

Xiaoqin Li

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124
papers

7,133
citations

40
h-index

83
g-index

144
ext. papers

8,552
ext. citations

10.3
avg, IF

5.74
L-index

#	Paper	IF	Citations
124	An all-optical quantum gate in a semiconductor quantum dot. <i>Science</i> , 2003 , 301, 809-11	33.3	746
123	Rabi oscillations of excitons in single quantum dots. <i>Physical Review Letters</i> , 2001 , 87, 133603	7.4	546
122	Evidence for moiré excitons in van der Waals heterostructures. <i>Nature</i> , 2019 , 567, 71-75	50.4	538
121	Intrinsic homogeneous linewidth and broadening mechanisms of excitons in monolayer transition metal dichalcogenides. <i>Nature Communications</i> , 2015 , 6, 8315	17.4	309
120	A subwavelength plasmonic metamolecule exhibiting magnetic-based optical Fano resonance. <i>Nature Nanotechnology</i> , 2013 , 8, 95-9	28.7	271
119	Chirality detection of enantiomers using twisted optical metamaterials. <i>Nature Communications</i> , 2017 , 8, 14180	17.4	242
118	Two-quantum 2D FT electronic spectroscopy of biexcitons in GaAs quantum wells. <i>Science</i> , 2009 , 324, 1169-73	33.3	225
117	Stimulated and spontaneous optical generation of electron spin coherence in charged GaAs quantum dots. <i>Physical Review Letters</i> , 2005 , 94, 227403	7.4	217
116	Many-body interactions in semiconductors probed by optical two-dimensional fourier transform spectroscopy. <i>Physical Review Letters</i> , 2006 , 96, 057406	7.4	179
115	Direct measurement of exciton valley coherence in monolayer WSe ₂ . <i>Nature Physics</i> , 2016 , 12, 677-682	16.2	168
114	Impact of grain boundaries on efficiency and stability of organic-inorganic trihalide perovskites. <i>Nature Communications</i> , 2017 , 8, 2230	17.4	166
113	Propagating surface plasmon induced photon emission from quantum dots. <i>Nano Letters</i> , 2009 , 9, 4168-71.5	11.5	158
112	Trion formation dynamics in monolayer transition metal dichalcogenides. <i>Physical Review B</i> , 2016 , 93,	3.3	127
111	Manipulating coupling between a single semiconductor quantum dot and single gold nanoparticle. <i>Nano Letters</i> , 2011 , 11, 1049-54	11.5	125
110	Nanomanipulation and controlled self-assembly of metal nanoparticles and nanocrystals for plasmonics. <i>Chemical Society Reviews</i> , 2016 , 45, 5672-5716	58.5	122
109	Biexciton quantum coherence in a single quantum dot. <i>Physical Review Letters</i> , 2002 , 88, 117901	7.4	115
108	Neutral and charged inter-valley biexcitons in monolayer MoSe. <i>Nature Communications</i> , 2017 , 8, 15552	17.4	112

