# Eric Bourillot

List of Publications by Year
in descending order



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|---|---|---|---|
| 46 papers | 1,527 citations | 516710 16 h-index | 302126 39 g-index |
| 46 all docs | 46 docs citations | 46 times ranked | 1574 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Perspectives on Astringency Sensation: An Alternative Hypothesis on the Molecular Origin of Astringency. Journal of Agricultural and Food Chemistry, 2021, 69, 3822-3826. | 5.2 | 41 |
| 2 | Nanoscale Mapping of the Physical Surface Properties of Human Buccal Cells and Changes Induced by Saliva. Langmuir, 2019, 35, 12647-12655. | 3.5 | 15 |
| 3 | Mechanisms of astringency: Structural alteration of the oral mucosal pellicle by dietary tannins and protective effect of bPRPs. Food Chemistry, 2018, 253, 79-87. | 8.2 | 81 |
| 4 | Microwave Spectroscopic Detection of Human Hsp70 Protein on Annealed Gold Nanostructures on ITO Glass Strips. Biosensors, 2018, 8, 118. | 4.7 | 0 |
| 5 | Characterization of Oxygen-Enriched Layers of TA6V, Titanium, and Zirconium by Scanning Microwave Microscopy. Oxidation of Metals, 2017, 88, 531-542. | 2.1 | 1 |
| 6 | HS-AFM and SERS Analysis of Murine Norovirus Infection: Involvement of the Lipid Rafts. Small, 2017, 13, 1600918. | 10.0 | 16 |
| 7 | Fabrication of Annealed Gold Nanostructures on Pre-Treated Glow-Discharge Cleaned Glasses and Their Used for Localized Surface Plasmon Resonance (LSPR) and Surface Enhanced Raman Spectroscopy (SERS) Detection of Adsorbed (Bio)molecules. Sensors, 2017, 17, 236. | 3.8 | 14 |
| 8 | Spontaneous non-canonical assembly of CcmK hexameric components from Î²-carboxysome shells of cyanobacteria. PLoS ONE, 2017, 12, e0185109. | 2.5 | 17 |
| 9 | Modeâ€synthesizing atomic force microscopy for volume characterization of mixed metal nanoparticles. Journal of Microscopy, 2016, 263, 307-311. | 1.8 | 3 |
| 10 | Combining infrared and mode synthesizing atomic force microscopy: Application to the study of lipid vesicles inside Streptomyces bacteria. Nano Research, 2016, 9, 1674-1681. | 10.4 | 29 |
| 11 | Impact of corona treatment on PLA film properties. Polymer Degradation and Stability, 2016, 132, 109-116. | 5.8 | 51 |
| 12 | Mode-synthesizing atomic force microscopy for 3D reconstruction of embedded low-density dielectric nanostructures. Nano Research, 2015, 8, 2199-2205. | 10.4 | 15 |
| 13 | Homogeneous large-scale crystalline nanoparticle-covered substrate with high SERS performance. Nanotechnology, 2015, 26, 245302. | 2.6 | 17 |
| 14 | From surface to intracellular non-invasive nanoscale study of living cells impairments. Nanotechnology, 2014, 25, 295101. | 2.6 | 11 |
| 15 | High-resolution characterization of the diffusion of light chemical elements in metallic components by scanning microwave microscopy. Nanoscale, 2014, 6, 14932-14938. | 5.6 | 6 |
| 16 | Non-destructive technique to detect local buried defects in metal sample by scanning microwave microscopy. Sensors and Actuators A: Physical, 2012, 186, 219-222. | 4.1 | 6 |
| 17 | Imaging of Located Buried Defects in Metal Samples by an Scanning Microwave Microscopy. Procedia Engineering, 2011, 25, 1637-1640. | 1.2 | 2 |
| 18 | Influence of the tip effect of a carbon nanostructure on low current electrical arc initiation. Materials Letters, 2009, 63, 2611-2614. | 2.6 | 1 |

