W W Langbein

List of Publications by Year
in descending order

355	11,141	26630	45317
papers	citations	56 h-index	90 g-index

363	363	363	6704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultralong Dephasing Time in InGaAs Quantum Dots. Physical Review Letters, 2001, 87, 157401.	7.8	870
2	Realizing the classical XY Hamiltonian in polaritonÂsimulators. Nature Materials, 2017, 16, 1120-1126.	27.5	228
3	Control of fine-structure splitting and biexciton binding inInxGa1â^'xAsquantum dots by annealing. Physical Review B, 2004, 69, .	3.2	201
4	Rabi oscillations in the excitonic ground-state transition of InGaAs quantum dots. Physical Review B, 2002, 66, .	3.2	199
5	Trion, biexciton, and exciton dynamics in single self-assembled CdSe quantum dots. Physical Review B, 2003, 68, .	3.2	188
6	Radiatively limited dephasing in InAs quantum dots. Physical Review B, 2004, 70, .	3.2	186
7	Light Trapped in a Photonic Dot:â€‰Microspheres Act as a Cavity for Quantum Dot Emission. Nano Letters, 2001, 1, 309-314.	9.1	164
8	Spectral hole-burning and carrier-heating dynamics in InGaAs quantum-dot amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 2000, 6, 544-551.	2.9	161
9	Photoluminescence and radiative lifetime of trions in GaAs quantum wells. Physical Review B, 2000, 62, 8232-8239.	3.2	158
10	Ultrafast gain dynamics in InAs-InGaAs quantum-dot amplifiers. IEEE Photonics Technology Letters, 2000, 12, 594-596.	2.5	156
11	Giant exciton oscillator strength and radiatively limited dephasing in two-dimensional platelets. Physical Review B, 2015, 91, .	3.2	143
12	Exciton dephasing via phonon interactions in InAs quantum dots: Dependence on quantum confinement. Physical Review B, 2005, 71, .	3.2	139
13	Up on the Jaynesâ€“Cummings ladder of a quantum-dot/microcavity system. Nature Materials, 2010, 9, 304-308.	27.5	138
14	Radiatively Limited Dephasing and Exciton Dynamics in MoSe₂ Monolayers Revealed with Four-Wave Mixing Microscopy. Nano Letters, 2016, 16, 5333-5339.	9.1	133
15	Nonmonotonous temperature dependence of the initial decoherence in quantum dots. Physical Review B, 2004, 70, .	3.2	128
16	Time-Resolved Speckle Analysis: A New Approach to Coherence and Dephasing of Optical Excitations in Solids. Physical Review Letters, 1999, 82, 1040-1043.	7.8	123
17	Brillouin-Wigner perturbation theory in open electromagnetic systems. Europhysics Letters, 2010, 92, 50010.	2.0	123
18	No exceptional precision of exceptional-point sensors. Physical Review A, 2018, 98, .	2.5	123

