Kurt Busch

List of Publications by Year
in descending order

282 papers	10,291 citations	43973 48 h-index	37111 96 g-index
311 all docs	311 docs citations	311 times ranked	7375 citing authors

#	Article	IF	Citations
1	Direct laser writing of three-dimensional photonic-crystal templates for telecommunications. Nature Materials, 2004, 3, 444-447.	13.3	1,009
2	Photonic band gap formation in certain self-organizing systems. Physical Review E, 1998, 58, 3896-3908.	0.8	804
3	Liquid-Crystal Photonic-Band-Gap Materials: The Tunable Electromagnetic Vacuum. Physical Review Letters, 1999, 83, 967-970.	2.9	746
4	Periodic nanostructures for photonics. Physics Reports, 2007, 444, 101-202.	10.3	399
5	Tunable two-dimensional photonic crystals using liquid crystal infiltration. Physical Review B, 2000, 61, R2389-R2392.	1.1	350
6	Macroporous silicon with a complete twoâ€dimensional photonic band gap centered at 5 Î¼m. Applied Physics Letters, 1996, 68, 747-749.	1.5	324
7	Silicon-Based Photonic Crystals. Advanced Materials, 2001, 13, 377-388.	11.1	309
8	Threeâ€Dimensional Nanostructures for Photonics. Advanced Functional Materials, 2010, 20, 1038-1052.	7.8	309
9	Three-dimensional face-centered-cubic photonic crystal templates by laser holography: fabrication, optical characterization, and band-structure calculations. Applied Physics Letters, 2003, 82, 1284-1286.	1.5	243
10	Few-Photon Transport in Low-Dimensional Systems: Interaction-Induced Radiation Trapping. Physical Review Letters, 2010, 104, 023602.	2.9	189
11	Theory of fluorescence in photonic crystals. Physical Review A, 2002, 65, .	1.0	178
12	Three-dimensional photonic crystals based on macroporous silicon with modulated pore diameter. Applied Physics Letters, 2001, 78, 1180-1182.	1.5	140
13	Discontinuous Galerkin methods in nanophotonics. Laser and Photonics Reviews, 2011, 5, 773-809.	4.4	137
14	Quantization of Quasinormal Modes for Open Cavities and Plasmonic Cavity Quantum Electrodynamics. Physical Review Letters, 2019, 122, 213901.	2.9	130
15	Photonic bandgap formation and tunability in certain self-organizing systems. Journal of Lightwave Technology, 1999, 17, 1931-1943.	2.7	111
16	Two-dimensional Greenâ€™s function and local density of states in photonic crystals consisting of a finite number of cylinders of infinite length. Physical Review E, 2001, 63, 046612.	0.8	109
17	Second-harmonic generation from split-ring resonators on a GaAs substrate. Optics Letters, 2009, 34, 1997.	1.7	99
18	All-optical switching, bistability, and slow-light transmission in photonic crystal waveguide-resonator structures. Physical Review E, 2006, 74, 046603.	0.8	95

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19	The Wannier function approach to photonic crystal circuits. Journal of Physics Condensed Matter, 2003, 15, R1233-R1256.	0.7	94
20	Few-photon transport in low-dimensional systems. Physical Review A, 2011, 83, .	1.0	90
21	Absolute extinction cross-section of individual magnetic split-ring resonators. Nature Photonics, 2008, 2, 614-617.	15.6	88
22	Transport properties of random arrays of dielectric cylinders. Physical Review B, 1998, 57, 277-288.	1.1	87
23	Fabrication and characterization of silicon woodpile photonic crystals with a complete bandgap at telecom wavelengths. Optics Letters, 2010, 35, 1094.	1.7	80
24	Transport Properties of Random Media: A New Effective Medium Theory. Physical Review Letters, 1995, 75, 3442-3445.	2.9	78
25	Electromagnetic interaction of split-ring resonators: The role of separation and relative orientation. Optics Express, 2010, 18, 6545.	1.7	77
26	Modeling electromagnetic resonators using quasinormal modes. Advances in Optics and Photonics, 2020, 12, 612.	12.1	76
27	Optical nonlinear response of a single nonlinear dielectric layer sandwiched between two linear dielectric structures. Physical Review B, 1997, 56, 15090-15099.	1.1	74
28	Scanning Single Quantum Emitter Fluorescence Lifetime Imaging: Quantitative Analysis of the Local Density of Photonic States. Nano Letters, 2014, 14, 2623-2627.	4.5	74
29	Direct Observation of Non-Markovian Radiation Dynamics in 3D Bulk Photonic Crystals. Physical Review Letters, 2012, 108, 043603.	2.9	72
30	Tunable photonic crystal circuits:â€ƒconcepts and designs based on single-pore infiltration. Optics Letters, 2004, 29, 2858.	1.7	71
31	Three-dimensional photonic crystals by holographic lithography using the umbrella configuration: Symmetries and complete photonic band gaps. Physical Review B, 2004, 70, .	1.1	70
32	Semiclassical theory of lasing in photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2215.	0.9	69
33	Attenuation of optical transmission within the band gap of thin two-dimensional macroporous silicon photonic crystals. Applied Physics Letters, 1999, 75, 3063-3065.	1.5	67
34	Quantitative Experimental Determination of Scattering and Absorption Cross-Section Spectra of Individual Optical Metallic Nanoantennas. Physical Review Letters, 2012, 109, 233902.	2.9	64
35	Titania Woodpiles with Complete Threeâ€Đimensional Photonic Bandgaps in the Visible. Advanced Materials, 2013, 25, 3588-3592.	11.1	60
36	Shrinkage Precompensation of Holographic Three-Dimensional Photonic-Crystal Templates. Advanced Materials, 2006, 18, 2964-2968.	11.1	59

