

Steven G Johnson

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229
papers

16,223
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123
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272
ext. papers

19,324
ext. citations

5.9
avg, IF

6.63
L-index

#	Paper	IF	Citations
229	Meep: A flexible free-software package for electromagnetic simulations by the FDTD method. <i>Computer Physics Communications</i> , 2010 , 181, 687-702	4.2	1645
228	Guided modes in photonic crystal slabs. <i>Physical Review B</i> , 1999 , 60, 5751-5758	3.3	719
227	All-angle negative refraction without negative effective index. <i>Physical Review B</i> , 2002 , 65,	3.3	684
226	Observation of trapped light within the radiation continuum. <i>Nature</i> , 2013 , 499, 188-91	50.4	590
225	Photonic Crystals 2011 ,		536
224	Linear waveguides in photonic-crystal slabs. <i>Physical Review B</i> , 2000 , 62, 8212-8222	3.3	430
223	A three-dimensional optical photonic crystal with designed point defects. <i>Nature</i> , 2004 , 429, 538-42	50.4	387
222	Improving accuracy by subpixel smoothing in the finite-difference time domain. <i>Optics Letters</i> , 2006 , 31, 2972-4	3	355
221	Subwavelength imaging in photonic crystals. <i>Physical Review B</i> , 2003 , 68,	3.3	325
220	The Casimir effect in microstructured geometries. <i>Nature Photonics</i> , 2011 , 5, 211-221	33.9	317
219	Photonic-crystal slow-light enhancement of nonlinear phase sensitivity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2052	1.7	315
218	Three-dimensional control of light in a two-dimensional photonic crystal slab. <i>Nature</i> , 2000 , 407, 983-6	50.4	294
217	Perturbation theory for Maxwell's equations with shifting material boundaries. <i>Physical Review E</i> , 2002 , 65, 066611	2.4	280
216	Optimal bistable switching in nonlinear photonic crystals. <i>Physical Review E</i> , 2002 , 66, 055601	2.4	275
215	Evanescent-wave bonding between optical waveguides. <i>Optics Letters</i> , 2005 , 30, 3042-4	3	269
214	A Modified Split-Radix FFT With Fewer Arithmetic Operations. <i>IEEE Transactions on Signal Processing</i> , 2007 , 55, 111-119	4.8	236
213	Cerenkov radiation in photonic crystals. <i>Science</i> , 2003 , 299, 368-71	33.3	215

212	Waveguide branches in photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001 , 18, 162	1.7	206
211	Design and global optimization of high-efficiency thermophotovoltaic systems. <i>Optics Express</i> , 2010 , 18 Suppl 3, A314-34	3.3	189
210	Symmetry-protected topological photonic crystal in three dimensions. <i>Nature Physics</i> , 2016 , 12, 337-340	16.2	182
209	On-chip transformation optics for multimode waveguide bends. <i>Nature Communications</i> , 2012 , 3, 1217	17.4	180
208	Slow-light, band-edge waveguides for tunable time delays. <i>Optics Express</i> , 2005 , 13, 7145-59	3.3	169
207	Adiabatic theorem and continuous coupled-mode theory for efficient taper transitions in photonic crystals. <i>Physical Review E</i> , 2002 , 66, 066608	2.4	159
206	Quantitative analysis of bending efficiency in photonic-crystal waveguide bends at $\lambda = 1.55$ μm wavelengths. <i>Optics Letters</i> , 2001 , 26, 286-8	3	154
205	All-angle negative refraction in a three-dimensionally periodic photonic crystal. <i>Applied Physics Letters</i> , 2002 , 81, 2352-2354	3.4	152
204	Three-dimensionally periodic dielectric layered structure with omnidirectional photonic band gap. <i>Applied Physics Letters</i> , 2000 , 77, 3490-3492	3.4	150
203	Elimination of cross talk in waveguide intersections. <i>Optics Letters</i> , 1998 , 23, 1855-7	3	150
202	Optical broadband angular selectivity. <i>Science</i> , 2014 , 343, 1499-501	33.3	145
201	Structured spheres generated by an in-fibre fluid instability. <i>Nature</i> , 2012 , 487, 463-7	50.4	136
200	Frequency-selective near-field radiative heat transfer between photonic crystal slabs: a computational approach for arbitrary geometries and materials. <i>Physical Review Letters</i> , 2011 , 107, 114302	7.4	132
199	High-Q enhancement of attractive and repulsive optical forces between coupled whispering-gallery-mode resonators. <i>Optics Express</i> , 2005 , 13, 8286-95	3.3	132
198	Demonstration of highly efficient waveguiding in a photonic crystal slab at the 1.5-microm wavelength. <i>Optics Letters</i> , 2000 , 25, 1297-9	3	129
197	Enhanced nonlinear optics in photonic-crystal microcavities. <i>Optics Express</i> , 2007 , 15, 16161-76	3.3	127
196	Bloch surface eigenstates within the radiation continuum. <i>Light: Science and Applications</i> , 2013 , 2, e84-e86	16.7	117
195	Multipole-cancellation mechanism for high-Q cavities in the absence of a complete photonic band gap. <i>Applied Physics Letters</i> , 2001 , 78, 3388-3390	3.4	117

