

# Mikko J Huttunen

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

1,264  
citations

489802

18  
h-index

466096

32  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband frequency conversion of ultrashort pulses using high-Q metasurface resonators. <i>New Journal of Physics</i> , 2022, 24, 025004.	1.2	3
2	Multiply-resonant second-harmonic generation using surface lattice resonances in aluminum metasurfaces. <i>Optics Express</i> , 2022, 30, 3620.	1.7	15
3	Fourier-Engineered Plasmonic Lattice Resonances. <i>ACS Nano</i> , 2022, 16, 5696-5703.	7.3	11
4	Cross-polarized surface lattice resonances in a rectangular lattice plasmonic metasurface. <i>Optics Letters</i> , 2022, 47, 2105.	1.7	3
5	Thermal Control of Plasmonic Surface Lattice Resonances. <i>Nano Letters</i> , 2022, 22, 3879-3883.	4.5	8
6	Backward Phase-Matched Second-Harmonic Generation from Stacked Metasurfaces. <i>Physical Review Letters</i> , 2021, 126, 033901.	2.9	32
7	Ultra-high-Q resonances in plasmonic metasurfaces. <i>Nature Communications</i> , 2021, 12, 974.	5.8	212
8	Spectral Vector Beams for High-Speed Spectroscopic Measurements. , 2021, , .		0
9	Spectral vector beams for high-speed spectroscopic measurements. <i>Optica</i> , 2021, 8, 930.	4.8	11
10	Temperature-tunable Surface Lattice Resonances in Plasmonic Metasurfaces. , 2021, , .		0
11	Ultra-High-Q ( $\sim 2400$ ) Lattice Resonances in Plasmonic Metasurface for Flat Optics. , 2021, , .		0
12	Hyperpolarizability of Plasmonic Meta-Atoms in Metasurfaces. <i>Nano Letters</i> , 2021, 21, 51-59.	4.5	9
13	Plasmonic Metasurfaces with Ultra-High-Q ( $\sim 2400$ ) Lattice Resonances for Sensing, LiDAR Nanolasing and Imaging. , 2021, , .		0
14	Multimode Surface Lattice Resonance Hybridization. , 2021, , .		0
15	Non-local Field Effects in Nonlinear Plasmonic Metasurfaces. , 2020, , .		1
16	Fast tissue investigation using label-free point- and angle-scanning widefield multiphoton microscopies. , 2020, , .		0
17	Plasmonic metasurfaces with high-Q nanocavities. , 2020, , .		0
18	Multiphoton microscopy of the dermoepidermal junction and automated identification of dysplastic tissues with deep learning. <i>Biomedical Optics Express</i> , 2020, 11, 186.	1.5	21

#	ARTICLE	IF	CITATIONS
19	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		1
20	Microscopic nonlinear optical response of plasmonic meta-atoms. , 2020, , .		0
21	Transient perturbative nonlinear responses of plasmonic materials. Physical Review A, 2020, 102, .	1.0	1
22	Hyperpolarizability measurement of plasmonic meta-atoms in metasurfaces. , 2020, , .		0
23	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		2
24	Engineering Local Fields in Nonlinear Plasmonic Metasurfaces -INVITED. EPJ Web of Conferences, 2020, 238, 11002.	0.1	0
25	Nonlinear plasmonic metasurfaces using multiresonant surface lattice resonances. , 2020, , .		1
26	Efficient Nonlinear Metasurfaces using Multiresonant High-Q Plasmonic Arrays. , 2019, , .		1
27	Multiresonant High-Q Plasmonic Metasurfaces. Nano Letters, 2019, 19, 6429-6434.	4.5	63
28	Nonlinear plasmonic metasurfaces. Journal of Nonlinear Optical Physics and Materials, 2019, 28, 1950001.	1.1	8
29	Investigating Human Skin Using Deep Learning Enhanced Multiphoton Microscopy. , 2019, , .		0
30	Multi-Resonant High-Q Plasmonic Metasurface. , 2019, , .		0
31	Towards Efficient Nonlinear Plasmonic Metasurfaces. , 2019, , .		0
32	High-Q resonance train in a plasmonic metasurface. , 2019, , .		1
33	Efficient nonlinear metasurfaces by using multiresonant high-Q plasmonic arrays. Journal of the Optical Society of America B: Optical Physics, 2019, 36, E30.	0.9	39
34	Hybrid plasmonic high Q-factor resonances in a periodic metasurface. , 2019, , .		0
35	Nonlinear Label-Free Super-Resolution Microscopy Using Structured Illumination. Biological and Medical Physics Series, 2019, , 289-312.	0.3	0
36	Label-Free Super-Resolution Microscopy with Coherent Nonlinear Structured-Illumination. , 2018, , .		0