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37	Higher-order time-domain methods for the analysis of nano-photonic systems. Photonics and Nanostructures - Fundamentals and Applications, 2009, 7, 2-11.	1.0	59
38	Efficient low-storage Rungeâ€“Kutta schemes with optimized stability regions. Journal of Computational Physics, 2012, 231, 364-372.	1.9	59
39	Low-loss fiber-to-chip couplers with ultrawide optical bandwidth. APL Photonics, 2019, 4, .	3.0	58
40	A model system for two-dimensional and three-dimensional photonic crystals: macroporous silicon. Journal of Optics, 2001, 3, S121-S132.	1.5	57
41	Multiphoton quantum-state engineering using conditional measurements. Npj Quantum Information, 2019, 5, .	2.8	57
42	Transport properties of random media: An energy-density CPA approach. Physical Review B, 1996, 54, 893-899.	1.1	56
43	Radiating dipoles in photonic crystals. Physical Review E, 2000, 62, 4251-4260.	0.8	55
44	From Isolated Metaatoms to Photonic Metamaterials: Evolution of the Plasmonic Near-Field. Nano Letters, 2013, 13, 703-708.	4.5	53
45	On the applicability of quantum-optical concepts in strong-coupling nanophotonics. Reports on Progress in Physics, 2020, 83, 082401.	8.1	51
46	Transport and scattering mean free paths of classical waves. Physical Review B, 1994, 50, 93-98.	1.1	50
47	Optical transmission through strong scattering and highly polydisperse media. Europhysics Letters, 1999, 48, 22-28.	0.7	50
48	Photonic band structure computations. Optics Express, 2001, 8, 167.	1.7	50
49	Discontinuous Galerkin time-domain computations of metallic nanostructures. Optics Express, 2009, 17, 14934.	1.7	50
50	Exceptional points of any order in a single, lossy waveguide beam splitter by photon-number-resolved detection. Photonics Research, 2019, 7, 862.	3.4	47
51	Thermal radiation in photonic crystals. Physical Review B, 2007, 75, .	1.1	46
52	Waveguideâ€Integrated Broadband Spectrometer Based on Tailored Disorder. Advanced Optical Materials, 2020, 8, 1901602.	3.6	46
53	Scattering matrix approach to large-scale photonic crystal circuits. Optics Letters, 2003, 28, 619.	1.7	44
54	In Situ Observation of Plasmon Tuning in a Single Gold Nanoparticle during Controlled Melting. Nano Letters, 2013, 13, 2041-2046.	4.5	44

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55	Optical trapping, Field enhancement and Laser cooling in photonic crystals. Optics Express, 2001, 8, 217.	1.7	42
56	Optical characterisation of 2D macroporous silicon photonic crystals with bandgaps around 3.5 and 1.3 Î¼m. Optical Materials, 2001, 17, 7-10.	1.7	42
57	Diffraction properties of two-dimensional photonic crystals. Applied Physics Letters, 2003, 83, 614-616.	1.5	41
58	Justification of the nonlinear SchrÃ¶dinger equation in spatially periodic media. Zeitschrift Fur Angewandte Mathematik Und Physik, 2006, 57, 905-939.	0.7	41
59	Waveguides in three-dimensional photonic-bandgap materials by direct laser writing and silicon double inversion. Optics Letters, 2011, 36, 67.	1.7	41
60	Real-space imaging of nanotip plasmons using electron energy loss spectroscopy. Physical Review B, 2015, 92, .	1.1	40
61	Growth and characterization of SiGeSn quantum well photodiodes. Optics Express, 2015, 23, 25048.	1.7	40
62	Mie excitons: Understanding strong coupling in dielectric nanoparticles. Physical Review B, 2018, 98, .	1.1	40
63	Wannier basis design and optimization of a photonic crystal waveguide crossing. IEEE Photonics Technology Letters, 2005, 17, 1875-1877.	1.3	38
64	Theory of light diffusion in disordered media with linear absorption or gain. Physical Review B, 2005, 71, .	1.1	37
65	Tailored Disorder in Photonics: Learning from Nature. Advanced Optical Materials, 2021, 9, 2100787.	3.6	37
66	Spatio-spectral characterization of photonic meta-atoms with electron energy-loss spectroscopy [Invited]. Optical Materials Express, 2011, 1, 1009.	1.6	36
67	Computing electron energy loss spectra with the Discontinuous Galerkin Time-Domain method. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 367-373.	1.0	36
68	Simulation of optical resonators using DGTD and FDTD. Journal of Optics, 2009, 11, 114015.	1.5	35
69	The Discontinuous Galerkin Time-Domain method for Maxwellâ€™s equations with anisotropic materials. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 303-309.	1.0	35
70	Endurance of quantum coherence due to particle indistinguishability in noisy quantum networks. Npj Quantum Information, 2018, 4, .	2.8	35
71	Two-dimensional local density of states in two-dimensional photonic crystals. Optics Express, 2001, 8, 191.	1.7	34
72	Two-dimensional Green tensor and local density of states in finite-sized two-dimensional photonic crystals. Waves in Random and Complex Media, 2003, 13, 9-25.	1.5	34