194	Roughness losses and volume-current methods in photonic-crystal waveguides. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 283-293	1.9	111
193	Casimir repulsion between metallic objects in vacuum. <i>Physical Review Letters</i> , 2010 , 105, 090403	7.4	105
192	Chi((2)) and Chi((3)) harmonic generation at a critical power in inhomogeneous doubly resonant cavities. <i>Optics Express</i> , 2007 , 15, 7303-18	3.3	104
191	Single-photon all-optical switching using waveguide-cavity quantum electrodynamics. <i>Physical Review A</i> , 2006 , 74,	2.6	102
190	Inverse design of large-area metasurfaces. <i>Optics Express</i> , 2018 , 26, 33732-33747	3.3	97
189	Efficient computation of Casimir interactions between arbitrary 3D objects. <i>Physical Review Letters</i> , 2009 , 103, 040401	7.4	93
188	Fundamental limits to optical response in absorptive systems. <i>Optics Express</i> , 2016 , 24, 3329-64	3.3	90
187	Computation and visualization of Casimir forces in arbitrary geometries: nonmonotonic lateral-wall forces and the failure of proximity-force approximations. <i>Physical Review Letters</i> , 2007 , 99, 080401	7.4	90
186	Optimization-based design of surface textures for thin-film Si solar cells. <i>Optics Express</i> , 2011 , 19 Suppl 4, A841-50	3.3	89
185	Cavity-enhanced second-harmonic generation via nonlinear-overlap optimization. <i>Optica</i> , 2016 , 3, 233	8.6	88
184	Casimir forces on a silicon micromechanical chip. <i>Nature Communications</i> , 2013 , 4, 1845	17.4	88
183	Fluctuating-surface-current formulation of radiative heat transfer for arbitrary geometries. <i>Physical Review B</i> , 2012 , 86,	3.3	85
182	Coherent plasmon-exciton coupling in silver platelet-J-aggregate nanocomposites. <i>Nano Letters</i> , 2015 , 15, 2588-93	11.5	84
181	General theory of spontaneous emission near exceptional points. <i>Optics Express</i> , 2017 , 25, 12325-12348	3.3	79
180	Low-loss, wide-angle Y splitter at approximately ~1.6- μm wavelengths built with a two-dimensional photonic crystal. <i>Optics Letters</i> , 2002 , 27, 1400-2	3	79
179	The failure of perfectly matched layers, and towards their redemption by adiabatic absorbers. <i>Optics Express</i> , 2008 , 16, 11376-92	3.3	78
178	Virtual photons in imaginary time: Computing exact Casimir forces via standard numerical electromagnetism techniques. <i>Physical Review A</i> , 2007 , 76,	2.6	78
177	Enabling enhanced emission and low-threshold lasing of organic molecules using special Fano resonances of macroscopic photonic crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 13711-6	11.5	76

