

Cristian CiracÃ

List of Publications by Year in descending order

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68
papers

4,623
citations

236833

25
h-index

149623

56
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69
all docs

69
docs citations

69
times ranked

4803
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical Calculation of the Light Propagation in Tapered Optical Fibers for Optical Neural Interfaces. <i>Journal of Lightwave Technology</i> , 2022, 40, 196-205.	2.7	3
2	Fluorescence quenching in plasmonic dimers due to electron tunneling. <i>Nanophotonics</i> , 2022, .	2.9	7
3	Holographic Manipulation of Nanostructured Fiber Optics Enables Spatially-Resolved, Reconfigurable Optical Control of Plasmonic Local Field Enhancement and SERS. <i>Small</i> , 2022, 18, e2200975.	5.2	3
4	Free electron harmonic generation in heavily doped semiconductors: the role of the materials properties. <i>EPJ Applied Metamaterials</i> , 2022, 9, 13.	0.8	3
5	Second-harmonic generation from singular metasurfaces. <i>Physical Review B</i> , 2022, 105, .	1.1	5
6	Second-harmonic generation in plasmonic waveguides with nonlocal response and electron spill-out. <i>Physical Review B</i> , 2022, 106, .	1.1	5
7	A nested hybridizable discontinuous Galerkin method for computing second-harmonic generation in three-dimensional metallic nanostructures. <i>Journal of Computational Physics</i> , 2021, 429, 110000.	1.9	7
8	Laplacian-Level Quantum Hydrodynamic Theory for Plasmonics. <i>Physical Review X</i> , 2021, 11, .	2.8	29
9	Free electron nonlinearities in heavily doped semiconductors plasmonics. <i>Physical Review B</i> , 2021, 103, .	1.1	13
10	Free electron cascaded third-harmonic generation. , 2021, , .		1
11	Influence of the electron spill-out and nonlocality on gap plasmons in the limit of vanishing gaps. <i>Physical Review B</i> , 2021, 104, .	1.1	4
12	Mode-Matching Enhancement of Second-Harmonic Generation with Plasmonic Nanopatch Antennas. <i>ACS Photonics</i> , 2020, 7, 3333-3340.	3.2	29
13	Enhancing second-harmonic generation with electron spill-out at metallic surfaces. <i>Communications Physics</i> , 2020, 3, .	2.0	13
14	Impact of Surface Roughness in Nanogap Plasmonic Systems. <i>ACS Photonics</i> , 2020, 7, 908-913.	3.2	25
15	Terahertz and infrared nonlocality and field saturation in extreme-scale nanoslits. <i>Optics Express</i> , 2020, 28, 8701.	1.7	4
16	Label-free biomechanical nanosensor based on LSPR for biological applications. <i>Optical Materials Express</i> , 2020, 10, 1264.	1.6	4
17	Plasmonic quantum effects on single-emitter strong coupling. <i>Nanophotonics</i> , 2019, 8, 1821-1833.	2.9	24
18	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. <i>Nature Communications</i> , 2019, 10, 4476.	5.8	26

#	ARTICLE	IF	CITATIONS
19	Numerical Analysis of Nonlocal Optical Response of Metallic Nanoshells. <i>Photonics</i> , 2019, 6, 39.	0.9	19
20	Difference-frequency generation in plasmonic nanostructures: a parameter-free hydrodynamic description. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1979.	0.9	14
21	Influence of spatial dispersion on surface plasmons, nanoparticles, and grating couplers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2989.	0.9	10
22	Nanowire-Enhanced Fluorescence in Hybrid Polymer-Plasmonic Electrospun Filaments. <i>Small</i> , 2018, 14, e1800187.	5.2	13
23	Optical properties of plasmonic core-shell nanomatryoshkas: a quantum hydrodynamic analysis. <i>Optics Express</i> , 2018, 26, 17322.	1.7	15
24	Plasmonic Nonlocal Response Effects on Dipole Decay Dynamics in the Weak- and Strong-Coupling Regimes. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22361-22368.	1.5	24
25	Current-dependent potential for nonlocal absorption in quantum hydrodynamic theory. <i>Physical Review B</i> , 2017, 95, .	1.1	55
26	Toward Cavity Quantum Electrodynamics with Hybrid Photon Gap-Plasmon States. <i>ACS Nano</i> , 2016, 10, 11360-11368.	7.3	53
27	Enhancement of radiative processes in nanofibers with embedded plasmonic nanoparticles. <i>Optics Letters</i> , 2016, 41, 1632.	1.7	2
28	Nonlocal Plasmonic Response and Fano Resonances at Visible Frequencies in Sub-Nanometer Gap Coupling Regime. <i>ACS Photonics</i> , 2016, 3, 2467-2474.	3.2	11
29	Quantum hydrodynamic theory for plasmonics: Impact of the electron density tail. <i>Physical Review B</i> , 2016, 93, .	1.1	122
30	Plasmonic luminescence enhancement by metal nanoparticles embedded in nanofibers. , 2016, , .		0
31	Influence of spatial dispersion in metals on the optical response of deeply subwavelength slit arrays. <i>Physical Review B</i> , 2016, 93, .	1.1	15
32	Third-harmonic generation in the presence of classical nonlocal effects in gap-plasmon nanostructures. <i>Physical Review B</i> , 2015, 91, .	1.1	38
33	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. <i>Optical Materials Express</i> , 2015, 5, 2682.	1.6	20
34	Directional plasmonic nanoantennas to enhance the purcell effect. , 2015, , .		0
35	Plasmonic Nanopatch Antennas for Large Purcell Enhancement. , 2015, , .		0
36	Numerical tool to take nonlocal effects into account in metallo-dielectric multilayers. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015, 32, 1581.	0.8	35