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73	Arbitrary angle waveguiding applications of two-dimensional curvilinear-lattice photonic crystals. Applied Physics Letters, 2004, 84, 4687-4689.	1.5	33
74	Dynamics of photon transport through quantum impurities in dispersion-engineered one-dimensional systems. Journal of Optics, 2009, 11, 114009.	1.5	33
75	Direct Transcription of Twoâ€Dimensional Colloidal Crystal Arrays into Threeâ€Dimensional Photonic Crystals. Advanced Functional Materials, 2013, 23, 1164-1171.	7.8	33
76	Second Harmonic Generation from Metal Nano-Particle Resonators: Numerical Analysis On the Basis of the Hydrodynamic Drude Model. Journal of Physical Chemistry C, 2016, 120, 1163-1169.	1.5	33
77	Failure of Local Thermal Equilibrium in Quantum Friction. Physical Review Letters, 2016, 117, 100402.	2.9	32
78	Comparison of Low-Storage Runge-Kutta Schemes for Discontinuous Galerkin Time-Domain Simulations of Maxwell's Equations. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1572-1580.	0.4	30
79	Generation of adaptive coordinates and their use in the Fourier Modal Method. Optics Express, 2010, 18, 23258.	1.7	30
80	Green's-function formalism for waveguide QED applications. Physical Review A, 2016, 93, .	1.0	30
81	Broadband Spectrometer with Single-Photon Sensitivity Exploiting Tailored Disorder. Nano Letters, 2020, 20, 2625-2631.	4.5	30
82	Limitations of Particle-Based Spasers. Physical Review Letters, 2017, 118, 237402.	2.9	29
83	Plasmonic modes in nanowire dimers: A study based on the hydrodynamic Drude model including nonlocal and nonlinear effects. Physical Review B, 2018, 97, .	1.1	29
84	Photonik: Photonische Kristalle: Mikrostrukturierte FestkÃ¶rper erÃ¶ffnen neue Wege zur Manipulation von Licht. Physik Journal, 1999, 55, 27-33.	0.1	28
85	Electrochemical Modulation of Photonic Metamaterials. Advanced Materials, 2010, 22, 5173-5177.	11.1	28
86	Non-Markovianity in atom-surface dispersion forces. Physical Review A, 2016, 94, .	1.0	28
87	Distance-dependence of the coupling between split-ring resonators and single-quantum-well gain. Applied Physics Letters, 2011, 99, 111104.	1.5	27
88	Compositional dependence of the band-gap of Ge1â^'xâ^'ySixSny alloys. Applied Physics Letters, 2016, 108, .	1.5	27
89	Photonic band structure theory: assessment and perspectives. Comptes Rendus Physique, 2002, 3, 53-66.	0.3	24
90	Spatial dispersion in atom-surface quantum friction. Physical Review B, 2017, 95, .	1.1	24

