Philip TrÃ¸st Kristensen

List of Publications by Year
in descending order

31 papers	1,192 citations	471509 17 h-index	610901 24 g-index
31 all docs	31 docs citations	31 times ranked	1029 citing authors

#	Article	IF	Citations
1	Modes and Mode Volumes of Leaky Optical Cavities and Plasmonic Nanoresonators. ACS Photonics, 2014, 1, 2-10.	6.6	217
2	Spontaneous emission spectra and quantum light-matter interactions from a strongly coupled quantum dot metal-nanoparticle system. Physical Review B, 2012, 85, .	3.2	145
3	Quantization of Quasinormal Modes for Open Cavities and Plasmonic Cavity Quantum Electrodynamics. Physical Review Letters, 2019, 122, 213901.	7.8	130
4	Improved switching using Fano resonances in photonic crystal structures. Optics Letters, 2013, 38, 2466.	3.3	100
5	Normalization of quasinormal modes in leaky optical cavities and plasmonic resonators. Physical Review A, 2015, 92, .	2.5	98
6	Quasinormal mode approach to modelling light-emission and propagation in nanoplasmonics. New Journal of Physics, 2014, 16, 113048.	2.9	94
7	Modeling electromagnetic resonators using quasinormal modes. Advances in Optics and Photonics, 2020, 12, 612.	25.5	76
8	Switching characteristics of an InP photonic crystal nanocavity: Experiment and theory. Optics Express, 2013, 21, 31047.	3.4	50
9	Scattering of two photons on a quantum emitter in a one-dimensional waveguide: exact dynamics and induced correlations. New Journal of Physics, 2015, 17, 023030.	2.9	35
10	Decay dynamics of radiatively coupled quantum dots in photonic crystal slabs. Physical Review B, 2011, 83, .	3.2	29
11	On the Theory of Coupled Modes in Optical Cavity-Waveguide Structures. Journal of Lightwave Technology, 2017, 35, 4247-4259.	4.6	29
12	Roundtrip matrix method for calculating the leaky resonant modes of open nanophotonic structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2142.	1.5	26
13	Calculation, normalization, and perturbation of quasinormal modes in coupled cavity-waveguide systems. Optics Letters, 2014, 39, 6359.	3.3	23
14	Energy-bandwidth trade-off in all-optical photonic crystal microcavity switches. Optics Express, 2011, 19, 18410.	3.4	22
15	Three-dimensional integral equation approach to light scattering, extinction cross sections, local density of states, and quasi-normal modes. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1996.	2.1	22
16	Shell theorem for spontaneous emission. Physical Review B, 2013, 88, .	3.2	19
17	Semianalytical quasi-normal mode theory for the local density of states in coupled photonic crystal cavityâ€“waveguide structures. Optics Letters, 2015, 40, 5790.	3.3	18
18	Light propagation in finite-sized photonic crystals: multiple scattering using an electric field integral equation. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 228.	2.1	12

#	Article	IF	Citations
19	Optimal switching using coherent control. Applied Physics Letters, 2013, 102, .	3.3	12
20	Reply to â€œComment on â€˜Normalization of quasinormal modes in leaky optical cavities and plasmonic resonators'Ââ€• Physical Review A, 2017, 96, .	2.5	9
21	Enhanced Faraday rotation by dielectric metasurfaces with Bayesian shape-optimized scatterers. Optics Letters, 2021, 46, 1720.	3.3	8
22	Quantum theory of two-dimensional materials coupled to electromagnetic resonators. Physical Review B, 2022, 105, .	3.2	8
23	Cavity-induced exciton localization and polariton blockade in two-dimensional semiconductors coupled to an electromagnetic resonator. Physical Review Research, 2022, 4, .	3.6	7
24	On the Purcell effect beyond the dipole approximation. , 2012, , .		1
25	A Non-Hermitian Approach to Non-Linear Switching Dynamics in Coupled Cavity-Waveguide Systems. , 2012, , .		1
26	Dual-resonances approach to broadband cavity-assisted optical signal processing beyond the carrier relaxation rate. Optics Letters, 2014, 39, 3189.	3.3	1
27	Numerical modeling in photonic crystals integrated technology: The COPERNICUS Project. , 2011, , .		0
28	Nonpeturbative cavity-QED between a single quantum dot and a metal nanoparticle. , 2012, , .		0
29	Improving nanocavity switching using Fano resonances in photonic crystal structures. , 2013, , .		0
30	Dual resonance approach to optical signal processing beyond the carrier relaxation rate. , 2014, , .		0
31	A Bloch modal approach for engineering waveguide and cavity modes in two-dimensional photonic crystals. , 2014, , .		0