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Dark and bright exciton formation, thermalization, and photoluminescence in monolayer transition metal dichalcogenides

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107	Resonance Profiles of Valley Polarization in Single-Layer MoS ₂ and MoSe ₂ . 2018 , 121, 167401		18
106	Exciton physics and device application of two-dimensional transition metal dichalcogenide semiconductors. 2018 , 2,		267
105	Mapping of the dark exciton landscape in transition metal dichalcogenides. 2018 , 98,		33
104	The role of momentum-dark excitons in the elementary optical response of bilayer WSe. 2018 , 9, 2586		41
103	Enhancement of Exciton-Phonon Scattering from Monolayer to Bilayer WS. 2018 , 18, 6135-6143		27
102	An ab-initio approach to describe coherent and non-coherent exciton dynamics. 2018 , 91, 1		16
101	Phonon wind and drag of excitons in monolayer semiconductors. 2019 , 100,		24
100	Theory of exciton dynamics in time-resolved ARPES: Intra- and intervalley scattering in two-dimensional semiconductors. 2019 , 100,		25
99	Nonlocal dielectric function and nested dark excitons in MoS ₂ . 2019 , 3,		3
98	Excitonic Effects in Single Layer MoS ₂ Probed by Broadband Two-Dimensional Electronic Spectroscopy. 2019 ,		

97	Tailoring exciton dynamics of monolayer transition metal dichalcogenides by interfacial electron-phonon coupling. 2019 , 2,	19
96	Magnetic brightening, large valley Zeeman splitting, and dynamics of long-lived A and B dark excitonic states in monolayer WS ₂ . 2019 , 100,	
95	Theory of second-order excitonic nonlinearities in transition metal dichalcogenides. 2019 , 100,	8
94	Exciton Propagation and Halo Formation in Two-Dimensional Materials. 2019 , 19, 7317-7323	37
93	Exploration of the bright and dark exciton landscape and fine structure of MoS ₂ using G ₀ W ₀ -BSE. 2019 , 100,	9
92	Intrinsic lifetime of higher excitonic states in tungsten diselenide monolayers. 2019 , 11, 12381-12387	40
91	Dark exciton based strain sensing in tungsten-based transition metal dichalcogenides. 2019 , 99,	13
90	Combined tensor network/cluster expansion method using logic gates: Illustrated for (bi)excitons by a single-layer MoS ₂ model system. 2019 , 99,	9
89	Ultrafast Dynamics of Spin Generation and Relaxation in Layered WSe. 2019 , 10, 2963-2970	3
88	Interlayer exciton dynamics in van der Waals heterostructures. 2019 , 2,	55
87	Distinctive Signatures of the Spin- and Momentum-Forbidden Dark Exciton States in the Photoluminescence of Strained WSe Monolayers under Thermalization. 2019 , 19, 2299-2312	14
86	Ultrafast transition between exciton phases in van der Waals heterostructures. 2019 , 18, 691-696	96
85	Excitonic Emission in van der Waals Nanotubes of Transition Metal Dichalcogenides. 2019 , 531, 1800415	20
84	80% Valley Polarization of Free Carriers in Singly Oriented Single-Layer WS ₂ on Au(111). 2019 , 123, 236802	14
83	Optical fingerprint of bright and dark localized excitonic states in atomically thin 2D materials. 2019 , 21, 26077-26083	5
82	Theory of optically induced F ₀ ster coupling in van der Waals coupled heterostructures. 2019 , 99,	11
81	Impact of strain on the excitonic linewidth in transition metal dichalcogenides. <i>2D Materials</i> , 2019 , 6, 015015	5.9 30
80	Ultrafast Photophysics of 2D Semiconductors and Related Heterostructures. 2020 , 2, 28-42	17

