

Colloquium : Excitons in atomically thin transition

Reviews of Modern Physics

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Functionals for exchange and correlation. , 2004, , 152-171.		3
2	Complexes of dipolar excitons in layered quasi-two-dimensional nanostructures. Physical Review B, 2018, 97, .	1.1	17
3	Tunable Resonance Coupling in Single Si Nanoparticleâ€“Monolayer WS ₂ Structures. ACS Applied Materials & Interfaces, 2018, 10, 16690-16697.	4.0	82
4	Light Sources and Photodetectors Enabled by 2D Semiconductors. Small Methods, 2018, 2, 1800019.	4.6	35
5	Using light, X-rays and electrons for evaluation of the nanostructure of layered materials. Nanoscale, 2018, 10, 21142-21150.	2.8	15
6	Dialkali-Metal Monochalcogenide Semiconductors with High Mobility and Tunable Magnetism. Journal of Physical Chemistry Letters, 2018, 9, 6695-6701.	2.1	17
7	Photoluminescence properties of the entire excitonic series in CuO . Physical Review B, 2018, 98, .	1.2	28
8	Dependence of band structure and exciton properties of encapsulated WSe_2 monolayers on the hBN-layer thickness. Physical Review B, 2018, 98, .	1.1	37
9	Crossover from trion-hole complex to exciton-polaron in n-doped two-dimensional semiconductor quantum wells. Physical Review B, 2018, 98, .	1.1	40
10	Room-Temperature Valley Polarization and Coherence in Transition Metal Dichalcogenideâ€“Graphene van der Waals Heterostructures. ACS Photonics, 2018, 5, 5047-5054.	3.2	41
11	A- and B-exciton photoluminescence intensity ratio as a measure of sample quality for transition metal dichalcogenide monolayers. APL Materials, 2018, 6, .	2.2	103
12	When bright and dark bind together. Nature Nanotechnology, 2018, 13, 982-983.	15.6	7
13	Optoelectronics with single layer group-VIB transition metal dichalcogenides. Nanophotonics, 2018, 7, 1589-1600.	2.9	18
14	Comprehensive optical characterization of atomically thin NbSe_2 . Physical Review B, 2018, 98, .	1.1	20
15	Theory of Excitonâ€“Exciton Interactions in Monolayer Transition Metal Dichalcogenides. Physica Status Solidi (B): Basic Research, 2018, 255, 1800185.	0.7	61
16	Interactions between Rydberg excitons in CuO . Physical Review B, 2018, 98, .	1.2	32
17	Mie excitons: Understanding strong coupling in dielectric nanoparticles. Physical Review B, 2018, 98, .	1.1	40
18	Two-photon absorption in two-dimensional materials: The case of hexagonal boron nitride. Physical Review B, 2018, 98, .	1.1	22

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19	Strong coupling between excitons in transition metal dichalcogenides and optical bound states in the continuum. <i>Physical Review B</i> , 2018, 98, .	1.1	75
20	Signatures of self-trapping of trions in monolayer MoS ₂ . <i>Journal Physics D: Applied Physics</i> , 2018, 51, 435102.	1.3	1
21	Efficient generation of neutral and charged biexcitons in encapsulated WSe ₂ monolayers. <i>Nature Communications</i> , 2018, 9, 3718.	5.8	133
22	Optical properties of excitons in buckled two-dimensional materials in an external electric field. <i>Physical Review B</i> , 2018, 98, .	1.1	26
23	Exciton States in Monolayer MoSe ₂ and MoTe ₂ Probed by Upconversion Spectroscopy. <i>Physical Review X</i> , 2018, 8, .	2.8	56
24	Charge-tuneable biexciton complexes in monolayer WSe ₂ . <i>Nature Communications</i> , 2018, 9, 3721.	5.8	185
25	Exciton physics and device application of two-dimensional transition metal dichalcogenide semiconductors. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	526
26	Spatial extent of the excited exciton states in WS ₂ monolayers from diamagnetic shifts. <i>Physical Review B</i> , 2018, 98, .	2.1	10
27	Band-bending induced by charged defects and edges of atomically thin transition metal dichalcogenide films. <i>2D Materials</i> , 2018, 5, 035034.	2.0	23
28	Exciton Diffusion and Halo Effects in Monolayer Semiconductors. <i>Physical Review Letters</i> , 2018, 120, 207401.	2.9	193
29	Characterization of the second- and third-harmonic optical susceptibilities of atomically thin tungsten diselenide. <i>Scientific Reports</i> , 2018, 8, 10035.	1.6	57
30	Exciton-polarons in doped semiconductors in a strong magnetic field. <i>Physical Review B</i> , 2018, 97, .	1.1	40
31	Layer-Number-Dependent Exciton Recombination Behaviors of MoS ₂ Determined by Fluorescence-Lifetime Imaging Microscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18651-18658.	1.5	21
32	Valley-contrasting optics of interlayer excitons in Mo- and W-based bulk transition metal dichalcogenides. <i>Nanoscale</i> , 2018, 10, 15571-15577.	2.8	31
33	Fingerprints of Berry phases in the bulk exciton spectrum of a topological insulator. <i>Physical Review B</i> , 2018, 98, .	1.1	6
34	Perfect absorption in transition metal dichalcogenides-based dielectric grating. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 375105.	1.3	10
35	Observation of exciton-phonon coupling in MoSe ₂ monolayers. <i>Physical Review B</i> , 2018, 98, .	1.1	10
36	Emerging photonic architectures in two-dimensional opto-electronics. <i>Chemical Society Reviews</i> , 2018, 47, 6824-6844.	18.7	71

