

Alessandro Belardini

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

1,476
citations

257450

24
h-index

395702

33
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107
all docs

107
docs citations

107
times ranked

1536
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Characterization of Chirality in Diffractive Metasurfaces by Photothermal Deflection Technique. Applied Sciences (Switzerland), 2022, 12, 1109. | 2.5 | 4 |
| 2 | Broadband optical spin dependent reflection in self-assembled GaAs-based nanowires asymmetrically hybridized with Au. Scientific Reports, 2021, 11, 4316. | 3.3 | 8 |
| 3 | Photo-deflection technique for characterization of chirality in diffractive metasurfaces. , 2021, , . | | 0 |
| 4 | Rich Broadband Chiral Behavior in Low-cost Plasmonic Nanostructures. , 2021, , . | | 0 |
| 5 | Rich Near-Infrared Chiral Behavior in Diffractive Metasurfaces. Physical Review Applied, 2021, 16, . | 3.8 | 16 |
| 6 | Diffracted Beams from Metasurfaces: High Chiral Detectivity by Photothermal Deflection Technique. Advanced Optical Materials, 2021, 9, 2100670. | 7.3 | 16 |
| 7 | Fluorescence Spectroscopy of Enantiomeric Amide Compounds Enforced by Chiral Light. Applied Sciences (Switzerland), 2021, 11, 11375. | 2.5 | 4 |
| 8 | Chiral effects in low-cost plasmonic arrays of elliptic nanoholes. Optical and Quantum Electronics, 2020, 52, 1. | 3.3 | 17 |
| 9 | Circular Dichroism in the Second Harmonic Field Evidenced by Asymmetric Au Coated GaAs Nanowires. Micromachines, 2020, 11, 225. | 2.9 | 8 |
| 10 | Circular Dichroism in Low-Cost Plasmonics: 2D Arrays of Nanoholes in Silver. Applied Sciences (Switzerland), 2020, 10, 1316. | 2.5 | 21 |
| 11 | New Self-Organization Route to Tunable Narrowband Optical Filters and Polarizers Demonstrated with ZnO/ZnWO ₄ Eutectic Composite. Advanced Optical Materials, 2020, 8, 1901617. | 7.3 | 19 |
| 12 | Hybrid Metal-Polystyrene Metasurfaces: Circular Dichroism Evidenced by Means of Photo-Acoustic Technique. , 2019, , . | | 0 |
| 13 | Nonlinear Chiroptical Response of GaAs Nanowires Partially Covered by Au. , 2019, , . | | 0 |
| 14 | Addressable Refraction and Curved Soliton Waveguides Using Electric Interfaces. Applied Sciences (Switzerland), 2019, 9, 347. | 2.5 | 4 |
| 15 | Photo-acoustic detection of chirality in metal-polystyrene metasurfaces. Applied Physics Letters, 2019, 114, 053101. | 3.3 | 31 |
| 16 | Resonant Absorption in GaAs-Based Nanowires by Means of Photo-Acoustic Spectroscopy. International Journal of Thermophysics, 2018, 39, 1. | 2.1 | 14 |
| 17 | All-Optical Reinforcement Learning In Solitonic X-Junctions. Scientific Reports, 2018, 8, 5716. | 3.3 | 13 |
| 18 | Photo-Acoustic Spectroscopy Reveals Extrinsic Optical Chirality in GaAs-Based Nanowires Partially Covered with Gold. International Journal of Thermophysics, 2018, 39, 1. | 2.1 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Second Harmonic Generation Circular Dichroism in Au Coated GaAs-based Nanowires. , 2018, , . | | 0 |
| 20 | Photoacoustic Spectroscopy Investigation of Zinc Oxide/Diatom Frustules Hybrid Powders. International Journal of Thermophysics, 2018, 39, 1. | 2.1 | 25 |
| 21 | Novel paradigm for integrated photonics circuits: transient interconnection network. , 2017, , . | | 4 |
| 22 | Evidence of Optical Circular Dichroism in GaAs-Based Nanowires Partially Covered with Gold. Advanced Optical Materials, 2017, 5, 1601063. | 7.3 | 35 |
| 23 | Second harmonic generation on self-assembled GaAs/Au nanowires with thickness gradient. Proceedings of SPIE, 2017, , . | 0.8 | 1 |
| 24 | Hybrid metal-organic conductive network with plasmonic nanoparticles and fluorene (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | | |
| 25 | Self-Phase-Matched Second-Harmonic and White-Light Generation in a Biaxial Zinc Tungstate Single Crystal. Scientific Reports, 2017, 7, 45247. | 3.3 | 5 |
| 26 | Self-Assembled Silver-Germanium Nanolayer Metamaterial with the Enhanced Nonlinear Response. Advanced Optical Materials, 2017, 5, 1700753. | 7.3 | 16 |
