

Mikko J Huttunen

List of Publications by Year in descending order

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58
papers

1,264
citations

430874

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414414

32
g-index

59
all docs

59
docs citations

59
times ranked

1641
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high-Q resonances in plasmonic metasurfaces. Nature Communications, 2021, 12, 974.	12.8	212
2	Second-Harmonic Generation Imaging of Metal Nano-Objects with Cylindrical Vector Beams. Nano Letters, 2012, 12, 3207-3212.	9.1	147
3	Rapid visualization of grain boundaries in monolayer MoS ₂ by multiphoton microscopy. Nature Communications, 2017, 8, 15714.	12.8	120
4	Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. Nano Letters, 2018, 18, 7709-7714.	9.1	77
5	Nonlinear chiral imaging of subwavelength-sized twisted-cross gold nanodimers [Invited]. Optical Materials Express, 2011, 1, 46.	3.0	68
6	Second-Harmonic Generation Imaging of Semiconductor Nanowires with Focused Vector Beams. Nano Letters, 2015, 15, 1564-1569.	9.1	66
7	Multiresonant High-Q Plasmonic Metasurfaces. Nano Letters, 2019, 19, 6429-6434.	9.1	63
8	Nanoimprint fabrication of gold nanocones with ~10 nm tips for enhanced optical interactions. Optics Letters, 2009, 34, 1979.	3.3	50
9	Ultra-strong polarization dependence of surface lattice resonances with out-of-plane plasmon oscillations. Optics Express, 2016, 24, 28279.	3.4	47
10	Using surface lattice resonances to engineer nonlinear optical processes in metal nanoparticle arrays. Physical Review A, 2018, 97, .	2.5	41
11	Automated classification of multiphoton microscopy images of ovarian tissue using deep learning. Journal of Biomedical Optics, 2018, 23, 1.	2.6	41
12	Efficient nonlinear metasurfaces by using multiresonant high-Q plasmonic arrays. Journal of the Optical Society of America B: Optical Physics, 2019, 36, E30.	2.1	39
13	Third- and second-harmonic generation microscopy of individual metal nanocones using cylindrical vector beams. Optics Express, 2013, 21, 21918.	3.4	35
14	Backward Phase-Matched Second-Harmonic Generation from Stacked Metasurfaces. Physical Review Letters, 2021, 126, 033901.	7.8	32
15	Polarized THG Microscopy Identifies Compositionally Different Lipid Droplets in Mammalian Cells. Biophysical Journal, 2014, 107, 2230-2236.	0.5	31
16	Absolute nonlinear optical probes of surface chirality. Journal of Optics, 2009, 11, 034006.	1.5	29
17	Multiphoton microscopy of the dermoepidermal junction and automated identification of dysplastic tissues with deep learning. Biomedical Optics Express, 2020, 11, 186.	2.9	21
18	Absolute Probe of Surface Chirality Based on Focused Circularly Polarized Light. Journal of Physical Chemistry Letters, 2010, 1, 1826-1829.	4.6	19

