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	Biofunctionalisation of gallium arsenide with neutravidin. Journal of Colloid and Interface Science, 2022, 608, 2399-2406.	9.4	3
2	Microwave-optical coupling via Rydberg excitons in cuprous oxide. Physical Review Research, 2022, 4, .	3.6	16
3	A primary effect of palmitic acid on mouse oocytes is the disruption of the structure of the endoplasmic reticulum. Reproduction, 2022, 163, 45-56.	2.6	3
4	Brillouinâ€“Raman microspectroscopy for the morpho-mechanical imaging of human lamellar bone. Journal of the Royal Society Interface, 2022, 19, 20210642.	3.4	8
5	Sizing individual dielectric nanoparticles with quantitative differential interference contrast microscopy. Analyst, The, 2022, 147, 1567-1580.	3.5	6
6	High-resolution nanosecond spectroscopy of even-parity Rydberg excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mathvariant="normal">O</mml:mi></mml:mrow></mml:math>. Physical Review B, 2022, 105, .	3.2	7
7	Enhanced light collection from a gallium nitride color center using a near index-matched solid immersion lens. Applied Physics Letters, 2022, 120, .	3.3	9
8	Optical resonances in graded index spheres: A resonant-state-expansion study and analytic approximations. Physical Review A, 2022, 105, .	2.5	3
9	Quantum Mollow Quadruplet in Nonlinear Cavity QED. Physical Review Letters, 2022, 128, 123602.	7.8	2
10	Asymmetric dual Bloch point domain walls in cylindrical magnetic nanowires. APL Materials, 2022, 10, 071105.	5.1	2
11	Quantitative morphometric analysis of single gold nanoparticles by optical extinction microscopy: Material permittivity and surface damping effects. Journal of Chemical Physics, 2021, 154, 044702.	3.0	2
12	Geometric frustration in polygons of polariton condensates creating vortices of varying topological charge. Nature Communications, 2021, 12, 2120.	12.8	16
13	Roadmap on bio-nano-photonics. Journal of Optics (United Kingdom), 2021, 23, 073001.	2.2	4
14	Quantification of the nonlinear susceptibility of the hydrogen and deuterium stretch vibration for biomolecules in coherent Raman microâ€spectroscopy. Journal of Raman Spectroscopy, 2021, 52, 1540-1551.	2.5	4
15	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
16	Identifying subpopulations in multicellular systems by quantitative chemical imaging using label-free hyperspectral CARS microscopy. Analyst, The, 2021, 146, 2277-2291.	3.5	8
17	Influence of disorder on a Bragg microcavity. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 139.	2.1	3
18	Hyperspectral CARS microscopy and quantitative unsupervised analysis of deuterated and non-deuterated fatty acid storage in human cells. Journal of Chemical Physics, 2021, 155, 224202.	3.0	3

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19	Background-free 3D four-wave mixing microscopy of single gold nanoparticles inside biological systems. , 2021, , .		0
20	Quantitative Label-Free Imaging of Lipid Domains in Single Bilayers by Hyperspectral Coherent Raman Scattering. Analytical Chemistry, 2020, 92, 14657-14666.	6.5	19
21	Functional imaging of a model unicell: Spironucleus vortens as an anaerobic but aerotolerant flagellated protist. Advances in Microbial Physiology, 2020, 76, 41-79.	2.4	3
22	The optical nanosizer â€“ quantitative size and shape analysis of individual nanoparticles by high-throughput widefield extinction microscopy. Nanoscale, 2020, 12, 16215-16228.	5.6	13
23	Use of Two-Photon Lithography with a Negative Resist and Processing to Realise Cylindrical Magnetic Nanowires. Nanomaterials, 2020, 10, 429.	4.1	22
24	Quantitative Imaging of B1 Cyclin Expression Across the Cell Cycle Using Green Fluorescent Protein Tagging and Epifluorescence. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2020, 97, 1066-1072.	1.5	5
25	Quantitative optical microspectroscopy, electron microscopy, and modelling of individual silver nanocubes reveal surface compositional changes at the nanoscale. Nanoscale Advances, 2020, 2, 2485-2496.	4.6	5
