Jongwon Lee

List of Publications by Year
in descending order

21 papers	120 citations	1307594 7 h-index	1281871 11 g-index
21 all docs	21 docs citations	21 times ranked	93 citing authors

#	Article	IF	Citations
1	A Novel High-Speed Multiplexing IC Based on Resonant Tunneling Diodes. IEEE Nanotechnology Magazine, 2009, 8, 482-486.	2.0	25
2	An Onâ€“Off Mode RTD Oscillator Operating at Extremely Low Power Consumption. IEEE Nanotechnology Magazine, 2012, 11, 863-865.	2.0	17
3	Reflection-Type RTD Low-Power Amplifier With Deep Sub-mW DC Power Consumption. IEEE Microwave and Wireless Components Letters, 2014, 24, 551-553.	3.2	15
4	A 675 GHz Differential Oscillator Based on a Resonant Tunneling Diode. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 510-512.	3.1	14
5	A Low-Power 40-Gb/s 1:2 Demultiplexer IC Based on a Resonant Tunneling Diode. IEEE Nanotechnology Magazine, 2012, 11, 431-434.	2.0	9
6	RF Power Analysis on 5.8 GHz Low-Power Amplifier Using Resonant Tunneling Diodes. IEEE Microwave and Wireless Components Letters, 2017, 27, 61-63.	3.2	9
7	40 Gb/s Low-Power 4:1 Multiplexer Based on Resonant Tunneling Diodes. IEEE Nanotechnology Magazine, 2012, 11, 890-895.	2.0	8
8	692 GHz High-Efficiency Compact-Size InP-Based Fundamental RTD Oscillator. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 716-719.	3.1	7
9	A Low DC-Power Multiplexer IC using an InP-based CML-MOBILE RTD/HBT Technology. , 2008, , .		4
10	5 GHz low-power RTD-based amplifier MMIC with a high figure-of-merit of 24.5 dB/mW. , 2013, , .		4
11	Implementation of a 4∶1 multiplexing quantum-effect IC based on RTD circuit topology. , 2010, , .		3
12	Area-Efficient Series-Connected Resonant Tunneling Diode Pair as Binary Neuron in Cellular Neural Network. IEEE Electron Device Letters, 2020, 41, 1308-1311.	3.9	2
13	225â€…GHz tripleâ€push RTD oscillator with 0.5â€…mW dcâ€power consumption. IET Circuits, Devices and Systems, 2020, 14, 209-215.	1.4	1
14	Sidewall Slope Control of InP Via Holes for 3D Integration. Micromachines, 2021, 12, 89.	2.9	1
15	Implementation of Flip-Chip Microbump Bonding between InP and SiC Substrates for Millimeter-Wave Applications. Micromachines, 2022, 13, 1072.	2.9	1
16	Implementation of a New Functional Digital IC for Multiplexing Operation Based on RTDs. , 2008, , .		0
17	A 1.3 pJ/bit energy-efficient ultra-low power on-off mode oscillator using an InP-based quantum-effect tunneling device. , 2012, , .		0
18	A sub-mW D-band 2nd harmonic oscillator using InP-based quantum-effect tunneling devices. , 2014, , .		0

#	Article	IF	Citations
19	Negative-differential-conductance RTD amplifier MMIC with record foms of gain-to-dc power ratio and noise figure. , 2014, , .		0
20	Characterization of a selfâ€aligned RTD using a SiNx sidewall process for highâ€speed applications. Microwave and Optical Technology Letters, 2017, 59, 3073-3076.	1.4	0
21	Noise analysis of reflectionâ€type microwave RTD amplifier. IET Circuits, Devices and Systems, 2020, 14, 966-971.	1.4	0