

Fernando Gonzalez-Posada

List of Publications by Year in descending order

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45
papers

827
citations

567281

15
h-index

501196

28
g-index

45
all docs

45
docs citations

45
times ranked

1457
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Photodetection Dynamics of Single GaN Nanowires. Nano Letters, 2012, 12, 172-176.	9.1	139
2	Effects of plasmon excitation on photocatalytic activity of Ag/TiO ₂ and Au/TiO ₂ nanocomposites. Journal of Catalysis, 2013, 307, 214-221.	6.2	77
3	Correlation of Polarity and Crystal Structure with Optoelectronic and Transport Properties of GaN/AlN/GaN Nanowire Sensors. Nano Letters, 2012, 12, 5691-5696.	9.1	73
4	All-semiconductor plasmonic gratings for biosensing applications in the mid-infrared spectral range. Optics Express, 2016, 24, 16175.	3.4	57
5	Surface cleaning and preparation in AlGaIn/GaN-based HEMT processing as assessed by X-ray photoelectron spectroscopy. Applied Surface Science, 2007, 253, 6185-6190.	6.1	42
6	Effects of N_2 Plasma Pretreatment on the SiN Passivation of AlGaIn/GaN HEMT. IEEE Electron Device Letters, 2008, 29, 209-211.	3.9	36
7	Highly doped semiconductor plasmonic nanoantenna arrays for polarization selective broadband surface-enhanced infrared absorption spectroscopy of vanillin. Nanophotonics, 2017, 7, 507-516.	6.0	33
8	Surface-Enhanced Thermal Emission Spectroscopy with Perfect Absorber Metasurfaces. ACS Photonics, 2019, 6, 1506-1514.	6.6	28
9	Heavily Doped Semiconductor Metamaterials for Mid-Infrared Multispectral Perfect Absorption and Thermal Emission. Advanced Optical Materials, 2020, 8, 1901502.	7.3	27
10	Temperature-dependent terahertz spectroscopy of inverted-band three-layer InAs/GaSb/InAs quantum well. Physical Review B, 2018, 97, .	3.2	24
11	Localized surface plasmon resonance frequency tuning in highly doped InAsSb/GaSb one-dimensional nanostructures. Nanotechnology, 2016, 27, 425201.	2.6	23
12	Impact of N_2 Plasma Power Discharge on AlGaIn/GaN HEMT Performance. IEEE Transactions on Electron Devices, 2012, 59, 374-379.	3.0	22
13	Photovoltaic Response of InGaIn/GaN Multiple-Quantum Well Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 08JH05.	1.5	22
14	Environmental sensitivity of <i>n-i-n</i> and undoped single GaN nanowire photodetectors. Applied Physics Letters, 2013, 102, .	3.3	21
15	Investigation of different mechanisms of GaN growth induced on AlN and GaN nucleation layers. Journal of Applied Physics, 2009, 105, .	2.5	15
16	Surface-enhanced infrared absorption with Si-doped InAsSb/GaSb nano-antennas. Optics Express, 2017, 25, 26651.	3.4	15
17	Massless Dirac fermions in III-V semiconductor quantum wells. Physical Review B, 2019, 99, .	3.2	14
18	Photoluminescence enhancement in quaternary III-nitrides alloys grown by molecular beam epitaxy with increasing Al content. Journal of Applied Physics, 2008, 103, 046104.	2.5	13

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19	Metal-insulator-metal antennas in the far-infrared range based on highly doped InAsSb. Applied Physics Letters, 2017, 111, .	3.3	13
20	Quantum wells of dilute nitrides grown on GaAs by molecular beam epitaxy. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 23, 352-355.	2.7	12
21	Aluminium incorporation in Al _x Ga _{1-x} N/GaN heterostructures: A comparative study by ion beam analysis and X-ray diffraction. Thin Solid Films, 2008, 516, 8447-8452.	1.8	12
22	Single GaN-Based Nanowires for Photodetection and Sensing Applications. Japanese Journal of Applied Physics, 2013, 52, 11NG01.	1.5	12
23	Oxidation of copper nanoparticles in water monitored in situ by localized surface plasmon resonance spectroscopy. RSC Advances, 2014, 4, 20659.	3.6	12
24	Phosphonate monolayers on InAsSb and GaSb surfaces for mid-IR plasmonics. Applied Surface Science, 2018, 451, 241-249.	6.1	12
25	Fano-like resonances sustained by Si doped InAsSb plasmonic resonators integrated in GaSb matrix. Optics Express, 2015, 23, 29423.	3.4	10
26	Spectroscopic Nanoimaging of All-Semiconductor Plasmonic Gratings Using Photoinduced Force and Scattering Type Nanoscopy. ACS Photonics, 2018, 5, 4352-4359.	6.6	10
27	Microfluidic surface-enhanced infrared spectroscopy with semiconductor plasmonics for the fingerprint region. Reaction Chemistry and Engineering, 2020, 5, 124-135.	3.7	10
28	Giant Rabi splitting at the phonon line within all-semiconductor metallic-insulator-metallic antennas. Physical Review B, 2019, 100, .	3.2	7
29	Epsilon near-zero all-optical terahertz modulator. Applied Physics Letters, 2020, 117, .	3.3	7
30	Responsivity and photocurrent dynamics in single GaN nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 642-645.	0.8	6
31	Magnetoabsorption of Dirac Fermions in InAs/GaSb/InAs Three-Layer Gapless Quantum Wells. JETP Letters, 2017, 106, 727-732.	1.4	5
32	Pedestal formation of all-semiconductor gratings through GaSb oxidation for mid-IR plasmonics. Journal Physics D: Applied Physics, 2018, 51, 015104.	2.8	5
33	Photogenerated metasurfaces at terahertz frequencies induced by a continuous-wave low pump. Physical Review B, 2018, 98, .	3.2	5
34	Terahertz Spectroscopy of Two-Dimensional Semimetal in Three-Layer InAs/GaSb/InAs Quantum Well. JETP Letters, 2019, 109, 96-101.	1.4	4
35	GaN-based nanowire photodetectors. Proceedings of SPIE, 2012, , .	0.8	2
36	Study of SiN _x :H _y passivant layers for AlGaIn/GaN high electron mobility transistors. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 518-521.	0.8	1

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37	Semiconductor-based nanostructures for spectral filtering. , 2019, , .		1
38	2-DEG Characteristics Improvement by N2-plasma exposure in GaN HEMT heterostructures. , 2007, , .		0
39	Photocurrent Phenomena in Nanoribbon InAlN/GaN High Electron Mobility Transistors. Japanese Journal of Applied Physics, 2013, 52, 08JE19.	1.5	0
40	Terahertz studies of 2D and 3D topological transitions. Journal of Physics: Conference Series, 2015, 647, 012037.	0.4	0
41	THz absorbers with highly doped semiconductors based in plasmonic nano-resonators. , 2016, , .		0
42	Highly doped InAsSb plasmonic arrays for mid-infrared biosensing. , 2016, , .		0
43	Low-pump irradiance to modulate THz waves driven by photo-generated carriers in an InAs slab. , 2019, , .		0
44	Semiconductor plasmonics and metamaterials for IR applications. , 2022, , .		0
45	Quantum plasmonics and hyperbolic material for biosensing. , 2022, , .		0