176	Silicon-in-silica spheres via axial thermal gradient in-fibre capillary instabilities. <i>Nature Communications</i> , 2013 , 4, 2216	17.4	75
175	Efficient Computation of Power, Force, and Torque in BEM Scattering Calculations. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 3588-3598	4.9	69
174	Topology optimization of freeform large-area metasurfaces. <i>Optics Express</i> , 2019 , 27, 15765-15775	3.3	68
173	Are slot and sub-wavelength grating waveguides better than strip waveguides for sensing?. <i>Optica</i> , 2018 , 5, 1046	8.6	67
172	Strain-tunable silicon photonic band gap microcavities in optical waveguides. <i>Applied Physics Letters</i> , 2004 , 84, 1242-1244	3.4	67
171	Analysis of mode structure in hollow dielectric waveguide fibers. <i>Physical Review E</i> , 2003 , 67, 046608	2.4	67
170	Effectiveness of thin films in lieu of hyperbolic metamaterials in the near field. <i>Physical Review Letters</i> , 2014 , 112, 157402	7.4	66
169	Robust topology optimization of three-dimensional photonic-crystal band-gap structures. <i>Optics Express</i> , 2014 , 22, 22632-48	3.3	66
168	Fluctuating-surface-current formulation of radiative heat transfer: Theory and applications. <i>Physical Review B</i> , 2013 , 88,	3.3	66
167	Theoretical criteria for scattering dark states in nanostructured particles. <i>Nano Letters</i> , 2014 , 14, 2783-811.5	11.5	64
166	Slow-light enhancement of radiation pressure in an omnidirectional-reflector waveguide. <i>Applied Physics Letters</i> , 2004 , 85, 1466-1468	3.4	61
165	Emulation of two-dimensional photonic crystal defect modes in a photonic crystal with a three-dimensional photonic band gap. <i>Physical Review B</i> , 2001 , 64,	3.3	60
164	Shape-Independent Limits to Near-Field Radiative Heat Transfer. <i>Physical Review Letters</i> , 2015 , 115, 204302	3.02	58
163	Fluctuating volume-current formulation of electromagnetic fluctuations in inhomogeneous media: Incandescence and luminescence in arbitrary geometries. <i>Physical Review B</i> , 2015 , 92,	3.3	56
162	Delay-bandwidth and delay-loss limitations for cloaking of large objects. <i>Physical Review Letters</i> , 2010 , 104, 253903	7.4	56
161	Nontouching nanoparticle diclusters bound by repulsive and attractive Casimir forces. <i>Physical Review Letters</i> , 2010 , 104, 160402	7.4	56
160	Effect of a photonic band gap on scattering from waveguide disorder. <i>Applied Physics Letters</i> , 2004 , 84, 3639-3641	3.4	56
159	Fundamental limits to extinction by metallic nanoparticles. <i>Physical Review Letters</i> , 2014 , 112, 123903	7.4	55

