

# 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	Squeezing the Optical Near-Field Zone by Plasmon Coupling of Metallic Nanoparticles. <i>Physical Review Letters</i> , 1999, 82, 2590-2593.	7.8	571
2	Direct observation of localized surface plasmon coupling. <i>Physical Review B</i> , 1999, 60, 5029-5033.	3.2	97
3	Effects of temperature and pressure on microcantilever resonance response. <i>Ultramicroscopy</i> , 2003, 97, 119-126.	1.9	87
4	Observation of Light Confinement Effects with a Near-Field Optical Microscope. <i>Physical Review Letters</i> , 1996, 77, 5332-5335.	7.8	84
5	Mechanisms of astringency: Structural alteration of the oral mucosal pellicle by dietary tannins and protective effect of bPRPs. <i>Food Chemistry</i> , 2018, 253, 79-87.	8.2	81
6	Local detection of the optical magnetic field in the near zone of dielectric samples. <i>Physical Review B</i> , 2000, 62, 10504-10514.	3.2	69
7	Performance of interdigitated nanoelectrodes for electrochemical DNA biosensor. <i>Ultramicroscopy</i> , 2003, 97, 441-449.	1.9	52
8	Impact of corona treatment on PLA film properties. <i>Polymer Degradation and Stability</i> , 2016, 132, 109-116.	5.8	51
9	Detection of gas trace of hydrofluoric acid using microcantilever. <i>Sensors and Actuators B: Chemical</i> , 2004, 99, 58-65.	7.8	48
10	Perspectives on Astringency Sensation: An Alternative Hypothesis on the Molecular Origin of Astringency. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3822-3826.	5.2	41
11	Combining infrared and mode synthesizing atomic force microscopy: Application to the study of lipid vesicles inside <i>Streptomyces</i> bacteria. <i>Nano Research</i> , 2016, 9, 1674-1681.	10.4	29
12	Subwavelength mapping of surface photonic states. <i>Nanotechnology</i> , 2003, 14, 935-938.	2.6	24
13	Application of total internal reflexion fluorescence microscopy for studying pH changes in an occluded electrochemical cell: Development of a waveguide sensor. <i>Electrochemistry Communications</i> , 2006, 8, 1016-1020.	4.7	21
14	Magneto-optical effects in multilayers illuminated by total internal reflection. <i>Physical Review B</i> , 1999, 59, 5936-5944.	3.2	20
15	Review of the basic methods for characterizing integrated-optic waveguides. <i>Fiber and Integrated Optics</i> , 1995, 14, 89-107.	2.5	18
16	Reproducible optical fiber tips for photon scanning tunneling microscopy with very small ( $>5^\circ$ ) cone angle. <i>Journal of Lightwave Technology</i> , 1998, 16, 1220-1227.	4.6	17
17	Homogeneous large-scale crystalline nanoparticle-covered substrate with high SERS performance. <i>Nanotechnology</i> , 2015, 26, 245302.	2.6	17
18	Spontaneous non-canonical assembly of CcmK hexameric components from $\hat{1}^2$ -carboxysome shells of cyanobacteria. <i>PLoS ONE</i> , 2017, 12, e0185109.	2.5	17

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19	HS-AFM and SERS Analysis of Murine Norovirus Infection: Involvement of the Lipid Rafts. <i>Small</i> , 2017, 13, 1600918.	10.0	16
20	Mode-synthesizing atomic force microscopy for 3D reconstruction of embedded low-density dielectric nanostructures. <i>Nano Research</i> , 2015, 8, 2199-2205.	10.4	15
21	Nanoscale Mapping of the Physical Surface Properties of Human Buccal Cells and Changes Induced by Saliva. <i>Langmuir</i> , 2019, 35, 12647-12655.	3.5	15
22	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. <i>Sensors</i> , 2017, 17, 236.	3.8	14
23	A dark field photon scanning tunneling microscope under incoherent light illumination. <i>Optics Communications</i> , 1994, 107, 347-352.	2.1	11
24	Determination of mode-cutoff wavelengths and refractive-index profile of planar optical waveguides with a photon scanning tunneling microscope. <i>Physical Review B</i> , 1995, 51, 11225-11228.	3.2	11
25	Detection of the optical magnetic field by circular symmetry plasmons. <i>Applied Surface Science</i> , 2000, 164, 124-130.	6.1	11
26	From surface to intracellular non-invasive nanoscale study of living cells impairments. <i>Nanotechnology</i> , 2014, 25, 295101.	2.6	11
27	Near-field zone analysis of the Faraday rotation of magneto-optical thin films. <i>Journal of Applied Physics</i> , 2000, 88, 2541-2547.	2.5	9
28	Imaging surface photonic states with a circularly polarized tip. <i>Europhysics Letters</i> , 2004, 68, 797-803.	2.0	9
29	Mapping the 3D-surface strain field of patterned tensile stainless steels using atomic force microscopy. <i>Ultramicroscopy</i> , 2005, 103, 183-189.	1.9	9
30	Changes in surface stress, morphology and chemical composition of silica and silicon nitride surfaces during the etching by gaseous HF acid. <i>Applied Surface Science</i> , 2007, 253, 5101-5108.	6.1	7
31	Non-destructive technique to detect local buried defects in metal sample by scanning microwave microscopy. <i>Sensors and Actuators A: Physical</i> , 2012, 186, 219-222.	4.1	6
32	High-resolution characterization of the diffusion of light chemical elements in metallic components by scanning microwave microscopy. <i>Nanoscale</i> , 2014, 6, 14932-14938.	5.6	6
33	<title>Recent progress in photon scanning tunneling microscopy</title>. , 1992, 1639, 12.		4
34	Kerr and Faraday Rotations of Magneto-Optical Multilayers under the Condition of Total Internal Reflection. <i>Physica Status Solidi A</i> , 1999, 175, 225-232.	1.7	4
35	Study of the surface reactivity of optical fibers under aging conditions by flexural resonance. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 2095.	1.6	4
36	Thermomechanical behavior of coated tapered optical fibers for scanning force microscopy. <i>Journal of Applied Physics</i> , 2004, 95, 5137-5144.	2.5	4

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37	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
38	Modeâ€synthesizing atomic force microscopy for volume characterization of mixed metal nanoparticles. Journal of Microscopy, 2016, 263, 307-311.	1.8	3
39	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
40	Computation of near field diffraction by a dielectric grating: a comparison with experiments. Optics Communications, 1995, 119, 23-29.	2.1	2
41	Imaging of Located Buried Defects in Metal Samples by an Scanning Microwave Microscopy. Procedia Engineering, 2011, 25, 1637-1640.	1.2	2
42	<title>Analysis of images of periodic structures obtained by Photon Scanning Tunneling Microscopy</title>. , 1991, , .		1
43	Near-field and far-field optical properties of thin metallic films. Journal of Applied Physics, 2001, 89, 1138-1144.	2.5	1
44	Influence of the tip effect of a carbon nanostructure on low current electrical arc initiation. Materials Letters, 2009, 63, 2611-2614.	2.6	1
45	Characterization of Oxygen-Enriched Layers of TA6V, Titanium, and Zirconium by Scanning Microwave Microscopy. Oxidation of Metals, 2017, 88, 531-542.	2.1	1
46	Microwave Spectroscopic Detection of Human Hsp70 Protein on Annealed Gold Nanostructures on ITO Glass Strips. Biosensors, 2018, 8, 118.	4.7	0