

# Peter B Catrysse

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3539581/publications.pdf>

Version: 2024-02-01

49  
papers

4,635  
citations

257450

24  
h-index

315739

38  
g-index

51  
all docs

51  
docs citations

51  
times ranked

4029  
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , 2016, 353, 1019-1023.	12.6	764
2	Planar Lenses Based on Nanoscale Slit Arrays in a Metallic Film. <i>Nano Letters</i> , 2009, 9, 235-238.	9.1	463
3	A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , 2017, 3, e1700895.	10.3	399
4	Nanoporous polyethylene microfibrils for large-scale radiative cooling fabric. <i>Nature Sustainability</i> , 2018, 1, 105-112.	23.7	370
5	Spectrally Selective Nanocomposite Textile for Outdoor Personal Cooling. <i>Advanced Materials</i> , 2018, 30, e1802152.	21.0	362
6	Mechanism for Designing Metallic Metamaterials with a High Index of Refraction. <i>Physical Review Letters</i> , 2005, 94, 197401.	7.8	324
7	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , 2017, 8, 496.	12.8	280
8	Nanopatterned Metallic Films for Use As Transparent Conductive Electrodes in Optoelectronic Devices. <i>Nano Letters</i> , 2010, 10, 2944-2949.	9.1	207
9	From Electromagnetically Induced Transparency to Superscattering with a Single Structure: A Coupled-Mode Theory for Doubly Resonant Structures. <i>Physical Review Letters</i> , 2012, 108, 083902.	7.8	193
10	Subambient daytime radiative cooling textile based on nanoprocessed silk. <i>Nature Nanotechnology</i> , 2021, 16, 1342-1348.	31.5	178
11	Curving monolithic silicon for nonplanar focal plane array applications. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	98
12	Integrated color pixels in 018-Åum complementary metal oxide semiconductor technology. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 2293.	1.5	79
13	Temporal coupled-mode theory for resonant apertures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 1947.	2.1	76
14	Digital camera simulation. <i>Applied Optics</i> , 2012, 51, A80.	1.8	75
15	Microlens performance limits in sub-21¼m pixel CMOS image sensors. <i>Optics Express</i> , 2010, 18, 5861.	3.4	71
16	Photonic Structure Textile Design for Localized Thermal Cooling Based on a Fiber Blending Scheme. <i>ACS Photonics</i> , 2016, 3, 2420-2426.	6.6	71
17	Optical efficiency of image sensor pixels. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2002, 19, 1610.	1.5	67
18	Planar metallic nanoscale slit lenses for angle compensation. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	64

#	ARTICLE	IF	CITATIONS
19	Understanding the dispersion of coaxial plasmonic structures through a connection with the planar metal-insulator-metal geometry. Applied Physics Letters, 2009, 94, 231111.	3.3	62
20	Cut-Through Metal Slit Array as an Anisotropic Metamaterial Film. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1116-1122.	2.9	51
21	One-mode model for patterned metal layers inside integrated color pixels. Optics Letters, 2004, 29, 974.	3.3	49
22	Optical confinement methods for continued scaling of CMOS image sensor pixels. Optics Express, 2008, 16, 20457.	3.4	49
23	Near-complete transmission through subwavelength hole arrays in phonon-polaritonic thin films. Physical Review B, 2007, 75, .	3.2	45
24	Roadmap for CMOS image sensors: Moore meets Planck and Sommerfeld. , 2005, , .		42
25	Perfect RGB Color Routers for Sub-Wavelength Size CMOS Image Sensor Pixels. Advanced Photonics Research, 2021, 2, 2000048.	3.6	31
26	QE reduction due to pixel vignetting in CMOS image sensors. , 2000, 3965, 420.		29
27	Routing of Deep-Subwavelength Optical Beams and Images without Reflection and Diffraction Using Infinitely Anisotropic Metamaterials. Advanced Materials, 2013, 25, 194-198.	21.0	24
28	Transverse Electromagnetic Modes in Aperture Waveguides Containing a Metamaterial with Extreme Anisotropy. Physical Review Letters, 2011, 106, 223902.	7.8	22
29	Pixel scaling in infrared focal plane arrays. Applied Optics, 2013, 52, C72.	1.8	15
30	Spectral light separator based on deep-subwavelength resonant apertures in a metallic film. Applied Physics Letters, 2014, 105, .	3.3	13
31	Planar, Ultrathin, Subwavelength Spectral Light Separator for Efficient, Wide-Angle Spectral Imaging. ACS Photonics, 2017, 4, 525-535.	6.6	12
32	Subwavelength Bayer RGB color routers with perfect optical efficiency. Nanophotonics, 2022, 11, 2381-2387.	6.0	11
33	Effects of imaging lens f-number on sub-2 Å, Å CMOS image sensor pixel performance. Proceedings of SPIE, 2009, , .	0.8	6
34	Scattering of electromagnetic waves by cylinder inside uniaxial hyperbolic medium. Optics Express, 2019, 27, 3991.	3.4	6
35	Monolithic Integration of Electronics and Sub-wavelength Metal Optics in Deep Submicron CMOS Technology. Materials Research Society Symposia Proceedings, 2005, 869, 151.	0.1	5
36	Extraordinary Transmission Through A Poly-SiC Membrane with Subwavelength Hole Arrays. , 2007, , .		3

#	ARTICLE	IF	CITATIONS
37	Beaming light into the nanoworld. Nature Physics, 2007, 3, 839-840.	16.7	3
38	Broadband Control of Topological Nodes in Electromagnetic Fields. Physical Review Letters, 2018, 120, 193903.	7.8	3
39	Deep-subwavelength cylindrical waveguides with extremely low cutoff frequency. , 2008, , .		2
40	Imaging systems and applications. Applied Optics, 2013, 52, ISA1.	1.8	2
41	Integration of optical functionality for image sensing through sub-wavelength geometry design. , 2015, , .		2
42	Complete power concentration into a single waveguide in large-scale waveguide array lenses. Scientific Reports, 2015, 4, 6635.	3.3	1
43	Spectral Light Separator: The Subwavelength-size Device to Spectrally Decompose Light in an Efficient Way. , 2015, , .		1
44	Phonon Polariton Reflectance Spectra In a Silicon Carbide Membrane Hole Array. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
45	Transparent electrode designs based on optimal nano-patterning of metallic films. , 2010, , .		0
46	Routing of deep-subwavelength optical beams without reflection and diffraction using infinitely anisotropic metamaterials. , 2015, , .		0
47	Nanophotonics for Solid-State Imaging. , 2010, , .		0
48	Pixel Scaling in Infrared Focal Plane Arrays. , 2012, , .		0
49	Perfect RGB-IR color routers for sub-wavelength size CMOS image sensor pixels. , 2021, , .		0