

# Nick Rothbart

## List of Publications by Year in descending order

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docs citations

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times ranked

190  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gas Spectroscopy System for Breath Analysis at mm-wave/THz Using SiGe BiCMOS Circuits. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1807-1818.	4.6	63
2	Analysis of Human Breath by Millimeter-Wave/Terahertz Spectroscopy. Sensors, 2019, 19, 2719.	3.8	60
3	A Compact Circular Multipass Cell for Millimeter-Wave/Terahertz Gas Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 9-14.	3.1	26
4	Dual-Band Transmitter and Receiver With Bowtie-Antenna in 0.13 $\mu\text{m}$ SiGe BiCMOS for Gas Spectroscopy at 222 - 270 GHz. IEEE Access, 2021, 9, 124805-124816.	4.2	15
5	A 3.5-THz, $\bar{A}$ -6-Harmonic, Single-Ended Schottky Diode Mixer for Frequency Stabilization of Quantum-Cascade Lasers. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 684-694.	3.1	14
6	Millimeter-wave gas spectroscopy for breath analysis of COPD patients in comparison to GC-MS. Journal of Breath Research, 2022, 16, 046001.	3.0	9
7	Gas Spectroscopy by Voltage-Frequency Tuning of a 245 GHz SiGe Transmitter and Receiver. IEEE Sensors Journal, 2016, 16, 8863-8864.	4.7	8
8	Qualitative and quantitative analysis of terahertz gas-phase spectroscopy using independent component analysis. Chemometrics and Intelligent Laboratory Systems, 2020, 206, 104129.	3.5	8
9	Gas spectroscopy system at 245 and 500 GHz using transmitters and receivers in SiGe BiCMOS. , 2016, , .		6
10	Towards Breath Gas Analysis Based on Millimeter-Wave Molecular Spectroscopy. Frequenz, 2018, 72, 87-92.	0.9	6
11	Heterodyne Spectroscopy with a 225 $\bar{A}$ 255 GHz SiGe BiCMOS Receiver for Space Applications. , 2021, , .		2
12	A Comparison between THz Spectroscopy and GC-MS by Detection of Isopropanol in Human Breath. , 2021, , .		2
13	A Portable Terahertz/Millimeter-Wave Spectrometer Based on SiGe BiCMOS Technology for Gas Sensing Applications. , 2020, , .		2