26	Applying the resonant-state expansion to realistic materials with frequency dispersion. Physical Review B, 2020, 101, .	3.2	8
27	Four-wave-mixing microscopy reveals non-colocalisation between gold nanoparticles and fluorophore conjugates inside cells. Nanoscale, 2020, 12, 4622-4635.	5.6	10
28	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
29	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
30	Comment on â€œObservation of Fourier transform limited lines in hexagonal boron nitrideâ€• Physical Review B, 2019, 100, .	3.2	1
31	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
32	Lipid Bilayer Thickness Measured by Quantitative DIC Reveals Phase Transitions and Effects of Substrate Hydrophilicity. Langmuir, 2019, 35, 13805-13814.	3.5	34
33	Dynamic label-free imaging of lipid droplets and their link to fatty acid and pyruvate oxidation in mouse eggs. Journal of Cell Science, 2019, 132, .	2.0	12
34	Coherence and Density Dynamics of Excitons in a Single-Layer MoS₂ Reaching the Homogeneous Limit. ACS Nano, 2019, 13, 3500-3511.	14.6	26
35	Optical Control of Coupling in Phase-Locked Polariton Dyads. , 2019, , .		0
36	Resonant-state expansion applied to three-dimensional open optical systems: Complete set of static modes. Physical Review A, 2019, 100, .	2.5	20

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37	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
38	Label-free volumetric quantitative imaging of human osteosarcoma cells by hyperspectral coherent anti-Stokes Raman scattering. , 2019, , .		0
39	Propagation loss in photonic crystal waveguides embedding InAs/GaAs quantum dots determined by direct spectral imaging. , 2019, , .		0
40	Imaging lipids in living mammalian oocytes and early embryos by coherent Raman scattering microscopy. , 2019, , .		1
41	Measuring sub-nanometre thickness changes during phase transitions of supported lipid bilayers with quantitative differential interference contrast microscopy. , 2019, , .		0
42	Imaging and tracking single plasmonic nanoparticles in 3D background-free with four-wave mixing interferometry. , 2019, , .		1
43	Heterodyne dual-polarization epi-detected CARS microscopy for chemical and topographic imaging of interfaces. , 2019, , .		0
44	Quantitative high-throughput optical sizing of individual colloidal nanoparticles by wide-field imaging extinction microscopy. , 2019, , .		1
45	Optimisation of multimodal coherent anti-Stokes Raman scattering microscopy for the detection of isotope-labelled molecules. , 2019, , .		0
46	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
47	Impact of environment on dynamics of exciton complexes in a WS ₂ monolayer. 2D Materials, 2018, 5, 031007.	4.4	39
48	Labelâ€free quantitative chemical imaging and classification analysis of adipogenesis using mouse embryonic stem cells. Journal of Biophotonics, 2018, 11, e201700219.	2.3	6
49	Wide-Field Imaging of Single-Nanoparticle Extinction with Sub- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>nm</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></ Sensitivity. Physical Review Applied, 2018, 9, .	3.8	8
50	Coherent Raman Scattering Microscopy: Technology Developments and Biological Applications. , 2018, , .		1
51	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
52	Long Exciton Dephasing Time and Coherent Phonon Coupling in CsPbBr₂Cl Perovskite Nanocrystals. Nano Letters, 2018, 18, 7546-7551.	9.1	60
53	Resonant-state expansion of three-dimensional open optical systems: Light scattering. Physical Review A, 2018, 98, .	2.5	23
54	Invited Article: Heterodyne dual-polarization epi-detected CARS microscopy for chemical and topographic imaging of interfaces. APL Photonics, 2018, 3, 092402.	5.7	8

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55	No exceptional precision of exceptional-point sensors. Physical Review A, 2018, 98, .	2.5	123
