

Nanfang Yu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6923176/nanfang-yu-publications-by-citations.pdf>

Version: 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

19,327
citations

41
h-index

94
g-index

94
ext. papers

24,155
ext. citations

12
avg, IF

7.19
L-index

#	Paper	IF	Citations
81	Light propagation with phase discontinuities: generalized laws of reflection and refraction. <i>Science</i> , 2011 , 334, 333-7	33.3	4912
80	Flat optics with designer metasurfaces. <i>Nature Materials</i> , 2014 , 13, 139-50	27	3095
79	Coaxial silicon nanowires as solar cells and nanoelectronic power sources. <i>Nature</i> , 2007 , 449, 885-9	50.4	2531
78	Aberration-free ultrathin flat lenses and axicons at telecom wavelengths based on plasmonic metasurfaces. <i>Nano Letters</i> , 2012 , 12, 4932-6	11.5	1177
77	A review of metasurfaces: physics and applications. <i>Reports on Progress in Physics</i> , 2016 , 79, 076401	14.4	931
76	A broadband, background-free quarter-wave plate based on plasmonic metasurfaces. <i>Nano Letters</i> , 2012 , 12, 6328-33	11.5	839
75	Hierarchically porous polymer coatings for highly efficient passive daytime radiative cooling. <i>Science</i> , 2018 , 362, 315-319	33.3	541
74	Broad electrical tuning of graphene-loaded plasmonic antennas. <i>Nano Letters</i> , 2013 , 13, 1257-64	11.5	458
73	Out-of-plane reflection and refraction of light by anisotropic optical antenna metasurfaces with phase discontinuities. <i>Nano Letters</i> , 2012 , 12, 1702-6	11.5	388
72	Ultra-thin plasmonic optical vortex plate based on phase discontinuities. <i>Applied Physics Letters</i> , 2012 , 100, 013101	3.4	384
71	Thermal physiology. Keeping cool: Enhanced optical reflection and radiative heat dissipation in Saharan silver ants. <i>Science</i> , 2015 , 349, 298-301	33.3	275
70	Broadband achromatic dielectric metalenses. <i>Light: Science and Applications</i> , 2018 , 7, 85	16.7	229
69	Designer spoof surface plasmon structures collimate terahertz laser beams. <i>Nature Materials</i> , 2010 , 9, 730-5	27	212
68	Controlling propagation and coupling of waveguide modes using phase-gradient metasurfaces. <i>Nature Nanotechnology</i> , 2017 , 12, 675-683	28.7	207
67	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 4700423-4700423	3.8	201
66	Small-divergence semiconductor lasers by plasmonic collimation. <i>Nature Photonics</i> , 2008 , 2, 564-570	33.9	179
65	Whispering-gallery mode resonators for highly unidirectional laser action. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22407-12	11.5	151

64	Dielectric metasurfaces for complete and independent control of the optical amplitude and phase. <i>Light: Science and Applications</i> , 2019 , 8, 92	16.7	144
63	Modulation of mid-infrared light using graphene-metal plasmonic antennas. <i>Applied Physics Letters</i> , 2013 , 102, 131108	3.4	124
62	Bowtie plasmonic quantum cascade laser antenna. <i>Optics Express</i> , 2007 , 15, 13272-81	3.3	121
61	Effect of radiation damping on the spectral response of plasmonic components. <i>Optics Express</i> , 2011 , 19, 21748-53	3.3	102
60	Spoof plasmon analogue of metal-insulator-metal waveguides. <i>Optics Express</i> , 2011 , 19, 14860-70	3.3	96
59	Plasmonic Laser Antennas and Related Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008 , 14, 1448-1461	3.8	93
58	Perovskite nickelates as electric-field sensors in salt water. <i>Nature</i> , 2018 , 553, 68-72	50.4	91
57	High efficiency near diffraction-limited mid-infrared flat lenses based on metasurface reflectarrays. <i>Optics Express</i> , 2016 , 24, 18024-34	3.3	90
56	Paints as a Scalable and Effective Radiative Cooling Technology for Buildings. <i>Joule</i> , 2020 , 4, 1350-1356	27.8	88
55	Metasurface-assisted phase-matching-free second harmonic generation in lithium niobate waveguides. <i>Nature Communications</i> , 2017 , 8, 2098	17.4	84
54	Modeling nanoscale V-shaped antennas for the design of optical phased arrays. <i>Physical Review B</i> , 2012 , 85,	3.3	81
53	Directional emission and universal far-field behavior from semiconductor lasers with limaón-shaped microcavity. <i>Applied Physics Letters</i> , 2009 , 94, 251101	3.4	81
52	Porous Polymers with Switchable Optical Transmittance for Optical and Thermal Regulation. <i>Joule</i> , 2019 , 3, 3088-3099	27.8	79
51	. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2344-2358	4	77
50	Li4Ti5O12: A Visible-to-Infrared Broadband Electrochromic Material for Optical and Thermal Management. <i>Advanced Functional Materials</i> , 2018 , 28, 1802180	15.6	74
49	Optical conductivity-based ultrasensitive mid-infrared biosensing on a hybrid metasurface. <i>Light: Science and Applications</i> , 2018 , 7, 67	16.7	72
48	Scalable, "Dip-and-Dry" Fabrication of a Wide-Angle Plasmonic Selective Absorber for High-Efficiency Solar-Thermal Energy Conversion. <i>Advanced Materials</i> , 2017 , 29, 1702156	24	71
47	Colored and paintable bilayer coatings with high solar-infrared reflectance for efficient cooling. <i>Science Advances</i> , 2020 , 6, eaaz5413	14.3	62