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91	Transmission of a microcavity structure in a two-dimensional photonic crystal based on macroporous silicon. Materials Science in Semiconductor Processing, 2000, 3, 487-491.	1.9	23
92	Photon transport in one-dimensional systems coupled to three-level quantum impurities. New Journal of Physics, 2013, 15, 083019.	1.2	23
93	Fluorescence in nonlocal dissipative periodic structures. Physical Review A, 2015, 91, .	1.0	23
94	Nonequilibrium thermodynamics of quantum friction. Physical Review A, 2020, 102, .	1.0	23
95	Defect computations in photonic crystals: a solid state theoretical approach. Nanotechnology, 2003, 14, 177-183.	1.3	22
96	Strongly coupled slow-light polaritons in one-dimensional disordered localized states. Scientific Reports, 2013, 3, 1994.	1.6	22
97	Quantum Rolling Friction. Physical Review Letters, 2019, 123, 120401.	2.9	22
98	All-optical diode in an asymmetrically apodized Kerr nonlinear microresonator system. Photonics and Nanostructures - Fundamentals and Applications, 2004, 2, 181-190.	1.0	20
99	Photonic crystals with anomalous dispersion: Unconventional propagating modes in the photonic band gap. Physical Review B, 2008, 77, .	1.1	19
100	Time-Domain Simulations of the Nonlinear Maxwell Equations Using Operator-Exponential Methods. IEEE Transactions on Antennas and Propagation, 2009, 57, 475-483.	3.1	19
101	Suppression of the critical angle of diffraction in thin-film colloidal photonic crystals. Physical Review B, 2010, 82, .	1.1	19
102	Topological protection versus degree of entanglement of two-photon light in photonic topological insulators. Nature Communications, 2021, 12, 1974.	5.8	19
103	The photonic Wannier function approach to photonic crystal simulations: status and perspectives. Journal of Modern Optics, 2011, 58, 365-383.	0.6	18
104	Wading through the void: Exploring quantum friction and nonequilibrium fluctuations. APL Photonics, 2022, 7, .	3.0	18
105	Wannier-function based scattering-matrix formalism for photonic crystal circuitry. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 202.	0.9	17
106	Dynamical Casimir effect in stochastic systems: Photon harvesting through noise. Physical Review A, 2017, 96, .	1.0	17
107	A solid state theoretical approach to the optical properties of photonic crystals. Physica Status Solidi A, 2003, 197, 637-647.	1.7	16
108	The Hong-Ou-Mandel effect in the context of few-photon scattering. Optics Express, 2012, 20, 12326.	1.7	16

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109	B-spline modal method: A polynomial approach compared to the Fourier modal method. Optics Express, 2013, 21, 14683.	1.7	16
110	Higher-Order Time-Domain Simulations of Maxwell's Equations Using Krylov-Subspace Methods. Journal of Computational and Theoretical Nanoscience, 2007, 4, 627-634.	0.4	16
111	General theory of nonresonant wave interaction: Giant soliton shift in photonic band gap materials. Europhysics Letters, 2004, 68, 205-211.	0.7	15
112	Nonlinear three-wave interaction in photonic crystals. Applied Physics B: Lasers and Optics, 2005, 81, 225-229.	1.1	15
113	Efficient multiple time-stepping algorithms of higher order. Journal of Computational Physics, 2015, 285, 133-148.	1.9	15
114	Multiphoton discrete fractional Fourier dynamics in waveguide beam splitters. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1985.	0.9	15
115	A Krylovâ€subspace based solver for the linear and nonlinear Maxwell equations. Physica Status Solidi (B): Basic Research, 2007, 244, 3479-3496.	0.7	14
116	Comparison of electron energy-loss and quantitative optical spectroscopy on individual optical gold antennas. Nanophotonics, 2013, 2, 241-245.	2.9	14
117	Quantitative spectroscopy on individual wire, slot, bow-tie, rectangular, and square-shaped optical antennas. Optics Letters, 2013, 38, 4597.	1.7	14
118	Coupling of Surface-Plasmon-Polariton-Hybridized Cavity Modes between Submicron Slits in a Thin Gold Film. ACS Photonics, 2016, 3, 836-843.	3.2	14
119	Modal expansions in periodic photonic systems with material loss and dispersion. Physical Review B, 2018, 97, .	1.1	14
120	Nanostructured In₃SbTe₂ antennas enable switching from sharp dielectric to broad plasmonic resonances. Nanophotonics, 2022, 11, 3871-3882.	2.9	14
121	Thermal emission from finite photonic crystals. Applied Physics Letters, 2009, 95, .	1.5	13
122	A low-cost AFM setup with an interferometer for undergraduates and secondary-school students. European Journal of Physics, 2013, 34, 901-914.	0.3	13
123	Simple magnetoâ€“optic transition metal models for timeâ€“domain simulations. Optics Express, 2013, 21, 12022.	1.7	13
124	Design study of random spectrometers for applications at optical frequencies. Optics Letters, 2018, 43, 3180.	1.7	13
125	Mode-independent quantum entanglement for light. Physical Review A, 2019, 100, .	1.0	13
126	Topological protection in non-Hermitian Haldane honeycomb lattices. Physical Review Research, 2020, 2, .	1.3	13