158	Guiding 1.5 μm light in photonic crystals based on dielectric rods. <i>Applied Physics Letters</i> , 2004 , 85, 6110-6112	3.12	55
157	Taper structures for coupling into photonic crystal slab waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003 , 20, 1817	1.7	55
156	Toward photonic-crystal metamaterials: Creating magnetic emitters in photonic crystals. <i>Applied Physics Letters</i> , 2003 , 82, 1069-1071	3.4	54
155	Formulation for scalable optimization of microcavities via the frequency-averaged local density of states. <i>Optics Express</i> , 2013 , 21, 30812-41	3.3	53
154	Maximal spontaneous photon emission and energy loss from free electrons. <i>Nature Physics</i> , 2018 , 14, 894-899	16.2	52
153	Casimir forces in the time domain: Theory. <i>Physical Review A</i> , 2009 , 80,	2.6	52
152	Transformation inverse design. <i>Optics Express</i> , 2013 , 21, 14223-43	3.3	47
151	Repulsive and attractive Casimir forces in a glide-symmetric geometry. <i>Physical Review A</i> , 2008 , 77,	2.6	47
150	Perfect single-sided radiation and absorption without mirrors. <i>Optica</i> , 2016 , 3, 1079	8.6	47
149	Modeling near-field radiative heat transfer from sharp objects using a general three-dimensional numerical scattering technique. <i>Physical Review B</i> , 2012 , 85,	3.3	46
148	. <i>Journal of Lightwave Technology</i> , 2007 , 25, 2539-2546	4	46
147	Anomalous dispersion relations by symmetry breaking in axially uniform waveguides. <i>Physical Review Letters</i> , 2004 , 92, 063903	7.4	44
146	Spherical cloaking using nonlinear transformations for improved segmentation into concentric isotropic coatings. <i>Optics Express</i> , 2009 , 17, 13467-78	3.3	43
145	High-efficiency second-harmonic generation in doubly-resonant (L) microring resonators. <i>Optics Express</i> , 2012 , 20, 7526-43	3.3	41
144	Casimir forces in the time domain: Applications. <i>Physical Review A</i> , 2010 , 81,	2.6	39
143	Accurate finite-difference time-domain simulation of anisotropic media by subpixel smoothing. <i>Optics Letters</i> , 2009 , 34, 2778-80	3	38
142	Broadband super-collimation in a hybrid photonic crystal structure. <i>Optics Express</i> , 2009 , 17, 8109-18	3.3	38
141	Robust optimization of adiabatic tapers for coupling to slow-light photonic-crystal waveguides. <i>Optics Express</i> , 2012 , 20, 21558-75	3.3	37

140	Designing synthetic optical media: photonic crystals. <i>Acta Materialia</i> , 2003 , 51, 5823-5835	8.4	37
139	In-fiber production of polymeric particles for biosensing and encapsulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15549-54	11.5	36
138	Design of an efficient terahertz source using triply resonant nonlinear photonic crystal cavities. <i>Optics Express</i> , 2009 , 17, 20099-108	3.3	36
137	Nonmonotonic effects of parallel sidewalls on Casimir forces between cylinders. <i>Physical Review A</i> , 2008 , 77,	2.6	36
136	Scalable numerical approach for the steady-state ab initio laser theory. <i>Physical Review A</i> , 2014 , 90,	2.6	35
135	Integration of a photonic crystal polarization beam splitter and waveguide bend. <i>Optics Express</i> , 2009 , 17, 8657-68	3.3	35
134	Direct measurement of the quality factor in a two-dimensional photonic-crystal microcavity. <i>Optics Letters</i> , 2001 , 26, 1903-5	3	35
133	Inverse Designed Metalenses with Extended Depth of Focus. <i>ACS Photonics</i> , 2020 , 7, 873-878	6.3	34
132	Control of buckling in large micromembranes using engineered support structures. <i>Journal of Micromechanics and Microengineering</i> , 2012 , 22, 065028	2	34
131	Stable suspension and dispersion-induced transitions from repulsive Casimir forces between fluid-separated eccentric cylinders. <i>Physical Review Letters</i> , 2008 , 101, 190404	7.4	34
130	Widely tunable compact terahertz gas lasers. <i>Science</i> , 2019 , 366, 856-860	33.3	33
129	Type-II/III DCT/DST algorithms with reduced number of arithmetic operations. <i>Signal Processing</i> , 2008 , 88, 1553-1564	4.4	33
128	Disorder-immune confinement of light in photonic-crystal cavities. <i>Optics Letters</i> , 2005 , 30, 3192-4	3	33
127	Microcavity confinement based on an anomalous zero group-velocity waveguide mode. <i>Optics Letters</i> , 2005 , 30, 552-4	3	32
126	Classical and fluctuation-induced electromagnetic interactions in micron-scale systems: designer bonding, antibonding, and Casimir forces. <i>Annalen Der Physik</i> , 2015 , 527, 45-80	2.6	31
125	Perturbation theory for anisotropic dielectric interfaces, and application to subpixel smoothing of discretized numerical methods. <i>Physical Review E</i> , 2008 , 77, 036611	2.4	31
124	Integrated photonic structures for light trapping in thin-film Si solar cells. <i>Applied Physics Letters</i> , 2012 , 100, 111110	3.4	30
123	Exploration of in-fiber nanostructures from capillary instability. <i>Optics Express</i> , 2011 , 19, 16273-90	3.3	29

