

Jeremie Torres

List of Publications by Year in descending order

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66
papers

1,191
citations

393982

19
h-index

395343

33
g-index

67
all docs

67
docs citations

67
times ranked

960
citing authors

#	ARTICLE	IF	CITATIONS
1	Microfluidic tunable dye laser with integrated mixer and ring resonator. Applied Physics Letters, 2005, 86, 264101.	1.5	256
2	Magnetspectroscopy of two-dimensional HgTe-based topological insulators around the critical thickness. Physical Review B, 2012, 86, .	1.1	106
3	Terahertz Detection and Imaging Using Graphene Ballistic Rectifiers. Nano Letters, 2017, 17, 7015-7020.	4.5	100
4	Room temperature tunable detection of subterahertz radiation by plasma waves in nanometer InGaAs transistors. Applied Physics Letters, 2006, 89, 222109.	1.5	67
5	HgCdTe-based heterostructures for terahertz photonics. APL Materials, 2017, 5, .	2.2	49
6	Terahertz spectroscopy of plasma waves in high electron mobility transistors. Journal of Applied Physics, 2009, 106, .	1.1	47
7	Embroidered Antenna-Microchip Interconnections and Contour Antennas in Passive UHF RFID Textile Tags. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1205-1208.	2.4	47
8	Temperature-Induced Topological Phase Transition in HgTe Quantum Wells. Physical Review Letters, 2018, 120, 086401.	2.9	43
9	Temperature-driven single-valley Dirac fermions in HgTe quantum wells. Physical Review B, 2017, 96, .	1.1	38
10	Hydrodynamic modeling of optically excited terahertz plasma oscillations in nanometric field effect transistors. Applied Physics Letters, 2009, 94, 192109.	1.5	34
11	Plasma-Wave Detectors for Terahertz Wireless Communication. IEEE Electron Device Letters, 2012, 33, 1354-1356.	2.2	33
12	Room temperature coherent and voltage tunable terahertz emission from nanometer-sized field effect transistors. Applied Physics Letters, 2010, 97, .	1.5	31
13	Linear to radial polarization conversion in the THz domain using a passive system. Optics Express, 2008, 16, 18895.	1.7	29
14	Room-temperature terahertz mixer based on the simultaneous electronic and optical excitations of plasma waves in a field effect transistor. Applied Physics Letters, 2010, 96, .	1.5	28
15	Tunable plasma wave resonant detection of optical beating in high electron mobility transistor. Applied Physics Letters, 2006, 89, 201101.	1.5	27
16	Room Temperature Direct and Heterodyne Detection of 0.28â€“0.69-THz Waves Based on GaN 2-DEG Unipolar Nanochannels. IEEE Transactions on Electron Devices, 2016, 63, 353-359.	1.6	27
17	Out-of-Equilibrium Collective Oscillation as Phonon Condensation in a Model Protein. Physical Review X, 2018, 8, .	2.8	26
18	Equipfrequency surfaces in a two-dimensional GaN-based photonic crystal. Optics Express, 2004, 12, 1097.	1.7	23

#	ARTICLE	IF	CITATIONS
19	Plasma Waves Subterahertz Optical Beating Detection and Enhancement in Long-Channel High-Electron-Mobility Transistors: Experiments and Modeling. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 491-497.	1.9	22
20	Experimental evidence for long-distance electrodynamic intermolecular forces. Science Advances, 2022, 8, eabl5855.	4.7	19
21	Terahertz emission induced by optical beating in nanometer-length field-effect transistors. Journal of Applied Physics, 2012, 111, .	1.1	16
22	Nonlinear nanochannels for room temperature terahertz heterodyne detection. Semiconductor Science and Technology, 2013, 28, 125024.	1.0	15
23	Plasma wave resonant detection of terahertz radiations by nanometric transistors. Low Temperature Physics, 2007, 33, 291-294.	0.2	14
24	Massless Dirac fermions in III-V semiconductor quantum wells. Physical Review B, 2019, 99, .	1.1	14
25	Voltage-controlled sub-terahertz radiation transmission through GaN quantum well structure. Applied Physics Letters, 2011, 99, 082101.	1.5	13
26	Terahertz imaging of Landau levels in HgTe-based topological insulators. Applied Physics Letters, 2016, 108, .	1.5	13
27	Experimental and theoretical investigation of terahertz optical beating detection by plasma waves in high electron mobility transistors. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 257-260.	0.8	11
28	Cost- and time-effective sewing patterns for embroidered passive UHF RFID tags. , 2017, , .		6
29	Experimental Observation of Temperature-Driven Topological Phase Transition in HgTe/CdHgTe Quantum Wells. Condensed Matter, 2019, 4, 27.	0.8	5
30	Giant second-harmonic generation due to quasi-phase matching in a one-dimensional GaN photonic crystal. Physica Status Solidi (B): Basic Research, 2003, 240, 455-458.	0.7	4
31	Measurement of Pulsed Current-Voltage Characteristics of AlGaIn/GaN HEMTs from Room Temperature to 15 K. Acta Physica Polonica A, 2011, 119, 196-198.	0.2	4
32	On the transmission of terahertz radiation through silicon-based structures. Journal of Applied Physics, 2014, 116, 044504.	1.1	3
33	Many-particle effects in optical transitions from zero-mode Landau levels in HgTe quantum wells. Physical Review B, 2020, 102, .	1.1	3
34	Small-Signal Characterization of FET/HEMT for Terahertz Applications. Acta Physica Polonica A, 2011, 119, 203-205.	0.2	3
35	Plasma waves induced by the optical beating in HEMT channels as an expected source of TeraHertz radiation generation. , 2010, , .		2
36	Terahertz transmission and effective gain measurement of two-dimensional electron gas. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1454-1458.	0.8	2