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127	Multiphoton synthetic lattices in multiport waveguide arrays: synthetic atoms and Fock graphs. Photonics Research, 2020, 8, 1161.	3.4	13
128	Linear response theory of open systems with exceptional points. Nature Communications, 2022, 13, .	5.8	13
129	Transition between corrugated metal films andÂsplit-ring-resonator arrays. Applied Physics B: Lasers and Optics, 2009, 96, 749-755.	1.1	12
130	Design and numerical optimization of an easy-to-fabricate photon-to-plasmon coupler for quantum plasmonics. Applied Physics Letters, 2013, 102, .	1.5	12
131	Spectra of coherent resonant light pulses interacting with a two-level atom in a waveguide. Physical Review A, 2013, 87, .	1.0	12
132	Quantum coherences of indistinguishable particles. Physical Review A, 2017, 96, .	1.0	12
133	Nonequilibrium atom-surface interaction with lossy multilayer structures. Physical Review A, 2018, 97, .	1.0	12
134	Extended hydrodynamic description for nonequilibrium atom-surface interactions. Journal of the Optical Society of America B: Optical Physics, 2019, 36, C52.	0.9	12
135	Transport velocity in two-dimensional random media. Physical Review B, 1995, 52, 10834-10840.	1.1	11
136	Wave propagation in linear and nonlinear structures. Physica D: Nonlinear Phenomena, 1998, 113, 346-365.	1.3	11
137	Lasing mechanisms in organic photonic crystal lasers with two-dimensional distributed feedback. Journal of Applied Physics, 2006, 100, 023110.	1.1	11
138	Special issue on â€œPhotonic Crystals: Optical Materials for the 21st Centuryâ€• Physica Status Solidi A, 2003, 197, 593-594.	1.7	10
139	Near-field optical microscopy and spectroscopy of one-dimensional metallic photonic crystal slabs. Physical Review B, 2005, 71, .	1.1	10
140	Nonlinear wave interaction in photonic band gap materials. Photonics and Nanostructures - Fundamentals and Applications, 2006, 4, 75-88.	1.0	10
141	Analysis of light propagation in slotted resonator based systems via coupled-mode theory. Optics Express, 2011, 19, 8641.	1.7	10
142	Nonadditive Enhancement of Nonequilibrium Atom-Surface Interactions. Physical Review Letters, 2020, 124, 193603.	2.9	10
143	Direct observation of the particle exchange phase of photons. Nature Photonics, 2021, 15, 671-675.	15.6	10
144	Composition analysis and transition energies of ultrathin Sn-rich GeSn quantum wells. Physical Review Materials, 2020, 4, .	0.9	10

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145	Lasing action in two-dimensional organic photonic crystal lasers with hexagonal symmetry. Applied Physics B: Lasers and Optics, 2006, 82, 539-541.	1.1	9
146	Properties of thermal radiation in photonic crystals. Journal of Optics, 2009, 11, 114005.	1.5	9
147	Generation of Wannier functions for photonic crystals. Physical Review B, 2013, 88, .	1.1	9
148	Correlated photons in one-dimensional waveguides. Optics Letters, 2013, 38, 3693.	1.7	9
149	Quantum thermodynamics of overdamped modes in local and spatially dispersive materials. Physical Review A, 2020, 101, .	1.0	9
150	Photonic Bandgap Materials. , 2003, , 133-145.		8
151	Stretched-coordinate PMLs for Maxwellâ€™s equations in the discontinuous Galerkin time-domain method. Optics Express, 2011, 19, 4618.	1.7	8
152	A construction guide to analytically generated meshes for the Fourier Modal Method. Optics Express, 2012, 20, 17319.	1.7	8
153	Abandoned Functionality of Thinâ€Film Opal Photonic Crystals. Advanced Optical Materials, 2013, 1, 952-962.	3.6	8
154	Frequencyâ€Resolved Reciprocalâ€Space Mapping of Visible Spontaneous Emission from 3D Photonic Crystals. Advanced Optical Materials, 2014, 2, 849-853.	3.6	8
155	Photoluminescence from ultrathin Ge-rich multiple quantum wells observed up to room temperature: Experiments and modeling. Physical Review B, 2016, 94, .	1.1	8
156	Enhanced Faraday rotation by dielectric metasurfaces with Bayesian shape-optimized scatterers. Optics Letters, 2021, 46, 1720.	1.7	8
157	Importance of substrates for the visibility of "dark" plasmonic modes. Optics Express, 2020, 28, 13938.	1.7	8
158	Comment on â€œEnergy Velocity of Diffusing Waves in Strongly Scattering Mediaâ€. Physical Review Letters, 1999, 82, 2000-2000.	2.9	7
159	Near-field study on the transition from localized to propagating plasmons on 2D nano-triangles. Optics Express, 2017, 25, 16947.	1.7	7
160	Entangled two-photon absorption spectroscopy with varying pump wavelengths. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C63.	0.9	7
161	Solid state theoretical methods for defect computations in Photonic Crystals. Materials Research Society Symposia Proceedings, 2002, 722, 111.	0.1	7
162	Photonic Crystal Devices with Multiple Dyes by Consecutive Local Infiltration of Single Pores. Advanced Materials, 2010, 22, 4731-4735.	11.1	6