122	Nonlinear harmonic generation and devices in doubly resonant Kerr cavities. <i>Physical Review A</i> , 2009 , 79,	2.6	29
121	Zero-group-velocity modes in chalcogenide holey photonic-crystal fibers. <i>Optics Express</i> , 2009 , 17, 10082-90	3.3	29
120	Overlapping domains for topology optimization of large-area metasurfaces. <i>Optics Express</i> , 2019 , 27, 32445-32453	3.3	29
119	Diameter-bandwidth product limitation of isolated-object cloaking. <i>Physical Review A</i> , 2012 , 86,	2.6	28
118	Limits to the Optical Response of Graphene and Two-Dimensional Materials. <i>Nano Letters</i> , 2017 , 17, 5408-5415	2.7	27
117	Type-IV DCT, DST, and MDCT algorithms with reduced numbers of arithmetic operations. <i>Signal Processing</i> , 2008 , 88, 1313-1326	4.4	27
116	Fundamental relation between phase and group velocity, and application to the failure of perfectly matched layers in backward-wave structures. <i>Physical Review E</i> , 2009 , 79, 065601	2.4	26
115	Design of thin-film photonic metamaterial Leeburg lens using analytical approach. <i>Optics Express</i> , 2012 , 20, 1617-28	3.3	26
114	Optical bistability in axially modulated OmniGuide fibers. <i>Optics Letters</i> , 2003 , 28, 516-8	3	26
113	Polarization-independent linear waveguides in 3D photonic crystals. <i>Physical Review Letters</i> , 2003 , 91, 023902	7.4	26
112	Fundamental Limits to Near-Field Optical Response over Any Bandwidth. <i>Physical Review X</i> , 2019 , 9,	9.1	25
111	Achieving a strongly temperature-dependent Casimir effect. <i>Physical Review Letters</i> , 2010 , 105, 060401	7.4	25
110	Microstructure effects for Casimir forces in chiral metamaterials. <i>Physical Review B</i> , 2010 , 82,	3.3	25
109	Linear stability analysis of capillary instabilities for concentric cylindrical shells. <i>Journal of Fluid Mechanics</i> , 2011 , 683, 235-262	3.7	24
108	Electromagnetic cavity with arbitrary Q and small modal volume without a complete photonic bandgap. <i>Optics Letters</i> , 2002 , 27, 1785-7	3	24
107	Fluctuation-Induced Phenomena in Nanoscale Systems: Harnessing the Power of Noise. <i>Proceedings of the IEEE</i> , 2013 , 101, 531-545	14.3	23
106	Robust design of slow-light tapers in periodic waveguides. <i>Engineering Optimization</i> , 2009 , 41, 365-384	2	23
105	Distinguishing correct from incorrect PML proposals and a corrected unsplit PML for anisotropic, dispersive media. <i>Journal of Computational Physics</i> , 2011 , 230, 2369-2377	4.1	23

