# Carlo Forestiere

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 59 papers | 1,174 citations | 331670 21 h-index | 395702 33 g-index |
| 60 all docs | 60 docs citations | 60 times ranked | 1624 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Genetically Engineered Plasmonic Nanoarrays. Nano Letters, 2012, 12, 2037-2044. | 9.1 | 102 |
| 2 | Particle-swarm optimization of broadband nanoplasmonic arrays. Optics Letters, 2010, 35, 133. | 3.3 | 81 |
| 3 | Photonicâ€“Plasmonic Coupling of GaAs Single Nanowires to Optical Nanoantennas. Nano Letters, 2014, 14, 2271-2278. | 9.1 | 73 |
| 4 | The role of nanoparticle shapes and deterministic aperiodicity for the design of nanoplasmonic arrays. Optics Express, 2009, 17, 9648. | 3.4 | 54 |
| 5 | Signal Propagation in Carbon Nanotubes of Arbitrary Chirality. IEEE Nanotechnology Magazine, 2011, 10, 135-149. | 2.0 | 53 |
| 6 | Theory of coupled plasmon modes and Fano-like resonances in subwavelength metal structures. Physical Review B, 2013, 88, . | 3.2 | 53 |
| 7 | Multipolar second harmonic generation from planar arrays of Au nanoparticles. Optics Express, 2012, 20, 15797. | 3.4 | 43 |
| 8 | Vertical â€œIIIâ€“Vâ€•V-Shaped Nanomembranes Epitaxially Grown on a Patterned Si[001] Substrate and Their Enhanced Light Scattering. ACS Nano, 2012, 6, 10982-10991. | 14.6 | 41 |
| 9 | A novel formulation for the numerical computation of magnetization modes in complex micromagnetic systems. Journal of Computational Physics, 2009, 228, 6130-6149. | 3.8 | 39 |
| 10 | Size-dependent second-harmonic generation from gold nanoparticles. Physical Review B, 2014, 89, . | 3.2 | 38 |
| 11 | Role of aperiodic order in the spectral, localization, and scaling properties of plasmon modes for the design of nanoparticle arrays. Physical Review B, 2009, 79, . | 3.2 | 35 |
| 12 | Plasmonic-photonic arrays with aperiodic spiral order for ultra-thin film solar cells. Optics Express, 2012, 20, A418. | 3.4 | 34 |
| 13 | Surface integral method for second harmonic generation in metal nanoparticles including both local-surface and nonlocal-bulk sources. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2355. | 2.1 | 34 |
| 14 | Inverse Design of Metal Nanoparticlesâ€™ Morphology. ACS Photonics, 2016, 3, 68-78. | 6.6 | 33 |
| 15 | Surface integral formulations for the design of plasmonic nanostructures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2314. | 1.5 | 32 |
| 16 | Recent Advances in the Fabrication and Functionalization of Flexible Optical Biosensors: Toward Smart Life-Sciences Applications. Biosensors, 2021, 11, 107. | 4.7 | 31 |
| 17 | On the Evaluation of the Number of Conducting Channels in Multiwall Carbon Nanotubes. IEEE Nanotechnology Magazine, 2011, 10, 1221-1223. | 2.0 | 25 |
| 18 | Transmission-Line Model for Multiwall Carbon Nanotubes With Intershell Tunneling. IEEE Nanotechnology Magazine, 2012, 11, 554-564. | 2.0 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Full-Wave Analytical Solution of Second-Harmonic Generation in Metal Nanospheres. Plasmonics, 2014, 9, 151-166. | 3.4 | 24 |
| 20 | Full-wave electromagnetic modes and hybridization in nanoparticle dimers. Scientific Reports, 2019, 9, 14524. | 3.3 | 23 |
| 21 | Plasmon-enhanced structural coloration of metal films with isotropic Pinwheel nanoparticle arrays. Optics Express, 2011, 19, 23818. | 3.4 | 22 |
| 22 | Enhancement of Molecular Fluorescence in the UV Spectral Range Using Aluminum Nanoantennas. Plasmonics, 2014, 9, 715-725. | 3.4 | 21 |
| 23 | Material-independent modes for electromagnetic scattering. Physical Review B, 2016, 94, . | 3.2 | 21 |
| 24 | Hydrodynamic model for the signal propagation along carbon nanotubes. Journal of Nanophotonics, 2010, 4, 041695. | 1.0 | 20 |
| 25 | Nanoplasmonics of prime number arrays. Optics Express, 2009, 17, 24288. | 3.4 | 19 |
| 26 | Plasmon-enhanced depolarization of reflected light from arrays of nanoparticle dimers. Optics Express, 2011, 19, 21081. | 3.4 | 16 |
| 27 | Near-field calculation based on the T-matrix method with discrete sources. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 2384-2394. | 2.3 | 16 |
| 28 | Design of Gelatin-Capped Plasmonic-Diatomite Nanoparticles with Enhanced Galunisertib Loading Capacity for Drug Delivery Applications. International Journal of Molecular Sciences, 2021, 22, 10755. | 4.1 | 16 |
| 29 | Enhanced second harmonic generation from InAs nano-wing structures on silicon. Nanoscale, 2013, 5, 10163. | 5.6 | 15 |
| 30 | Volume Integral Formulation for the Calculation of Material Independent Modes of Dielectric Scatterers. IEEE Transactions on Antennas and Propagation, 2018, 66, 2505-2514. | 5.1 | 14 |
| 31 | A Frequency Stable Volume Integral Equation Method for Anisotropic Scatterers. IEEE Transactions on Antennas and Propagation, 2017, 65, 1224-1235. | 5.1 | 11 |
| 32 | Electromagnetic modes and resonances of two-dimensional bodies. Physical Review B, 2019, 99, . | 3.2 | 10 |
| 33 | Magnetoquasistatic resonances of small dielectric objects. Physical Review Research, 2020, 2, . | 3.6 | 9 |
| 34 | Spectral theory of electromagnetic scattering by a coated sphere. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1524. | 2.1 | 8 |
| 35 | H<sup>3</sup> (Hydrogelâ€Based, Highâ€Sensitivity, Hybrid) Plasmonic Transducers for Biomolecular Interactions Monitoring. Advanced Materials Technologies, 2022, 7, . | 5.8 | 8 |
| 36 | Dipolar mode localization and spectral gaps in quasi-periodic arrays of ferromagnetic nanoparticles. Physical Review B, 2009, 79, . | 3.2 | 7 |