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163	Quantum Bocce: Magnonâ€“magnon collisions between propagating and bound states in 1D spin chains. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1242-1249.	0.9	6
164	Ultrafast three-wave-mixing in plasmonic nanostructures. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	6
165	TE resonances in graphene-dielectric structures. Journal of Optics (United Kingdom), 2016, 18, 034001.	1.0	6
166	Dispersion relation of 3D photonic crystals based on macroporous silicon. Materials Research Society Symposia Proceedings, 2002, 722, 681.	0.1	5
167	Cluster coherent potential approximation for disordered photonic crystals using photonic Wannier functions. Optics Letters, 2012, 37, 560.	1.7	5
168	Current sheets in the Discontinuous Galerkin Time-Domain method: an application to graphene. , 2015, , .		5
169	Determining graphene's induced band gap with magnetic and electric emitters. Physical Review B, 2016, 93, .	1.1	5
170	Two-particle four-point correlations in dynamically disordered tight-binding networks. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 024002.	0.6	5
171	Measuring randomness with periodic media. Photonics and Nanostructures - Fundamentals and Applications, 2007, 5, 29-36.	1.0	4
172	Photonic-crystal time-domain simulations using Wannier functions. Optics Letters, 2011, 36, 307.	1.7	4
173	Interslit Coupling via Ultrafast Dynamics across Gold-Film Hole Arrays. Journal of Physical Chemistry C, 2014, 118, 11043-11049.	1.5	4
174	Anomalous resonances of an optical microcavity with a hyperbolic metamaterial core. Physical Review B, 2018, 97, .	1.1	4
175	Polaritonic contribution to the Casimir energy between two graphene layers. Physical Review B, 2019, 100, .	1.1	4
176	Techniques for Bandstructures and Defect States in Photonic Crystals. , 1996, , 465-485.		4
177	Energy-density CPA: a new effective medium theory for classical waves. Physica B: Condensed Matter, 2001, 296, 56-61.	1.3	3
178	Three-Dimensional Photonic Crystals. Solid State Phenomena, 2004, 99-100, 55-64.	0.3	3
179	Testing random numbers with periodic structures. Europhysics Letters, 2006, 73, 225-231.	0.7	3
180	Time-Stepping and Convergence Characteristics of the Discontinuous Galerkin Time-Domain Approach for the Maxwell Equations. , 2009, , .		3

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181	Using Curved Elements in the Discontinuous Galerkin Time-Domain Approach. , 2010, , .		3
182	Polarization Change in Faceâ€“Centered Cubic Opal Films. AIP Conference Proceedings, 2011, , .	0.3	3
183	Mid-infrared beam splitter for ultrashort pulses. Optics Letters, 2017, 42, 2918.	1.7	3
184	Fluorescence enhancement by a dark plasmon mode. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	3
185	Negative asymmetry parameter in plasmonic core-shell nanoparticles. Optics Express, 2020, 28, 1714.	1.7	3
186	Assistant Topical Editors return to JOSA B: editorial. Journal of the Optical Society of America B: Optical Physics, 2020, 37, ED8.	0.9	3
187	Three-Dimensional Lithography of Photonic Crystals. Advances in Solid State Physics, 2004, , 93-104.	0.8	2
188	Solid State Theory Meets Photonics:The Curious Optical Properties ofÂPhotonicÂCrystals. Lecture Notes in Physics, 2005, , 1-22.	0.3	2
189	Highly localized Wannier functions for the efficient modeling of photonic crystal circuits. , 2005, , .		2
190	Three-Dimensional Lithography of Photonic Crystals. , 2006, , 153-173.		2
191	Constraints in the generation of photonic Wannier functions. Physica B: Condensed Matter, 2012, 407, 4051-4055.	1.3	2
192	Disordered photonic crystals: a cluster coherent potential approach using photonic Wannier functions. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2246.	0.9	2
193	Structure-induced resonant tail-state regime absorption in polymer: fullerene bulk-heterojunction solar cells. Physical Review B, 2016, 93, .	1.1	2
194	Device performance tuning of Ge gate-all-around tunneling field effect transistors by means of GeSn: Potential and challenges. , 2017, , .		2
195	A 3D discontinuous Galerkin Time-Domain method for nano plasmonics with a nonlocal dispersion model. , 2017, , .		2
196	Two-particle quantum correlations in stochastically-coupled networks. New Journal of Physics, 2019, 21, 053041.	1.2	2
197	Dispersion control in a near-infrared subwavelength resonator with a tailored hyperbolic metamaterial. Optics Letters, 2020, 45, 3665.	1.7	2
198	Modeling electromagnetic resonators using quasinormal modes: Erratum. Advances in Optics and Photonics, 2021, 13, 834.	12.1	2