| 27 | Precise detection of circular dichroism in a cluster of nano-helices by photoacoustic measurements. Scientific Reports, 2017, 7, 5257. | 3.3 | 27 |
| 28 | Electronic Properties of a Functionalized Noble Metal Nanoparticles Covalent Network. Journal of Physical Chemistry C, 2017, 121, 18110-18119. | 3.1 | 44 |
| 29 | Diatom frustules decorated with zinc oxide nanoparticles for enhanced optical properties. Nanotechnology, 2017, 28, 375704. | 2.6 | 29 |
| 30 | Photo-acoustic spectroscopy revealing resonant absorption of self-assembled GaAs-based nanowires. Scientific Reports, 2017, 7, 2833. | 3.3 | 31 |
| 31 | Chiral near-field manipulation in Au-GaAs hybrid hexagonal nanowires. Optics Express, 2017, 25, 14148. | 3.4 | 22 |
| 32 | GaAs-based nanowires partially covered with gold give rise to optical circular dichroism. , 2017, , . | | 0 |
| 33 | Extrinsic optical chirality and resonant absorption in GaAs-based nanowires investigated by photo-acoustic spectroscopy. , 2017, , . | | 0 |
| 34 | Photo-acoustic Spectroscopy of Resonant Absorption in III-V Semiconductor Nanowires. , 2017, , . | | 0 |
| 35 | Effective chiral behavior on self-assembled tilted gold nanowires metasurface by means of linear and nonlinear optical techniques. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 36 | Chiral light intrinsically couples to extrinsic/pseudo-chiral metasurfaces made of tilted gold nanowires. Scientific Reports, 2016, 6, 31796. | 3.3 | 54 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Electron microscopy reveals a soluble hybrid network of individual nanocrystals self-anchored by bifunctional thiol fluorescent bridges. <i>Nanoscale</i> , 2016, 8, 18161-18169. | 5.6 | 26 |
| 38 | Midinfrared thermal emission properties of finite arrays of gold dipole nanoantennas. <i>Physical Review B</i> , 2015, 92, . | 3.2 | 19 |
| 39 | Symmetry breaking in the second harmonic field of self-assembled metallic nanostructures. , 2015, , . | | 1 |
| 40 | Second harmonic generation from artificial metasurfaces. , 2015, , . | | 0 |
| 41 | Applications of plasmonics: general discussion. <i>Faraday Discussions</i> , 2015, 178, 435-466. | 3.2 | 17 |
| 42 | Second harmonic generation on self-assembled tilted gold nanowires. <i>Faraday Discussions</i> , 2015, 178, 357-362. | 3.2 | 20 |
| 43 | Second harmonic circular dichroism by self-assembled metasurfaces [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1287. | 2.1 | 27 |
| 44 | Photoacoustic detection of circular dichroism in a square array of nano-helices. , 2015, , . | | 0 |
| 45 | Tailoring of linear response from plasmonic nano-resonators grown on a polystyrene. , 2014, , . | | 0 |
| 46 | Semiconductor-metal phase transition of vanadium dioxide nanostructures on silicon substrate: Applications for thermal control of spacecraft. <i>AIP Conference Proceedings</i> , 2014, , . | 0.4 | 8 |
| 47 | Optical axis misalignment detection by noncollinear second-harmonic generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 26. | 2.1 | 2 |
| 48 | Tailoring of the circular dichroism produced by Au covered self-ordered dielectric nanospheres. <i>Proceedings of SPIE</i> , 2014, , . | 0.8 | 2 |
| 49 | Numerical tailoring of linear response from plasmonic nano-resonators grown on a layer of polystyrene spheres. <i>Journal of Applied Physics</i> , 2014, 116, . | 2.5 | 12 |
| 50 | Porous silicon technology, a breakthrough for silicon photonics: From packaging to monolithic integration. , 2014, , . | | 2 |
| 51 | Influence of iron doping on spatial soliton formation and fixing in lithium niobate crystals. <i>Optical Materials</i> , 2014, 37, 175-180. | 3.6 | 3 |
| 52 | On nonlinear optical properties of chiral materials. , 2014, , . | | 0 |
| 53 | Second Harmonic Generation Circular Dichroism from Self-Ordered Hybrid Plasmonic-Photonic Nanosurfaces. <i>Advanced Optical Materials</i> , 2014, 2, 208-213. | 7.3 | 46 |
| 54 | Preparation and characterization of silver nanowires films for infrared radiation shielding. <i>Proceedings of SPIE</i> , 2013, , . | 0.8 | 5 |