104	Fluctuating surface currents: An algorithm for efficient prediction of Casimir interactions among arbitrary materials in arbitrary geometries. <i>Physical Review A</i> , 2013 , 88,	2.6	22
103	Ab initio multimode linewidth theory for arbitrary inhomogeneous laser cavities. <i>Physical Review A</i> , 2015 , 91,	2.6	22
102	Bonding, antibonding and tunable optical forces in asymmetric membranes. <i>Optics Express</i> , 2011 , 19, 2225-41	3.3	22
101	Computation of Casimir interactions between arbitrary three-dimensional objects with arbitrary material properties. <i>Physical Review A</i> , 2011 , 84,	2.6	22
100	Degenerate four-wave mixing in triply resonant Kerr cavities. <i>Physical Review A</i> , 2011 , 83,	2.6	22
99	Optimization of broadband optical response of multilayer nanospheres. <i>Optics Express</i> , 2012 , 20, 18494-504	3.4	22
98	. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 195-209	4.9	21
97	Optomechanical and photothermal interactions in suspended photonic crystal membranes. <i>Optics Express</i> , 2013 , 21, 7258-75	3.3	21
96	Global optimization of silicon photovoltaic cell front coatings. <i>Optics Express</i> , 2009 , 17, 7505-18	3.3	21
95	Floquet Chern insulators of light. <i>Nature Communications</i> , 2019 , 10, 4194	17.4	20
94	Radiative heat transfer in nonlinear Kerr media. <i>Physical Review B</i> , 2015 , 91,	3.3	20
93	Doppler radiation emitted by an oscillating dipole moving inside a photonic band-gap crystal. <i>Physical Review Letters</i> , 2006 , 96, 043903	7.4	20
92	Speed-of-light limitations in passive linear media. <i>Physical Review A</i> , 2014 , 90,	2.6	19
91	Anomalous near-field heat transfer between a cylinder and a perforated surface. <i>Physical Review Letters</i> , 2013 , 110, 014301	7.4	19
90	On the Computation of Power in Volume Integral Equation Formulations. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 611-620	4.9	19
89	Computation and visualization of photonic quasicrystal spectra via Bloch's theorem. <i>Physical Review B</i> , 2008 , 77,	3.3	19
88	Designing evanescent optical interactions to control the expression of Casimir forces in optomechanical structures. <i>Applied Physics Letters</i> , 2011 , 98, 194105	3.4	18
87	Difference-frequency generation with quantum-limited efficiency in triply-resonant nonlinear cavities. <i>Optics Express</i> , 2009 , 17, 9241-51	3.3	18

86	Physics-Informed Neural Networks with Hard Constraints for Inverse Design. <i>SIAM Journal of Scientific Computing</i> , 2021 , 43, B1105-B1132	2.6	18
85	Efficient low-power terahertz generation via on-chip triply-resonant nonlinear frequency mixing. <i>Applied Physics Letters</i> , 2010 , 96, 101110	3.4	17
84	Design strategies and rigorous conditions for single-polarization single-mode waveguides. <i>Optics Express</i> , 2008 , 16, 15170-84	3.3	17
83	Analysis of general geometric scaling perturbations in a transmitting waveguide: fundamental connection between polarization-mode dispersion and group-velocity dispersion. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2002 , 19, 2867	1.7	17
82	Layer-by-layer self-assembly of plexcitonic nanoparticles. <i>Optics Express</i> , 2013 , 21, 19103-12	3.3	16
81	Fullwave Maxwell inverse design of axisymmetric, tunable, and multi-scale multi-wavelength metalenses. <i>Optics Express</i> , 2020 , 28, 33854-33868	3.3	16
80	Purcell effect in nonlinear photonic structures: a coupled mode theory analysis. <i>Optics Express</i> , 2008 , 16, 12523-37	3.3	15
79	All-optical three-dimensional electron pulse compression. <i>New Journal of Physics</i> , 2015 , 17, 013051	2.9	14
78	Dielectric profile variations in high-index-contrast waveguides, coupled mode theory, and perturbation expansions. <i>Physical Review E</i> , 2003 , 67, 046613	2.4	14
77	Inverse design of nanoparticles for enhanced Raman scattering. <i>Optics Express</i> , 2020 , 28, 4444-4462	3.3	14
76	Optical bistability with a repulsive optical force in coupled silicon photonic crystal membranes. <i>Applied Physics Letters</i> , 2013 , 103, 021102	3.4	13
75	Active learning of deep surrogates for PDEs: application to metasurface design. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	13
74	Computational inverse design of non-intuitive illumination patterns to maximize optical force or torque. <i>Optics Express</i> , 2017 , 25, 6757-6766	3.3	12
73	Improved beam waist formula for ultrashort, tightly focused linearly, radially, and azimuthally polarized laser pulses in free space. <i>Optics Letters</i> , 2014 , 39, 1258-61	3	12
72	Python Bindings for the Open Source Electromagnetic Simulator Meep. <i>Computing in Science and Engineering</i> , 2011 , 13, 53-65	1.5	12
71	All-optical switching using optical bistability in nonlinear photonic crystals 2003 ,		12
70	Optical bistability and cutoff solitons in photonic bandgap fibers. <i>Optics Express</i> , 2004 , 12, 1518-27	3.3	12
69	Limits to surface-enhanced Raman scattering near arbitrary-shape scatterers. <i>Optics Express</i> , 2019 , 27, 35189-35202	3.3	12

