

Hugo Navarro

List of Publications by Year in descending order

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82
papers

1,381
citations

394421

19
h-index

377865

34
g-index

82
all docs

82
docs citations

82
times ranked

1684
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature-dependent optical band gap of the metastable zinc-blende structure \hat{I}^2 -GaN. <i>Physical Review B</i> , 1994, 50, 8433-8438.	3.2	200
2	Determination of the optical energy gap of $\text{Ge}_{1-x}\text{Sn}_x$ alloys with $0 < x < 0.14$. <i>Applied Physics Letters</i> , 2004, 84, 4532-4534.	3.3	83
3	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. <i>Chemical Physics Letters</i> , 2008, 453, 55-61.	2.6	66
4	Diagnosis of breast cancer by analysis of sialic acid concentrations in human saliva by surface-enhanced Raman spectroscopy of silver nanoparticles. <i>Nano Research</i> , 2017, 10, 3662-3670.	10.4	65
5	New oxygen related shallow thermal donor centres in Czochralski-grown silicon. <i>Solid State Communications</i> , 1986, 58, 151-155.	1.9	62
6	Detection of SARS-CoV-2 and its S and N proteins using surface enhanced Raman spectroscopy. <i>RSC Advances</i> , 2021, 11, 25788-25794.	3.6	53
7	High-Sensitivity Bolometers from Self-Oriented Single-Walled Carbon Nanotube Composites. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 3200-3204.	8.0	46
8	$\text{Ge}_{1-x}\text{Sn}_x$ alloys pseudomorphically grown on Ge(001). <i>Applied Physics Letters</i> , 2003, 83, 4942-4944.	3.3	45
9	Raman scattering study of photoluminescent spark-processed porous InP. <i>Thin Solid Films</i> , 2000, 379, 1-6.	1.8	44
10	Nonlinear behavior of the energy gap in $\text{Ge}_{1-x}\text{Sn}_x$ alloys at 4K. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	43
11	Photothermal ionisation spectroscopy of oxygen-related shallow defects in crystalline silicon. <i>Applied Physics A: Solids and Surfaces</i> , 1989, 48, 41-47.	1.4	34
12	On the bowing parameter in $\text{Cd}_{1-x}\text{Zn}_x\text{Te}$. <i>Journal of Applied Physics</i> , 2004, 95, 6284-6288.	2.5	30
13	Analysis of cytotoxic effects of silver nanoclusters on human peripheral blood mononuclear cells <i>in vitro</i> . <i>Journal of Applied Toxicology</i> , 2015, 35, 1189-1199.	2.8	30
14	Properties of Portland Cement Pastes Incorporating Nanometer-Sized Franklinite Particles Obtained from Electric Arc Furnace Dust. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2909-2913.	3.8	27
15	Far-infrared absorption by excitons in silicon. <i>Solid State Communications</i> , 1978, 25, 217-219.	1.9	23
16	Study of the photoluminescence spectrum in high purity CdTe. <i>Journal of Luminescence</i> , 1983, 28, 163-176.	3.1	23
17	Study of the fundamental linewidths of $1S_{1/2}^n$ P donor transitions in ultrapure germanium. <i>Physical Review B</i> , 1988, 37, 10822-10828.	3.2	23
18	Bolometric Properties of Semiconducting and Metallic Single-Walled Carbon Nanotube Composite Films. <i>ACS Photonics</i> , 2015, 2, 334-340.	6.6	23