#	Article	IF	Citations
19	Dispersion of the second-order nonlinear susceptibility in ZnTe, ZnSe, and ZnS. Physical Review B, 1998, 58, 10494-10501.	3.2	120
20	Dephasing in InAs/GaAs quantum dots. Physical Review B, 1999, 60, 7784-7787.	3.2	117
21	Excitons, biexcitons, and phonons in ultrathin CdSe/ZnSe quantum structures. Physical Review B, 1999, 60, 8773-8782.	3.2	115
22	Direct observation of free-exciton thermalization in quantum-well structures. Physical Review B, 1998, 57, 1390-1393.	3.2	114
23	Resonant-state expansion applied to three-dimensional open optical systems. Physical Review A, 2014, 90, .	2.5	113
24	Coherent anti-Stokes Raman microspectroscopy using spectral focusing with glass dispersion. Applied Physics Letters, 2008, 93, .	3.3	112
25	Exact mode volume and Purcell factor of open optical systems. Physical Review B, 2016, 94, .	3.2	105
26	Exciton Dephasing in Quantum Dot Molecules. Physical Review Letters, 2003, 91, 267401.	7.8	100
27	Homogeneous linewidth of confined electron-hole-pair states in II-VI quantum dots. Physical Review B, 1993, 47, 3684-3689.	3.2	98
28	Quantum Complementarity of Microcavity Polaritons. Physical Review Letters, 2005, 94, .	7.8	94
29	Exciton relaxation and dephasing in quantum-dot amplifiers from room to cryogenic temperature. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 984-991.	2.9	93
30	Nonlinear vibrational microscopy applied to lipid biology. Progress in Lipid Research, 2013, 52, 615-632.	11.6	93
31	Optimizing the Drude-Lorentz model for material permittivity: Method, program, and examples for gold, silver, and copper. Physical Review B, 2017, 95, .	3.2	92
32	Quantitative Chemical Imaging and Unsupervised Analysis Using Hyperspectral Coherent Anti-Stokes Raman Scattering Microscopy. Analytical Chemistry, 2013, 85, 10820-10828.	6.5	87
33	Time-resolved optical characterization of InAs/InGaAs quantum dots emitting at 1.3 Î¼m. Applied Physics Letters, 2000, 76, 3430-3432.	3.3	85
34	Exciton localization and interface roughness in growth-interrupted GaAs/AlAs quantum wells. Physical Review B, 2000, 61, 10322-10329.	3.2	82
35	Optical anisotropy in vertically coupled quantum dots. Physical Review B, 1999, 60, 16680-16685.	3.2	80
36	Coherent coupling between distant excitons revealed by two-dimensional nonlinear hyperspectral imaging. Nature Photonics, 2011, 5, 57-63.	31.4	78

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37	Excited-state gain dynamics in InGaAs quantum-dot amplifiers. IEEE Photonics Technology Letters, 2005, 17, 2014-2016.	2.5	76
38	Binding-energy distribution and dephasing of localized biexcitons. Physical Review B, 1997, 55, R7383-R7386.	3.2	75
39	Phonon interaction of single excitons and biexcitons. Physical Review B, 1999, 60, R2157-R2160.	3.2	75
40	Ultrafast carrier dynamics in InGaAs quantum dot materials and devices. Journal of Optics, 2006, 8, S33-S46.	1.5	75
41	Linewidth enhancement factor in InGaAs quantum-dot amplifiers. IEEE Journal of Quantum Electronics, 2004, 40, 1423-1429.	1.9	73
42	From Dark to Bright: First-Order Perturbation Theory with Analytical Mode Normalization for Plasmonic Nanoantenna Arrays Applied to Refractive Index Sensing. Physical Review Letters, 2016, 116, 237401.	7.8	73
43	Coherent Control and Polarization Readout of Individual Excitonic States. Physical Review Letters, 2005, 95, 266401.	7.8	71
44	Dephasing in the quasi-two-dimensional exciton-biexciton system. Physical Review B, 2000, 61, 1692-1695.	3.2	70
45	Ultrafast carrier dynamics and dephasing in InAs quantum-dot amplifiers emitting near 1.3-Î¼m-wavelength at room temperature. Applied Physics Letters, 2001, 79, 2633-2635.	3.3	69
46	Measurement of the dynamics of plasmons inside individual gold nanoparticles using a femtosecond phase-resolved microscope. Physical Review B, 2012, 85, .	3.2	69
47	Well-width dependence of exciton-phonon scattering inInxGa1âˆ'xAs/GaAssingle quantum wells. Physical Review B, 1999, 59, 2215-2222.	3.2	66
48	Heterodyne pump-probe and four-wave mixing in semiconductor optical amplifiers using balanced lock-in detection. Optics Communications, 1999, 169, 317-324.	2.1	66
49	Luminescence spectra and kinetics of disordered solid solutions. Physical Review B, 1999, 59, 12947-12972.	3.2	65
50	Elastic Scattering Dynamics of Cavity Polaritons: Evidence for Time-Energy Uncertainty and Polariton Localization. Physical Review Letters, 2002, 88, 047401.	7.8	65
51	Polarization beats in ballistic propagation of exciton-polaritons in microcavities. Physical Review B, 2007, 75, .	3.2	64
52	Heterodyne spectral interferometry for multidimensional nonlinear spectroscopy of individual quantum systems. Optics Letters, 2006, 31, 1151.	3.3	63
53	Quantitative imaging of lipids in live mouse oocytes and early embryos using CARS microscopy. Development (Cambridge), 2016, 143, 2238-47.	2.5	61
54	Spontaneous parametric scattering of microcavity polaritons in momentum space. Physical Review B, 2004, 70, .	3.2	60

