Ashish Arora

List of Publications by Year
in descending order

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Version: 2024-02-01

38 papers	3,065 citations	361413 20 h-index	395702 33 g-index
39 all docs	39 docs citations	39 times ranked	4391 citing authors

#	Article	IF	Citations
1	Single photon emitters in exfoliated WSe2 structures. Nature Nanotechnology, 2015, 10, 503-506.	31.5	677
2	Indirect-to-Direct Band Gap Crossover in Few-Layer MoTe₂. Nano Letters, 2015, 15, 2336-2342.	9.1	339
3	Excitonic resonances in thin films of WSe₂: from monolayer to bulk material. Nanoscale, 2015, 7, 10421-10429.	5.6	275
4	Trion fine structure and coupled spinâ€“valley dynamics in monolayer tungsten disulfide. Nature Communications, 2016, 7, 12715.	12.8	239
5	Optical properties of atomically thin transition metal dichalcogenides: observations and puzzles. Nanophotonics, 2017, 6, 1289-1308.	6.0	165
6	Exciton band structure in layered MoSe₂: from a monolayer to the bulk limit. Nanoscale, 2015, 7, 20769-20775.	5.6	163
7	Thicknessâ€Dependent Refractive Index of 1L, 2L, and 3L MoS₂, MoSe₂, WS₂, and WSe₂. Advanced Optical Materials, 2019, 7, 1900239.	7.3	155
8	Phonon Sidebands in Monolayer Transition Metal Dichalcogenides. Physical Review Letters, 2017, 119, 187402.	7.8	136
9	Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike 1Tâ€²-ReSe₂. Nano Letters, 2017, 17, 3202-3207.	9.1	130
10	Excitonic Valley Effects in Monolayer WS₂ under High Magnetic Fields. Nano Letters, 2016, 16, 7899-7904.	9.1	114
11	Valley Zeeman Splitting and Valley Polarization of Neutral and Charged Excitons in Monolayer MoTe₂ at High Magnetic Fields. Nano Letters, 2016, 16, 3624-3629.	9.1	102
12	Orbital, spin and valley contributions to Zeeman splitting of excitonic resonances in MoSe ₂ , WSe ₂ and WS ₂ Monolayers. 2D Materials, 2019, 6, 015001.	4.4	85
13	Magnetic-Field-Induced Rotation of Polarized Light Emission from Monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2016, 117, 077402.	7.8	76
14	Interlayer excitons in a bulk van der Waals semiconductor. Nature Communications, 2017, 8, 639.	12.8	76
15	Excited-State Trions in Monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2019, 123, 167401.	7.8	56
16	Dark trions govern the temperature-dependent optical absorption and emission of doped atomically thin semiconductors. Physical Review B, 2020, 101, .	3.2	39
17	Excitonâ€“phonon coupling in mono- and bilayer MoTe ₂. 2D Materials, 2018, 5, 045007.	4.4	33
18	Valley-contrasting optics of interlayer excitons in Mo- and W-based bulk transition metal dichalcogenides. Nanoscale, 2018, 10, 15571-15577.	5.6	31

#	Article	IF	Citations
19	Magneto-optical Kerr effect spectroscopy based study of LandÃ© g-factor for holes in GaAs/AlGaAs single quantum wells under low magnetic fields. Journal of Applied Physics, 2013, 113, .	2.5	28
20	Zeeman spectroscopy of excitons and hybridization of electronic states in few-layer WSe ₂ , MoSe ₂ and MoTe ₂. 2D Materials, 2019, 6, 015010.	4.4	22
21	Magneto-optics of layered two-dimensional semiconductors and heterostructures: Progress and prospects. Journal of Applied Physics, 2021, 129, .	2.5	21
22	Anisotropic structural and optical properties of a-plane (112Â¯) AlInN nearly-lattice-matched to GaN. Applied Physics Letters, 2011, 98, .	3.3	20
23	Valley dynamics of excitons in monolayer dichalcogenides. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700131.	2.4	19
24	Strain tuning of the Stokes shift in atomically thin semiconductors. Nanoscale, 2020, 12, 20786-20796.	5.6	17
25	A twisted periscope arrangement for transporting elliptically polarized light without change in its polarization state. Review of Scientific Instruments, 2010, 81, 123102.	1.3	10
26	A mirror based polar magneto-optical Kerr effect spectroscopy arrangement. Review of Scientific Instruments, 2011, 82, 123903.	1.3	10
27	Facile synthesis of WS2 nanotubes by sulfurization of tungsten thin films: formation mechanism, and structural and optical properties. Nanoscale, 2018, 10, 16683-16691.	5.6	9
28	Fiber optic based system for polarization sensitive spectroscopy of semiconductor quantum structures. Review of Scientific Instruments, 2010, 81, 083901.	1.3	5
29	Polarization sensitive lateral photoconductivity in GaAs/AlGaAs quantum well based structures on low-temperature grown GaAs(001). Applied Physics Letters, 2010, 97, .	3.3	4
30	Polarization of emission from non-polar III-nitride quantum wells: the influence of confinement. Journal Physics D: Applied Physics, 2014, 47, 045101.	2.8	3
31	Polarization sensitive solar-blind detector based on a-plane AlGaN. , 2011, , .		1
32	Large exciton g-factors in anisotropically strained A-plane GaN film measured using magneto-optical Kerr effect spectroscopy. Applied Physics Letters, 2013, 103, 052109.	3.3	1
33	Correction to Highly Anisotropic in-Plane Excitons in Atomically Thin and Bulklike 1Tâ€²-ReSe2. Nano Letters, 2017, 17, 7169-7169.	9.1	1
34	Understanding transition metal dichalcogenide absorption line widths in electron energy loss spectroscopy. Microscopy and Microanalysis, 2021, 27, 1170-1172.	0.4	1
35	Optical spectroscopy of valley dynamics and interlayer excitons in transition-metal dichalcogenide monolayers and heterostructures. , 2017, , .		0
36	Rotation of polarized light emission from monolayer WS2 induced by high magnetic fields. , 2017, , .		0

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37	Correlative Luminescence and Absorption Spectroscopy from Monolayer WSe2 at the Nanoscale. Microscopy and Microanalysis, 2021, 27, 1470-1472.	0.4	0
38	MoirÃ© Angle Dependent Excitonic Absorption in Twisted Bilayer WSe2 by EELS. Microscopy and Microanalysis, 2021, 27, 122-123.	0.4	0