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19	Refractive indices of zincblende structure $\text{In}_x\text{Ga}_{1-x}\text{N}(001)$ in the subbandgap region (0.7–3.3 eV). <i>Applied Physics Letters</i> , 1996, 68, 441-443.	3.3	22
20	Determination of sialic acid in saliva by means of surface-enhanced Raman spectroscopy as a marker in adnexal mass patients: ovarian cancer vs benign cases. <i>Journal of Ovarian Research</i> , 2018, 11, 61.	3.0	20
21	Interfacial insights of pyrite colonized by <i>Acidithiobacillus thiooxidans</i> cells under acidic conditions. <i>Hydrometallurgy</i> , 2010, 103, 35-44.	4.3	19
22	Determination of Salivary Sialic Acid Through Nanotechnology: A Useful Biomarker for the Screening of Breast Cancer. <i>Archives of Medical Research</i> , 2019, 50, 105-110.	3.3	19
23	Electroreflectance, photorefectance, and photoabsorption properties of polycrystalline CdTe thin films prepared by the gradient recrystallization and growth technique. <i>Journal of Applied Physics</i> , 1985, 58, 2066-2069.	2.5	18
24	Evolution of biofilms during the colonization process of pyrite by <i>Acidithiobacillus thiooxidans</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 93, 763-775.	3.6	17
25	Epitaxial Growth of Strained Ge Films on GaAs(001). <i>Thin Solid Films</i> , 1999, 352, 269-272.	1.8	15
26	Determination of sialic acid levels by using surface-enhanced Raman spectroscopy in periodontitis and gingivitis. <i>Oral Diseases</i> , 2019, 25, 1627-1633.	3.0	15
27	Detection of Histamine Dihydrochloride at Low Concentrations Using Raman Spectroscopy Enhanced by Gold Nanostars Colloids. <i>Nanomaterials</i> , 2019, 9, 211.	4.1	15
28	Emission properties in electrolytically prepared CdTe/p-n junctions. <i>Applied Physics Letters</i> , 1981, 39, 433-434.	3.3	14
29	High purity GaSb grown by LPE in a sapphire boat. <i>Journal of Crystal Growth</i> , 2000, 208, 27-32.	1.5	13
30	The far-infrared absorption spectrum of electron-hole drops in silicon. <i>Solid State Communications</i> , 1978, 25, 1045-1048.	1.9	12
31	Critical thickness of $\text{In}_x\text{N}/\text{GaN}/\text{MgO}$ structures. <i>Journal of Applied Physics</i> , 2010, 107, 083510.	2.5	11
32	Photoluminescence shift in frustules of two pennate diatoms and nanostructural changes to their pores. <i>Luminescence</i> , 2014, 29, 969-976.	2.9	11
33	Low cytotoxicity of anisotropic gold nanoparticles coated with lysine on peripheral blood mononuclear cells <i>in vitro</i> . <i>Environmental Toxicology and Pharmacology</i> , 2017, 56, 210-218.	4.0	11
34	High sensitivity bolometers from thymine functionalized multi-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 880-887.	7.8	11
35	Temperature dependence of the Raman dispersion of $\text{Sr}_2\text{Nb}_2\text{O}_7$: Influence of an electric field during the synthesis. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 102-114.	2.5	11
36	In-plane and out-of-plane lattice parameters of [11n] epitaxial strained layers. <i>Journal of Crystal Growth</i> , 2006, 291, 340-347.	1.5	10