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37	Nanogap-Enhanced Infrared Spectroscopy with Template-Stripped Wafer-Scale Arrays of Buried Plasmonic Cavities. <i>Nano Letters</i> , 2015, 15, 107-113.	4.5	135
38	Studying the Interplay of Electric and Magnetic Resonance-Enhanced Second Harmonic Generation: Theory and Experiments. , 2015, , .		0
39	Numerical studies of the modification of photodynamic processes by film-coupled plasmonic nanoparticles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2601.	0.9	30
40	Second Harmonic Generation by Metamagnetics: Interplay of Electric and Magnetic Resonances. , 2014, , .		0
41	Tunable plasmonic platform for giant fluorescence enhancement. , 2014, , .		0
42	Giant fluorescence enhancement of molecules coupled to plasmonic nanoscale patch antennas. , 2014, , .		1
43	Enhanced optical bistability with film-coupled plasmonic nanocubes. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	46
44	Film-coupled nanoparticles by atomic layer deposition: Comparison with organic spacing layers. <i>Applied Physics Letters</i> , 2014, 104, 023109.	1.5	48
45	Third-Harmonic Generation Enhancement by Film-Coupled Plasmonic Stripe Resonators. <i>ACS Photonics</i> , 2014, 1, 1212-1217.	3.2	112
46	Probing the mechanisms of large Purcell enhancement in plasmonic nanoantennas. <i>Nature Photonics</i> , 2014, 8, 835-840.	15.6	849
47	Control of Radiative Processes Using Tunable Plasmonic Nanopatch Antennas. <i>Nano Letters</i> , 2014, 14, 4797-4802.	4.5	191
48	Quasi-analytic study of scattering from optical plasmonic patch antennas. <i>Journal of Applied Physics</i> , 2013, 114, 163108.	1.1	31
49	Impact of nonlocal response on metallodielectric multilayers and optical patch antennas. <i>Physical Review B</i> , 2013, 87, .	1.1	99
50	Hydrodynamic Model for Plasmonics: A Macroscopic Approach to a Microscopic Problem. <i>ChemPhysChem</i> , 2013, 14, 1109-1116.	1.0	158
51	Optical time reversal with graphene. <i>Nature Physics</i> , 2013, 9, 393-394.	6.5	9
52	Plasmonic Waveguide Modes of Film-Coupled Metallic Nanocubes. <i>Nano Letters</i> , 2013, 13, 5866-5872.	4.5	238
53	Effects of classical nonlocality on the optical response of three-dimensional plasmonic nanodimers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2731.	0.9	28
54	Far-field analysis of axially symmetric three-dimensional directional cloaks. <i>Optics Express</i> , 2013, 21, 9397.	1.7	28

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55	Surfaces, films, and multilayers for compact nonlinear plasmonics. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2999.	0.9	11
56	Enhancing four-wave-mixing processes by nanowire arrays coupled to a gold film. Optics Express, 2012, 20, 11005.	1.7	27
57	Controlled-reflectance surfaces with film-coupled colloidal nanoantennas. Nature, 2012, 492, 86-89.	13.7	639
58	Probing the Ultimate Limits of Plasmonic Enhancement. Science, 2012, 337, 1072-1074.	6.0	981
59	Second-harmonic generation in metallic nanoparticles: Clarification of the role of the surface. Physical Review B, 2012, 86, .	1.1	110
60	Origin of second-harmonic generation enhancement in optical split-ring resonators. Physical Review B, 2012, 85, .	1.1	157
61	Plasmonic Nanocomposites for Enhanced Four-Wave Mixing Generation. , 2011, , .		0
62	Second harmonic generation in random nanostructures. , 2010, , .		0
63	Localizing and focusing second-harmonic emission with nonlinear metamaterials. , 2010, , .		0
64	Sub-wavelength light localization in nanorod chain enhances second-harmonic generation. Optics Express, 2010, 18, 15377.	1.7	1
65	Second harmonic generation in a generic negative index medium. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1671.	0.9	16
66	Focusing of Second-Harmonic Signals with Nonlinear Metamaterial Lenses: A Biphotonic Microscopy Approach. Physical Review Letters, 2009, 103, 063901.	2.9	12
67	Theory of backward second-harmonic localization in nonlinear left-handed media. Physical Review B, 2008, 78, .	1.1	14
68	Second harmonic localization in nonlinear photonic crystals. , 2008, , .		1