

Guilhem Gallot

List of Publications by Year in descending order

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36
papers

1,419
citations

516710

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454955

30
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36
all docs

36
docs citations

36
times ranked

1782
citing authors

#	ARTICLE	IF	CITATIONS
1	High precision dual-modulation differential terahertz ATR sensor for liquid measurements. Optics Letters, 2021, 46, 4045.	3.3	5
2	Probing living cells permeabilization dynamics by terahertz attenuated total reflection. , 2021, , .		0
3	Monitoring the molecular composition of live cells exposed to electric pulses via label-free optical methods. Scientific Reports, 2020, 10, 10471.	3.3	6
4	Dynamics of Cell Membrane Permeabilization by Saponins Using Terahertz Attenuated Total Reflection. Biophysical Journal, 2020, 119, 749-755.	0.5	15
5	Generalized time delay, velocity, and absorption in dispersive and absorbing media. Physical Review A, 2019, 99, .	2.5	0
6	Probing living cells by terahertz attenuated total reflection: application to permeabilization dynamics. , 2019, , .		0
7	Relative Contributions of Core Protein and Solvation Shell in the Terahertz Dielectric Properties of Protein Solutions. Journal of Physical Chemistry B, 2017, 121, 9508-9512.	2.6	16
8	Quantitative measurement of permeabilization of living cells by terahertz attenuated total reflection. Applied Physics Letters, 2015, 107, .	3.3	51
9	Ionic contrast terahertz near field imaging. Proceedings of SPIE, 2013, , .	0.8	0
10	Attenuated internal reflection terahertz imaging. Optics Letters, 2013, 38, 112.	3.3	30
11	Diffraction from a subwavelength elliptic aperture: analytic approximate aperture fields. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 2005.	1.5	6
12	Optical activity of metallic helices in the terahertz domain: a theoretical investigation. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2675.	2.1	2
13	Brewster's angle silicon wafer terahertz linear polarizer. Optics Express, 2011, 19, 14099.	3.4	40
14	Few femtosecond, few kiloampere electron bunch produced by a laser-plasma accelerator. Nature Physics, 2011, 7, 219-222.	16.7	363
15	Density of states and vibrational modes of PDMS studied by terahertz time-domain spectroscopy. Chemical Physics Letters, 2010, 495, 46-49.	2.6	20
16	Beam waist measurement for terahertz time-domain spectroscopy experiments. Optics Letters, 2010, 35, 901.	3.3	8
17	Extended Fano model of Extraordinary Electromagnetic Transmission through subwavelength hole arrays in the terahertz domain. Optics Express, 2009, 17, 15280.	3.4	5
18	Femto-second ultrashort laser wakefield electron bunch-duration measurements: a prism-based dispersion visible-to-IR spectrometer. Proceedings of SPIE, 2009, , .	0.8	1

#	ARTICLE	IF	CITATIONS
19	A model for thermal exchange in axons during action potential propagation. <i>European Biophysics Journal</i> , 2008, 37, 1001-1006.	2.2	2
20	Low-loss polymers for terahertz applications. <i>Applied Optics</i> , 2008, 47, 3254.	2.1	132
21	Anomalies in the disappearance of the extraordinary electromagnetic transmission in subwavelength hole arrays. <i>Optics Express</i> , 2008, 16, 4719.	3.4	4
22	Ionic contrast terahertz near-field imaging of axonal activity and water fluxes. , 2007, , .		0
23	True near field versus contrast near field imaging. II. imaging with a probe. <i>Optics Express</i> , 2007, 15, 3078.	3.4	1
24	Time-resolved observation of the Eigen cation in liquid water. <i>Journal of Chemical Physics</i> , 2007, 126, 034511.	3.0	33
25	Terahertz achromatic quarter-wave plate. <i>Optics Letters</i> , 2006, 31, 265.	3.3	255
26	True near field versus contrast near field imaging. <i>Optics Express</i> , 2006, 14, 11566.	3.4	5
27	Coupling between surface plasmons in subwavelength hole arrays. <i>Physical Review B</i> , 2006, 73, .	3.2	44
28	Ionic contrast terahertz time resolved imaging of frog auricular heart muscle electrical activity. <i>Applied Physics Letters</i> , 2006, 89, 153904.	3.3	17
29	Ultrashort laser pulses and ultrashort electron bunches generated in relativistic laser-plasma interaction. <i>Physics of Plasmas</i> , 2006, 13, 056706.	1.9	20
30	Ionic contrast terahertz near-field imaging of axonal water fluxes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 4808-4812.	7.1	50
31	Libration induced stretching mode excitation for pump-probe spectroscopy in pure liquid water. <i>Journal of Chemical Physics</i> , 2004, 121, 7908.	3.0	7
32	Laser spectroscopic visualization of hydrogen bond motions in liquid water. <i>Journal of Molecular Structure</i> , 2004, 708, 197-203.	3.6	18
33	Dynamique ultrarapide du proton dans l'eau : Étude expérimentale. <i>European Physical Journal Special Topics</i> , 2004, 119, 111-112.	0.2	0
34	Coupling between molecular rotations and OH ⁻ O motions in liquid water: Theory and experiment. <i>Journal of Chemical Physics</i> , 2002, 117, 11301-11309.	3.0	51
35	Femtosecond Dynamics of Hydrogen Bonds in Liquid Water: A Real Time Study. <i>Journal of the Chinese Chemical Society</i> , 2000, 47, 685-692.	1.4	1
36	Measurements of the THz absorption and dispersion of ZnTe and their relevance to the electro-optic detection of THz radiation. <i>Applied Physics Letters</i> , 1999, 74, 3450-3452.	3.3	211