

# P C M Planken

## List of Publications by Year in descending order

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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	Terahertz field enhancement by a metallic nano slit operating beyond the skin-depth limit. <i>Nature Photonics</i> , 2009, 3, 152-156.	31.4	514
2	Design and performance of a THz emission and detection setup based on a semi-insulating GaAs emitter. <i>Review of Scientific Instruments</i> , 2002, 73, 1715-1719.	1.3	217
3	Electro-optic detection of subwavelength terahertz spot sizes in the near field of a metal tip. <i>Applied Physics Letters</i> , 2002, 81, 1558-1560.	3.3	212
4	Fourier-transform terahertz near-field imaging of one-dimensional slit arrays: mapping of electric-field-, magnetic-field-, and Poynting vectors. <i>Optics Express</i> , 2007, 15, 11781.	3.4	130
5	Advanced terahertz electric near-field measurements at sub-wavelength diameter metallic apertures. <i>Optics Express</i> , 2008, 16, 7407.	3.4	109
6	Phase modulation in second-order nonlinear-optical processes. <i>Physical Review A</i> , 1990, 42, 4085-4101.	2.5	92
7	Electromagnetic Spin-Orbit Interactions via Scattering of Subwavelength Apertures. <i>Physical Review Letters</i> , 2010, 104, 083903.	7.8	92
8	Opto-electronic pulsed THz systems. <i>Semiconductor Science and Technology</i> , 2005, 20, S121-S127.	2.0	70
9	Near field imaging of terahertz focusing onto rectangular apertures. <i>Optics Express</i> , 2008, 16, 20484.	3.4	66
10	Ultrafast infrared saturation spectroscopy of chloroform, bromoform, and iodoform. <i>Journal of Chemical Physics</i> , 1991, 94, 1730-1739.	3.0	65
11	Terahertz Near-Field Vectorial Imaging of Subwavelength Apertures and Aperture Arrays. <i>Optics Express</i> , 2009, 17, 15072.	3.4	56
12	Role of solvent on vibrational energy transfer in solution. <i>Nature</i> , 1990, 347, 745-747.	27.8	54
13	Numerical calculation of optical frequency-conversion processes: a new approach. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989, 6, 1665.	2.1	46
14	Emission of terahertz pulses from nanostructured metal surfaces. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 374003.	2.8	42
15	Ultrafast vibrational dynamics of small organic molecules in solution. <i>Journal of Chemical Physics</i> , 1991, 94, 6007-6013.	3.0	41
16	Repetitive excitation of charge oscillations in semiconductor heterostructures. <i>Applied Physics Letters</i> , 1993, 63, 2213-2215.	3.3	36
17	Two-color facility based on a broadly tunable infrared free-electron laser and a subpicosecond-synchronized 10-fs-Ti:sapphire laser. <i>Optics Letters</i> , 1998, 23, 1754.	3.3	34
18	Spot-size reduction in terahertz apertureless near-field imaging. <i>Optics Letters</i> , 2004, 29, 2306.	3.3	33

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19	Far-infrared picosecond time-resolved measurement of the free-induction decay in GaAs:Si. <i>Physical Review B</i> , 1995, 51, 9643-9647.	3.2	23
20	Terahertz near-field spectroscopy of filled subwavelength sized apertures in thin metal films. <i>Optics Express</i> , 2013, 21, 1101.	3.4	22
21	Influence of the dielectric substrate on the terahertz electric near-field of a hole in a metal. <i>Optics Express</i> , 2009, 17, 17412.	3.4	21
22	Terahertz near-field microspectroscopy. <i>Applied Physics Letters</i> , 2010, 97, 031115.	3.3	21
23	Effect of nonequilibrium LO phonons and hot electrons on far-infrared intraband absorption in n-type GaAs. <i>Physical Review B</i> , 1998, 57, R4222-R4225.	3.2	17
24	Optical and terahertz near-field studies of surface plasmons in subwavelength metallic slits. <i>New Journal of Physics</i> , 2008, 10, 105003.	2.9	16
25	Detection of periodic structures through opaque metal layers by optical measurements of ultrafast electron dynamics. <i>Optics Express</i> , 2018, 26, 23380.	3.4	16
26	Towards terahertz near-field microscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 315-321.	3.4	8
27	Photoacoustic detection of low duty cycle gratings through optically opaque layers. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	8
28	Femtosecond time-resolved pump-probe measurements on percolating gold in the ablation regime. <i>Optics Express</i> , 2020, 28, 12093.	3.4	7
29	Ultrafast laser-induced strain waves in thin ruthenium layers. <i>Optics Express</i> , 2021, 29, 32051.	3.4	5
30	Measurement of THz Spot Sizes with a $\lambda/200$ Diameter in the Near-Field of a Metal Tip. <i>Journal of Biological Physics</i> , 2003, 29, 239-245.	1.5	4
31	Noise suppression of a differential detector under high levels of illumination, relevant to terahertz electro-optic sampling. <i>Review of Scientific Instruments</i> , 2005, 76, 073104.	1.3	1
32	Terahertz near-field microscopy. , 2005, , .		1
33	Plasmonic enhancement of photoacoustic strain-waves on gold gratings. <i>AIP Advances</i> , 2022, 12, 025227.	1.3	1
34	THz near-field measurement of a square hole. , 2007, , .		0
35	Near-Field Imaging of Surface Waves for Periodic Hole Arrays: Comparison between Metal and Absorber. , 2007, , .		0
36	Terahertz wave focusing at localized surface plasmon resonance. , 2008, , .		0

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37	Vector field mapping of THz-electromagnetic wave transmitted through quadruple square holes. , 2008, , .		0
38	Near-Field Imaging of Subwavelength Circular Hole Arrays at Terahertz Frequencies. , 2008, , .		0
39	Poynting vector mapping of Terahertz wave transmission through metallic grating. , 2008, , .		0
40	Terahertz inverse-Fourier transform image synthesis. , 2008, , .		0
41	Influence of the dielectric substrate on the terahertz electric near-field of a hole in a metal. , 2010, , .		0
42	Near-field microscopy of THz fields near metal structures. , 2007, , .		0