P C M Planken

List of Publications by Year in descending order

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Version: 2024-02-01

42 papers	2,080 citations	331670 21 h-index	414414 32 g-index
44 all docs	44 docs citations	44 times ranked	1774 citing authors

#	Article	IF	Citations
1	Plasmonic enhancement of photoacoustic strain-waves on gold gratings. AIP Advances, 2022, 12, 025227.	1.3	1
2	Ultrafast laser-induced strain waves in thin ruthenium layers. Optics Express, 2021, 29, 32051.	3.4	5
3	Photoacoustic detection of low duty cycle gratings through optically opaque layers. Applied Physics Letters, 2020, 117, .	3.3	8
4	Femtosecond time-resolved pump-probe measurements on percolating gold in the ablation regime. Optics Express, 2020, 28, 12093.	3.4	7
5	Detection of periodic structures through opaque metal layers by optical measurements of ultrafast electron dynamics. Optics Express, 2018, 26, 23380.	3.4	16
6	Emission of terahertz pulses from nanostructured metal surfaces. Journal Physics D: Applied Physics, 2014, 47, 374003.	2.8	42
7	Terahertz near-field spectroscopy of filled subwavelength sized apertures in thin metal films. Optics Express, 2013, 21, 1101.	3.4	22
8	Electromagnetic Spin-Orbit Interactions via Scattering of Subwavelength Apertures. Physical Review Letters, 2010, 104, 083903.	7.8	92
9	Influence of the dielectric substrate on the terahertz electric near-field of a hole in a metal. , 2010, , .		0
10	Terahertz near-field microspectroscopy. Applied Physics Letters, 2010, 97, 031115.	3.3	21
11	Terahertz field enhancement by a metallic nano slit operating beyond the skin-depth limit. Nature Photonics, 2009, 3, 152-156.	31.4	514
12	Terahertz Near-Field Vectorial Imaging of Subwavelength Apertures and Aperture Arrays. Optics Express, 2009, 17, 15072.	3.4	56
13	Influence of the dielectric substrate on the terahertz electric near-field of a hole in a metal. Optics Express, 2009, 17, 17412.	3.4	21
14	Advanced terahertz electric near-field measurements at sub-wavelength diameter metallic apertures. Optics Express, 2008, 16, 7407.	3.4	109
15	Near field imaging of terahertz focusing onto rectangular apertures. Optics Express, 2008, 16, 20484.	3.4	66
16	Terahertz wave focusing at localized surface plasmon resonance. , 2008, , .		0
17	Vector field mapping of THz-electromagnetic wave transmitted through quadruple square holes. , 2008, , .		0
18	Optical and terahertz near-field studies of surface plasmons in subwavelength metallic slits. New Journal of Physics, 2008, 10, 105003.	2.9	16

#	Article	IF	Citations
19	Near-Field Imaging of Subwavelength Circular Hole Arrays at Terahertz Frequencies. , 2008, , .		0
20	Poynting vector mapping of Terahertz wave transmission through metallic grating. , 2008, , .		0
21	Terahertz inverse-Fourier transform image synthesis. , 2008, , .		0
22	THz near-field measurement of a square hole. , 2007, , .		0
23	Near-Field Imaging of Surface Waves for Periodic Hole Arrays: Comparison between Metal and Absorber. , 2007, , .		0
24	Fourier-transform terahertz near-field imaging of one-dimensional slit arrays: mapping of electric-field-, magnetic-field-, and Poynting vectors. Optics Express, 2007, 15, 11781.	3.4	130
25	Near-field microscopy of THz fields near metal structures. , 2007, , .		0
26	Noise suppression of a differential detector under high levels of illumination, relevant to terahertz electro-optic sampling. Review of Scientific Instruments, 2005, 76, 073104.	1.3	1
27	Opto-electronic pulsed THz systems. Semiconductor Science and Technology, 2005, 20, S121-S127.	2.0	70
28	Terahertz near-field microscopy. , 2005, , .		1
29	Spot-size reduction in terahertz apertureless near-field imaging. Optics Letters, 2004, 29, 2306.	3.3	33
30	Towards terahertz near-field microscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 315-321.	3.4	8
31	Measurement of THz Spot Sizes with a Î»/200 Diameter in the Near-Field of a Metal Tip. Journal of Biological Physics, 2003, 29, 239-245.	1.5	4
32	Design and performance of a THz emission and detection setup based on a semi-insulating GaAs emitter. Review of Scientific Instruments, 2002, 73, 1715-1719.	1.3	217
33	Electro-optic detection of subwavelength terahertz spot sizes in the near field of a metal tip. Applied Physics Letters, 2002, 81, 1558-1560.	3.3	212
34	Two-color facility based on a broadly tunable infrared free-electron laser and a subpicosecond-synchronized 10-fs-Ti:sapphire laser. Optics Letters, 1998, 23, 1754.	3.3	34
35	Effect of nonequilibrium LO phonons and hot electrons on far-infrared intraband absorption inn-type GaAs. Physical Review B, 1998, 57, R4222-R4225.	3.2	17
36	Far-infrared picosecond time-resolved measurement of the free-induction decay in GaAs:Si. Physical Review B, 1995, 51, 9643-9647.	3.2	23

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37	Repetitive excitation of charge oscillations in semiconductor heterostructures. Applied Physics Letters, 1993, 63, 2213-2215.	3.3	36
38	Ultrafast vibrational dynamics of small organic molecules in solution. Journal of Chemical Physics, 1991, 94, 6007-6013.	3.0	41
39	Ultrafast infrared saturation spectroscopy of chloroform, bromoform, and iodoform. Journal of Chemical Physics, 1991, 94, 1730-1739.	3.0	65
40	Role of solvent on vibrational energy transfer in solution. Nature, 1990, 347, 745-747.	27.8	54
41	Phase modulation in second-order nonlinear-optical processes. Physical Review A, 1990, 42, 4085-4101.	2.5	92
42	Numerical calculation of optical frequency-conversion processes: a new approach. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 1665.	2.1	46