

Cristian CiracÃ

List of Publications by Year in descending order

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68
papers

4,623
citations

236925
25
h-index

149698
56
g-index

69
all docs

69
docs citations

69
times ranked

4803
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the Ultimate Limits of Plasmonic Enhancement. <i>Science</i> , 2012, 337, 1072-1074.	12.6	981
2	Probing the mechanisms of large Purcell enhancement in plasmonic nanoantennas. <i>Nature Photonics</i> , 2014, 8, 835-840.	31.4	849
3	Controlled-reflectance surfaces with film-coupled colloidal nanoantennas. <i>Nature</i> , 2012, 492, 86-89.	27.8	639
4	Plasmonic Waveguide Modes of Film-Coupled Metallic Nanocubes. <i>Nano Letters</i> , 2013, 13, 5866-5872.	9.1	238
5	Control of Radiative Processes Using Tunable Plasmonic Nanopatch Antennas. <i>Nano Letters</i> , 2014, 14, 4797-4802.	9.1	191
6	Hydrodynamic Model for Plasmonics: A Macroscopic Approach to a Microscopic Problem. <i>ChemPhysChem</i> , 2013, 14, 1109-1116.	2.1	158
7	Origin of second-harmonic generation enhancement in optical split-ring resonators. <i>Physical Review B</i> , 2012, 85, .	3.2	157
8	Nanogap-Enhanced Infrared Spectroscopy with Template-Stripped Wafer-Scale Arrays of Buried Plasmonic Cavities. <i>Nano Letters</i> , 2015, 15, 107-113.	9.1	135
9	Quantum hydrodynamic theory for plasmonics: Impact of the electron density tail. <i>Physical Review B</i> , 2016, 93, .	3.2	122
10	Third-Harmonic Generation Enhancement by Film-Coupled Plasmonic Stripe Resonators. <i>ACS Photonics</i> , 2014, 1, 1212-1217.	6.6	112
11	Second-harmonic generation in metallic nanoparticles: Clarification of the role of the surface. <i>Physical Review B</i> , 2012, 86, .	3.2	110
12	Impact of nonlocal response on metallodielectric multilayers and optical patch antennas. <i>Physical Review B</i> , 2013, 87, .	3.2	99
13	Current-dependent potential for nonlocal absorption in quantum hydrodynamic theory. <i>Physical Review B</i> , 2017, 95, .	3.2	55
14	Toward Cavity Quantum Electrodynamics with Hybrid Photon Gap-Plasmon States. <i>ACS Nano</i> , 2016, 10, 11360-11368.	14.6	53
15	Film-coupled nanoparticles by atomic layer deposition: Comparison with organic spacing layers. <i>Applied Physics Letters</i> , 2014, 104, 023109.	3.3	48
16	Enhanced optical bistability with film-coupled plasmonic nanocubes. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	46
17	Third-harmonic generation in the presence of classical nonlocal effects in gap-plasmon nanostructures. <i>Physical Review B</i> , 2015, 91, .	3.2	38
18	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.	1.5	35

#	ARTICLE	IF	CITATIONS
19	Quasi-analytic study of scattering from optical plasmonic patch antennas. Journal of Applied Physics, 2013, 114, 163108.	2.5	31
20	Numerical studies of the modification of photodynamic processes by film-coupled plasmonic nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2601.	2.1	30
21	Mode-Matching Enhancement of Second-Harmonic Generation with Plasmonic Nanopatch Antennas. ACS Photonics, 2020, 7, 3333-3340.	6.6	29
22	Laplacian-Level Quantum Hydrodynamic Theory for Plasmonics. Physical Review X, 2021, 11, .	8.9	29
23	Effects of classical nonlocality on the optical response of three-dimensional plasmonic nanodimers. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2731.	2.1	28
24	Far-field analysis of axially symmetric three-dimensional directional cloaks. Optics Express, 2013, 21, 9397.	3.4	28
25	Enhancing four-wave-mixing processes by nanowire arrays coupled to a gold film. Optics Express, 2012, 20, 11005.	3.4	27
26	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. Nature Communications, 2019, 10, 4476.	12.8	26
27	Impact of Surface Roughness in Nanogap Plasmonic Systems. ACS Photonics, 2020, 7, 908-913.	6.6	25
28	Plasmonic Nonlocal Response Effects on Dipole Decay Dynamics in the Weak- and Strong-Coupling Regimes. Journal of Physical Chemistry C, 2017, 121, 22361-22368.	3.1	24
29	Plasmonic quantum effects on single-emitter strong coupling. Nanophotonics, 2019, 8, 1821-1833.	6.0	24
30	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. Optical Materials Express, 2015, 5, 2682.	3.0	20
31	Numerical Analysis of Nonlocal Optical Response of Metallic Nanoshells. Photonics, 2019, 6, 39.	2.0	19
32	Second harmonic generation in a generic negative index medium. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1671.	2.1	16
33	Influence of spatial dispersion in metals on the optical response of deeply subwavelength slit arrays. Physical Review B, 2016, 93, .	3.2	15
34	Optical properties of plasmonic core-shell nanomatryoshkas: a quantum hydrodynamic analysis. Optics Express, 2018, 26, 17322.	3.4	15
35	Theory of backward second-harmonic localization in nonlinear left-handed media. Physical Review B, 2008, 78, .	3.2	14
36	Difference-frequency generation in plasmonic nanostructures: a parameter-free hydrodynamic description. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1979.	2.1	14