#	ARTICLE	IF	CITATIONS
37	Gunn Effect in n-InP MOSFET at positive gate bias and impact ionization conditions. , 2014, , .		2
38	Plasma Oscillations in Nanotransistors: Application to THz Radiations Detection and Generation. Acta Physica Polonica A, 2011, 119, 103-106.	0.2	2
39	Experimental dispersion of the radiative Bloch modes of GaAs photonic crystals consisting of pillars in a graphite arrangement. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 420-422.	1.3	1
40	Equipfrequency surfaces in GaN/sapphire photonic crystals. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 423-425.	1.3	1
41	Generation of TeraHertz radiation assisted by optical phonons in nitride-based quantum wells and heterolayers. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 236-239.	0.8	1
42	Signal-to-noise ratio in terahertz wireless communication using field-effect-transistors as detectors. , 2013, , .		1
43	Modeling of the emission/noise temperature in MOSFET/HEMT structures. , 2013, , .		1
44	Voltage Controlled Terahertz Transmission Enhancement through GaN Quantum Wells. Acta Physica Polonica A, 2011, 119, 107-110.	0.2	1
45	THz Emission Induced by an Optical Beating in Nanometer-Length High-Electron-Mobility Transistors. Acta Physica Polonica A, 2011, 119, 199-202.	0.2	1
46	Room-temperature terahertz spectroscopy of optically excited plasma waves in HEMTs. Journal of Physics: Conference Series, 2009, 193, 012075.	0.3	0
47	Preliminary results of bench implementation for the study of terahertz amplification in gallium nitride quantum wells. Journal of Physics: Conference Series, 2009, 193, 012094.	0.3	0
48	Measurements of THz emission from nanometric-size transistors. , 2010, , .		0
49	Enhanced terahertz transmission of GaN quantum wells. , 2010, , .		0
50	Sub-terahertz imaging with AlGaIn/GaN MISFETs. , 2010, , .		0
51	Frequency stabilization of photo-mixing generated signal using a single michelson interferometer. , 2010, , .		0
52	Hydrodynamic study of electronic, optical and thermal excitation of plasma waves in HEMTs. , 2010, , .		0
53	Hydrodynamic simulation of heterodyne terahertz detection in a field effect transistor. , 2010, , .		0
54	Terahertz detection by field effect transistors security imaging. Proceedings of SPIE, 2011, , .	0.8	0

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55	Magneto spectroscopy of 2D HgTe based topological insulators. , 2012, , .		0
56	Second harmonic generation in GaN-based photonic crystals for single molecule investigations. Proceedings of SPIE, 2012, , .	0.8	0
57	THz transmission modulated by a dc-bias through GaN quantum well structure. Proceedings of SPIE, 2012, , .	0.8	0
58	Plasma wave detectors for Terahertz wireless communication and fast imaging applications. , 2012, , .		0
59	Room temperature generation of THz radiation in GaN quantum wells structures. Proceedings of SPIE, 2013, , .	0.8	0
60	Monte Carlo simulation of low-frequency excess noise in InP MOSFETs/HEMTs at impact ionization conditions. , 2013, , .		0
61	Contribution of the gate leakage current to terahertz detection by asymmetric dual-grating gate HEMT structures. , 2013, , .		0
62	Investigation of Brownian diffusion and long-distance electrodynamic interactions of biomolecules. , 2015, , .		0
63	Monte Carlo simulation of THz noise and generation under electron cooling in wurtzite GaN MOSFET at room temperature. , 2017, , .		0
64	Cooling effects in noise temperature spectrum. , 2017, , .		0
65	Investigation of 2D plasma resonances in HEMTs by using electro-optical sampling technique. Lithuanian Journal of Physics, 2011, 51, 324-329.	0.1	0
66	Transport characteristics of AlGaIn/GaN structures for amplification of terahertz radiations. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	0