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37	2D Material Microcavity Light Emitters: To Lase or Not to Lase?. <i>Advanced Optical Materials</i> , 2018, 6, 1800272.	3.6	49
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39	Spectrally narrow exciton luminescence from monolayer MoS ₂ and MoSe ₂ exfoliated onto epitaxially grown hexagonal BN. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	22
40	Breakdown of the Static Approximation for Free Carrier Screening of Excitons in Monolayer Semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800216.	0.7	22
41	Excitonic structure of the optical conductivity in MoS_2 monolayers. <i>Physical Review B</i> , 2018, 97, .	1.1	43
42	Observation of bosonic condensation in a hybrid monolayer MoSe ₂ -GaAs microcavity. <i>Nature Communications</i> , 2018, 9, 3286.	5.8	49
43	Enhancement of Exciton-Phonon Scattering from Monolayer to Bilayer WS ₂ . <i>Nano Letters</i> , 2018, 18, 6135-6143.	4.5	50
44	Extraordinary Second Harmonic Generation in ReS ₂ Atomic Crystals. <i>ACS Photonics</i> , 2018, 5, 3485-3491.	3.2	57
45	Substrate-induced shifts and screening in the fluorescence spectra of supramolecular adsorbed organic monolayers. <i>Journal of Chemical Physics</i> , 2018, 149, 054701.	1.2	22
46	Anomalous energy shift of laterally confined two-dimensional excitons. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	6
47	Quantum-electrodynamical approach to the exciton spectrum in transition-metal dichalcogenides. <i>2D Materials</i> , 2018, 5, 041006.	2.0	18
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50	Radiative Decay of Bound Electron Pairs in Two-Dimensional Topological Insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900358.	1.2	2
51	Dielectric disorder in two-dimensional materials. <i>Nature Nanotechnology</i> , 2019, 14, 832-837.	15.6	223
52	Exciton-Exciton Annihilation in Two-Dimensional Halide Perovskites at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5153-5159.	2.1	74
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54	Hubbard excitons in two-dimensional nanomaterials. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 275302.	0.7	1

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56	Supercontinuum second harmonic generation spectroscopy of atomically thin semiconductors. Review of Scientific Instruments, 2019, 90, 083102.	0.6	16
57	Control of the Exciton Radiative Lifetime in van der Waals Heterostructures. Physical Review Letters, 2019, 123, 067401.	2.9	85
58	Giant gate-tunable bandgap renormalization and excitonic effects in a 2D semiconductor. Science Advances, 2019, 5, eaaw2347.	4.7	80
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70	The influence of disorder on the exciton spectra in two-dimensional structures. Physical Chemistry Chemical Physics, 2019, 21, 21847-21855.	1.3	9
71	Localized Intervalley Defect Excitons as Single-Photon Emitters in WS_2 . Physical Review Letters, 2019, 123, 146401.	2.9	82
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73	Non-Coulombic behavior of electrostatic charge-charge interaction in three-layer heterostructures. <i>Journal of Electrostatics</i> , 2019, 102, 103377.	1.0	3
74	Effect of Deposition Pressure on the Microstructure and Optical Band Gap of Molybdenum Disulfide Films Prepared by Magnetron Sputtering. <i>Coatings</i> , 2019, 9, 570.	1.2	10
75	2D materials for optoelectronic devices. , 2019, , .		0
76	Generalized Kasha's Model: T-Dependent Spectroscopy Reveals Short-Range Structures of 2D Excitonic Systems. <i>CheM</i> , 2019, 5, 3135-3150.	5.8	20
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81	Ultrafast Charge Transfer and Valley Dynamics in WSe ₂ /MoSe ₂ Heterostructure. , 2019, , .		0
82	Rigid Band Shifts in Two-Dimensional Semiconductors through External Dielectric Screening. <i>Physical Review Letters</i> , 2019, 123, 206403.	2.9	65
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90	Inhomogeneous photocarrier dynamics and transport in monolayer MoS ₂ by ultrafast microscopy. <i>Nanotechnology</i> , 2019, 30, 485701.	1.3	6