107	Measurement of optical absorption by a single quantum dot exciton. <i>Physical Review B</i> , 2002 , 65,	3.3	106
106	Intrinsic optical properties and enhanced plasmonic response of epitaxial silver. <i>Advanced Materials</i> , 2014 , 26, 6106-10	24	101
105	Optical two-dimensional Fourier transform spectroscopy with active interferometric stabilization. <i>Optics Express</i> , 2005 , 13, 7432-41	3.3	101
104	Polarization-dependent optical 2D Fourier transform spectroscopy of semiconductors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14227-32	11.5	93
103	Coherent Electronic Coupling in Atomically Thin MoSe ₂ . <i>Physical Review Letters</i> , 2014 , 112,	7.4	88
102	Separation of valley excitons in a MoS ₂ monolayer using a subwavelength asymmetric groove array. <i>Nature Photonics</i> , 2019 , 13, 180-184	33.9	86
101	Giant colloidal silver crystals for low-loss linear and nonlinear plasmonics. <i>Nature Communications</i> , 2015 , 6, 7734	17.4	80
100	Long-Lived Valley Polarization of Intravalley Trions in Monolayer WSe ₂ . <i>Physical Review Letters</i> , 2016 , 117, 257402	7.4	75
99	Interfacial Dzyaloshinskii-Moriya Interaction: Effect of 5d Band Filling and Correlation with Spin Mixing Conductance. <i>Physical Review Letters</i> , 2018 , 120, 157204	7.4	73
98	Strong Damping-Like Spin-Orbit Torque and Tunable Dzyaloshinskii-Moriya Interaction Generated by Low-Resistivity Pd _{1-x} Pt _x Alloys. <i>Advanced Functional Materials</i> , 2019 , 29, 1805822	15.6	72
97	Microsecond Valley Lifetime of Defect-Bound Excitons in Monolayer WSe ₂ . <i>Physical Review Letters</i> , 2018 , 121, 057403	7.4	69
96	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. <i>Nano Letters</i> , 2018 , 18, 980-986	11.5	68
95	Radiation of spin waves from the open end of a microscopic magnetic-film waveguide. <i>Physical Review B</i> , 2009 , 80,	3.3	61
94	Optical two-dimensional Fourier transform spectroscopy of semiconductors. <i>Chemical Physics Letters</i> , 2005 , 416, 311-315	2.5	61
93	Plasmonic Metasurfaces for Nonlinear Optics and Quantitative SERS. <i>ACS Photonics</i> , 2016 , 3, 1371-1384	6.3	59
92	Directly visualizing the momentum-forbidden dark excitons and their dynamics in atomically thin semiconductors. <i>Science</i> , 2020 , 370, 1199-1204	33.3	55
91	Biexciton fine structure in monolayer transition metal dichalcogenides. <i>Nature Physics</i> , 2018 , 14, 1199-1204	10.4	55
90	Controlled AFM manipulation of small nanoparticles and assembly of hybrid nanostructures. <i>Nanotechnology</i> , 2011 , 22, 115301	3.4	52

89	Coherent and Incoherent Coupling Dynamics between Neutral and Charged Excitons in Monolayer MoSe ₂ . <i>Nano Letters</i> , 2016 , 16, 5109-13	11.5	51
88	Interfacial control of Dzyaloshinskii-Moriya interaction in heavy metal/ferromagnetic metal thin film heterostructures. <i>Physical Review B</i> , 2016 , 94,	3.3	50
87	Dzyaloshinskii-Moriya Interaction across an Antiferromagnet-Ferromagnet Interface. <i>Physical Review Letters</i> , 2017 , 119, 027202	7.4	48
86	Epitaxial Growth of Atomically Smooth Aluminum on Silicon and Its Intrinsic Optical Properties. <i>ACS Nano</i> , 2016 , 10, 9852-9860	16.7	47
85	Hyperbolic Phonon Polaritons in Suspended Hexagonal Boron Nitride. <i>Nano Letters</i> , 2019 , 19, 1009-1014	11.5	42
84	Single quantum dot controls a plasmonic cavity's scattering and anisotropy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 12288-92	11.5	40
83	Control of propagating spin waves via spin transfer torque in a metallic bilayer waveguide. <i>Physical Review B</i> , 2014 , 89,	3.3	40
82	Modular assembly of optical nanocircuits. <i>Nature Communications</i> , 2014 , 5, 3896	17.4	40
81	Atomic force microscope nanomanipulation with simultaneous visual guidance. <i>ACS Nano</i> , 2009 , 3, 2989-2997	14.7	40
80	Magnons and Phonons Optically Driven out of Local Equilibrium in a Magnetic Insulator. <i>Physical Review Letters</i> , 2016 , 117, 107202	7.4	35
79	Epitaxial Aluminum-on-Sapphire Films as a Plasmonic Material Platform for Ultraviolet and Full Visible Spectral Regions. <i>ACS Photonics</i> , 2018 , 5, 2624-2630	6.3	34
78	Phonon renormalization in reconstructed MoS ₂ superlattices. <i>Nature Materials</i> , 2021 , 20, 1100-1105	27	31
77	Plasmonic nano-protractor based on polarization spectro-tomography. <i>Nature Photonics</i> , 2013 , 7, 367-372	33.9	30
76	Density matrix tomography through sequential coherent optical rotations of an exciton qubit in a single quantum dot. <i>Physical Review Letters</i> , 2006 , 96, 087402	7.4	29
75	Measurement of relaxation between polarization eigenstates in single quantum dots. <i>Applied Physics Letters</i> , 2002 , 81, 4251-4253	3.4	29
74	Moiré potential impedes interlayer exciton diffusion in van der Waals heterostructures. <i>Science Advances</i> , 2020 , 6,	14.3	29
73	Photoluminescence dynamics of ensemble and individual CdSe/ZnS quantum dots with an alloyed core/shell interface. <i>Journal of Applied Physics</i> , 2011 , 109, 103509	2.5	28
72	Solid-state carrier-envelope phase stabilization via quantum interference control of injected photocurrents. <i>Optics Letters</i> , 2005 , 30, 735-7	3	28