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37	Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. <i>Nano Letters</i> , 2018, 18, 7709-7714.	4.5	77
38	Using surface lattice resonances to engineer nonlinear optical processes in metal nanoparticle arrays. <i>Physical Review A</i> , 2018, 97, .	1.0	41
39	Automated classification of multiphoton microscopy images of ovarian tissue using deep learning. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	41
40	Label-free super-resolution with coherent nonlinear structured-illumination microscopy. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 085504.	1.0	14
41	Rapid visualization of grain boundaries in monolayer MoS <sub>2</sub> by multiphoton microscopy. <i>Nature Communications</i> , 2017, 8, 15714.	5.8	120
42	Ultra-strong polarization dependence of surface lattice resonances with out-of-plane plasmon oscillations. <i>Optics Express</i> , 2016, 24, 28279.	1.7	47
43	Surface lattice resonance-enhanced magneto-optical effects in Ni nanoparticle arrays. , 2015, , .		0
44	Second-Harmonic Generation Imaging of Semiconductor Nanowires with Focused Vector Beams. <i>Nano Letters</i> , 2015, 15, 1564-1569.	4.5	66
45	Three-dimensional winged nanocone optical antennas. <i>Optics Letters</i> , 2014, 39, 3686.	1.7	16
46	Polarized THG Microscopy Identifies Compositionally Different Lipid Droplets in Mammalian Cells. <i>Biophysical Journal</i> , 2014, 107, 2230-2236.	0.2	31
47	Microscopic Determination of Second-Order Nonlinear Optical Susceptibility Tensors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26409-26414.	1.5	3
48	Nonlinear microscopy of metal nano-objects with unconventional polarizations. , 2014, , .		0
49	Microscopic second-order susceptibility tensor analysis. , 2013, , .		0
50	Third- and second-harmonic generation microscopy of individual metal nanocones using cylindrical vector beams. <i>Optics Express</i> , 2013, 21, 21918.	1.7	35
51	Second-Harmonic Generation Imaging of Metal Nano-Objects with Cylindrical Vector Beams. <i>Nano Letters</i> , 2012, 12, 3207-3212.	4.5	147
52	POLARIZATION-CONTROLLABLE WINGED NANOCONE TIP ANTENNA. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2011, 20, 415-425.	1.1	3
53	Nonlinear chiral imaging of subwavelength-sized twisted-cross gold nanodimers [Invited]. <i>Optical Materials Express</i> , 2011, 1, 46.	1.6	68
54	Vectorial second harmonic generation imaging of gold nanocones. , 2011, , .		0

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55	Absolute Probe of Surface Chirality Based on Focused Circularly Polarized Light. Journal of Physical Chemistry Letters, 2010, 1, 1826-1829.	2.1	19
56	Tip-enhanced Raman scattering from bridged nanocones. Optics Express, 2010, 18, 23790.	1.7	14
57	Absolute nonlinear optical probes of surface chirality. Journal of Optics, 2009, 11, 034006.	1.5	29
58	Nanoimprint fabrication of gold nanocones with ~10 nm tips for enhanced optical interactions. Optics Letters, 2009, 34, 1979.	1.7	50