

Philip TrÃ¸st Kristensen

List of Publications by Year in descending order

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Version: 2024-02-01

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	Cavity-induced exciton localization and polariton blockade in two-dimensional semiconductors coupled to an electromagnetic resonator. <i>Physical Review Research</i> , 2022, 4, .	3.6	7
2	Quantum theory of two-dimensional materials coupled to electromagnetic resonators. <i>Physical Review B</i> , 2022, 105, .	3.2	8
3	Enhanced Faraday rotation by dielectric metasurfaces with Bayesian shape-optimized scatterers. <i>Optics Letters</i> , 2021, 46, 1720.	3.3	8
4	Modeling electromagnetic resonators using quasinormal modes. <i>Advances in Optics and Photonics</i> , 2020, 12, 612.	25.5	76
5	Quantization of Quasinormal Modes for Open Cavities and Plasmonic Cavity Quantum Electrodynamics. <i>Physical Review Letters</i> , 2019, 122, 213901.	7.8	130
6	Reply to "Comment on "Normalization of quasinormal modes in leaky optical cavities and plasmonic resonators" . <i>Physical Review A</i> , 2017, 96, .	2.5	9
7	On the Theory of Coupled Modes in Optical Cavity-Waveguide Structures. <i>Journal of Lightwave Technology</i> , 2017, 35, 4247-4259.	4.6	29
8	Normalization of quasinormal modes in leaky optical cavities and plasmonic resonators. <i>Physical Review A</i> , 2015, 92, .	2.5	98
9	Semianalytical quasi-normal mode theory for the local density of states in coupled photonic crystal cavity-waveguide structures. <i>Optics Letters</i> , 2015, 40, 5790.	3.3	18
10	Scattering of two photons on a quantum emitter in a one-dimensional waveguide: exact dynamics and induced correlations. <i>New Journal of Physics</i> , 2015, 17, 023030.	2.9	35
11	Roundtrip matrix method for calculating the leaky resonant modes of open nanophotonic structures. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 2142.	1.5	26
12	Dual-resonances approach to broadband cavity-assisted optical signal processing beyond the carrier relaxation rate. <i>Optics Letters</i> , 2014, 39, 3189.	3.3	1
13	Calculation, normalization, and perturbation of quasinormal modes in coupled cavity-waveguide systems. <i>Optics Letters</i> , 2014, 39, 6359.	3.3	23
14	Quasinormal mode approach to modelling light-emission and propagation in nanoplasmonics. <i>New Journal of Physics</i> , 2014, 16, 113048.	2.9	94
15	Modes and Mode Volumes of Leaky Optical Cavities and Plasmonic Nanoresonators. <i>ACS Photonics</i> , 2014, 1, 2-10.	6.6	217
16	Dual resonance approach to optical signal processing beyond the carrier relaxation rate. , 2014, , .		0
17	A Bloch modal approach for engineering waveguide and cavity modes in two-dimensional photonic crystals. , 2014, , .		0
18	Improving nanocavity switching using Fano resonances in photonic crystal structures. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
19	Improved switching using Fano resonances in photonic crystal structures. Optics Letters, 2013, 38, 2466.	3.3	100
20	Switching characteristics of an InP photonic crystal nanocavity: Experiment and theory. Optics Express, 2013, 21, 31047.	3.4	50
21	Shell theorem for spontaneous emission. Physical Review B, 2013, 88, .	3.2	19
22	Optimal switching using coherent control. Applied Physics Letters, 2013, 102, .	3.3	12
23	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
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	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
27	Nonperturbative cavity-QED between a single quantum dot and a metal nanoparticle. , 2012, , .		0
28	Numerical modeling in photonic crystals integrated technology: The COPERNICUS Project. , 2011, , .		0
29	Energy-bandwidth trade-off in all-optical photonic crystal microcavity switches. Optics Express, 2011, 19, 18410.	3.4	22
30	Decay dynamics of radiatively coupled quantum dots in photonic crystal slabs. Physical Review B, 2011, 83, .	3.2	29
31	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