Nezih T Yardimci

List of Publications by Year
in descending order

58 papers	2,322 citations	471061 17 h-index	713013 21 g-index
59 all docs	59 docs citations	59 times ranked	1917 citing authors

#	Article	IF	Citations
1	All-optical machine learning using diffractive deep neural networks. Science, 2018, 361, 1004-1008.	6.0	1,105
2	High-Power Terahertz Generation Using Large-Area Plasmonic Photoconductive Emitters. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 223-229.	2.0	182
3	Design of task-specific optical systems using broadband diffractive neural networks. Light: Science and Applications, 2019, 8, 112.	7.7	150
4	Terahertz pulse shaping using diffractive surfaces. Nature Communications, 2021, 12, 37.	5.8	107
5	Nanostructureâ€Enhanced Photoconductive Terahertz Emission and Detection. Small, 2018, 14, e1802437.	5.2	96
6	Spectrally encoded single-pixel machine vision using diffractive networks. Science Advances, 2021, 7, .	4.7	96
7	High Sensitivity Terahertz Detection through Large-Area Plasmonic Nano-Antenna Arrays. Scientific Reports, 2017, 7, 42667.	1.6	93
8	Misalignment resilient diffractive optical networks. Nanophotonics, 2020, 9, 4207-4219.	2.9	75
9	A High-Power Broadband Terahertz Source Enabled by Three-Dimensional Light Confinement in a Plasmonic Nanocavity. Scientific Reports, 2017, 7, 4166.	1.6	70
10	High power telecommunication-compatible photoconductive terahertz emitters based on plasmonic nano-antenna arrays. Applied Physics Letters, 2016, 109, 191103.	1.5	61
11	A high-responsivity and broadband photoconductive terahertz detector based on a plasmonic nanocavity. Applied Physics Letters, 2018, 113, .	1.5	42
12	Impact of substrate characteristics on performance of large area plasmonic photoconductive emitters. Optics Express, 2015, 23, 32035.	1.7	40
13	Prediction of leaf water potential and relative water content using terahertz radiation spectroscopy. Plant Direct, 2020, 4, e00197.	0.8	33
14	Plasmonics-enhanced photoconductive terahertz detector pumped by Ytterbium-doped fiber laser. Optics Express, 2020, 28, 3835.	1.7	33
15	Impact of the Metal Adhesion Layer on the Radiation Power of Plasmonic Photoconductive Terahertz Sources. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1448-1456.	1.2	24
16	A polarization-insensitive plasmonic photoconductive terahertz emitter. AIP Advances, 2017, 7, 115113.	0.6	20
17	Wavelength conversion through plasmon-coupled surface states. Nature Communications, 2021, 12, 4641.	5.8	19
18	Terahertz Nano-Imaging of Electronic Strip Heterogeneity in a Dirac Semimetal. ACS Photonics, 2021, 8, 1873-1880.	3.2	16

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19	Ultrafast carrier dynamics in terahertz photoconductors and photomixers: beyond short-carrier-lifetime semiconductors. Nanophotonics, 2022, 11, 2661-2691.	2.9	16
20	Efficient photoconductive terahertz detection through photon trapping in plasmonic nanocavities. APL Photonics, 2021, 6, 080802.	3.0	14
21	0.4 mW Terahertz Power Generation through Bias-Free, Telecommunication-Compatible, Photoconductive Nano-Antennas. , 2019, , .		5
22	3.8 mW terahertz radiation generation through plasmonic nano-antenna arrays. , 2015, , .		4
23	Plasmonics enhanced terahertz radiation from large area photoconductive emitters. , 2014, , .		3
24	Terahertz Pulse Shaping Using Diffractive Optical Networks. , 2021, , .		3
25	Non-invasive low charge electron beam time-of-arrival diagnostic using a plasmonics-enhanced photoconductive antenna. Applied Physics Letters, 2018, 113, .	1.5	2
26	Misalignment Tolerant Diffractive Optical Networks. , 2021, , .		2
27	High-performance terahertz detectors based on plasmonic nano-antennas. , 2016, , .		1
28	High-power, broadband terahertz radiation from large area plasmonic photoconductive emitters operating at telecommunication optical wavelengths. , 2016, , .		1
29	High-sensitivity, broadband terahertz detectors based on plasmonic nano-antenna arrays. , 2017, , .		1
30	Plasmonic nano-antenna arrays for high-sensitivity and broadband terahertz detection. , 2017, , .		1
31	High-Power Terahertz Generation from Bias-Free, Telecommunication-Compatible Photoconductive Nanoantennas. , 2019, , .		1
32	25 mW Pulsed Terahertz Radiation from Bias-Free, Telecommunication-Compatible Plasmonic Nanoantennas. , 2019, , .		1
33	1550 nm Large-Area Plasmonic Photoconductive Terahertz Sources. , 2016, , .		1
34	High-Responsivity and Broadband Photoconductive Terahertz Detection via Photon Trapping. , 2019, , .		1
35	Deep Learning-designed Diffractive Neural Networks. , 2019, , .		1
36	Broadband Diffractive Neural Networks. , 2020, , .		1

