111
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101	Infinitesimal base transformations method for calculating the $k$ .p Hamiltonian of monolayer $\text{MoS}_2$ . Superlattices and Microstructures, 2017, 110, 180-190.	1.4	4
102	Spin-dependent electron-phonon coupling in the valence band of single-layer $\text{WS}_2$ . Physical Review B, 2017, 96, .	2.9	111
103	Floquet Majorana fermions and parafermions in driven Rashba nanowires. Physical Review B, 2017, 95, .	1.1	81
104	Strong cavity-pseudospin coupling in monolayer transition metal dichalcogenides. Physical Review B, 2017, 96, .	1.1	4
105	In-Plane Propagation of Light in Transition Metal Dichalcogenide Monolayers: Optical Selection Rules. Physical Review Letters, 2017, 119, 047401.	2.9	257
106	Understanding Variations in Circularly Polarized Photoluminescence in Monolayer Transition Metal Dichalcogenides. ACS Nano, 2017, 11, 7988-7994.	7.3	56
107	Robust high-temperature trion emission in monolayers of $\text{MoS}_2$ alloys. Physical Review B, 2017, 95, .	1.1	26
108	Multicomponent plasmons in monolayer $\text{MoS}_2$ with circularly polarized optical pumping. Physical Review B, 2017, 96, .	2.8	389





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128	Strong valley Zeeman effect of dark excitons in monolayer transition metal dichalcogenides in a tilted magnetic field. <i>Physical Review B</i> , 2018, 97, .	1.1	22
129	Electronic properties of atomically thin MoS <sub>2</sub> layers grown by physical vapour deposition: band structure and energy level alignment at layer/substrate interfaces. <i>RSC Advances</i> , 2018, 8, 7744-7752.	1.7	22
130	Band nesting, massive Dirac fermions, and valley Landé and Zeeman effects in transition metal dichalcogenides: A tight-binding model. <i>Physical Review B</i> , 2018, 97, .	1.1	26
131	Colloquium : Excitons in atomically thin transition metal dichalcogenides. <i>Reviews of Modern Physics</i> , 2018, 90, .	16.4	1,292
132	Optical nonlinearities of excitons in monolayer MoS <sub>2</sub> . <i>Physical Review B</i> , 2018, 97, .	1.1	2
133	Response of the monolayer molybdenum disulfide to external circularly and/or elliptically polarized electromagnetic fields. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	2
134	Revealing the nature of low-temperature photoluminescence peaks by laser treatment in van der Waals epitaxially grown WS <sub>2</sub> monolayers. <i>Nanoscale</i> , 2018, 10, 4807-4815.	2.8	29
135	Optically adjustable valley Hall current in single-layer transition metal dichalcogenides. <i>Journal of Applied Physics</i> , 2018, 123, 054301.	1.1	2
136	Relativistic Wigner functions in transition metal dichalcogenides. <i>Journal of Computational Electronics</i> , 2018, 17, 110-117.	1.3	10
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138	Spin-Orbit Torques in NbSe <sub>2</sub> /Permalloy Bilayers. <i>Nano Letters</i> , 2018, 18, 1311-1316.	4.5	89
139	Large valley splitting in monolayer WS <sub>2</sub> by proximity coupling to an insulating antiferromagnetic substrate. <i>Physical Review B</i> , 2018, 97, .	1.1	134
140	Large optical gain from the 2D-transition metal dichalcogenides of MoS <sub>2</sub> /WSe <sub>2</sub> quantum wells. <i>Superlattices and Microstructures</i> , 2018, 114, 379-385.	1.4	19
141	Lightwave valleytronics in a monolayer of tungsten diselenide. <i>Nature</i> , 2018, 557, 76-80.	13.7	201
142	Phase transition and field effect topological quantum transistor made of monolayer MoS <sub>2</sub> . <i>Journal of Physics Condensed Matter</i> , 2018, 30, 235303.	0.7	2
143	Ambipolar Landau levels and strong band-selective carrier interactions in monolayer WSe <sub>2</sub> . <i>Nature Materials</i> , 2018, 17, 411-415.	13.3	60
144	Valley- and spin-polarized oscillatory magneto-optical absorption in monolayer MoS <sub>2</sub> quantum rings. <i>Physical Review B</i> , 2018, 97, .	1.1	4

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145	Probing the Optical Properties and Strain-Tuning of Ultrathin Mo <sub>1-x</sub> W <sub>x</sub> Te <sub>2</sub> . Nano Letters, 2018, 18, 2485-2491.	4.5	53
146	Tailoring of defect luminescence in CVD grown monolayer MoS <sub>2</sub> . Applied Surface Science, 2018, 445, 542-547.	3.1	18
147	The electrothermal conductance and heat capacity of black phosphorus. Journal of Chemical Physics, 2018, 148, 104701.	1.2	1
148	Inverted valley polarization in optically excited transition metal dichalcogenides. Nature Communications, 2018, 9, 971.	5.8	59
149	Gold Dispersion and Activation on the Basal Plane of Single-Layer MoS <sub>2</sub> . Journal of Physical Chemistry C, 2018, 122, 267-273.	1.5	16
150	Group 6 transition metal dichalcogenide nanomaterials: synthesis, applications and future perspectives. Nanoscale Horizons, 2018, 3, 90-204.	4.1	309
151	Dark exciton brightening and its engaged valley dynamics in monolayer WSe <sub>2</sub> . Physical Review B, 2018, 98, .	1.1	9
152	Spatial control of carrier capture in two-dimensional materials: Beyond energy selection rules. Physical Review B, 2018, 98, .	1.1	9
153	Platform for nodal topological superconductors in monolayer molybdenum dichalcogenides. Physical Review B, 2018, 98, .	1.1	10
154	Spin-orbit-stable type-II nodal line band crossing in n-doped monolayer MoX <sub>2</sub> .		