68	A high-efficiency regime for gas-phase terahertz lasers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 6614-6619	11.5	11
67	Asymmetric wave propagation in planar chiral fibers. <i>Optics Express</i> , 2013 , 21, 1465-72	3.3	11
66	Sufficient conditions for two-dimensional localization by arbitrarily weak defects in periodic potentials with band gaps. <i>Physical Review B</i> , 2010 , 81,	3.3	11
65	Numerical Methods for Computing Casimir Interactions. <i>Lecture Notes in Physics</i> , 2011 , 175-218	0.8	11
64	A framework for scintillation in nanophotonics.. <i>Science</i> , 2022 , 375, eabm9293	33.3	11
63	Inverse design enables large-scale high-performance meta-optics reshaping virtual reality.. <i>Nature Communications</i> , 2022 , 13, 2409	17.4	11
62	Generalized GilatRaubenheimer method for density-of-states calculation in photonic crystals. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 044005	1.7	10
61	Three-dimensional photonic crystals by large-area membrane stacking. <i>Optics Letters</i> , 2012 , 37, 4726-8	3	10
60	Distinguishing zero-group-velocity modes in photonic crystals. <i>Physical Review A</i> , 2007 , 76,	2.6	10
59	Discrete-mode cancellation mechanism for high-Q integrated optical cavities with small modal volume. <i>Optics Letters</i> , 2004 , 29, 2309-11	3	10
58	End-to-end nanophotonic inverse design for imaging and polarimetry. <i>Nanophotonics</i> , 2021 , 10, 1177-1187	3	10
57	Interaction-induced mode switching in steady-state microlasers. <i>Optics Express</i> , 2016 , 24, 41-54	3.3	9
56	High-efficiency degenerate four-wave mixing in triply resonant nanobeam cavities. <i>Physical Review A</i> , 2014 , 89,	2.6	9
55	Blast-induced electromagnetic fields in the brain from bone piezoelectricity. <i>NeuroImage</i> , 2011 , 54 Suppl 1, S30-6	7.9	9
54	Structural anisotropy and orientation-induced Casimir repulsion in fluids. <i>Physical Review A</i> , 2011 , 83,	2.6	9
53	Optical-approximation analysis of sidewall-spacing effects on the force between two squares with parallel sidewalls. <i>Physical Review A</i> , 2007 , 76,	2.6	9
52	Sideways adiabaticity: beyond ray optics for slowly varying metasurfaces. <i>Optics Express</i> , 2018 , 26, 30202-30230	3.3	9
51	Optimal Nanoparticle Forces, Torques, and Illumination Fields. <i>ACS Photonics</i> , 2019 , 6, 395-402	6.3	9

50	Computational inverse design for ultra-compact single-piece metalenses free of chromatic and angular aberration. <i>Applied Physics Letters</i> , 2021 , 118, 041104	3.4	9
49	Optimization of sharp and viewing-angle-independent structural color. <i>Optics Express</i> , 2015 , 23, 9516-263,3		8
48	General scaling limitations of ground-plane and isolated-object cloaks. <i>Physical Review A</i> , 2011 , 84,	2.6	8
47	Filament formation via the instability of a stretching viscous sheet: Physical mechanism, linear theory, and fiber applications. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	8
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