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55	Saturation of ionization edge absorption by donors in germanium. <i>Applied Physics A: Solids and Surfaces</i> , 1993, 56, 22-28.	1.4	5
56	Near band-edge optical properties of GaAs at interfaces of ZnSe/GaAs/GaAs by phase selection in photoreflectance. <i>Journal of Applied Physics</i> , 1999, 86, 425-429.	2.5	5
57	Long-range order-disorder transition in $(\text{GaAs})_{1-x}(\text{Ge}_2)$ grown on GaAs(001) and GaAs(111). <i>Microelectronics Journal</i> , 2000, 31, 439-441.	2.0	5
58	Raman studies of aluminum induced microcrystallization of n+ Si:H films produced by PECVD. <i>Thin Solid Films</i> , 2003, 445, 32-37.	1.8	5
59	Excitonic transitions in $(\text{GaAs})_{1-x}(\text{Ge}_2)_x/\text{GaAs}$ multilayers grown by magnetron sputtering. <i>Applied Physics Letters</i> , 1998, 72, 94-96.	3.3	4
60	Growth of strained-layer GaAs/Ge superlattices by magnetron sputtering: Optical and structural characterization. <i>Journal of Applied Physics</i> , 2001, 89, 3209-3214.	2.5	4
61	Infrared study of the absorption edge of InN films grown on GaN/MgO structures. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	4
62	Thermal tuning of the morphology of hydrothermally synthesized CeO ₂ nanotubes for photocatalytic applications. <i>Ceramics International</i> , 2022, 48, 17802-17815.	4.8	4
63	Far-infrared study of the Zeeman effect of indirect excitons in germanium. <i>Physical Review B</i> , 1982, 25, 1141-1150.	3.2	3
64	Observation of confinement effects on acceptors in $\text{Si}/\text{Si}_{1-x}\text{Ge}_x$ superlattices. <i>Solid State Communications</i> , 1994, 90, 311-316.	1.9	3
65	Lattice vibrations study of $\text{Ga}_{1-x}\text{In}_x\text{As}_y\text{Sb}_{1-y}$ quaternary alloys with low (In, As) content grown by liquid phase epitaxy. <i>Journal of Physics: Conference Series</i> , 2006, 28, 147-150.	0.4	3
66	Effect of Graphene Oxide on Bacteria and Peripheral Blood Mononuclear Cells. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, 423-430.	1.6	3
67	TNF- α detection using gold nanoparticles as a surface-enhanced Raman spectroscopy substrate. <i>Nanomedicine</i> , 2021, 16, 51-61.	3.3	3
68	Application of photothermal ionization spectroscopy to the study of epitaxially grown germanium on silicon. <i>Journal of Applied Physics</i> , 1992, 72, 3550-3553.	2.5	2
69	Photoconductivity of erbium-doped germanium. <i>Applied Physics A: Solids and Surfaces</i> , 1994, 59, 373-379.	1.4	1
70	Strain in GaAs at the heterointerface of ZnSe/GaAs/GaAs. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 1293-1301.	2.8	1
71	Characterization of GaAs grown by the close-spaced vapor transport technique, using atomic hydrogen as the reactant. <i>Physica Status Solidi A</i> , 2003, 198, 289-296.	1.7	1
72	AFM and FTIR characterization of microcrystalline Si obtained from isothermal annealing of Al/a-Si:H. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1014-1017.	1.8	1

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73	Low energy shifted photoluminescence of Er ³⁺ incorporated in amorphous hydrogenated silicon-germanium alloys. Journal of Non-Crystalline Solids, 2009, 355, 976-981.	3.1	1
74	High-speed high-sensitivity carbon nanotube-based composite bolometers. Proceedings of SPIE, 2013, , .	0.8	1
75	Structural and Raman study of the thermoelectric solid solution Sr _{1.9} La _{0.1} Nb ₂ O ₇ . Journal of Raman Spectroscopy, 2021, 52, 737-749.	2.5	1
76	Frustrules of Amphora sp. as a photonic crystal with photoluminescent CdS nanoparticles. Luminescence, 2021, 36, 788-794.	2.9	1
77	High sensitivity detection of trace impurities in the presence of other impurity species: The shallow thermal donors in Cz-Silicon. Mikrochimica Acta, 1988, 94, 415-418.	5.0	0
78	Structural characterization of semi-strained layer (GaAs) _{1-x} (Si ₂) _x /GaAs multilayers grown by magnetron sputtering. Thin Solid Films, 2002, 416, 49-53.	1.8	0
79	Infrared reflectance anisotropy of wurzite GaN. Journal of Applied Physics, 2009, 106, 063523.	2.5	0
80	Ge _{1-x} Sn _x Alloys Pseudomorphically Grown on Ge (001) by Sputtering. ECS Transactions, 2013, 50, 413-417.	0.5	0
81	Structural and Optical Properties of Ge _{1-x} Sn _x Alloys Grown on GaAs (001) by R. F. Magnetron Sputtering. ECS Transactions, 2014, 64, 393-400.	0.5	0
82	Síntesis y caracterizaci3n de Ce _{1/2} Cu ₃ Ti ₄ O ₁₂ sol-gel asistida por Ácido cítrico. PÁ,,DI BoletÁN CientÁfico De Ciencias BÁsicas E IngenierÁas Del ICBI, 2021, 9, 128-133.	0.0	0