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163	Self-consistent dielectric constant determination for monolayer $WSe_2$ . Optics Express, 2018, 26, 23061.	1.7	4
164	Exciton States in Monolayer $MoSe_2$ and $MoTe_2$ Probed by Upconversion Spectroscopy. Physical Review X, 2018, 8, .	2.8	56
165	Exciton physics and device application of two-dimensional transition metal dichalcogenide semiconductors. Npj 2D Materials and Applications, 2018, 2, .	3.9	526
166	Tight-binding piezoelectric theory and electromechanical coupling correlations for transition metal dichalcogenide monolayers. Physical Review B, 2018, 98, .	1.1	12
167	Spatial extent of the excited exciton states in $WS_2$ monolayers from diamagnetic shifts. Physical Review B, 2018, 98, .	1.1	10
168	Dirac electrons in quantum rings. Physical Review B, 2018, 97, .	1.1	8
169	Exciton Diffusion and Halo Effects in Monolayer Semiconductors. Physical Review Letters, 2018, 120, 207401.	2.9	193
170	Intervalley Scattering of Interlayer Excitons in a $MoS_2/MoSe_2/MoS_2$ Heterostructure in High Magnetic Field. Nano Letters, 2018, 18, 3994-4000.	4.5	27
171	Localized interlayer complexes in heterobilayer transition metal dichalcogenides. Physical Review B, 2018, 97, .	1.1	29
172	Large effective mass and interaction-enhanced Zeeman splitting of $K$ -valley electrons in $MoSe_2$ . Physical Review B, 2018, 97, .	1.1	72
173	Tunable Berry curvature and valley and spin Hall effect in bilayer $MoS_2$ . Physical Review B, 2018, 98, .	1.1	10
174	First-principles study of electronic and sodium-ion transport properties of transition-metal dichalcogenides. International Journal of Modern Physics B, 2018, 32, 1850215.	1.0	4
175	Effective theory of monolayer TMDC double quantum dots. 2D Materials, 2018, 5, 035031.	2.0	20
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177	Nanophotonics with 2D transition metal dichalcogenides [Invited]. Optics Express, 2018, 26, 15972.	1.7	134
178	Two-photon absorption arises from two-dimensional excitons. Optics Express, 2018, 26, 16093.	1.7	22
179	Modeling of Electron Devices Based on 2-D Materials. IEEE Transactions on Electron Devices, 2018, 65, 4167-4179.	1.6	32
180	Hybrid $k$ - $p$ tight-binding model for subbands and infrared intersubband optics in few-layer films of transition-metal dichalcogenides: $MoS_2$ . Physical Review B, 2018, 98, .	1.1	34

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181	Mapping of the dark exciton landscape in transition metal dichalcogenides. <i>Physical Review B</i> , 2018, 98, .	1.1	53
182	The role of momentum-dark excitons in the elementary optical response of bilayer WSe <sub>2</sub> . <i>Nature Communications</i> , 2018, 9, 2586.	5.8	70
183	Two-dimensional semiconductors in the regime of strong light-matter coupling. <i>Nature Communications</i> , 2018, 9, 2695.	5.8	256
184	Spectrally narrow exciton luminescence from monolayer MoS <sub>2</sub> and MoSe <sub>2</sub> exfoliated onto epitaxially grown hexagonal BN. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	22
185	Floquet Engineering of Gapped 2D Materials. <i>Semiconductors</i> , 2018, 52, 523-525.	0.2	6
186	Enhancement of Exciton-Phonon Scattering from Monolayer to Bilayer WS <sub>2</sub> . <i>Nano Letters</i> , 2018, 18, 6135-6143.	4.5	50
187	Nature of Excitons in Bidimensional WSe <sub>2</sub> by Hybrid Density Functional Theory Calculations. <i>Nanomaterials</i> , 2018, 8, 481.	1.9	10
188	Nano-imaging of intersubband transitions in van der Waals quantum wells. <i>Nature Nanotechnology</i> , 2018, 13, 1035-1041.	15.6	75
189	Magnetic Circular Polarization of Exciton Photoluminescence. <i>Physics of the Solid State</i> , 2018, 60, 1514-1526.	0.2	33
190	Exciton Relaxation Cascade in two-dimensional Transition Metal Dichalcogenides. <i>Scientific Reports</i> , 2018, 8, 8238.	1.6	82
191	Berry curvature in monolayer $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{MoS} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle$ with broken mirror symmetry. <i>Physical Review B</i> , 2018, 97, .		
192	Incorporation of oxygen atoms as a mechanism for photoluminescence enhancement of chemically treated MoS <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16918-16923.	1.3	15
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