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|---|---|---|---|
| 19 | Transversal mode and thermal analysis of an InP laser diode by near-field scanning probe microscopies. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1888. | 2.1 | 3 |
| 20 | Changes in surface stress, morphology and chemical composition of silica and silicon nitride surfaces during the etching by gaseous HF acid. Applied Surface Science, 2007, 253, 5101-5108. | 6.1 | 7 |
| 21 | Application of total internal reflexion fluorescence microscopy for studying pH changes in an occluded electrochemical cell: Development of a waveguide sensor. Electrochemistry Communications, 2006, 8, 1016-1020. | 4.7 | 21 |
| 22 | Mapping the 3D-surface strain field of patterned tensile stainless steels using atomic force microscopy. Ultramicroscopy, 2005, 103, 183-189. | 1.9 | 9 |
| 23 | Imaging surface photonic states with a circularly polarized tip. Europhysics Letters, 2004, 68, 797-803. | 2.0 | 9 |
| 24 | Thermomechanical behavior of coated tapered optical fibers for scanning force microscopy. Journal of Applied Physics, 2004, 95, 5137-5144. | 2.5 | 4 |
| 25 | Detection of gas trace of hydrofluoric acid using microcantilever. Sensors and Actuators B: Chemical, 2004, 99, 58-65. | 7.8 | 48 |
| 26 | Effects of temperature and pressure on microcantilever resonance response. Ultramicroscopy, 2003, 97, 119-126. | 1.9 | 87 |
| 27 | Performance of interdigitated nanoelectrodes for electrochemical DNA biosensor. Ultramicroscopy, 2003, 97, 441-449. | 1.9 | 52 |
| 28 | Subwavelength mapping of surface photonic states. Nanotechnology, 2003, 14, 935-938. | 2.6 | 24 |
| 29 | Study of the surface reactivity of optical fibers under aging conditions by flexural resonance. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 2095. | 1.6 | 4 |
| 30 | Near-field and far-field optical properties of thin metallic films. Journal of Applied Physics, 2001, 89, 1138-1144. | 2.5 | 1 |
| 31 | Detection of the optical magnetic field by circular symmetry plasmons. Applied Surface Science, 2000, 164, 124-130. | 6.1 | 11 |
| 32 | Local detection of the optical magnetic field in the near zone of dielectric samples. Physical Review B, 2000, 62, 10504-10514. | 3.2 | 69 |
| 33 | Near-field zone analysis of the Faraday rotation of magneto-optical thin films. Journal of Applied Physics, 2000, 88, 2541-2547. | 2.5 | 9 |
| 34 | Magneto-optical effects in multilayers illuminated by total internal reflection. Physical Review B, 1999, 59, 5936-5944. | 3.2 | 20 |
| 35 | Kerr and Faraday Rotations of Magneto-Optical Multilayers under the Condition of Total Internal Reflection. Physica Status Solidi A, 1999, 175, 225-232. | 1.7 | 4 |
| 36 | Direct observation of localized surface plasmon coupling. Physical Review B, 1999, 60, 5029-5033. | 3.2 | 97 |

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|---|---|---|---|
| 37 | Squeezing the Optical Near-Field Zone by Plasmon Coupling of Metallic Nanoparticles. Physical Review Letters, 1999, 82, 2590-2593. | 7.8 | 571 |
| 38 | Reproducible optical fiber tips for photon scanning tunneling microscopy with very small (>5Â°) cone angle. Journal of Lightwave Technology, 1998, 16, 1220-1227. | 4.6 | 17 |
| 39 | Observation of Light Confinement Effects with a Near-Field Optical Microscope. Physical Review Letters, 1996, 77, 5332-5335. | 7.8 | 84 |
| 40 | Computation of near field diffraction by a dielectric grating: a comparison with experiments. Optics Communications, 1995, 119, 23-29. | 2.1 | 2 |
| 41 | Determination of mode-cutoff wavelengths and refractive-index profile of planar optical waveguides with a photon scanning tunneling microscope. Physical Review B, 1995, 51, 11225-11228. | 3.2 | 11 |
| 42 | Review of the basic methods for characterizing integrated-optic waveguides. Fiber and Integrated Optics, 1995, 14, 89-107. | 2.5 | 18 |
| 43 | A dark field photon scanning tunneling microscope under incoherent light illumination. Optics Communications, 1994, 107, 347-352. | 2.1 | 11 |
| 44 | <title>Recent progress in photon scanning tunneling microscopy</title>. , 1992, 1639, 12. | | 4 |
| 45 | <title>Analysis of images of periodic structures obtained by Photon Scanning Tunneling Microscopy</title>. , 1991, , . | | 1 |
| 46 | Etude et Ã©talonnage des dÃ©placements d'un tube piÃ©zoÃ©lectrique utilisÃ© dans le systeme de balayage d'un microscope Ã effet tunnel. Journal De Physique III, 1991, 1, 1337-1348. | 0.3 | 3 |