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37	Broadband Terahertz Detection with 100 dB Dynamic Range through a High Switching-Contrast Plasmonic Nanocavity. , 2021, , .		1
38	Large Area Plasmonic Photoconductive Emitters for Generating High Power Broadband Terahertz Radiation. , 2014, , .		0
39	3.8 mW terahertz radiation generation over a 5 THz radiation bandwidth through large area plasmonic photoconductive antennas. , 2015, , .		0
40	Terahertz Radiation Enhancement in Large-Area Photoconductive Sources by Using Plasmonic Nanoantennas. , 2015, , .		0
41	Plasmonic large-area photoconductive emitters operating at 1550 nm. , 2016, , .		0
42	Telecommunication compatible terahertz emitters based on plasmonic nano-antenna arrays. , 2016, , .		0
43	Plasmonics-enhanced large-area terahertz detectors (Conference Presentation). , 2017, , .		0
44	Significant efficiency enhancement in photoconductive terahertz emitters through three-dimensional light confinement. , 2017, , .		0
45	Three-dimensional plasmonic light concentrators for efficient terahertz generation. , 2017, , .		0
46	Boosting radiation efficiency of photoconductive nano-antennas through 3D light confinement. , 2017, , .		0
47	High-Power photoconductive terahertz source enabled by three-dimensional light confinement. , 2017, , .		0
48	High-Power Terahertz Generation from Telecommunication-Compatible, Bias-Free Photoconductive Nano-Antennas. , 2018, , .		0
49	Terahertz Spectroscopy with Asynchronous Optical Sampling Using a Compact Bidirectional Mode-locked Fiber Laser. , 2018, , .		0
50	Broadband Photoconductive Terahertz Detection with a 100 dB Dynamic Range without Using a Short-Carrier-Lifetime Substrate. , 2019, , .		0
51	High-Sensitivity Plasmonic Photoconductive Terahertz Detector Driven by a Femtosecond Ytterbium-Doped Fiber Laser. , 2020, , .		0
52	Single-Pixel Machine Vision Using Spectral Encoding Through Diffractive Optical Networks. , 2021, , .		0
53	Super-Efficient Terahertz Detection Through High Switching-Contrast Plasmonic Nanocavities. , 2021, , .		0
54	High-Switching Contrast Plasmonic Nanocavities for Terahertz Detection with Extremely High Efficiency. , 2021, , .		0

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55	Highly Efficient Photoconductive Terahertz Generation through Photon Trapping. , 2017, , .		0
56	Broadband Terahertz Detection trough Plasmonic Photoconductive Nano-Antenna Arrays. , 2017, , .		0
57	Pulsed Terahertz Detection with a 95 dB Signal-to-Noise Ratio Using a Femtosecond Ytterbium-Doped Fiber Laser. , 2020, , .		0
58	High Dynamic Range and Broadband Photoconductive Terahertz Detector Driven by a Ytterbium-Doped Femtosecond Fiber Laser. , 2020, , .		0