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37	Nanowire-Enhanced Fluorescence in Hybrid Polymer-Plasmonic Electrospun Filaments. <i>Small</i> , 2018, 14, e1800187.	10.0	13
38	Enhancing second-harmonic generation with electron spill-out at metallic surfaces. <i>Communications Physics</i> , 2020, 3, .	5.3	13
39	Free electron nonlinearities in heavily doped semiconductors plasmonics. <i>Physical Review B</i> , 2021, 103, .	3.2	13
40	Focusing of Second-Harmonic Signals with Nonlinear Metamaterial Lenses: A Biphotonic Microscopy Approach. <i>Physical Review Letters</i> , 2009, 103, 063901.	7.8	12
41	Surfaces, films, and multilayers for compact nonlinear plasmonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2999.	2.1	11
42	Nonlocal Plasmonic Response and Fano Resonances at Visible Frequencies in Sub-Nanometer Gap Coupling Regime. <i>ACS Photonics</i> , 2016, 3, 2467-2474.	6.6	11
43	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.	2.1	10
44	Optical time reversal with graphene. <i>Nature Physics</i> , 2013, 9, 393-394.	16.7	9
45	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.	3.8	7
46	Fluorescence quenching in plasmonic dimers due to electron tunneling. <i>Nanophotonics</i> , 2022, .	6.0	7
47	Second-harmonic generation from singular metasurfaces. <i>Physical Review B</i> , 2022, 105, .	3.2	5
48	Second-harmonic generation in plasmonic waveguides with nonlocal response and electron spill-out. <i>Physical Review B</i> , 2022, 106, .	3.2	5
49	Terahertz and infrared nonlocality and field saturation in extreme-scale nanoslits. <i>Optics Express</i> , 2020, 28, 8701.	3.4	4
50	Label-free biomechanical nanosensor based on LSPR for biological applications. <i>Optical Materials Express</i> , 2020, 10, 1264.	3.0	4
51	Influence of the electron spill-out and nonlocality on gap plasmons in the limit of vanishing gaps. <i>Physical Review B</i> , 2021, 104, .	3.2	4
52	Numerical Calculation of the Light Propagation in Tapered Optical Fibers for Optical Neural Interfaces. <i>Journal of Lightwave Technology</i> , 2022, 40, 196-205.	4.6	3
53	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.	10.0	3
54	Free electron harmonic generation in heavily doped semiconductors: the role of the materials properties. <i>EPL Applied Metamaterials</i> , 2022, 9, 13.	1.5	3

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55	Enhancement of radiative processes in nanofibers with embedded plasmonic nanoparticles. Optics Letters, 2016, 41, 1632.	3.3	2
56	Second harmonic localization in nonlinear photonic crystals. , 2008, , .		1
57	Sub-wavelength light localization in nanorod chain enhances second-harmonic generation. Optics Express, 2010, 18, 15377.	3.4	1
58	Giant fluorescence enhancement of molecules coupled to plasmonic nanoscale patch antennas. , 2014, , .		1
59	Free electron cascaded third-harmonic generation. , 2021, , .		1
60	Second harmonic generation in random nanostructures. , 2010, , .		0
61	Localizing and focusing second-harmonic emission with nonlinear metamaterials. , 2010, , .		0
62	Second Harmonic Generation by Metamagnetics: Interplay of Electric and Magnetic Resonances. , 2014, , .		0
63	Tunable plasmonic platform for giant fluorescence enhancement. , 2014, , .		0
64	Directional plasmonic nanoantennas to enhance the purcell effect. , 2015, , .		0
65	Plasmonic Nanopatch Antennas for Large Purcell Enhancement. , 2015, , .		0
66	Plasmonic luminescence enhancement by metal nanoparticles embedded in nanofibers. , 2016, , .		0
67	Plasmonic Nanocomposits for Enhanced Four-Wave Mixing Generation. , 2011, , .		0
68	Studying the Interplay of Electric and Magnetic Resonance-Enhanced Second Harmonic Generation: Theory and Experiments. , 2015, , .		0