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|---|---|---|---|
| 37 | GPU-accelerated T-matrix algorithm for light-scattering simulations. Journal of Computational Physics, 2012, 231, 5640-5652. | 3.8 | 7 |
| 38 | On the nanoparticle resonances in the full-retarded regime. Journal of Optics (United Kingdom), 2017, 19, 075601. | 2.2 | 6 |
| 39 | Quantum theory of radiative decay rate and frequency shift of surface plasmon modes. Physical Review A, 2020, 102, . | 2.5 | 6 |
| 40 | Radiative properties of diffractively-coupled optical nano-antennas with helical geometry. Optics Express, 2015, 23, 25496. | 3.4 | 5 |
| 41 | Time-domain formulation of electromagnetic scattering based on a polarization-mode expansion and the principle of least action. Physical Review A, 2021, 104, . | 2.5 | 5 |
| 42 | Finite element computations of resonant modes for small magnetic particles. Journal of Applied Physics, 2009, 105, . | 2.5 | 4 |
| 43 | Cloaking of arbitrarily shaped objects with homogeneous coatings. Physical Review B, 2014, 89, . | 3.2 | 4 |
| 44 | On small signal equivalent circuit models for quantum dots. International Journal of Circuit Theory and Applications, 2017, 45, 935-950. | 2.0 | 4 |
| 45 | Simple Theoretical Considerations for Blockâ€Copolymerâ€Based Plasmonic Metamaterials. Macromolecular Symposia, 2016, 359, 72-78. | 0.7 | 3 |
| 46 | Bandwidth of Singular Plasmonic Resonators in Relation to the Chu Limit. ACS Photonics, 2021, 8, 3249-3260. | 6.6 | 3 |
| 47 | Block-copolymer-based plasmonic metamaterials. , 2013, , . | | 2 |
| 48 | Scattering properties of carbon nanotubes. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1793-1808. | 0.9 | 2 |
| 49 | A Full-Retarded Spectral Technique for the Analysis of Fano Resonances in a Dielectric Nanosphere. Springer Series in Optical Sciences, 2018, , 185-218. | 0.7 | 2 |
| 50 | Electromagnetic Scattering Resonances of Quasi-1-D Nanoribbons. IEEE Transactions on Antennas and Propagation, 2019, 67, 5497-5506. | 5.1 | 2 |
| 51 | Directional scattering cancellation for an electrically large dielectric sphere. Optics Letters, 2019, 44, 1972. | 3.3 | 2 |
| 52 | Scattering properties of carbon nanotube arrays. International Journal of Microwave and Wireless Technologies, 2010, 2, 445-452. | 1.9 | 1 |
| 53 | Electrical Propagation Models for Single- and Multi-Wall Carbon Nanotubes. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 12-16. | 0.5 | 1 |
| 54 | Broadband and wide-angle scattering in aperiodic spiral arrays for ultra-thin film solar cells enhancement. , 2012, , . | | 0 |

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|---|---|---|---|
| 55 | Plasmon-enhanced Isotropic Structural Coloration of Metal Films with Homogenized Pinwheel Nanoparticle Arrays. , 2012, , . | | 0 |
| 56 | Electromagnetic Scattering by Networks of High-Permittivity Thin Wires. Physical Review Applied, 2021, 16, . | 3.8 | 0 |
| 57 | Genetically Engineered Plasmonic Nano-Arrays. , 2012, , . | | 0 |
| 58 | Aperiodic Order in Nanoplasmonics. Challenges and Advances in Computational Chemistry and Physics, 2013, , 329-377. | 0.6 | 0 |
| 59 | Plasmonic Hydrogel Nanocomposites with Combined Optical and Mechanical Properties for Biochemical Sensing. , 2021, 5, . | | 0 |