71	Interplay Between Optical Bianisotropy and Magnetism in Plasmonic Metamolecules. <i>Nano Letters</i> , 2016 , 16, 4322-8	11.5	27
70	Dielectric impact on exciton binding energy and quasiparticle bandgap in monolayer WS ₂ and WSe ₂ . <i>2D Materials</i> , 2019 , 6, 025028	5.9	25
69	Diffraction of spin waves from a submicrometer-size defect in a microwaveguide. <i>Applied Physics Letters</i> , 2009 , 95, 122510	3.4	25
68	Transient nonlinear spectroscopy of excitons and biexcitons in single quantum dots. <i>Physical Review B</i> , 2002 , 65,	3.3	25
67	Spin Hall-induced auto-oscillations in ultrathin YIG grown on Pt. <i>Scientific Reports</i> , 2018 , 8, 1269	4.9	24
66	Twist Angle-Dependent Interlayer Exciton Lifetimes in van der Waals Heterostructures. <i>Physical Review Letters</i> , 2021 , 126, 047401	7.4	24
65	Modulated interlayer exciton properties in a two-dimensional moiré crystal. <i>Physical Review B</i> , 2019 , 100,	3.3	22
64	Research Update: Recent progress on 2D materials beyond graphene: From ripples, defects, intercalation, and valley dynamics to straintronics and power dissipation. <i>APL Materials</i> , 2018 , 6, 080701	5.7	22
63	Cascaded exciton energy transfer in a monolayer semiconductor lateral heterostructure assisted by surface plasmon polariton. <i>Nature Communications</i> , 2017 , 8, 35	17.4	22
62	Ferrimagnetic Skyrmions in Topological Insulator/Ferrimagnet Heterostructures. <i>Advanced Materials</i> , 2020 , 32, e2003380	24	21
61	Trion Valley Coherence in Monolayer Semiconductors. <i>2D Materials</i> , 2017 , 4,	5.9	20
60	Spectrally tunable infrared plasmonic F ₂ /Sn:InO nanocrystal cubes. <i>Journal of Chemical Physics</i> , 2020 , 152, 014709	3.9	19
59	Energy-Resolved Photoconductivity Mapping in a Monolayer-Bilayer WSe ₂ Lateral Heterostructure. <i>Nano Letters</i> , 2018 , 18, 7200-7206	11.5	19
58	Photophysics of Thermally-Assisted Photobleaching in "Giant" Quantum Dots Revealed in Single Nanocrystals. <i>ACS Nano</i> , 2018 , 12, 4206-4217	16.7	18
57	Brillouin light scattering spectra as local temperature sensors for thermal magnons and acoustic phonons. <i>Applied Physics Letters</i> , 2013 , 102, 082401	3.4	18
56	Investigation of electronic coupling in semiconductor double quantum wells using coherent optical two-dimensional Fourier transform spectroscopy. <i>Solid State Communications</i> , 2009 , 149, 361-366	1.6	18
55	Chiral Symmetry Breaking for Deterministic Switching of Perpendicular Magnetization by Spin-Orbit Torque. <i>Nano Letters</i> , 2021 , 21, 515-521	11.5	18
54	Enhancing functionalities of atomically thin semiconductors with plasmonic nanostructures. <i>Nanophotonics</i> , 2019 , 8, 577-598	6.3	17