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199	Broadband fiber-to-chip coupling in different wavelength regimes realized by 3D-structures. , 2020, , .		2
200	Branching Highâ€Order Exceptional Points in Nonâ€Hermitian Optical Systems. Laser and Photonics Reviews, 2022, 16, .	4.4	2
201	Introduction. Optics Express, 2001, 8, 166.	1.7	1
202	Chaotic scattering of solitons on point defects in fiber Bragg gratings. Optics Express, 2008, 16, 10170.	1.7	1
203	Theoretical Approach to Random Lasing in thin Systems on reflecting Substrates. , 2009, , .		1
204	Polarization anisotropy and cross-polarized transmission in thin film opal-based photonic crystals. Proceedings of SPIE, 2010, , .	0.8	1
205	Simulating Electron Energy Loss Spectra using the Discontinuous Galerkin Time Domain Method. , 2010, , .		1
206	Photon transport in one-dimensional systems coupled to three-level quantum impurities. , 2012, , .		1
207	Surface-plasmon-polariton hybridized cavity modes in submicrometer slits in a thin Au film. Physical Review B, 2016, 93, .	1.1	1
208	Electron energy loss spectroscopy on freestanding perforated gold films. Physical Review B, 2021, 103, .	1.1	1
209	Topological protection of highly entangled non-Gaussian two-photon states. Materials for Quantum Technology, 2021, 1, 035001.	1.2	1
210	Additive splitting methods for parallel solutions of evolution problems. Journal of Computational Physics, 2021, 436, 110320.	1.9	1
211	Photonic Crystals: Optical Materials for the 21st Century. , 2002, , 41-53.		1
212	Discontinuous Galerkin Methods in Nanophotonics. , 2012, , .		1
213	Energy Transport Velocity in Random Media. , 1996, , 667-678.		1
214	Multiphoton Hong-Ou-Mandel Interferometry with Entangled Photon-Subtracted States. , 2018, , .		1
215	Fluctuation-induced phenomena in photonic systems: introduction. Journal of the Optical Society of America B: Optical Physics, 2019, 36, FIP1.	0.9	1
216	Modulated light potentials for state manipulation of quasiparticles in ultra-cold Bose gases. New Journal of Physics, 0, , .	1.2	1

#	Article	IF	Citations
217	Effective-medium and coherent-potential approximation. , 1998, , 45-50.		0
218	Dependence of transmission on number of rows of 2D macroporous silicon photonic band gap material. , 0, , .		0
219	Dependence of transmission on number of rows of 2-D macroporous silicon photonic band gap material. , 0, , .		0
220	Tunable photonic crystals. , 2000, , 529-543.		0
221	Angle- and spectrally-resolved Bragg scattering on two-dimensional silicon-based photonic crystals. , 2003, , .		0
222	4. A Solid-State Theoretical Approach to the Optical Properties of Photonic Crystals. Lecture Notes in Physics, 2004, , 55-74.	0.3	0
223	3D photonic bandgap templating using holography and direct laser writing. , 2005, , .		0
224	Improving the Impedance Matching in Photonic Crystal Waveguides. , 2006, , .		0
225	All-optical switching and slow light in photonic-crystal waveguide-resonator structures. , 2006, , .		0
226	On the Solid-State Theoretical Description of Photonic Crystals. , 2006, , 1-22.		0
227	Polymeric Photonic Crystal Lasers. , 2006, , 247-265.		0
228	Efficient modeling of nonlinear wave propagation and radiation dynamics in nano-photonic systems. , 2007, , .		0
229	Solitary wave formation in oneâ€dimensional photonic crystals. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3591-3599.	0.8	0
230	Preface: phys. stat. sol. (a) 204/11. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3587-3587.	0.8	0
231	Preface: phys. stat. sol. (b) 244/10. Physica Status Solidi (B): Basic Research, 2007, 244, 3417-3418.	0.7	0
232	Far-off-resonant wave interaction in one-dimensional photonic crystals with quadratic nonlinearity. Physical Review A, 2008, 77, .	1.0	0
233	Additional Basis Functions for the Photonic Wannier Function Method. , 2009, , .		0
234	Electromagnetic Coupling Effects in Pairs of Split-Ring Resonators. , 2009, , .		0