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92	Probing and Manipulating Valley Coherence of Dark Excitons in Monolayer WS_2 . Physical Review Letters. 2019, 123, 096803.	2.9	49
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110	Energy Spectrum of Two-Dimensional Excitons in a Nonuniform Dielectric Medium. <i>Physical Review Letters</i> , 2019, 123, 136801.	2.9	56
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114	Limits to Strong Coupling of Excitons in Multilayer WS_2 with Collective Plasmonic Resonances. <i>ACS Photonics</i> , 2019, 6, 286-293.	3.2	76
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117	Interlayer exciton-polaron effect in transition metal dichalcogenides van der Waals heterostructures. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 134, 1-4.	1.9	6
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128	Heavy-hole and light-hole excitons in nonlinear absorption spectra of colloidal nanoplatelets. <i>Solid State Communications</i> , 2019, 299, 113651.	0.9	19
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130	Interlayer charge transfer in $\text{ReS}_2/\text{MoS}_2$ van der Waals heterostructures. <i>Physical Review B</i> , 2019, 99, .	1.1	3
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132	Tightly bound excitons in two-dimensional semiconductors with a flat valence band. <i>Physical Review B</i> , 2019, 99, .	1.1	10
133	Electronic structure, magnetoexcitons and valley polarized electron gas in 2D crystals. <i>Solid-State Electronics</i> , 2019, 155, 105-110.	0.8	3
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144	Quasi-two-dimensional electron-hole droplets. <i>Nature Photonics</i> , 2019, 13, 225-226.	15.6	7

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149	Interlayer hybridization and moiré superlattice minibands for electrons and excitons in heterobilayers of transition-metal dichalcogenides. <i>Physical Review B</i> , 2019, 99, .	1.1	116
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151	Strong One-Dimensional Characteristics of Hole-Carriers in ReS ₂ and ReSe ₂ . <i>Scientific Reports</i> , 2019, 9, 2730.	1.6	9
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153	Exciton Radiative Recombination Dynamics and Nonradiative Energy Transfer in Two-Dimensional Transition-Metal Dichalcogenides. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10087-10093.	1.5	31
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155	Strong Single- and Two-Photon Luminescence Enhancement by Nonradiative Energy Transfer across Layered Heterostructure. <i>ACS Nano</i> , 2019, 13, 4795-4803.	7.3	18
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157	Intrinsic and magnetic-field-induced linear polarization of excitons in ultrathin indirect-gap type-II GaAs/AlAs quantum wells. <i>Physical Review B</i> , 2019, 99, .	1.1	5
158	Electroluminescence from multi-particle exciton complexes in transition metal dichalcogenide semiconductors. <i>Nature Communications</i> , 2019, 10, 1709.	5.8	100
159	Enhancing functionalities of atomically thin semiconductors with plasmonic nanostructures. <i>Nanophotonics</i> , 2019, 8, 577-598.	2.9	26
160	Nonlinear Optical Response in Graphene/WX ₂ (X = S, Se, and Te) van der Waals Heterostructures. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2090-2100.	2.1	28
161	In-Plane Anisotropic Raman Response and Electrical Conductivity with Robust Electron-Photon and Electron-Phonon Interactions of Air Stable MoO ₂ Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2182-2190.	2.1	28
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164	Fine structure of K-excitons in multilayers of transition metal dichalcogenides. 2D Materials, 2019, 6, 025026.	2.0	28
165	Nonlinear optics in the electron-hole continuum in 2D semiconductors: two-photon transition, second harmonic generation and valley current injection. Science Bulletin, 2019, 64, 1036-1043.	4.3	4
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