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55	Long Exciton Dephasing Time and Coherent Phonon Coupling in CsPbBr₂Cl Perovskite Nanocrystals. Nano Letters, 2018, 18, 7546-7551.	9.1	60
56	Simultaneous hyperspectral differential-CARS, TPF and SHG microscopy with a single 5 fs Ti:Sa laser. Optics Express, 2013, 21, 7096.	3.4	58
57	Resonant-state expansion of dispersive open optical systems: Creating gold from sand. Physical Review B, 2016, 93, .	3.2	57
58	Resonant state expansion applied to two-dimensional open optical systems. Physical Review A, 2013, 87, .	2.5	56
59	Coherent anti-Stokes Raman scattering microscopy of single nanodiamonds. Nature Nanotechnology, 2014, 9, 940-946.	31.5	56
60	Coherent antiâ€Stokes Raman microâ€spectroscopy using spectral focusing: theory and experiment. Journal of Raman Spectroscopy, 2009, 40, 800-808.	2.5	55
61	Coherent and Incoherent Exciton Dynamics in Al_{1â^'y}Ga_yAs/GaAs Multiple Quantum Wells. Physica Status Solidi (B): Basic Research, 1992, 173, 53-68.	1.5	52
62	Stimulated Secondary Emission from Semiconductor Microcavities. Physical Review Letters, 2001, 86, 5791-5794.	7.8	52
63	Realistic heterointerface model for excitonic states in growth-interrupted GaAs quantum wells. Physical Review B, 2006, 74, .	3.2	50
64	Differential coherent anti-Stokes Raman scattering microscopy with linearly chirped femtosecond laser pulses. Optics Letters, 2009, 34, 2258.	3.3	49
65	Microcavity controlled coupling of excitonic qubits. Nature Communications, 2013, 4, 1747.	12.8	49
66	Localization-enhanced biexciton binding in semiconductors. Physical Review B, 1999, 59, 15405-15408.	3.2	48
67	Spin-Flip Limited Exciton Dephasing in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>CdSe</mml:mi><mml:mo>/</mml:mo><mml:mi>ZnS</mml:mi></mml:math>Colloidal Quantum Dots. Physical Review Letters, 2012, 108, 087401.	7.8	48
68	Mixed biexcitons in single quantum wells. Physical Review B, 1999, 59, 4584-4587.	3.2	47
69	Hyperspectral and differential CARS microscopy for quantitative chemical imaging in human adipocytes. Biomedical Optics Express, 2014, 5, 1378.	2.9	47
70	Optimization of the confinement energy of quantum-wire states in T-shaped GaAs/AlxGa1â^'xAs structures. Physical Review B, 1996, 54, 14595-14603.	3.2	46
71	Quantum kinetic excitonâ€“LO-phonon interaction in CdSe. Physical Review B, 2000, 61, 1935-1940.	3.2	46
72	Relaxation and Dephasing of Multiexcitons in Semiconductor Quantum Dots. Physical Review Letters, 2002, 89, 187401.	7.8	46