56	Population dynamics and dephasing of excitons and electron-hole pairs in polytype wurtzite/zinc-blende InP nanowires. Physical Review B, 2017, 95, .	3.2	6
57	Background-Free 3D Nanometric Localization and Sub-nm Asymmetry Detection of Single Plasmonic Nanoparticles by Four-Wave Mixing Interferometry with Optical Vortices. Physical Review X, 2017, 7, .	8.9	11
58	Emission dynamics of hybrid plasmonic gold/organic GaN nanorods. Nanotechnology, 2017, 28, 505710.	2.6	6
59	Realizing the classical XY Hamiltonian in polaritonÂsimulators. Nature Materials, 2017, 16, 1120-1126.	27.5	228
60	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
61	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
62	Resonant-state expansion of light propagation in nonuniform waveguides. Physical Review A, 2017, 95, .	2.5	19
63	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
64	Comment on â€œNormalization of quasinormal modes in leaky optical cavities and plasmonic resonatorsâ€. Physical Review A, 2017, 96, .	2.5	18
65	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
66	Measure the heisenberg interaction in a polariton dyad. , 2017, , .		0
67	Optimizing the Drude-Lorentz model for material permittivity: Examples for semiconductors. , 2017, , .		1
68	Correlated photons from microcavity polariton parametric scattering. , 2017, , .		0
69	Impact of Phonons on Dephasing of Individual Excitons in Deterministic Quantum Dot Microlenses. ACS Photonics, 2016, 3, 2461-2466.	6.6	35
70	Exact mode volume and Purcell factor of open optical systems. Physical Review B, 2016, 94, .	3.2	105
71	Quantitative imaging of lipids in live mouse oocytes and early embryos using CARS microscopy. Development (Cambridge), 2016, 143, 2238-47.	2.5	61
72	Radiatively Limited Dephasing and Exciton Dynamics in MoSe₂ Monolayers Revealed with Four-Wave Mixing Microscopy. Nano Letters, 2016, 16, 5333-5339.	9.1	133

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73	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
74	Dynamics of excitons in individual InAs quantum dots revealed in four-wave mixing spectroscopy. Optica, 2016, 3, 377.	9.3	34
75	Resonant-state expansion of dispersive open optical systems: Creating gold from sand. Physical Review B, 2016, 93, .	3.2	57
76	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
77	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
78	Multi-wave coherent control of a solid-state single emitter. Nature Photonics, 2016, 10, 155-158.	31.4	34
79	Hyperspectral image analysis for CARS, SRS, and Raman data. Journal of Raman Spectroscopy, 2015, 46, 727-734.	2.5	37
80	Giant exciton oscillator strength and radiatively limited dephasing in two-dimensional platelets. Physical Review B, 2015, 91, .	3.2	143
81	Parametric scattering of microcavity polaritons into ghost branches. Physical Review B, 2015, 92, .	3.2	6
82	CilibrizzietÂal.Reply:. Physical Review Letters, 2015, 115, 089402.	7.8	3
83	Quantum optics, molecular spectroscopy and low-temperature spectroscopy: general discussion. Faraday Discussions, 2015, 184, 275-303.	3.2	13
84	Plasmonics, Tracking and Manipulating, and Living Cells: general discussion. Faraday Discussions, 2015, 184, 451-473.	3.2	9
85	Optical micro-spectroscopy of single metallic nanoparticles: quantitative extinction and transient resonant four-wave mixing. Faraday Discussions, 2015, 184, 305-320.	3.2	11
86	Superresolution techniques, biophysics with nanostructures, and fluorescence energy transfer: general discussion. Faraday Discussions, 2015, 184, 143-162.	3.2	1
87	Polariton condensation in a strain-compensated planar microcavity with InGaAs quantum wells. Applied Physics Letters, 2014, 105, .	3.3	31
88	A study of the formation of dark-solitons in semiconductor microcavities. , 2014, , .		0
89	Hyperspectral and differential CARS microscopy for quantitative chemical imaging in human adipocytes. Biomedical Optics Express, 2014, 5, 1378.	2.9	47
90	Sparse sampling for fast hyperspectral coherent anti-Stokes Raman scattering imaging. Optics Express, 2014, 22, 4021.	3.4	11

