

Philipp Hillger

List of Publications by Year in descending order

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16
papers

524
citations

1039406

9
h-index

1372195

10
g-index

16
all docs

16
docs citations

16
times ranked

457
citing authors

#	ARTICLE	IF	CITATIONS
1	Terahertz Imaging and Sensing Applications With Silicon-Based Technologies. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 1-19.	2.0	249
2	Pilot study of freshly excised breast tissue response in the 300 – 600 GHz range. Biomedical Optics Express, 2018, 9, 2930.	1.5	48
3	Toward Mobile Integrated Electronic Systems at THz Frequencies. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 846-869.	1.2	32
4	A lens-integrated 430 GHz SiGe HBT source with up to ~6.3 dBm radiated power. , 2017, , .		30
5	A 128-Pixel System-on-a-Chip for Real-Time Super-Resolution Terahertz Near-Field Imaging. IEEE Journal of Solid-State Circuits, 2018, 53, 3599-3612.	3.5	28
6	A 64-Pixel 0.42-THz Source SoC With Spatial Modulation Diversity for Computational Imaging. IEEE Journal of Solid-State Circuits, 2020, 55, 3281-3293.	3.5	27
7	Ex Vivo Breast Tumor Identification: Advances Toward a Silicon-Based Terahertz Near-Field Imaging Sensor. IEEE Microwave Magazine, 2019, 20, 32-46.	0.7	18
8	Terahertz refractive index-based morphological dilation for breast carcinoma delineation. Scientific Reports, 2021, 11, 6457.	1.6	18
9	Terahertz Spectroscope Using CMOS Camera and Dispersive Optics. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 513-523.	2.0	15
10	A Broadband 300 GHz Power Amplifier in a 130 nm SiGe BiCMOS Technology for Communication Applications. IEEE Journal of Solid-State Circuits, 2022, 57, 2024-2034.	3.5	15
11	An antenna-coupled 0.49 THz SiGe HBT source for active illumination in terahertz imaging applications. , 2015, , .		14
12	Low-Cost 0.5 THz computed tomography based on silicon components. , 2017, , .		12
13	Incoherent, spatially-mapped THz spectral analysis. , 2018, , .		9
14	A 239–298 GHz Power Amplifier in an Advanced 130 nm SiGe BiCMOS Technology for Communications Applications. , 2021, , .		7
15	Silicon Lens Optimization to Create Diffuse, Uniform Illumination from Incoherent THz Source Arrays. Journal of Infrared, Millimeter, and Terahertz Waves, 2021, 42, 947-959.	1.2	2
16	Silicon-integrated Single Pixel Terahertz Camera. , 2020, , .		0