53	Tailoring Semiconductor Lateral Multijunctions for Giant Photoconductivity Enhancement. <i>Advanced Materials</i> , 2017 , 29, 1703680	24	17
52	Unveiling defect-mediated carrier dynamics in monolayer semiconductors by spatiotemporal microwave imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13908-13913	11.5	16
51	Single-spin sensing of domain-wall structure and dynamics in a thin-film skyrmion host. <i>Physical Review Materials</i> , 2019 , 3,	3.2	16
50	Disorder-dependent valley properties in monolayer WSe ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	14
49	Raman coherence beats from the entangled state involving polarized excitons in single quantum dots. <i>Physical Review B</i> , 2004 , 70,	3.3	14
48	Coherent optical control of semiconductor quantum dots for quantum information processing. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 25, 242-248	3	14
47	Experimental measurement of the intrinsic excitonic wave function. <i>Science Advances</i> , 2021 , 7,	14.3	14
46	Temperature dependence of Brillouin light scattering spectra of acoustic phonons in silicon. <i>Applied Physics Letters</i> , 2015 , 106, 051906	3.4	13
45	Characterization of carrier-envelope phase-sensitive photocurrent injection in a semiconductor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005 , 22, 362	1.7	12
44	Wavelength modulation spectroscopy of single quantum dots. <i>Applied Physics Letters</i> , 2002 , 80, 1876-1878	3.4	12
43	Semiconductor Quantum Dot Lifetime Near an Atomically Smooth Ag Film Exhibits a Narrow Distribution. <i>ACS Photonics</i> , 2016 , 3, 1085-1089	6.3	12
42	Epitaxial Growth of Optically Thick, Single Crystalline Silver Films for Plasmonics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3189-3195	9.5	12
41	Magnon and phonon thermometry with inelastic light scattering. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 133001	3	11
40	Enhanced spin-polarization lifetimes in a two-dimensional electron gas in a gate-controlled GaAs quantum well. <i>Physical Review B</i> , 2016 , 94,	3.3	10
39	Temperature-dependent Brillouin light scattering spectra of magnons in yttrium iron garnet and permalloy. <i>Physical Review B</i> , 2017 , 96,	3.3	10
38	Correlation between the Dzyaloshinskii-Moriya interaction and spin-mixing conductance at an antiferromagnet/ferromagnet interface. <i>Physical Review B</i> , 2018 , 98,	3.3	10
37	Self-assembled InGaAs quantum dot clusters with controlled spatial and spectral properties. <i>Nano Letters</i> , 2012 , 12, 5169-74	11.5	9
36	Quantum Beats in Hybrid Metal/Semiconductor Nanostructures. <i>ACS Photonics</i> , 2015 , 2, 1341-1347	6.3	8