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91	Chemicallyâ€specific dual/differential CARS microâ€spectroscopy of saturated and unsaturated lipid droplets. Journal of Biophotonics, 2014, 7, 68-76.	2.3	20
92	Resonant-state expansion applied to planar waveguides. Physical Review A, 2014, 89, .	2.5	34
93	Resonant-state expansion applied to three-dimensional open optical systems. Physical Review A, 2014, 90, .	2.5	113
94	Linear Wave Dynamics Explains Observations Attributed to Dark Solitons in a Polariton Quantum Fluid. Physical Review Letters, 2014, 113, 103901.	7.8	36
95	Coherent anti-Stokes Raman scattering microscopy of single nanodiamonds. Nature Nanotechnology, 2014, 9, 940-946.	31.5	56
96	Measuring the Lamellarity of Giant Lipid Vesicles with Differential Interference Contrast Microscopy. Biophysical Journal, 2013, 105, 1414-1420.	0.5	33
97	Quantitative Chemical Imaging and Unsupervised Analysis Using Hyperspectral Coherent Anti-Stokes Raman Scattering Microscopy. Analytical Chemistry, 2013, 85, 10820-10828.	6.5	87
98	Nonlinear vibrational microscopy applied to lipid biology. Progress in Lipid Research, 2013, 52, 615-632.	11.6	93
99	Polarization-resolved ultrafast dynamics of the complex polarizability in single gold nanoparticles. Physical Chemistry Chemical Physics, 2013, 15, 4226.	2.8	17
100	Resonant state expansion applied to two-dimensional open optical systems. Physical Review A, 2013, 87, .	2.5	56
101	Effects of uniaxial pressure on polar whispering gallery modes in microspheres. Journal of Applied Physics, 2013, 113, .	2.5	12
102	Microcavity controlled coupling of excitonic qubits. Nature Communications, 2013, 4, 1747.	12.8	49
103	Quadruplex CARS microâ€spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 255-261.	2.5	7
104	Vectorial nonlinear coherent response of a strongly confined excitonâ€“biexciton system. New Journal of Physics, 2013, 15, 055006.	2.9	16
105	Dual/differential coherent anti-Stokes Raman scattering module for multiphoton microscopes with a femtosecond Ti:sapphire oscillator. Journal of Biomedical Optics, 2013, 18, 1.	2.6	5
106	Simultaneous hyperspectral differential-CARS, TPF and SHG microscopy with a single 5 fs Ti:Sa laser. Optics Express, 2013, 21, 7096.	3.4	58
107	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
108	Coherence dynamics and quantum-to-classical crossover in an excitonâ€“cavity system in the quantum strong coupling regime. New Journal of Physics, 2013, 15, 045013.	2.9	11

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109	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
110	MasiaetÂal.Reply:. Physical Review Letters, 2012, 109, .	7.8	1
111	Polariton states bound to defects in GaAs/AlAs planar microcavities. Physical Review B, 2012, 85, .	3.2	14
112	Structure and zero-dimensional polariton spectrum of natural defects in GaAs/AlAs microcavities. Physical Review B, 2012, 86, .	3.2	15
113	Suppression of cross-hatched polariton disorder in GaAs/AlAs microcavities by strain compensation. Applied Physics Letters, 2012, 101, 041114.	3.3	12
114	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
115	Live Cell Imaging with Chemical Specificity Using Dual Frequency CARS Microscopy. Methods in Enzymology, 2012, 504, 273-291.	1.0	9
116	Resonant-state expansion applied to planar open optical systems. Physical Review A, 2012, 85, .	2.5	28
117	Measurement of the dynamics of plasmons inside individual gold nanoparticles using a femtosecond phase-resolved microscope. Physical Review B, 2012, 85, .	3.2	69
118	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
119	Engineering the Spinâ€“Flip Limited Exciton Dephasing in Colloidal CdSe/CdS Quantum Dots. ACS Nano, 2012, 6, 5227-5233.	14.6	40
120	Ultrafast conditional carrier dynamics in semiconductor quantum dots. Proceedings of SPIE, 2011, , .	0.8	0
121	Optical analogue of the spin Hall effect in a photonic cavity. Optics Letters, 2011, 36, 1095.	3.3	43
