

Gang Wang

List of Publications by Year in descending order

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papers

8,331
citations

147786
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all docs

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docs citations

43
times ranked

8732
citing authors

#	ARTICLE	IF	CITATIONS
1	Valley-selective circular dichroism of monolayer molybdenum disulphide. Nature Communications, 2012, 3, 887.	12.8	2,078
2	Colloquium : Excitons in atomically thin transition metal dichalcogenides. Reviews of Modern Physics, 2018, 90, .	45.6	1,292
3	Giant Enhancement of the Optical Second-Harmonic Emission of WSe_2 by Laser Excitation at Exciton Resonances. Physical Review Letters, 2015, 114, 097403.	7.8	464
4	Excitonic Linewidth Approaching the Homogeneous Limit in MoS_2 -Based van der Waals Heterostructures. Physical Review X, 2017, 7, .	8.9	389
5	Robust optical emission polarization in MoS_2 monolayers through selective valley excitation. Physical Review B, 2012, 86, .	3.2	385
6	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS_2 . Physical Review B, 2013, 88, .	3.2	365
7	Exciton radiative lifetime in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	3.2	335
8	Valley dynamics probed through charged and neutral exciton emission in monolayer WSe_2 . Physical Review B, 2014, 90, .	3.2	325
9	In-Plane Propagation of Light in Transition Metal Dichalcogenide Monolayers: Optical Selection Rules. Physical Review Letters, 2017, 119, 047401.	7.8	257
10	Broadband, electrically tunable third-harmonic generation in graphene. Nature Nanotechnology, 2018, 13, 583-588.	31.5	211
11	Charged excitons in monolayer WSe_2 : Experiment and theory. Physical Review B, 2017, 96, .	3.2	200
12	Charge-tuneable biexciton complexes in monolayer WSe_2 . Nature Communications, 2018, 9, 3721.	12.8	185
13	Spin-orbit engineering in transition metal dichalcogenide alloy monolayers. Nature Communications, 2015, 6, 10110.	12.8	176
14	Influence of excitation power and temperature on photoluminescence in InGaN/GaN multiple quantum wells. Optics Express, 2012, 20, 3932.	3.4	142
15	Polarization and time-resolved photoluminescence spectroscopy of excitons in $MoSe_2$ monolayers. Applied Physics Letters, 2015, 106, .	3.3	136
16	Magneto-optics in transition metal diselenide monolayers. 2D Materials, 2015, 2, 034002.	4.4	126
17	Control of Exciton Valley Coherence in Transition Metal Dichalcogenide Monolayers. Physical Review Letters, 2016, 117, 187401.	7.8	126
18	Enabling valley selective exciton scattering in monolayer WSe_2 through upconversion. Nature Communications, 2017, 8, 14927.	12.8	124

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19	Spin and valley dynamics of excitons in transition metal dichalcogenide monolayers. Physica Status Solidi (B): Basic Research, 2015, 252, 2349-2362.	1.5	107
20	Discrete quantum dot like emitters in monolayer MoSe ₂ : Spatial mapping, magneto-optics, and charge tuning. Applied Physics Letters, 2016, 108, .	3.3	95
21	Domain Architectures and Grain Boundaries in Chemical Vapor Deposited Highly Anisotropic ReS ₂ Monolayer Films. Nano Letters, 2016, 16, 5888-5894.	9.1	79
22	Exciton states in monolayer MoSe ₂ : impact on interband transitions. 2D Materials, 2015, 2, 045005.	4.4	71
23	Double Resonant Raman Scattering and Valley Coherence Generation in Monolayer WS_2 . Physical Review Letters, 2015, 115, 117401.	7.8	64
24	Ultra-low power threshold for laser induced changes in optical properties of 2D molybdenum dichalcogenides. 2D Materials, 2016, 3, 045008.	4.4	63
25	Electrical spin injection and detection in molybdenum disulfide multilayer channel. Nature Communications, 2017, 8, 14947.	12.8	63
26	Excitonic properties of semiconducting monolayer and bilayer $MoTe_2$. Physical Review B, 2016, 94, .	3.2	60
27	Intrinsic exciton-state mixing and nonlinear optical properties in transition metal dichalcogenide monolayers. Physical Review B, 2017, 95, .	3.2	60
28	Synthesis of Highly Anisotropic Semiconducting GaTe Nanomaterials and Emerging Properties Enabled by Epitaxy. Advanced Materials, 2017, 29, 1605551.	21.0	57
29	Gate control of the electron spin-diffusion length in semiconductor quantum wells. Nature Communications, 2013, 4, 2372.	12.8	53
30	Well separated trion and neutral excitons on superacid treated MoS ₂ monolayers. Applied Physics Letters, 2016, 108, .	3.3	51
31	Exciton dynamics in WS_2 bilayers. Applied Physics Letters, 2014, 105, .	3.3	47
32	Hot Electrons Modulation of Third-Harmonic Generation in Graphene. ACS Photonics, 2019, 6, 2841-2849.	6.6	29
33	Room temperature spin diffusion in (110) GaAs/AlGaAs quantum wells. Nanoscale Research Letters, 2011, 6, 149.	5.7	15
34	Growth direction dependence of the electron spin dynamics in {111} GaAs quantum wells. Applied Physics Letters, 2012, 101, .	3.3	15
35	Electric field dependence of the spin relaxation anisotropy in (111) GaAs/AlGaAs quantum wells. New Journal of Physics, 2013, 15, 095016.	2.9	14
36	Charge tuning in [111] grown GaAs droplet quantum dots. Applied Physics Letters, 2014, 105, 082111.	3.3	12

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37	Hyperfine coupling of hole and nuclear spins in symmetric (111)-grown GaAs quantum dots. Physical Review B, 2016, 94, .	3.2	11
38	Magneto spectroscopy of excited states in charge-tunable GaAs/AlGaAs [111] quantum dots. Physical Review B, 2016, 93, .	3.2	10
39	Temperature dependent electric field control of the electron spin relaxation in (111)A GaAs quantum wells. Applied Physics Letters, 2013, 102, .	3.3	9
40	Electron spin dephasing and optical pumping of nuclear spins in GaN. Physical Review B, 2014, 90, .	3.2	9
41	Magnetic field effect on electron spin dynamics in (110) GaAs quantum wells. New Journal of Physics, 2014, 16, 045008.	2.9	7
42	Anisotropic in-plane spin splitting in an asymmetric (001) GaAs/AlGaAs quantum well. Nanoscale Research Letters, 2011, 6, 520.	5.7	4
43	Spin Dynamics in (111) GaAs/AlGaAs Undoped Asymmetric Quantum Wells. Chinese Physics Letters, 2012, 29, 097204.	3.3	3