| # | ARTICLE | IF | CITATIONS |
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| 55 | Pre-fractal multilayer structure for polarization- insensitive temporally and spatially coherent thermal emitter. Optics Express, 2013, 21, A576. | 3.4 | 14 |
| 56 | Measurement of the circular dichroism in the second harmonic optical signal produced by Au covered self ordered dielectric nanospheres. , 2013, , . | | 4 |
| 57 | Study of the anomalous refraction produced by self assembled gold nanowires. , 2013, , . | | 0 |
| 58 | Second harmonic circular dichroism from Au covered polystyrene nanospheres. , 2013, , . | | 0 |
| 59 | Anomalous refraction of self assembled gold nanowires studied by the generalized Snell's law. Photonics Letters of Poland, 2013, 5, . | 0.4 | 1 |
| 60 | Evidence of anomalous refraction of self-assembled curved gold nanowires. Applied Physics Letters, 2012, 100, . | 3.3 | 23 |
| 61 | Infrared properties of randomly oriented silver nanowires. Journal of Applied Physics, 2012, 112, . | 2.5 | 37 |
| 62 | Fluorinated and Non-Fluorinated Electro-Optic Copolymers: Determination of the Time and Temperature Stability of the Induced Electro-Optic Coefficient. Applied Sciences (Switzerland), 2012, 2, 682-708. | 2.5 | 3 |
| 63 | Circular Dichroism in the Optical Second-Harmonic Emission of Curved Gold Metal Nanowires. Physical Review Letters, 2011, 107, 257401. | 7.8 | 98 |
| 64 | Nonlinear circular dichroism in self-organized metal nanowires arrays. , 2011, , . | | 0 |
| 65 | Optical chirality of bacteriorhodopsin films via second harmonic Makerâ€™s fringes measurements. Applied Physics Letters, 2010, 96, 221108. | 3.3 | 12 |
| 66 | Experimental study of Bloch vector analysis in nonlinear, finite, dissipative systems. Physical Review A, 2010, 81, . | 2.5 | 19 |
| 67 | Observation of photorefractive simltons in lithium niobate. Optics Express, 2010, 18, 7972. | 3.4 | 7 |
| 68 | Bloch Vector Analysis in Nonlinear, Finite, Dissipative Systems: An Experimental Study. , 2010, , . | | 0 |
| 69 | Photorefractive Simulton in Lithium Niobate. , 2009, , . | | 0 |
| 70 | Evaluation of the optical axis tilt of zinc oxide films via noncollinear second harmonic generation. Applied Physics Letters, 2009, 94, . | 3.3 | 9 |
| 71 | Tailored emission properties of second harmonic generation from self-organized metal nanowires arrays. , 2009, , . | | 0 |
| 72 | Mapping the nonlinear optical susceptibility by noncollinear second-harmonic generation. Optics Letters, 2009, 34, 2189. | 3.3 | 16 |

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| 73 | Complete spatial and temporal locking in phase-mismatched second-harmonic generation. Optics Express, 2009, 17, 3141. | 3.4 | 41 |
| 74 | Tailored second harmonic generation from self-organized metal nano-wires arrays. Optics Express, 2009, 17, 3603. | 3.4 | 61 |
| 75 | Bound and free waves in non-collinear second harmonic generation. Optics Express, 2009, 17, 17000. | 3.4 | 6 |
| 76 | Optical polarization based logic functions (XOR or XNOR) with nonlinear Gallium nitride nanoslab. Optics Express, 2009, 17, 19337. | 3.4 | 7 |
| 77 | Second harmonic generation from multilayer structures. , 2009, , . | | 0 |
| 78 | Properties of quadratic noncollinear interaction of GaN based structures. , 2009, , . | | 0 |
| 79 | Determination of the aggregation degree of zinc-phthalocyanines derivatives into polymeric films via the characterization of the linear-optical absorption. Laser Physics, 2008, 18, 1371-1377. | 1.2 | 6 |
| 80 | Second-harmonic generation from metallodielectric multilayer photonic-band-gap structures. Physical Review A, 2008, 77, . | 2.5 | 36 |
| 81 | Realization and characterization of tetra(tert-butyl) zinc phtalocyanine poly(methyl methacrylate) films for optical limiting applications. Journal of Applied Physics, 2008, 104, 073109. | 2.5 | 8 |
| 82 | Second order optical nonlinearity of ZnO $\hat{=}$ ZnO:Al bilayers deposited on glass by low temperature radio frequency sputtering. Applied Physics Letters, 2007, 90, 181110. | 3.3 | 3 |
| 83 | Optical limiting behavior of zinc phthalocyanines in polymeric matrix. Journal of Applied Physics, 2007, 101, 033116. | 2.5 | 28 |
| 84 | Temperature Stability of the Electro-Optic Response of Highly Fluorinated Side Chain Organic Copolymers. Ferroelectrics, 2007, 352, 35-41. | 0.6 | 3 |
| 85 | Measurement of pure Kerr nonlinearity in GaN thin films at 800 nm by means of eclipsing Z-scan experiments. Journal of Optics, 2007, 9, L3-L4. | 1.5 | 20 |
| 86 | Nonlinear optical absorption of zinc-phthalocyanines in polymeric matrix. Photonics and Nanostructures - Fundamentals and Applications, 2007, 5, 73-78. | 2.0 | 33 |
| 87 | Blue second harmonic generation from aluminum nitride films deposited onto silicon by sputtering technique. Journal of Applied Physics, 2006, 100, 023507. | 2.5 | 20 |
| 88 | Micro-cavity organic light emitting diodes for biochip applications. Journal of Non-Crystalline Solids, 2006, 352, 2476-2479. | 3.1 | 6 |
| 89 | Use of sandwich structures with ZnO:Al transparent electrodes for the measurement of the electro-optic properties of standard and fluorinated poled copolymers at $\lambda=1.55\mu\text{m}$. Journal of Non-Crystalline Solids, 2006, 352, 2339-2342. | 3.1 | 25 |
| 90 | Characterization of second and third order optical nonlinearities of ZnO sputtered films. Applied Physics B: Lasers and Optics, 2006, 82, 431-437. | 2.2 | 58 |