46	Tunability of indium tin oxide materials for mid-infrared plasmonics applications. <i>Optical Materials Express</i> , 2017 , 7, 2727	2.6	56
45	Correlated Perovskites as a New Platform for Super-Broadband-Tunable Photonics. <i>Advanced Materials</i> , 2016 , 28, 9117-9125	24	55
44	Plasmonic quantum cascade laser antenna. <i>Applied Physics Letters</i> , 2007 , 91, 173113	3-4	53
43	Semiconductor lasers with integrated plasmonic polarizers. <i>Applied Physics Letters</i> , 2009 , 94, 151101	3-4	52
42	Indium Tin Oxide Broadband Metasurface Absorber. <i>ACS Photonics</i> , 2018 , 5, 3526-3533	6-3	50
41	Physical and behavioral adaptations to prevent overheating of the living wings of butterflies. <i>Nature Communications</i> , 2020 , 11, 551	17.4	48
40	Quantum cascade lasers with integrated plasmonic antenna-array collimators. <i>Optics Express</i> , 2008 , 16, 19447-61	3-3	41
39	Coherent coupling of multiple transverse modes in quantum cascade lasers. <i>Physical Review Letters</i> , 2009 , 102, 013901	7-4	40
38	Small divergence edge-emitting semiconductor lasers with two-dimensional plasmonic collimators. <i>Applied Physics Letters</i> , 2008 , 93, 181101	3-4	39
37	Selection rules for quasibound states in the continuum. <i>Physical Review B</i> , 2020 , 102,	3-3	38
36	High-Performance Quantum Cascade Lasers Grown by Metal-Organic Vapor Phase Epitaxy and Their Applications to Trace Gas Sensing. <i>Journal of Lightwave Technology</i> , 2008 , 26, 3534-3555	4	37
35	Chiral Quasi-Bound States in the Continuum. <i>Physical Review Letters</i> , 2021 , 126, 073001	7-4	36
34	Hybrid Metasurface-Based Mid-Infrared Biosensor for Simultaneous Quantification and Identification of Monolayer Protein. <i>ACS Photonics</i> , 2019 , 6, 501-509	6-3	34
33	Near-field imaging of quantum cascade laser transverse modes. <i>Optics Express</i> , 2007 , 15, 13227-35	3-3	34
32	Dimerized high contrast gratings. <i>Nanophotonics</i> , 2018 , 7, 1157-1168	6-3	33
31	Nanostructured fibers as a versatile photonic platform: radiative cooling and waveguiding through transverse Anderson localization. <i>Light: Science and Applications</i> , 2018 , 7, 37	16.7	31
30	Multifunctional Nonlocal Metasurfaces. <i>Physical Review Letters</i> , 2020 , 125, 017402	7-4	29
29	Multi-wavelength mid-infrared plasmonic antennas with single nanoscale focal point. <i>Optics Express</i> , 2011 , 19, 22113-24	3-3	27