79	Theory of coherent pump-probe spectroscopy in monolayer transition metal dichalcogenides. <i>2D Materials</i> , 2020 , 7, 015021	5.9	18
78	Inorganic 2D Luminescent Materials: Structure, Luminescence Modulation, and Applications. 2020 , 8, 1900978		29
77	Negative effective excitonic diffusion in monolayer transition metal dichalcogenides. 2020 , 12, 356-363		16
76	Solar-Inspired Water Purification Based on Emerging 2D Materials: Status and Challenges. 2020 , 4, 1900400		81
75	Temperature dependence of photoluminescence lifetime of atomically-thin WSe layer. 2020 , 31, 135002		0
74	Up- and Down-Conversion between Intra- and Intervalley Excitons in Waveguide Coupled Monolayer WSe. 2020 , 14, 10503-10509		6
73	Light-matter coupling and non-equilibrium dynamics of exchange-split trions in monolayer WS. 2020 , 153, 034706		0
72	Directly visualizing the momentum-forbidden dark excitons and their dynamics in atomically thin semiconductors. 2020 , 370, 1199-1204		55
71	Microscopic Picture of Electron-Phonon Interaction in Two-Dimensional Halide Perovskites. 2020 , 11, 9975-9982		8
70	The ultrafast onset of exciton formation in 2D semiconductors. 2020 , 11, 5277		28
69	Theory of the Coherent Response of Magneto-Excitons and Magneto-Biexcitons in Monolayer Transition Metal Dichalcogenides. 2020 , 102,		6
68	Temporal Evolution of Low-Temperature Phonon Sidebands in Transition Metal Dichalcogenides. 2020 , 7, 2756-2764		9
67	Large area chemical vapour deposition grown transition metal dichalcogenide monolayers automatically characterized through photoluminescence imaging. 2020 , 4,		11
66	Hybridized intervalley moiré excitons and flat bands in twisted WSe bilayers. 2020 , 12, 11088-11094		21
65	Microscopic Modeling of Pump-Probe Spectroscopy and Population Inversion in Transition Metal Dichalcogenides. 2020 , 257, 2000223		0
64	Probing momentum-indirect excitons by near-resonance photoluminescence excitation spectroscopy in WS ₂ monolayer. <i>2D Materials</i> , 2020 , 7, 031002	5.9	9
63	Exciton diffusion in monolayer semiconductors with suppressed disorder. 2020 , 101,		44
62	Strongly Coupled Coherent Phonons in Single-Layer MoS. 2020 , 14, 5700-5710		15

61	Exciton-Scattering-Induced Dephasing in Two-Dimensional Semiconductors. 2020 , 124, 257402	26
60	Dark trions govern the temperature-dependent optical absorption and emission of doped atomically thin semiconductors. 2020 , 101,	21
59	Tensor network strategies for calculating biexcitons and trions in monolayer two-dimensional materials beyond the ground state. 2020 , 101,	7
58	Dynamical screening effects of substrate phonons on two-dimensional excitons. 2020 , 101,	9
57	Phonon-Assisted Photoluminescence from Indirect Excitons in Monolayers of Transition-Metal Dichalcogenides. 2020 , 20, 2849-2856	51
56	The Rise of 2D Photothermal Materials beyond Graphene for Clean Water Production. 2020 , 7, 1902236	100
55	Quantum Interference Effect on Exciton Transport in Monolayer Semiconductors. 2020 , 124, 166802	14
54	Nature of Optical Excitations in Porphyrin Crystals: A Joint Experimental and Theoretical Study. 2021 , 12, 869-875	2
53	Phonon-assisted exciton dissociation in transition metal dichalcogenides. 2021 , 13, 1884-1892	2
52	Efficient phonon cascades in WSe monolayers. 2021 , 12, 538	12
51	First-Principles Calculations of Exciton Radiative Lifetimes in Monolayer Graphitic Carbon Nitride Nanosheets: Implications for Photocatalysis. 2021 , 4, 1985-1993	3
50	Atomically Thin van der Waals Semiconductors: A Theoretical Perspective. 2021 , 15, 2000482	2
49	Control of the exciton valley dynamics in atomically thin semiconductors by tailoring the environment. 2021 , 103,	3
48	Sub-10 fs Intervalley Exciton Coupling in Monolayer MoS Revealed by Helicity-Resolved Two-Dimensional Electronic Spectroscopy. 2021 , 15, 10253-10263	1
47	Momentum-Resolved Observation of Exciton Formation Dynamics in Monolayer WS. 2021 , 21, 5867-5873	11
46	Photoluminescence Kinetics of Dark and Bright Excitons in Atomically Thin MoS ₂ . 2021 , 15, 2100263	1
45	Computational methods for 2D materials modelling. 2021 , 84,	1
44	Ultrafast Charge-Transfer Dynamics in Twisted MoS/WSe Heterostructures. 2021 , 15, 14725-14731	7