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73	Single source coherent anti-Stokes Raman microspectroscopy using spectral focusing. Applied Physics Letters, 2009, 95, 081109.	3.3	46
74	Measurement and calculation of the critical pulsewidth for gain saturation in semiconductor optical amplifiers. Optics Communications, 1999, 164, 51-55.	2.1	45
75	Spectral signatures of Ï‡^(5) processes in four-wave mixing of homogeneously broadened excitons. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1318.	2.1	44
76	Resonant Rayleigh Scattering of Exciton-Polaritons in Multiple Quantum Wells. Physical Review Letters, 2000, 85, 650-653.	7.8	43
77	Time-resolved four-wave mixing in InAs/InGaAs quantum-dot amplifiers under electrical injection. Applied Physics Letters, 2000, 76, 1380-1382.	3.3	43
78	Optical analogue of the spin Hall effect in a photonic cavity. Optics Letters, 2011, 36, 1095.	3.3	43
79	A monolithic optical sensor based on whispering-gallery modes in polystyrene microspheres. Applied Physics Letters, 2008, 93, .	3.3	42
80	Resonant four-wave mixing of gold nanoparticles for three-dimensional cell microscopy. Optics Letters, 2009, 34, 1816.	3.3	41
81	Electron microscopic and optical investigations of the indium distribution in GaAs capped InxGa1â^'xAs islands. Applied Physics Letters, 1997, 71, 377-379.	3.3	40
82	Interaction-induced effects in the nonlinear coherent response of quantum-well excitons. Physical Review B, 1999, 60, 4454-4457.	3.2	40
83	Optical properties of InAlGaAs quantum wells: Influence of segregation and band bowing. Journal of Applied Physics, 1999, 86, 2584-2589.	2.5	40
84	Optical resonances in microcylinders: response to perturbations for biosensing. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1312.	2.1	40
85	Engineering the Spinâ€“Flip Limited Exciton Dephasing in Colloidal CdSe/CdS Quantum Dots. ACS Nano, 2012, 6, 5227-5233.	14.6	40
86	Analytical normalization of resonant states in photonic crystal slabs and periodic arrays of nanoantennas at oblique incidence. Physical Review B, 2017, 96, .	3.2	40
87	Nonlinear-optical properties of semiconductor quantum dots and their correlation with the precipitation stage. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 1947.	2.1	39
88	Binding energy and dephasing of biexcitons inIn0.18Ga0.82As/GaAssingle quantum wells. Physical Review B, 1999, 60, 4505-4508.	3.2	39
89	Time- and spectrally-resolved four-wave mixing in singleCdTeâ•ZnTequantum dots. Physical Review B, 2006, 73, .	3.2	39
90	Quantitative Spatiotemporal Chemical Profiling of Individual Lipid Droplets by Hyperspectral CARS Microscopy in Living Human Adipose-Derived Stem Cells. Analytical Chemistry, 2016, 88, 3677-3685.	6.5	39

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91	Impact of environment on dynamics of exciton complexes in a WS ₂ monolayer. 2D Materials, 2018, 5, 031007.	4.4	39
92	Interaction and dephasing of center-of-mass quantized excitons in wideZnSe/Zn0.94Mg0.06Sequantum wells. Physical Review B, 1998, 57, 1791-1796.	3.2	38
93	Many-body effects and carrier dynamics in CdSe/CdS Stark superlattices. Physical Review B, 1995, 51, 9922-9929.	3.2	37
94	Hyperspectral image analysis for CARS, SRS, and Raman data. Journal of Raman Spectroscopy, 2015, 46, 727-734.	2.5	37
95	Microscopic Measurement of Photon Echo Formation in Groups of Individual Excitonic Transitions. Physical Review Letters, 2005, 95, 017403.	7.8	36
96	Linear Wave Dynamics Explains Observations Attributed to Dark Solitons in a Polariton Quantum Fluid. Physical Review Letters, 2014, 113, 103901.	7.8	36
97	Impact of Phonons on Dephasing of Individual Excitons in Deterministic Quantum Dot Microlenses. ACS Photonics, 2016, 3, 2461-2466.	6.6	35
98	Huge binding energy of localized biexcitons in CdS/ZnS quantum structures. Physical Review B, 2000, 61, 12632-12635.	3.2	34
99	Biexcitons or bipolaritons in a semiconductor microcavity. Physical Review B, 2000, 62, R7763-R7766.	3.2	34
100	Self-induced transparency in InGaAs quantum-dot waveguides. Applied Physics Letters, 2003, 83, 3668-3670.	3.3	34
101	Four-wave mixing dynamics of excitons in InGaAs self-assembled quantum dots. Journal of Physics Condensed Matter, 2007, 19, 295201.	1.8	34
102	Resonant-state expansion applied to planar waveguides. Physical Review A, 2014, 89, .	2.5	34
103	Dynamics of excitons in individual InAs quantum dots revealed in four-wave mixing spectroscopy. Optica, 2016, 3, 377.	9.3	34
104	Multi-wave coherent control of a solid-state single emitter. Nature Photonics, 2016, 10, 155-158.	31.4	34
105	Lipid Bilayer Thickness Measured by Quantitative DIC Reveals Phase Transitions and Effects of Substrate Hydrophilicity. Langmuir, 2019, 35, 13805-13814.	3.5	34
106	Trions in GaAs Quantum Wells: Photoluminescence Lineshape Analysis. Physica Status Solidi A, 2000, 178, 489-494.	1.7	33
107	Ultranarrow polaritons in a semiconductor microcavity. Applied Physics Letters, 2000, 76, 3262-3264.	3.3	33
108	Measurement of pulse amplitude and phase distortion in a semiconductor optical amplifier: from pulse compression to breakup. IEEE Photonics Technology Letters, 2000, 12, 1674-1676.	2.5	33