28	Designing Mesoporous Photonic Structures for High-Performance Passive Daytime Radiative Cooling. <i>Nano Letters</i> , 2021 , 21, 1412-1418	11.5	26
27	Deformed microcavity quantum cascade lasers with directional emission. <i>New Journal of Physics</i> , 2009 , 11, 125018	2.9	23
26	Gain competition in dual wavelength quantum cascade lasers. <i>Optics Express</i> , 2010 , 18, 9900-8	3.3	20
25	Controlled modification of erbium lifetime in silicon dioxide with metallic overlayers. <i>Applied Physics Letters</i> , 2007 , 91, 131103	3.4	20
24	Multi-beam multi-wavelength semiconductor lasers. <i>Applied Physics Letters</i> , 2009 , 95, 161108	3.4	19
23	A Scalable Dealloying Technique To Create Thermally Stable Plasmonic Nickel Selective Solar Absorbers. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6551-6557	6.1	18
22	Scalable Aqueous Processing-Based Passive Daytime Radiative Cooling Coatings. <i>Advanced Functional Materials</i> , 2021 , 31, 2010334	15.6	17
21	High-power low-divergence tapered quantum cascade lasers with plasmonic collimators. <i>Applied Physics Letters</i> , 2013 , 102, 191114	3.4	13
20	Targeted Sub-Attomole Cancer Biomarker Detection Based on Phase Singularity 2D Nanomaterial-Enhanced Plasmonic Biosensor. <i>Nano-Micro Letters</i> , 2021 , 13, 96	19.5	12
19	Nonlinear optical interactions of laser modes in quantum cascade lasers. <i>Journal of Modern Optics</i> , 2011 , 58, 727-742	1.1	11
18	Self-synchronization of laser modes and multistability in quantum cascade lasers. <i>Physical Review Letters</i> , 2011 , 106, 133902	7.4	10
17	Active nonlocal metasurfaces. <i>Nanophotonics</i> , 2020 , 10, 655-665	6.3	9
16	Robust, efficient, micrometre-scale phase modulators at visible wavelengths. <i>Nature Photonics</i> , 2021 , 15, 908-913	33.9	9
15	Design and experiment of a sun-powered smart building envelope with automatic control. <i>Energy and Buildings</i> , 2020 , 223, 110173	7	8
14	The evolution of red color vision is linked to coordinated rhodopsin tuning in lycaenid butterflies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
13	Nonlinear coupling of transverse modes in quantum cascade lasers. <i>Optical Engineering</i> , 2010 , 49, 111114.1	4.1	7
12	Plasmonic Metasensors Based on 2D Hybrid Atomically Thin Perovskite Nanomaterials. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
11	Enhanced harmonic generation in gases using an all-dielectric metasurface. <i>Nanophotonics</i> , 2020 , 10, 733-740	6.3	4

- 10 Planar nonlinear metasurface optics and their applications. *Reports on Progress in Physics*, **2020**, 83, 126101.4 4
- 9 Nonlinear dynamics of coupled transverse modes in quantum cascade lasers. *Journal of Modern Optics*, **2010**, 57, 1892-1899 1.1 3
- 8 Micron-scale, Efficient, Robust Phase Modulators in the Visible **2019**, 2
- 7 The evolution of red colour vision is linked to coordinated rhodopsin tuning in lycaenid butterflies 2
- 6 Selective Solar Absorbers: Scalable, Dip-and-Dry Fabrication of a Wide-Angle Plasmonic Selective Absorber for High-Efficiency Solar Thermal Energy Conversion (Adv. Mater. 41/2017). *Advanced Materials*, **2017**, 29, 24 1
- 5 Coaxial silicon nanowires as solar cells and nanoelectronic power sources **2010**, 58-62 1
- 4 Free-Space Modulators Based on Dimerized High Contrast Gratings **2019**, 1
- 3 Robust Miniature Pure-Phase Modulators at $k = 488$ nm **2020**, 1
- 2 Controlling Light Propagation with Interfacial Phase Discontinuities **2013**, 171-217
- 1 Controlled Modification of Erbium Lifetime in Silicon Dioxide Film with Chromium or Titanium Coatings. *Materials Research Society Symposia Proceedings*, **2007**, 1055, 1