#	Article	IF	Citations
235	TaCoNa-Photonics 2008. Journal of Optics, 2009, 11, 110201.	1.5	0
236	Analysis of metallic nanostructures via a discontinuous-Galerkin time-domain approach. Proceedings of SPIE, 2009, , .	0.8	0
237	Coupling Between Split-Ring Resonators. , 2009, , .		0
238	Generation of 3D Wannier Functions. , 2009, , .		0
239	Simulations of nano-antennas with the discontinuous Galerkin time-domain method. Proceedings of SPIE, 2010, , .	0.8	0
240	Thermal emission from finite photonic crystals. Proceedings of SPIE, 2010, , .	0.8	0
241	Woodpile Photonic Crystals with a Complete Bandgap Reaching Telecom Wavelengths. , 2010, , .		0
242	TaCoNa-Photonics 2010. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 295.	1.0	0
243	A B-Spline Modal Method in Comparison to the Fourier Modal Method. , 2011, , .		0
244	Radiation dynamics of a spin system in a photonic band gap material. , 2012, , .		0
245	Pulse propagation of photon-added coherent states in waveguides with side-coupled nonlinear cavities. Optics Letters, 2012, 37, 1793.	1.7	0
246	Quantitative measurement of scattering and absorption cross-sections of individual metal nano-antennas. , 2012, , .		0
247	A low-cost setup for microstructuring experiments using a homemade UV laser. American Journal of Physics, 2012, 80, 260-265.	0.3	0
248	Modeling Spontaneous Emission Control in Photonic Crystals by Ferromagnetic Resonance. IEEE Transactions on Magnetics, 2013, 49, 1013-1019.	1.2	0
249	Transformation of light polarization in thin-film opal photonic crystals. Proceedings of SPIE, 2014, , .	0.8	0
250	Real space imaging of nano-tip plasmons using electron energy-loss spectroscopy. , 2015, , .		0
251	Discontinuous Galerkin methods in nano-photonics. , 2016, , .		0
252	Failure of local thermal equilibrium in quantum friction. , 2016, , .		0

#	Article	IF	Citations
253	Discontinuous-Galerkin methods for the accurate modelling of photonic systems. , 2017, , .		0
254	Hyperbolic cavitities as tunable platform for spontaneous emission enhancement of dye molecules. , 2017, , .		0
255	A slab waveguide source for discontinuous Galerkin time-domain methods. , 2018, , .		0
256	Topological protection versus degree of entanglement of two-photon edge states. , 2021, , .		0
257	Splitting exceptional points by photon-number resolved detection of multi-mode coherent states. , 2021, , .		0
258	Defectâ€State Lasing in Photonic Lattices of Metalâ€“Organic Microcavities. Advanced Photonics Research, 2021, 2, 2000116.	1.7	0
259	Despite the ongoing pandemic, OSA staff, topical editors, and reviewers maintain JOSA Bâ€™s high standards: editorial. Journal of the Optical Society of America B: Optical Physics, 2021, 38, ED1.	0.9	0
260	Topological protection versus degree of entanglement of two-photon light. , 2021, , .		0
261	Tunable Photonic Crystals. , 2001, , 41-57.		0
262	Multipole Methods for Photonic Crystal Calculations. , 2001, , 527-534.		0
263	Arbitrary angle waveguiding applications of two dimensional curvilinear photonic crystals. , 2004, , .		0
264	Quantitative Analysis of Certain Nano-Plasmonic Systems. , 2008, , .		0
265	Photonic Metamaterials by Direct Laser Writing. , 2009, , .		0
266	High-Q Polymeric Microcavities towards Biosensing Applications. , 2010, , .		0
267	Time-Domain Simulations of Semiclassical Radiation Dynamics in Photonic Nanostructures. , 2010, , .		0
268	Selfconsistent Theory for Random Lasers in Disordered 3d Media of Finite Size. , 2010, , .		0
269	Simulation of anisotropic nonlinear Ï‡(2) material with FDTD. , 2010, , .		0
270	Non-Markovian Radiation Dynamics in Photonic Band Gap Materials. , 2013, , .		0

#	Article	IF	Citations
271	Light-matter interaction in planar plasmonic and metamaterial systems: equilibrium and non-equilibrium effects (Conference Presentation). , 2017, , .		0
272	Highly Compact and Scalable Waveguide-Integrated Single Photon Spectrometer Based on Tailored Disorder. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 405-405.	0.2	0
273	Waveguide-integrated single photon spectrometer based on tailored disorder (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T		0
274	A privilege and a responsibility: editorial. Journal of the Optical Society of America B: Optical Physics, 2019, 36, ED1.	0.9	0
275	Pseudo energy representation of multi-photon states in photonic tight-binding lattices. , 2019, , .		0
276	Tutorials as a novel service for the optics and photonics community: editorial. Journal of the Optical Society of America B: Optical Physics, 2020, 37, ED7.	0.9	0
277	Maintaining the breadth and depth â€"a tribute to the volunteers of JOSA B: editorial. Journal of the Optical Society of America B: Optical Physics, 2020, 37, ED1.	0.9	0
278	Topological Edge States in Parity-Time-Broken Haldane Honeycomb Lattices. , 2020, , .		0
279	Are photons bosons? Measuring the particle exchange phase of photons. , 2020, , .		0
280	Entanglement protection of non-gaussian two-photon states in photonic topological insulators. , 2021, , .		0
281	Recognizing emerging researchers with a new Journal prize: editorial. Journal of the Optical Society of America B: Optical Physics, 0, , .	0.9	0
282	Quantum-inspired multicore optical fiber. Optics Letters, 2022, 47, 2526-2529.	1.7	0