122	Triply surface-plasmon resonant four-wave mixing imaging of gold nanoparticles. Proceedings of SPIE, 2011, , .	0.8	2
123	Coherent coupling between distant excitons revealed by two-dimensional nonlinear hyperspectral imaging. Nature Photonics, 2011, 5, 57-63.	31.4	78
124	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
125	Ultrafast exciton dephasing in PbS colloidal quantum dots. , 2011, , .		0
126	Differential CARS microscopy with linearly chirped femtosecond laser pulses. Proceedings of SPIE, 2011, , .	0.8	0

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127	Exciton-polaritons in Bragg gratings. Journal of Physics: Conference Series, 2010, 210, 012034.	0.4	1
128	Up on the Jaynes-Cummings ladder of an exciton-cavity system. Proceedings of SPIE, 2010, , .	0.8	1
129	Brillouin-Wigner perturbation theory in open electromagnetic systems. Europhysics Letters, 2010, 92, 50010.	2.0	123
130	Up on the Jaynesâ€“Cummings ladder of a quantum-dot/microcavity system. Nature Materials, 2010, 9, 304-308.	27.5	138
131	Measurement of the ultrafast gain recovery in InGaAs/GaAs quantum dots: Beyond a mean-field description. Physical Review B, 2010, 82, .	3.2	7
132	Ultrafast gain dynamics in InP quantum-dot optical amplifiers. Applied Physics Letters, 2010, 97, 211103.	3.3	13
133	Dephasing of excitons and multiexcitons in undoped andp-doped InAs/GaAs quantum dots-in-a-well. Physical Review B, 2010, 82, .	3.2	11
134	Four-wave-mixing imaging and carrier dynamics of PbS colloidal quantum dots. Physical Review B, 2010, 82, .	3.2	13
135	Ultrafast pulse-pair amplification in InGaAs quantum-dot amplifiers. , 2009, , .		0
136	Microcavity polaritonlike dispersion doublet in resonant Bragg gratings. Physical Review B, 2009, 80, .	3.2	14
137	Ultrafast absorption recovery dynamics of 1300 nm quantum dot saturable absorber mirrors. Applied Physics Letters, 2009, 95, 041101.	3.3	18
138	Single source coherent anti-Stokes Raman microspectroscopy using spectral focusing. Applied Physics Letters, 2009, 95, 081109.	3.3	46
139	CARS Microscopy using linearly-chirped ultrafast laser pulses. , 2009, , .		0
140	Four-wave mixing of gold nanoparticles for three-dimensional cell microscopy. , 2009, , .		0
141	CARS microscopy using linearly chirped ultrafast laser pulses. , 2009, , .		0
142	Modelling the response of whispering-gallery-mode optical resonators for biosensing applications. , 2009, , .		0
143	Coherent antiâ€Stokes Raman microâ€spectroscopy using spectral focusing: theory and experiment. Journal of Raman Spectroscopy, 2009, 40, 800-808.	2.5	55
144	Fabrication and optical properties of thin silicaâ€coated CdSe/ZnS quantum dots. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2822-2825.	1.8	3

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145	Fourâ€wave mixing from individual excitons: Intensity dependence and imaging. Physica Status Solidi (B): Basic Research, 2009, 246, 820-823.	1.5	8
146	Novel multi-photon microscopy based on resonant nonlinear optics of colloidal quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 916-919.	0.8	2
147	Resonant four-wave mixing of gold nanoparticles for three-dimensional cell microscopy. Optics Letters, 2009, 34, 1816.	3.3	41
148	Differential coherent anti-Stokes Raman scattering microscopy with linearly chirped femtosecond laser pulses. Optics Letters, 2009, 34, 2258.	3.3	49
149	The role of p-doping in the gain dynamics of InAs/GaAs quantum dots at low temperature. Applied Physics Letters, 2009, 94, 041110.	3.3	11
150	Modelling the response of whispering-gallery-mode optical resonators for biosensing applications. , 2009, , .		0
151	Whispering-gallery modes in dielectric microspheres for biosensing applications. , 2009, , .		0
152	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
153	Multi-photon microscopy based on resonant four-wave mixing of colloidal quantum dots. , 2009, , .		0