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| 91 | Chirping compensation of femtosecond pulses by using 1-D photonic crystals anomalous dispersion. , 2006, 6182, 355. | | 0 |
| 92 | Femtosecond pulses chirping compensation by using one-dimensional compact multiple-defect photonic crystals. Applied Physics Letters, 2006, 89, 031111. | 3.3 | 19 |
| 93 | Enhanced stability of the second order optical properties of high-Tg fluorinated electro-optic copolymer. Applied Physics Letters, 2006, 89, 231110. | 3.3 | 4 |
| 94 | Second harmonic generation in GaN ^{Al50} Ga50N films deposited by metal-organic chemical vapor deposition. Applied Physics Letters, 2006, 89, 131105. | 3.3 | 12 |
| 95 | Second order nonlinear optical properties of zinc oxide films deposited by low temperature dual ion beam sputtering. Journal of Applied Physics, 2005, 97, 023501. | 2.5 | 27 |
| 96 | Concentration dependence of the optical nonlinearity in extremely doped fluorinated organic copolymers. Journal of Applied Physics, 2005, 98, 093521. | 2.5 | 7 |
| 97 | Charge injection and trapping contributions to the electro-optic response of mesoscopic polymer systems. AIP Conference Proceedings, 2004, , . | 0.4 | 2 |
| 98 | Direct E-Beam writing of electro-optic polymer channel waveguides. AIP Conference Proceedings, 2004, , . | 0.4 | 0 |
| 99 | Polarization Conversion in Vertically Coupled Si ₃ N ₄ /SiO ₂ Microring Resonators. AIP Conference Proceedings, 2004, , . | 0.4 | 4 |
| 100 | Characterisation of the Nonlinear Coefficients of AlGa _N /Ga _N Crystalline Thin Films Via SHG Measurements. AIP Conference Proceedings, 2004, , . | 0.4 | 0 |
| 101 | Second harmonic generation in AlGa _N , Ga _N and Al _x Ga _{1-x} N/Ga _N multiple quantum well structures. Applied Physics B: Lasers and Optics, 2004, 79, 611-615. | 2.2 | 24 |
| 102 | Photoconducting polymer ^{liquid} crystal structure studied by electroreflectance. Journal of Applied Physics, 2004, 95, 1141-1147. | 2.5 | 5 |
| 103 | Measurement of the electro-optic properties of poled polymers at $\lambda = 1.55 \mu\text{m}$ by means of sandwich structures with zinc oxide transparent electrode. Applied Physics Letters, 2003, 83, 4477-4479. | 3.3 | 41 |
| 104 | (2+1)-dimensional soliton formation in photorefractive Bi ₁₂ SiO ₂₀ crystals. Physical Review E, 2003, 67, 026611. | 2.1 | 28 |
| 105 | Spatial solitons in photorefractive crystals with large optical activity and absorption. , 2003, 4829, 944. | | 0 |
| 106 | Asymmetric transmission and anomalous refraction in metal nanowires metasurface. Journal of the European Optical Society-Rapid Publications, 0, 7, . | 1.9 | 21 |
| 107 | Nanostructured materials for circular dichroism and chirality at the nanoscale: towards unconventional characterization. Optical Materials Express, 0, , . | 3.0 | 6 |