43	Exciton-exciton interaction in transition metal dichalcogenide monolayers and van der Waals heterostructures. 2021 , 103,		11
42	Current status and prospects of memristors based on novel 2D materials. 2020 , 7, 1495-1518		59
41	Brightening of spin- and momentum-dark excitons in transition metal dichalcogenides. <i>2D Materials</i> , 2021 , 8, 015013	5.9	6
40	Strain-dependent exciton diffusion in transition metal dichalcogenides. <i>2D Materials</i> , 2021 , 8, 015030	5.9	11
39	Spatially indirect excitons in black and blue phosphorene double layers. 2020 , 4,		4
38	Ultrafast dynamics in monolayer transition metal dichalcogenides: Interplay of dark excitons, phonons, and intervalley exchange. 2019 , 1,		24
37	Suppression of intervalley exchange coupling in the presence of momentum-dark states in transition metal dichalcogenides. 2020 , 2,		12
36	Phonon-mediated exciton capture in Mo-based transition metal dichalcogenides. 2020 , 2,		3
35	Phonon-Assisted Intervalley Scattering Determines Ultrafast Exciton Dynamics in MoSe ₂ Bilayers. 2021 , 127, 157403		2
34	Microscopic theory of exciton-exciton annihilation in two-dimensional semiconductors. 2021 , 104,		2
33	Exciton dynamics in atomically thin semiconductors: optical lineshape, intervalley coupling, and luminescence dynamics. 2019 ,		
32	Probing Electronic States in Monolayer Semiconductors through Static and Transient Third-Harmonic Spectroscopies. 2021 , e2107104		0
31	Spectral asymmetry of phonon sideband luminescence in monolayer and bilayer WSe ₂ . 2021 , 3,		3
30	Exciton luminescence and many-body effect of monolayer WS ₂ at room-temperature.		0
29	Trapping interlayer excitons in van der Waals heterostructures by potential arrays. 2021 , 104,		1
28	Excitonic theory of doping-dependent optical response in atomically thin semiconductors. 2022 , 105,		2
27	Anisotropic exciton diffusion in atomically-thin semiconductors. <i>2D Materials</i> , 2022 , 9, 025008	5.9	1
26	Engineering the radiative dynamics of thermalized excitons with metal interfaces.		0

25	Theory of exciton-phonon coupling. 2022 , 105,	1
24	Interlayer exciton valley polarization dynamics in large magnetic fields. 2022 , 105,	1
23	Ultrafast Nanoscopy of High-Density Exciton Phases in WSe ₂ . 2022 ,	5
22	Probing the long-lived photo-generated charge carriers in transition metal dichalcogenides by time-resolved microwave photoconductivity. 2022 , 11, 1335-1344	1
21	Enhanced Light-Matter Interaction in Two-Dimensional Transition Metal Dichalcogenides.. 2021 ,	4
20	Engineering Purcell Factor anisotropy for dark and bright excitons in two dimensional semiconductors. 2022 , 55, 225103	1
19	Dark exciton anti-funneling in atomically thin semiconductors. 2021 , 12, 7221	2
18	Simulation of Emission Spectra of Transition Metal Dichalcogenide Monolayers with the Multimode Brownian Oscillator Model.. 2022 ,	1
17	Theory of Excitons in Atomically Thin Semiconductors: Tight-Binding Approach.. 2022 , 12,	
16	Enhanced excitonic features in an anisotropic ReS ₂ /WSe ₂ heterostructure.	0
15	Disentangling Many-Body Effects in the Coherent Optical Response of 2D Semiconductors. 2022 , 22, 5322-5329	1
14	Ultrafast phonon-driven charge transfer in van der Waals heterostructures. <i>Natural Sciences</i> ,	1
13	Tailoring the superposition of finite-momentum valley exciton states in transition-metal dichalcogenide monolayers by using polarized twisted light. 2022 , 106,	0
12	Exciton optics, dynamics, and transport in atomically thin semiconductors. 2022 , 10, 100701	2
11	Signatures of dark excitons in exciton-polariton optics of transition metal dichalcogenides.	0
10	Interlayer exciton landscape in WS ₂ /tetracene heterostructures.	0
9	Singlet-exciton optics and phonon-mediated dynamics in oligoacene semiconductor crystals.	0
8	Observation of Multi-Directional Energy Transfer in a Hybrid Plasmonic-Excitonic Nanostructure. 2209100	0

- 7 Impact of dark excitons on Förster-type resonant energy transfer between dye molecules and atomically thin semiconductors. **2023**, 107,
- 6 Exciton Dynamics and Time-Resolved Fluorescence in Nanocavity-Integrated Monolayers of Transition-Metal Dichalcogenides. **2023**, 14, 221-229
- 5 Momentum-Resolved Exciton Coupling and Valley Polarization Dynamics in Monolayer WS₂. **2023**, 130,
- 4 Ultrafast Nanoimaging of Electronic Coherence of Monolayer WSe₂. **2023**, 23, 1767-1773
- 3 Dynamic screening of quasiparticles in WS₂ monolayers. **2023**, 107,
- 2 Ultrafast hot electron-hole plasma photoluminescence in two-dimensional semiconductors. **2023**, 15, 7154-7163
- 1 Microscopic modelling of phonon-mediated exciton propagation in organic semiconductors. **2023**,