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109	Ultrafast gain dynamics in 1.3Î¼m InAsâ•GaAs quantum-dot optical amplifiers: The effect of p doping. Applied Physics Letters, 2007, 90, 201103.	3.3	33
110	Measuring the Lamellarity of Giant Lipid Vesicles with Differential Interference Contrast Microscopy. Biophysical Journal, 2013, 105, 1414-1420.	0.5	33
111	Asymmetric GaAs/AlGaAs T wires with large confinement energies. Applied Physics Letters, 1996, 69, 3248-3250.	3.3	32
112	Temperature-dependent line widths of single excitons and biexcitons. Journal of Luminescence, 2000, 87-89, 381-383.	3.1	32
113	Structural and electrooptical characteristics of quantum dots emitting at 1.3 Î¼m on gallium arsenide. IEEE Journal of Quantum Electronics, 2001, 37, 1050-1058.	1.9	31
114	Polariton condensation in a strain-compensated planar microcavity with InGaAs quantum wells. Applied Physics Letters, 2014, 105, .	3.3	31
115	Coherent optical nonlinearities and phase relaxation of quasi-three-dimensional and quasi-two-dimensional excitons inZnSxSe1â^'x/ZnSestructures. Physical Review B, 1997, 56, 12581-12588.	3.2	30
116	Confined biexcitons in CuBr quantum dots. Journal of Luminescence, 1994, 59, 135-145.	3.1	29
117	Spectral Hole-Burning and Carrier-Heating Dynamics in Quantum-Dot Amplifiers: Comparison with Bulk Amplifiers. Physica Status Solidi (B): Basic Research, 2001, 224, 419-423.	1.5	29
118	Resonant-state expansion applied to planar open optical systems. Physical Review A, 2012, 85, .	2.5	28
119	Transient four-wave mixing in T-shaped GaAs quantum wires. Physical Review B, 1999, 60, 16667-16674.	3.2	27
120	Stimulated emission of IIâ€“VI epitaxial layers. Journal of Crystal Growth, 1994, 138, 786-790.	1.5	26
121	Enhanced Resonant Backscattering of Excitons in Disordered Quantum Wells. Physical Review Letters, 2002, 89, 157401.	7.8	26
122	99% beta factor and directional coupling of quantum dots to fast light in photonic crystal waveguides determined by spectral imaging. Physical Review B, 2019, 100, .	3.2	26
123	Coherence and Density Dynamics of Excitons in a Single-Layer MoS₂ Reaching the Homogeneous Limit. ACS Nano, 2019, 13, 3500-3511.	14.6	26
124	Exciton dephasing in ZnSe quantum wires. Physical Review B, 1998, 57, 1797-1800.	3.2	25
125	Exciton dephasing and biexciton binding in CdSe/ZnSe islands. Physical Review B, 1999, 60, 10640-10643.	3.2	25
126	Effect of a dielectric substrate on whispering-gallery-mode sensors. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2361.	2.1	25