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19	Three-dimensional winged nanocone optical antennas. <i>Optics Letters</i> , 2014, 39, 3686.	3.3	16
20	Multiply-resonant second-harmonic generation using surface lattice resonances in aluminum metasurfaces. <i>Optics Express</i> , 2022, 30, 3620.	3.4	15
21	Tip-enhanced Raman scattering from bridged nanocones. <i>Optics Express</i> , 2010, 18, 23790.	3.4	14
22	Label-free super-resolution with coherent nonlinear structured-illumination microscopy. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 085504.	2.2	14
23	Spectral vector beams for high-speed spectroscopic measurements. <i>Optica</i> , 2021, 8, 930.	9.3	11
24	Fourier-Engineered Plasmonic Lattice Resonances. <i>ACS Nano</i> , 2022, 16, 5696-5703.	14.6	11
25	Hyperpolarizability of Plasmonic Meta-Atoms in Metasurfaces. <i>Nano Letters</i> , 2021, 21, 51-59.	9.1	9
26	Nonlinear plasmonic metasurfaces. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2019, 28, 1950001.	1.8	8
27	Thermal Control of Plasmonic Surface Lattice Resonances. <i>Nano Letters</i> , 2022, 22, 3879-3883.	9.1	8
28	POLARIZATION-CONTROLLABLE WINGED NANOCONE TIP ANTENNA. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2011, 20, 415-425.	1.8	3
29	Microscopic Determination of Second-Order Nonlinear Optical Susceptibility Tensors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26409-26414.	3.1	3
30	Broadband frequency conversion of ultrashort pulses using high-Q metasurface resonators. <i>New Journal of Physics</i> , 2022, 24, 025004.	2.9	3
31	Cross-polarized surface lattice resonances in a rectangular lattice plasmonic metasurface. <i>Optics Letters</i> , 2022, 47, 2105.	3.3	3
32	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		2
33	Efficient Nonlinear Metasurfaces using Multiresonant High-Q Plasmonic Arrays. , 2019, , .		1
34	Non-local Field Effects in Nonlinear Plasmonic Metasurfaces. , 2020, , .		1
35	High-Q resonance train in a plasmonic metasurface. , 2019, , .		1
36	Ultra-High-Q Resonance in a Plasmonic Metasurface. , 2020, , .		1

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37	Transient perturbative nonlinear responses of plasmonic materials. <i>Physical Review A</i> , 2020, 102, .	2.5	1
38	Nonlinear plasmonic metasurfaces using multiresonant surface lattice resonances. , 2020, , .		1
39	Vectorial second harmonic generation imaging of gold nanocones. , 2011, , .		0
40	Microscopic second-order susceptibility tensor analysis. , 2013, , .		0
41	Nonlinear microscopy of metal nano-objects with unconventional polarizations. , 2014, , .		0
42	Surface lattice resonance-enhanced magneto-optical effects in Ni nanoparticle arrays. , 2015, , .		0
43	Label-Free Super-Resolution Microscopy with Coherent Nonlinear Structured-Illumination. , 2018, , .		0
44	Investigating Human Skin Using Deep Learning Enhanced Multiphoton Microscopy. , 2019, , .		0
45	Multi-Resonant High-Q Plasmonic Metasurface. , 2019, , .		0
46	Towards Efficient Nonlinear Plasmonic Metasurfaces. , 2019, , .		0
47	Fast tissue investigation using label-free point- and angle-scanning widefield multiphoton microscopies. , 2020, , .		0
48	Plasmonic metasurfaces with high-Q nanocavities. , 2020, , .		0
49	Spectral Vector Beams for High-Speed Spectroscopic Measurements. , 2021, , .		0
50	Temperature-tunable Surface Lattice Resonances in Plasmonic Metasurfaces. , 2021, , .		0
51	Ultra-High-Q (~ 2400) Lattice Resonances in Plasmonic Metasurface for Flat Optics. , 2021, , .		0
52	Hybrid plasmonic high Q-factor resonances in a periodic metasurface. , 2019, , .		0
53	Nonlinear Label-Free Super-Resolution Microscopy Using Structured Illumination. <i>Biological and Medical Physics Series</i> , 2019, , 289-312.	0.4	0
54	Microscopic nonlinear optical response of plasmonic meta-atoms. , 2020, , .		0

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55	Plasmonic Metasurfaces with Ultra-High-Q (~ 2400) Lattice Resonances for Sensing, LiDAR Nanolasing and Imaging. , 2021, , .		0
56	Hyperpolarizability measurement of plasmonic meta-atoms in metasurfaces. , 2020, , .		0
57	Engineering Local Fields in Nonlinear Plasmonic Metasurfaces -INVITED. EPJ Web of Conferences, 2020, 238, 11002.	0.3	0
58	Multimode Surface Lattice Resonance Hybridization. , 2021, , .		0