

Victor Coello

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

709
citations

687363

13
h-index

552781

26
g-index

42
all docs

42
docs citations

42
times ranked

832
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Direct Observation of Localized Second-Harmonic Enhancement in Random Metal Nanostructures. Physical Review Letters, 2003, 90, 197403. | 7.8 | 116 |
| 2 | Elastic scattering of surface plasmon polaritons: Modeling and experiment. Physical Review B, 1998, 58, 10899-10910. | 3.2 | 87 |
| 3 | Direct observation of localized dipolar excitations on rough nanostructured surfaces. Physical Review B, 1998, 58, 11441-11448. | 3.2 | 79 |
| 4 | Generation of diffraction-free plasmonic beams with one-dimensional Bessel profiles. Optics Letters, 2013, 38, 905. | 3.3 | 43 |
| 5 | Partial loss compensation in dielectric-loaded plasmonic waveguides at near infra-red wavelengths. Optics Express, 2012, 20, 7771. | 3.4 | 35 |
| 6 | Biosensing enhancement using passive mixing structures for microarray-based sensors. Biosensors and Bioelectronics, 2014, 54, 506-514. | 10.1 | 34 |
| 7 | White Light Generation and Anisotropic Damage in Gold Films near Percolation Threshold. ACS Photonics, 2017, 4, 1207-1215. | 6.6 | 28 |
| 8 | Statistics of local field intensity enhancements at nanostructured surfaces investigated with a near-field optical microscope. Physical Review B, 2001, 64, . | 3.2 | 27 |
| 9 | Engineering Nanoparticles with Pure High-Order Multipole Scattering. ACS Photonics, 2020, 7, 1067-1075. | 6.6 | 23 |
| 10 | Modeling of a surface plasmon polariton interferometer. Optics Communications, 2004, 240, 345-350. | 2.1 | 18 |
| 11 | The influence of Ce doping on the structural and optoelectronic properties of RF-sputtered ZnO films. Optical and Quantum Electronics, 2015, 47, 2637-2648. | 3.3 | 17 |
| 12 | <title>Imaging of surface plasmons with a near-field microscope</title>. , 1997, , . | | 15 |
| 13 | Modeling of nonlinear microscopy of localized field enhancements in random metal nanostructures. Physical Review B, 2006, 73, . | 3.2 | 14 |
| 14 | Surface plasmon polariton excitation and manipulation by nanoparticle arrays. Optics Communications, 2009, 282, 3032-3036. | 2.1 | 14 |
| 15 | Enhancement of two-photon photoluminescence and SERS for low-coverage gold films. Optics Express, 2016, 24, 16743. | 3.4 | 14 |
| 16 | Experimental characterization of dielectric-loaded plasmonic waveguide-racetrack resonators at near-infrared wavelengths. Applied Physics B: Lasers and Optics, 2012, 107, 401-407. | 2.2 | 13 |
| 17 | On-Chip Spectropolarimetry by Fingerprinting with Random Surface Arrays of Nanoparticles. ACS Photonics, 2018, 5, 1703-1710. | 6.6 | 13 |
| 18 | SURFACE PLASMON POLARITON LOCALIZATION. Surface Review and Letters, 2008, 15, 867-879. | 1.1 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Investigation of the annealing effects on the structural and optoelectronic properties of RF-sputtered ZnO films studied by the Drude-Lorentz model. Applied Physics A: Materials Science and Processing, 2015, 120, 1375-1382. | 2.3 | 12 |
| 20 | Plasmonic channel waveguides in random arrays of metallic nanoparticles. Optics Express, 2016, 24, 17080. | 3.4 | 12 |
| 21 | Excitation of surface plasmon polaritons in a gold nanoslab on ion-exchanged waveguide technology. Applied Optics, 2020, 59, 572. | 1.8 | 12 |
| 22 | Coupled localized surface plasmon resonances in periodic arrays of gold nanowires on ion-exchange waveguide technology. Journal of Optics (United Kingdom), 2021, 23, 025801. | 2.2 | 8 |
| 23 | Near-field optical microscopy of fractal structures. Nanotechnology, 1999, 10, 108-112. | 2.6 | 6 |
| 24 | Experimental statistics of near-field intensity distributions at nanostructured surfaces. Journal of Microscopy, 2001, 202, 136-141. | 1.8 | 6 |
| 25 | Efficient and Directional Excitation of Surface Plasmon Polaritons by Oblique Incidence on Metallic Ridges. Plasmonics, 2018, 13, 1935-1940. | 3.4 | 6 |
| 26 | Integral plug-in RF module in a CO2 hybrid-waveguide laser: Its performance and overall evaluation. Optik, 2007, 118, 110-114. | 2.9 | 5 |
| 27 | Classical Plasmonics: Wave Propagation Control at Subwavelength Scale. Nano, 2015, 10, 1530005. | 1.0 | 5 |
| 28 | MODELING OF PLASMONIC PHENOMENA IN NANOSTRUCTURED SURFACES. Nano, 2009, 04, 201-216. | 1.0 | 4 |
| 29 | Angle dependence of the interaction distance in the shear force technique. Review of Scientific Instruments, 2011, 82, 083704. | 1.3 | 4 |
| 30 | ELASTIC SURFACE PLASMON POLARITON SCATTERING: NEAR- AND FAR-FIELD INTERACTIONS. Nano, 2012, 07, 1150003. | 1.0 | 4 |
| 31 | Fuzzy logic scheme for tip-sample distance control for a low cost near field optical microscope. Journal of Applied Research and Technology, 2013, 11, 886-894. | 0.9 | 4 |
| 32 | Collection mode near-field scanning microwave microscopy. Optik, 2014, 125, 2400-2404. | 2.9 | 4 |
| 33 | INTERFERENCE IN FAR-FIELD RADIATION OF EVANESCENT FIELDS. Surface Review and Letters, 2011, 18, 261-265. | 1.1 | 3 |
| 34 | Description and characterization of plasmonic Gaussian beams. Journal of Optics (United Kingdom), 2017, 19, 085001. | 2.2 | 3 |
| 35 | LASER PERCUSSION DRILLING ON THIN MILD STEEL SHEET BASED ON THE DUTY CYCLE VARIATIONS OF A PULSED RF SLAB CO_2 LASER. Surface Review and Letters, 2008, 15, 227-231. | 1.1 | 2 |
| 36 | SURFACE PLASMON EXCITATION AND MANIPULATION IN DISORDERED TWO-DIMENSIONAL NANOPARTICLE ARRAYS. Nano, 2013, 08, 1350044. | 1.0 | 2 |

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|----|---|-----|-----------|
| 37 | 3D thickness map reconstruction of dielectric thin films using scattering of surface plasmon polaritons. Optics Letters, 2018, 43, 691. | 3.3 | 2 |
| 38 | Large depth of focus plasmonic metalenses based on Fresnel biprism. AIP Advances, 2020, 10, 045025. | 1.3 | 2 |
| 39 | Second-harmonic far-field microscopy of random nanostructured gold surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 3070-3074. | 0.8 | 1 |
| 40 | Modeling of a Surface Plasmon Polariton Interferometer. Materials Research Society Symposia Proceedings, 2003, 797, 37. | 0.1 | 0 |
| 41 | Second-harmonic far-field microscopy of random metal nanostructures. , 2003, , . | | 0 |
| 42 | Influence of the probe-sample interaction angle on image formation in apertureless scanning near field optical microscope. Modern Physics Letters B, 2014, 28, 1450205. | 1.9 | 0 |