154	Gain dynamics in p-doped InGaAs quantum dot amplifiers from room to cryogenic temperatures. , 2009, , .		0
155	Coherent dynamics of one and two-photon states in a strongly coupled single quantum dot-cavity system. , 2009, , .		0
156	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
157	Multiphoton microscopy based on four-wave mixing of colloidal quantum dots. Applied Physics Letters, 2008, 93, 021114.	3.3	11
158	Ultrafast nonlinear spectroscopy of individual quantum dots: imaging and coherent coupling. Proceedings of SPIE, 2008, , .	0.8	0
159	Vectorial four-wave mixing field dynamics from individual excitonic transitions. Physical Review B, 2008, 78, .	3.2	12
160	Coherent anti-Stokes Raman microspectroscopy using spectral focusing with glass dispersion. Applied Physics Letters, 2008, 93, .	3.3	112
161	A monolithic optical sensor based on whispering-gallery modes in polystyrene microspheres. Applied Physics Letters, 2008, 93, .	3.3	42
162	Sensitive optical biosensor based on whispering-gallery modes of dielectric microspheres. , 2007, , .		0

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163	Ultrafast Carrier Dynamics in p-doped InGaAs Quantum Dot Amplifiers. , 2007, , .		0
164	Polarization beats in ballistic propagation of exciton-polaritons in microcavities. Physical Review B, 2007, 75, .	3.2	64
165	High Q optical resonances of polystyrene microspheres in water controlled by optical tweezers. Applied Physics Letters, 2007, 91, 141116.	3.3	24
166	Quantum complementarity of microcavity polaritons. , 2007, , .		0
167	Ultrafast carrier dynamics in p-doped InAs/GaAs quantum-dot amplifiers. IET Optoelectronics, 2007, 1, 298-302.	3.3	9
168	Four-wave mixing dynamics of excitons in InGaAs self-assembled quantum dots. Journal of Physics Condensed Matter, 2007, 19, 295201.	1.8	34
169	Transient coherent nonlinear spectroscopy of single quantum dots. Journal of Physics Condensed Matter, 2007, 19, 295203.	1.8	24
170	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
171	Realistic heterointerface model for excitonic states in growth-interrupted GaAs quantum wells. Physical Review B, 2006, 74, .	3.2	50
172	Ultrafast carrier dynamics in InGaAs quantum dot materials and devices. Journal of Optics, 2006, 8, S33-S46.	1.5	75
173	Time- and spectrally-resolved four-wave mixing in singleCdTeâ•ZnTequantum dots. Physical Review B, 2006, 73, .	3.2	39
174	Heterodyne spectral interferometry for multidimensional nonlinear spectroscopy of individual quantum systems. Optics Letters, 2006, 31, 1151.	3.3	63
175	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
176	Dephasing of excited-state excitons in InGaAs quantum dots. Physica Status Solidi (B): Basic Research, 2006, 243, 3890-3894.	1.5	7
177	All spins under control. Nature Materials, 2006, 5, 519-520.	27.5	2
178	Coherent dynamics in InGaAs quantum dots and quantum dot molecules. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 400-407.	2.7	1
179	Observation of an unusual temperature dependence of the initial decoherence time in quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3167-3170.	0.8	0
180	Polariton correlation in microcavities produced by parametric scattering. Physica Status Solidi (B): Basic Research, 2005, 242, 2260-2270.	1.5	9

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181	Transient four-wave mixing of single exciton states: Exciton-exciton interaction and Rabi oscillations. AIP Conference Proceedings, 2005, , .	0.4	0
182	Microscopic Measurement of Photon Echo Formation in Groups of Individual Excitonic Transitions. Physical Review Letters, 2005, 95, 017403.	7.8	36
183	Phase Coherent Photorefractivity in ZnSe Single Quantum Wells. Physical Review Letters, 2005, 94, 147402.	7.8	6
184	Coherent Control and Polarization Readout of Individual Excitonic States. Physical Review Letters, 2005, 95, 266401.	7.8	71
185	Ultrafast gain recovery dynamics of the excited state in InGaAs quantum dot amplifiers. , 2005, , .		5
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