

Cristian Cirac

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8784215/cristian-ciraci-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51
papers

3,614
citations

23
h-index

60
g-index

69
ext. papers

4,221
ext. citations

6.8
avg, IF

5.46
L-index

#	Paper	IF	Citations
51	Probing the ultimate limits of plasmonic enhancement. <i>Science</i> , 2012 , 337, 1072-4	33.3	814
50	Probing the mechanisms of large Purcell enhancement in plasmonic nanoantennas. <i>Nature Photonics</i> , 2014 , 8, 835-840	33.9	655
49	Controlled-reflectance surfaces with film-coupled colloidal nanoantennas. <i>Nature</i> , 2012 , 492, 86-9	50.4	540
48	Plasmonic waveguide modes of film-coupled metallic nanocubes. <i>Nano Letters</i> , 2013 , 13, 5866-72	11.5	189
47	Control of radiative processes using tunable plasmonic nanopatch antennas. <i>Nano Letters</i> , 2014 , 14, 4797-802	11.5	152
46	Origin of second-harmonic generation enhancement in optical split-ring resonators. <i>Physical Review B</i> , 2012 , 85,	3.3	114
45	Nanogap-enhanced infrared spectroscopy with template-stripped wafer-scale arrays of buried plasmonic cavities. <i>Nano Letters</i> , 2015 , 15, 107-13	11.5	113
44	Hydrodynamic model for plasmonics: a macroscopic approach to a microscopic problem. <i>ChemPhysChem</i> , 2013 , 14, 1109-16	3.2	113
43	Third-Harmonic Generation Enhancement by Film-Coupled Plasmonic Stripe Resonators. <i>ACS Photonics</i> , 2014 , 1, 1212-1217	6.3	96
42	Second-harmonic generation in metallic nanoparticles: Clarification of the role of the surface. <i>Physical Review B</i> , 2012 , 86,	3.3	90
41	Quantum hydrodynamic theory for plasmonics: Impact of the electron density tail. <i>Physical Review B</i> , 2016 , 93,	3.3	80
40	Impact of nonlocal response on metalodielectric multilayers and optical patch antennas. <i>Physical Review B</i> , 2013 , 87,	3.3	77
39	Toward Cavity Quantum Electrodynamics with Hybrid Photon Gap-Plasmon States. <i>ACS Nano</i> , 2016 , 10, 11360-11368	16.7	47
38	Film-coupled nanoparticles by atomic layer deposition: Comparison with organic spacing layers. <i>Applied Physics Letters</i> , 2014 , 104, 023109	3.4	45
37	Current-dependent potential for nonlocal absorption in quantum hydrodynamic theory. <i>Physical Review B</i> , 2017 , 95,	3.3	42
36	Enhanced optical bistability with film-coupled plasmonic nanocubes. <i>Applied Physics Letters</i> , 2014 , 104, 063108	3.4	41
35	Quasi-analytic study of scattering from optical plasmonic patch antennas. <i>Journal of Applied Physics</i> , 2013 , 114, 163108	2.5	30

34	Third-harmonic generation in the presence of classical nonlocal effects in gap-plasmon nanostructures. <i>Physical Review B</i> , 2015 , 91,	3.3	30
33	Enhancing four-wave-mixing processes by nanowire arrays coupled to a gold film. <i>Optics Express</i> , 2012 , 20, 11005-13	3.3	27
32	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	1.7	25
31	Far-field analysis of axially symmetric three-dimensional directional cloaks. <i>Optics Express</i> , 2013 , 21, 9397-406	3.5	24
30	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, 1581-8	1.8	23
29	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	1.7	23
28	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	3.8	18
27	Modeling and observation of mid-infrared nonlocality in effective epsilon-near-zero ultranarrow coaxial apertures. <i>Nature Communications</i> , 2019 , 10, 4476	17.4	17
26	Second harmonic generation with plasmonic metasurfaces: direct comparison of electric and magnetic resonances. <i>Optical Materials Express</i> , 2015 , 5, 2682	2.6	17
25	Impact of Surface Roughness in Nanogap Plasmonic Systems. <i>ACS Photonics</i> , 2020 , 7, 908-913	6.3	14
24	Plasmonic quantum effects on single-emitter strong coupling. <i>Nanophotonics</i> , 2019 , 8, 1821-1833	6.3	13
23	Second harmonic generation in a generic negative index medium. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, 1671	1.7	13
22	Theory of backward second-harmonic localization in nonlinear left-handed media. <i>Physical Review B</i> , 2008 , 78,	3.3	13
21	Numerical Analysis of Nonlocal Optical Response of Metallic Nanoshells. <i>Photonics</i> , 2019 , 6, 39	2.2	12
20	Influence of spatial dispersion in metals on the optical response of deeply subwavelength slit arrays. <i>Physical Review B</i> , 2016 , 93,	3.3	12
19	Optical properties of plasmonic core-shell nanomatryoshkas: a quantum hydrodynamic analysis. <i>Optics Express</i> , 2018 , 26, 17322-17334	3.3	12
18	Surfaces, films, and multilayers for compact nonlinear plasmonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2999	1.7	11
17	Focusing of second-harmonic signals with nonlinear metamaterial lenses: a biphotonic microscopy approach. <i>Physical Review Letters</i> , 2009 , 103, 063901	7.4	11

16	Nanowire-Intensified Metal-Enhanced Fluorescence in Hybrid Polymer-Plasmonic Electrospun Filaments. <i>Small</i> , 2018 , 14, e1800187	11	10
15	Nonlocal Plasmonic Response and Fano Resonances at Visible Frequencies in Sub-Nanometer Gap Coupling Regime. <i>ACS Photonics</i> , 2016 , 3, 2467-2474	6.3	8
14	Laplacian-Level Quantum Hydrodynamic Theory for Plasmonics. <i>Physical Review X</i> , 2021 , 11,	9.1	8
13	Mode-Matching Enhancement of Second-Harmonic Generation with Plasmonic Nanopatch Antennas. <i>ACS Photonics</i> , 2020 , 7, 3333-3340	6.3	5
12	Enhancing second-harmonic generation with electron spill-out at metallic surfaces. <i>Communications Physics</i> , 2020 , 3,	5.4	5
11	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	1.7	4
10	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	1.7	3
9	Label-free biomechanical nanosensor based on LSPR for biological applications. <i>Optical Materials Express</i> , 2020 , 10, 1264	2.6	3
8	Terahertz and infrared nonlocality and field saturation in extreme-scale nanoslits. <i>Optics Express</i> , 2020 , 28, 8701-8715	3.3	2
7	Enhancement of radiative processes in nanofibers with embedded plasmonic nanoparticles. <i>Optics Letters</i> , 2016 , 41, 1632-5	3	2
6	Giant fluorescence enhancement of molecules coupled to plasmonic nanoscale patch antennas 2014 ,		1
5	Sub-wavelength light localization in nanorod chain enhances second-harmonic generation. <i>Optics Express</i> , 2010 , 18, 15377-82	3.3	1
4	Second harmonic localization in nonlinear photonic crystals 2008 ,		1
3	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	0
2	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	4.1	0
1	Holographic Manipulation of Nanostructured Fiber Optics Enables Spatially-Resolved, Reconfigurable Optical Control of Plasmonic Local Field Enhancement and SERS.. <i>Small</i> , 2022 , e2200975 ¹¹		