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127	Label-Free Volumetric Quantitative Imaging of the Human Somatic Cell Division by Hyperspectral Coherent Anti-Stokes Raman Scattering. Analytical Chemistry, 2019, 91, 2813-2821.	6.5	25
128	Direct evidence of reduced dynamic scattering in the lower polariton of a semiconductor microcavity. Physical Review B, 2000, 61, R13377-R13380.	3.2	24
129	High Q optical resonances of polystyrene microspheres in water controlled by optical tweezers. Applied Physics Letters, 2007, 91, 141116.	3.3	24
130	Transient coherent nonlinear spectroscopy of single quantum dots. Journal of Physics Condensed Matter, 2007, 19, 295203.	1.8	24
131	Picosecond luminescence dynamics in CdS/CdSe Stark superlattices. Applied Physics Letters, 1994, 65, 2466-2468.	3.3	23
132	Exciton localisation in CdSe islands buried in a quantum well of Zn1â^'xCdxSe. Journal of Crystal Growth, 1998, 184-185, 306-310.	1.5	23
133	Separation of coherent and incoherent nonlinearities in a heterodyne pump-probe experiment. Optics Express, 2000, 7, 107.	3.4	23
134	Polarization-resolved extinction and scattering cross-sections of individual gold nanoparticles measured by wide-field microscopy on a large ensemble. Applied Physics Letters, 2013, 102, 131107.	3.3	23
135	Resonant-state expansion of three-dimensional open optical systems: Light scattering. Physical Review A, 2018, 98, .	2.5	23
136	Use of Two-Photon Lithography with a Negative Resist and Processing to Realise Cylindrical Magnetic Nanowires. Nanomaterials, 2020, 10, 429.	4.1	22
137	Linewidth Statistics of Single InGaAs Quantum Dot Photoluminescence Lines. Physica Status Solidi (B): Basic Research, 2000, 221, 49-53.	1.5	21
138	Theory of propagation and scattering of excitonâ€“polaritons in quantum wells. Solid State Communications, 2001, 120, 259-263.	1.9	21
139	Radiative corrections to the excitonic molecule state in GaAs microcavities. Physical Review B, 2004, 69, .	3.2	21
140	Exciton dephasing in lead sulfide quantum dots by<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>X</mml:mi></mml:mrow></mml:math>-point phonons. Physical Review B, 2011, 83, .	3.2	21
141	Hyperspectral analysis applied to micro-Brillouin maps of amyloid-beta plaques in Alzheimer's disease brains. Analyst, The, 2018, 143, 6095-6102.	3.5	21
142	Spectral speckle analysis of resonant secondary emission from solids. Physical Review B, 2002, 66, .	3.2	20
143	Chemicallyâ€specific dual/differential CARS microâ€spectroscopy of saturated and unsaturated lipid droplets. Journal of Biophotonics, 2014, 7, 68-76.	2.3	20
144	Hyperspectral volumetric coherent antiâ€Stokes Raman scattering microscopy: quantitative volume determination and NaCl as nonâ€resonant standard. Journal of Raman Spectroscopy, 2016, 47, 1167-1173.	2.5	20

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145	Bessel-Beam Hyperspectral CARS Microscopy with Sparse Sampling: Enabling High-Content High-Throughput Label-Free Quantitative Chemical Imaging. Analytical Chemistry, 2018, 90, 3775-3785.	6.5	20
146	Resonant-state expansion applied to three-dimensional open optical systems: Complete set of static modes. Physical Review A, 2019, 100, .	2.5	20
147	Thermalization of free excitons in ZnSe quantum wells. Journal of Crystal Growth, 1998, 184-185, 795-800.	1.5	19
148	Enhancement of exchange interaction in ultrathin CdS/ZnS quantum structures. Solid State Communications, 1998, 106, 653-657.	1.9	19
149	Microcavity polariton linewidths in the weak-disorder regime. Physical Review B, 2000, 63, .	3.2	19
150	Homogeneous linewidth of self-assembled IIIâ€“V quantum dots observed in single-dot photoluminescence. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 1-6.	2.7	19
151	Resonant-state expansion of light propagation in nonuniform waveguides. Physical Review A, 2017, 95, .	2.5	19
152	Quantitative Label-Free Imaging of Lipid Domains in Single Bilayers by Hyperspectral Coherent Raman Scattering. Analytical Chemistry, 2020, 92, 14657-14666.	6.5	19
153	Ultrafast absorption recovery dynamics of 1300 nm quantum dot saturable absorber mirrors. Applied Physics Letters, 2009, 95, 041101.	3.3	18
154	Comment on â€œNormalization of quasinormal modes in leaky optical cavities and plasmonic resonatorsâ€• Physical Review A, 2017, 96, .	2.5	18
155	Fine Structure of Nearly Isotropic Bright Excitons in InP/ZnSe Colloidal Quantum Dots. Journal of Physical Chemistry Letters, 2019, 10, 5468-5475.	4.6	18
156	Quantitative Measurement of the Optical Cross Sections of Single Nano-objects by Correlative Transmission and Scattering Microspectroscopy. ACS Photonics, 2019, 6, 2149-2160.	6.6	18
157	Localized Biexcitons in Quasi-2D and Quasi-3D Systems. Physica Status Solidi (B): Basic Research, 1998, 206, 111-118.	1.5	17
158	Resonant Rayleigh scattering dynamics of excitons in single quantum wells. Physical Review B, 2003, 68, .	3.2	17
159	Role of interband and photoinduced absorption in the nonlinear refraction and absorption of resonantly excited PbS quantum dots around 1550 nm. Physical Review B, 2012, 85, .	3.2	17
160	Polarization-resolved ultrafast dynamics of the complex polarizability in single gold nanoparticles. Physical Chemistry Chemical Physics, 2013, 15, 4226.	2.8	17
161	Binding of biexcitons in GaAs/AlxGa1â^'xAs superlattices. Physical Review B, 1997, 55, 5284-5289.	3.2	16
162	Room-Temperature Near-Field Reflection Spectroscopy of Single Quantum Wells. Physica Status Solidi A, 1997, 164, 541-546.	1.7	16

