

Aude L Lereu

List of Publications by Year in descending order

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49
papers

722
citations

430874

18
h-index

580821

25
g-index

50
all docs

50
docs citations

50
times ranked

776
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical modulation processes in thin films based on thermal effects of surface plasmons. Applied Physics Letters, 2005, 86, 154101.	3.3	62
2	Curvature effects in surface plasmon dispersion and coupling. Physical Review B, 2005, 71, .	3.2	46
3	Near field optical microscopy: a brief review. International Journal of Nanotechnology, 2012, 9, 488.	0.2	41
4	Surface plasmons and Bloch surface waves: Towards optimized ultra-sensitive optical sensors. Applied Physics Letters, 2017, 111, .	3.3	39
5	Modulation of multiple photon energies by use of surface plasmons. Optics Letters, 2005, 30, 41.	3.3	38
6	Effect of thermal variations on the Knudsen forces in the transitional regime. Applied Physics Letters, 2004, 84, 1013-1015.	3.3	29
7	Plasticity, elasticity, and adhesion energy of plant cell walls: nanometrology of lignin loss using atomic force microscopy. Scientific Reports, 2017, 7, 152.	3.3	29
8	Thermoplasmonic shift and dispersion in thin metal films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 836-841.	2.1	26
9	Probing large area surface plasmon interference in thin metal films using photon scanning tunneling microscopy. Ultramicroscopy, 2004, 100, 429-436.	1.9	24
10	Nonradiative surface plasmon assisted microscale Marangoni forces. Physical Review E, 2006, 73, 066311.	2.1	24
11	Optical properties and plasmonic response of silver-gallium nanostructures. Journal of Applied Physics, 2015, 117, .	2.5	22
12	Excitation of Bloch Surface Waves in Zero-Admittance Multilayers for High-Sensitivity Sensor Applications. Physical Review Applied, 2020, 13, .	3.8	22
13	Plasmon assisted thermal modulation in nanoparticles. Optics Express, 2013, 21, 12145.	3.4	21
14	Imaging standing surface plasmons by photon tunneling. Physical Review B, 2005, 71, .	3.2	20
15	Giant optical field enhancement in multi-dielectric stacks by photon scanning tunneling microscopy. Applied Physics Letters, 2013, 103, .	3.3	20
16	Surface plasmon assisted thermal coupling of multiple photon energies. Thin Solid Films, 2006, 497, 315-320.	1.8	19
17	Individual gold dimers investigated by far- and near-field imaging. Journal of Microscopy, 2008, 229, 254-258.	1.8	19
18	Nanometrology of delignified <i>Populus</i> using mode synthesizing atomic force microscopy. Nanotechnology, 2011, 22, 465702.	2.6	19

#	ARTICLE	IF	CITATIONS
19	Microscale Marangoni actuation: All-optical and all-electrical methods. Ultramicroscopy, 2006, 106, 815-821.	1.9	18
20	Energy density engineering via zero-admittance domains in all-dielectric stratified materials. Physical Review A, 2018, 97, .	2.5	18
21	Photon tunneling via surface plasmon coupling. Applied Physics Letters, 2004, 85, 3420-3422.	3.3	17
22	Scattering losses in multielectric structures designed for giant optical field enhancement. Applied Optics, 2014, 53, A412.	1.8	15
23	Stochastic excitation and delayed oscillation of a micro-oscillator. Physical Review B, 2007, 75, .	3.2	14
24	Nanometrology of Biomass for Bioenergy: The Role of Atomic Force Microscopy and Spectroscopy in Plant Cell Characterization. Frontiers in Energy Research, 2018, 6, .	2.3	13
25	Opto-electronic versus electro-optic modulation. Applied Physics Letters, 2004, 85, 2703-2705.	3.3	11
26	Spectroscopy and imaging of arrays of nanorods toward nanopolarimetry. Nanotechnology, 2012, 23, 045701.	2.6	11
27	Influence of force volume indentation parameters and processing method in wood cell walls nanomechanical studies. Scientific Reports, 2021, 11, 5739.	3.3	10
28	Plasmons lend a helping hand. Nature Photonics, 2007, 1, 368-369.	31.4	9
29	Bandwidths limitations of giant optical field enhancements in dielectric multi-layers. Optics Express, 2017, 25, 14883.	3.4	9
30	Ethanol vapor detection in saline solution using piezoresistive microcantilevers. Review of Scientific Instruments, 2006, 77, 095101.	1.3	7
31	Plasmonic Marangoni forces. Journal of the European Optical Society-Rapid Publications, 2006, 1, .	1.9	6
32	Discontinuity induced angular distribution of photon plasmon coupling. Optics Express, 2011, 19, 17750.	3.4	5
33	Optical and plasmonic spectroscopy with cantilever shaped materials. Journal Physics D: Applied Physics, 2011, 44, 445102.	2.8	5
34	Gap Nanoantennas toward Molecular Plasmonic Devices. International Journal of Optics, 2012, 2012, 1-19.	1.4	5
35	Sensitivity of resonance properties of all-dielectric multilayers driven by statistical fluctuations. Optics Express, 2019, 27, 30654.	3.4	5
36	Laser reflectometry of submegahertz liquid meniscus ringing. Optics Letters, 2009, 34, 3148.	3.3	4

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37	Multi-dielectric stacks as a platform for giant optical field. Proceedings of SPIE, 2014, , .	0.8	4
38	Nanomechanics and Raman Spectroscopy of in Situ Native Carbohydrate Storage Granules for Enhancing Starch Quality and Lignocellulosic Biomass Production. ACS Omega, 2020, 5, 2594-2602.	3.5	4
39	In situ plant materials hyperspectral imaging by multimodal scattering near-field optical microscopy. Communications Materials, 2021, 2, .	6.9	4
40	Probing the local field of nanoantennas using single particle luminescence. Journal of Physics: Conference Series, 2008, 100, 052038.	0.4	3
41	Resonant dielectric multilayer with controlled absorption for enhanced total internal reflection fluorescence microscopy. Optics Express, 2022, 30, 15365.	3.4	2
42	An experimental investigation of analog delay generation for dynamic control of microsensors and atomic force microscopy. Ultramicroscopy, 2007, 107, 1020-1026.	1.9	1
43	Localized measurements of optical thickness variations in femtosecond trimmed structures. , 2008, , .		1
44	Nanoplasmonics in energy and biomedical research. , 2011, , .		1
45	Giant Field Enhancement in Resonant All-Dielectric Multi-Layers: Advantages and Limitations. , 2019, , .		0
46	PREDICTABLE BEHAVIOR OF ORGANIC PHOTOVOLTAIC CELLS BY KELVIN PROBE FORCE MICROSCOPY. , 2013, , .		0
47	Optimized all-dielectric interference coatings for giant field enhancement in sensing applications. , 2019, , .		0
48	All-Dielectric Interference Coating for Sensing Applications. , 2020, , .		0
49	A New Refractive Index Sensor Based on Enhanced Surface Field of Zero-Admittance Layer in Dielectric Multi-Layers. , 2020, , .		0