35	Strongly confined excitons in self-assembled InGaAs quantum dot clusters produced by a hybrid growth method. <i>Journal of Applied Physics</i> , 2010 , 107, 104302	2.5	8
34	Solid-state carrier-envelope-phase noise measurements with intrinsically balanced detection. <i>Optics Express</i> , 2004 , 12, 4255-60	3.3	8
33	Plasmon-enhanced nonlinear yield in the Otto and Kretschmann configurations. <i>Physical Review B</i> , 2018 , 98,	3.3	8
32	Deviation from exponential decay for spin waves excited with a coplanar waveguide antenna. <i>Applied Physics Letters</i> , 2012 , 101, 252409	3.4	7
31	Optical dielectric constants of single crystalline silver films in the long wavelength range. <i>Optical Materials Express</i> , 2020 , 10, 693	2.6	7
30	Enhancement of Plasmonic Performance in Epitaxial Silver at Low Temperature. <i>Scientific Reports</i> , 2017 , 7, 8917	4.9	6
29	Study of the perpendicular magnetic anisotropy, spin-orbit torque, and Dzyaloshinskii-Moriya interaction in the heavy metal/CoFeB bilayers with Ir ₂₂ Mn ₇₈ insertion. <i>Applied Physics Letters</i> , 2020 , 116, 242407	3.4	6
28	Addition of Monovalent Silver Cations to CH ₃ NH ₃ PbBr ₃ Produces Crystallographically Oriented Perovskite Thin Films. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6087-6096	6.1	6
27	Transient nonlinear optical spectroscopy studies involving biexciton coherence in single quantum dots. <i>Physical Review B</i> , 2006 , 73,	3.3	6
26	Pure Spin Current and Magnon Chemical Potential in a Nonequilibrium Magnetic Insulator. <i>Physical Review X</i> , 2020 , 10,	9.1	5
25	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021 , 33, e2007236	24	5
24	Electron-Phonon and Spin-Lattice Coupling in Atomically Thin Layers of MnBiTe. <i>Nano Letters</i> , 2021 , 21, 6139-6145	11.5	5
23	Time-resolved ARPES Determination of a Quasi-Particle Band Gap and Hot Electron Dynamics in Monolayer MoS. <i>Nano Letters</i> , 2021 , 21, 7363-7370	11.5	5
22	Coherent coupling between exciton resonances governed by the disorder potential. <i>Physical Review B</i> , 2013 , 88,	3.3	4
21	Sideband pump-probe technique resolves nonlinear modulation response of PbS/CdS quantum dots on a silicon nitride waveguide. <i>APL Photonics</i> , 2018 , 3, 016101	5.2	3
20	Current control of magnetic anisotropy via stress in a ferromagnetic metal waveguide. <i>Physical Review B</i> , 2016 , 93,	3.3	3
19	Non-local coherent coupling between excitons in a disordered quantum well. <i>New Journal of Physics</i> , 2013 , 15, 075026	2.9	3
18	3D Hybrid Trilayer Heterostructure: Tunable Au Nanorods and Optical Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 45015-45022	9.5	3

17	Strain-dependent luminescence and piezoelectricity in monolayer transition metal dichalcogenides. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020 , 38, 042205	1.3	3
16	Superior photo-carrier diffusion dynamics in organic-inorganic hybrid perovskites revealed by spatiotemporal conductivity imaging. <i>Nature Communications</i> , 2021 , 12, 5009	17.4	3
15	Polarization properties of a CdSe/ZnS and Au nanoparticle dimer. <i>ChemPhysChem</i> , 2012 , 13, 2522-5	3.2	2
14	Phonon-Assisted Intervalley Scattering Determines Ultrafast Exciton Dynamics in MoSe ₂ Bilayers. <i>Physical Review Letters</i> , 2021 , 127, 157403	7.4	2
13	Dimensional crossover in spin Hall oscillators. <i>Physical Review B</i> , 2020 , 102,	3.3	2
12	Coherent quantum dynamics of excitons in monolayer transition metal dichalcogenides 2016 ,		1
11	Strong optical magnetism and Fano resonances in asymmetric plasmonic metamolecules 2013 ,		1
10	2d Fourier spectroscopy of disordered quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1141-1144		1
9	Optically Driven Quantum Computing Devices Based on Semiconductor Quantum Dots. <i>Quantum Information Processing</i> , 2004 , 3, 147-161	1.6	1
8	Direct Probing of Quantum Dots through Linear and Nonlinear Nano-Optics. <i>Physica Status Solidi (B): Basic Research</i> , 2002 , 234, 435-442	1.3	1
7	Phonon Dephasing Dynamics in MoS ₂ . <i>Nano Letters</i> , 2021 , 21, 1434-1439	11.5	1
6	Magnons and magnetic fluctuations in atomically thin MnBiTe ₂ . <i>Nature Communications</i> , 2022 , 13, 2527	17.4	1
5	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170153	24	0
4	Optimizing exciton transport in semiconductors. <i>Light: Science and Applications</i> , 2021 , 10, 229	16.7	
3	Optically Driven Quantum Computing Devices Based on Semiconductor Quantum Dots 2005 , 147-161		
2	Polarized Optical Two-dimensional Fourier Transform Spectroscopy of Semiconductors. <i>Springer Series in Chemical Physics</i> , 2007 , 368-370	0.3	
1	Ultrafast Coherent Interactions in Quantum Wells Studied by Two-Dimensional Fourier Transform Spectroscopy. <i>Springer Series in Chemical Physics</i> , 2009 , 247-249	0.3	