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163	Electron and Hole Trions in Wide GaAs Quantum Wells. Physica Status Solidi (B): Basic Research, 2000, 221, 281-286.	1.5	16
164	Vectorial nonlinear coherent response of a strongly confined excitonâ€“biexciton system. New Journal of Physics, 2013, 15, 055006.	2.9	16
165	Coherent coupling of individual quantum dots measured with phase-referenced two-dimensional spectroscopy: Photon echo versus double quantum coherence. Physical Review B, 2017, 96, .	3.2	16
166	Resonantly excited exciton dynamics in two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub></m monolayers. Physical Review B, 2017, 96, .	3.2	16
167	Geometric frustration in polygons of polariton condensates creating vortices of varying topological charge. Nature Communications, 2021, 12, 2120.	12.8	16
168	Microwave-optical coupling via Rydberg excitons in cuprous oxide. Physical Review Research, 2022, 4, .	3.6	16
169	Negative-differential band-gap renormalization in type-II GaAs/AlAs superlattices. Physical Review B, 1995, 51, 1946-1949.	3.2	15
170	Exchange Interaction in IIâ€“VI Quantum Dots and Wells. Physica Status Solidi A, 1997, 164, 505-510.	1.7	15
171	Spin Relaxation without Coherence Loss: Fine-Structure Splitting of Localized Excitons. Physica Status Solidi (B): Basic Research, 2000, 221, 349-353.	1.5	15
172	Exciton states in self-assembled InAs/GaAs quantum dot molecules. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 249-260.	2.7	15
173	Refractive Index Dynamics and Linewidth Enhancement Factor in p-Doped InAsâ€“GaAs Quantum-Dot Amplifiers. IEEE Journal of Quantum Electronics, 2009, 45, 579-585.	1.9	15
174	Coherent response of individual weakly confined excitonâ€“biexciton systems. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1766.	2.1	15
175	Structure and zero-dimensional polariton spectrum of natural defects in GaAs/AlAs microcavities. Physical Review B, 2012, 86, .	3.2	15
176	Rydberg excitons in synthetic cuprous oxide <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml: mathvariant="normal">O</mml:mi></mml:math>. Physical Review Materials, 2021, 5, .	2.4	15
177	Narrow-band spectral hole burning in quantum dots. Journal of Luminescence, 1994, 60-61, 302-307.	3.1	14
178	Influence of the interface corrugation on the subband dispersions and the optical properties of (113)-oriented GaAs/AlAs superlattices. Physical Review B, 1996, 54, 10784-10799.	3.2	14
179	Coherent dynamics of bipolaritons in bulk CdS. Physical Review B, 2001, 64, .	3.2	14
180	Biexcitons in semiconductor microcavities. Semiconductor Science and Technology, 2003, 18, S351-S360.	2.0	14

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