

Gang Wang

List of Publications by Year in descending order

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citations

168829

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43
all docs

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docs citations

43
times ranked

10210
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot Electrons Modulation of Third-Harmonic Generation in Graphene. ACS Photonics, 2019, 6, 2841-2849.	3.2	29
2	<i>Colloquium</i> : Excitons in atomically thin transition metal dichalcogenides. Reviews of Modern Physics, 2018, 90, .	16.4	1,292
3	Charge-tunable biexciton complexes in monolayer WSe ₂ . Nature Communications, 2018, 9, 3721.	5.8	185
4	Broadband, electrically tunable third-harmonic generation in graphene. Nature Nanotechnology, 2018, 13, 583-588.	15.6	211
5	Electrical spin injection and detection in molybdenum disulfide multilayer channel. Nature Communications, 2017, 8, 14947.	5.8	63
6	Enabling valley selective exciton scattering in monolayer WSe ₂ through upconversion. Nature Communications, 2017, 8, 14927.	5.8	124
7	Synthesis of Highly Anisotropic Semiconducting GaTe Nanomaterials and Emerging Properties Enabled by Epitaxy. Advanced Materials, 2017, 29, 1605551.	11.1	57
8	Excitonic Linewidth Approaching the Homogeneous Limit in MoS_2 -Based van der Waals Heterostructures. Physical Review X, 2017, 7, .	2.8	389
9	In-Plane Propagation of Light in Transition Metal Dichalcogenide Monolayers: Optical Selection Rules. Physical Review Letters, 2017, 119, 047401.	2.9	257
10	Charged excitons in monolayer WSe_2 : Experiment and theory. Physical Review B, 2017, 96, .	1.1	207
11	Intrinsic exciton-state mixing and nonlinear optical properties in transition metal dichalcogenide monolayers. Physical Review B, 2017, 95, .	1.1	60
12	Discrete quantum dot like emitters in monolayer MoSe ₂ : Spatial mapping, magneto-optics, and charge tuning. Applied Physics Letters, 2016, 108, .	1.5	95
13	Well separated trion and neutral excitons on superacid treated MoS ₂ monolayers. Applied Physics Letters, 2016, 108, .	1.5	51
14	Hyperfine coupling of hole and nuclear spins in symmetric (111)-grown GaAs quantum dots. Physical Review B, 2016, 94, .	1.1	11
15	Domain Architectures and Grain Boundaries in Chemical Vapor Deposited Highly Anisotropic ReS ₂ Monolayer Films. Nano Letters, 2016, 16, 5888-5894.	4.5	79
16	Exciton radiative lifetime in transition metal dichalcogenide monolayers. Physical Review B, 2016, 93, .	1.1	335
17	Magneto spectroscopy of excited states in charge-tunable GaAs/AlGaAs [111] quantum dots. Physical Review B, 2016, 93, .	1.1	10
18	Control of Exciton Valley Coherence in Transition Metal Dichalcogenide Monolayers. Physical Review Letters, 2016, 117, 187401.	2.9	126

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19	Excitonic properties of semiconducting monolayer and bilayer MoTe_2 . Physical Review B, 2016, 94, .	1.1	60
20	Ultra-low power threshold for laser induced changes in optical properties of 2D molybdenum dichalcogenides. 2D Materials, 2016, 3, 045008.	2.0	63
21	Spin and valley dynamics of excitons in transition metal dichalcogenide monolayers. Physica Status Solidi (B): Basic Research, 2015, 252, 2349-2362.	0.7	107
22	Double Resonant Raman Scattering and Valley Coherence Generation in Monolayer WSe_2 . Physical Review Letters, 2015, 115, 117401.	2.9	64
23	Magneto-optics in transition metal diselenide monolayers. 2D Materials, 2015, 2, 034002.	2.0	126
24	Spin-orbit engineering in transition metal dichalcogenide alloy monolayers. Nature Communications, 2015, 6, 10110.	5.8	176
25	Exciton states in monolayer MoSe_2 : impact on interband transitions. 2D Materials, 2015, 2, 045005.	2.0	71
26	Giant Enhancement of the Optical Second-Harmonic Emission of WSe_2 by Laser Excitation at Exciton Resonances. Physical Review Letters, 2015, 114, 097403.	2.9	464
27	Polarization and time-resolved photoluminescence spectroscopy of excitons in MoSe_2 monolayers. Applied Physics Letters, 2015, 106, .	1.5	136
28	Exciton dynamics in WSe_2 bilayers. Applied Physics Letters, 2014, 105, .	1.5	47
29	Electron spin dephasing and optical pumping of nuclear spins in GaN. Physical Review B, 2014, 90, .	1.1	9
30	Magnetic field effect on electron spin dynamics in (110) GaAs quantum wells. New Journal of Physics, 2014, 16, 045008.	1.2	7
31	Valley dynamics probed through charged and neutral exciton emission in monolayer WSe_2 . Physical Review B, 2014, 90, .	1.1	325
32	Charge tuning in [111] grown GaAs droplet quantum dots. Applied Physics Letters, 2014, 105, 082111.	1.5	12
33	Gate control of the electron spin-diffusion length in semiconductor quantum wells. Nature Communications, 2013, 4, 2372.	5.8	53
34	Temperature dependent electric field control of the electron spin relaxation in (111)A GaAs quantum wells. Applied Physics Letters, 2013, 102, .	1.5	9
35	Electric field dependence of the spin relaxation anisotropy in (111) GaAs/AlGaAs quantum wells. New Journal of Physics, 2013, 15, 095016.	1.2	14
36	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS_2 . Physical Review B, 2013, 88, .	1.1	365

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37	Influence of excitation power and temperature on photoluminescence in InGaN/GaN multiple quantum wells. Optics Express, 2012, 20, 3932.	1.7	142
38	Growth direction dependence of the electron spin dynamics in {111} GaAs quantum wells. Applied Physics Letters, 2012, 101, .	1.5	15
39	Spin Dynamics in (111) GaAs/AlGaAs Undoped Asymmetric Quantum Wells. Chinese Physics Letters, 2012, 29, 097204.	1.3	3
40	Robust optical emission polarization in MoS ₂ monolayers through selective valley excitation. Physical Review B, 2012, 86, .	1.1	385
41	Valley-selective circular dichroism of monolayer molybdenum disulphide. Nature Communications, 2012, 3, 887.	5.8	2,078
42	Anisotropic in-plane spin splitting in an asymmetric (001) GaAs/AlGaAs quantum well. Nanoscale Research Letters, 2011, 6, 520.	3.1	4
43	Room temperature spin diffusion in (110) GaAs/AlGaAs quantum wells. Nanoscale Research Letters, 2011, 6, 149.	3.1	15