## Hugo Navarro

## List of Publications by Year in descending order

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82	1,381	19	34
papers	citations	h-index	g-index
82	82	82	1684
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Temperature-dependent optical band gap of the metastable zinc-blende structure $\hat{I}^2$ -GaN. Physical Review B, 1994, 50, 8433-8438.	3.2	200
2	Determination of the optical energy gap of Ge1 $\hat{a}$ °xSnx alloys with 0 <x<0.14. 2004,="" 4532-4534.<="" 84,="" applied="" letters,="" physics="" td=""><td>3.3</td><td>83</td></x<0.14.>	3.3	83
3	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. Chemical Physics Letters, 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. Nano Research, 2017, 10, 3662-3670.	10.4	65
5	New oxygen related shallow thermal donor centres in Czochralski-grown silicon. Solid State Communications, 1986, 58, 151-155.	1.9	62
6	Detection of SARS-CoV-2 and its S and N proteins using surface enhanced Raman spectroscopy. RSC Advances, 2021, 11, 25788-25794.	3.6	53
7	High-Sensitivity Bolometers from Self-Oriented Single-Walled Carbon Nanotube Composites. ACS Applied Materials & Samp; Interfaces, 2011, 3, 3200-3204.	8.0	46
8	Ge1â^'xSnx alloys pseudomorphically grown on Ge(001). Applied Physics Letters, 2003, 83, 4942-4944.	3.3	45
9	Raman scattering study of photoluminescent spark-processed porous InP. Thin Solid Films, 2000, 379, 1-6.	1.8	44
10	Nonlinear behavior of the energy gap in Ge1â^'xSnx alloys at 4K. Applied Physics Letters, 2007, 91, .	3.3	43
11	Photothermal ionisation spectroscopy of oxygen-related shallow defects in crystalline silicon. Applied Physics A: Solids and Surfaces, 1989, 48, 41-47.	1.4	34
12	On the bowing parameter in Cd1â^'xZnxTe. Journal of Applied Physics, 2004, 95, 6284-6288.	2.5	30
13	Analysis of cytotoxic effects of silver nanoclusters on human peripheral blood mononuclear cells â€~ <i>in vitro</i> à6™. Journal of Applied Toxicology, 2015, 35, 1189-1199.	2.8	30
14	Properties of Portland Cement Pastes Incorporating Nanometerâ€Sized Franklinite Particles Obtained from Electricâ€Arcâ€Furnace Dust. Journal of the American Ceramic Society, 2001, 84, 2909-2913.	3.8	27
15	Far-infrared absorption by excitons in silicon. Solid State Communications, 1978, 25, 217-219.	1.9	23
16	Study of the photoluminescence spectrum in high purity CdTe. Journal of Luminescence, 1983, 28, 163-176.	3.1	23
17	Study of the fundamental linewidths of 1S→nPdonor transitions in ultrapure germanium. Physical Review B, 1988, 37, 10822-10828.	3.2	23
18	Bolometric Properties of Semiconducting and Metallic Single-Walled Carbon Nanotube Composite Films. ACS Photonics, 2015, 2, 334-340.	6.6	23

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19	Refractive indices of zincblende structure βâ€GaN(001) in the subbandâ€gap region (0.7–3.3 eV). Applied Physics Letters, 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. Journal of Ovarian Research, 2018, 11, 61.	3.0	20
21	Interfacial insights of pyrite colonized by Acidithiobacillus thiooxidans cells under acidic conditions. Hydrometallurgy, 2010, 103, 35-44.	4.3	19
22	Determination of Salivary Sialic Acid Through Nanotechnology: A Useful Biomarker for the Screening of Breast Cancer. Archives of Medical Research, 2019, 50, 105-110.	3.3	19
23	Electroreflectance, photoreflectance, and photoabsorption properties of polycrystalline CdTe thin films prepared by the gradient recrystallization and growth technique. Journal of Applied Physics, 1985, 58, 2066-2069.	2.5	18
24	Evolution of biofilms during the colonization process of pyrite by Acidithiobacillus thiooxidans. Applied Microbiology and Biotechnology, 2012, 93, 763-775.	3.6	17
25	Epitaxial Growth of Strained Ge Films on GaAs(001). Thin Solid Films, 1999, 352, 269-272.	1.8	15
26	Determination of sialic acid levels by using surfaceâ€enhanced Raman spectroscopy in periodontitis and gingivitis. Oral Diseases, 2019, 25, 1627-1633.	3.0	15
27	Detection of Histamine Dihydrochloride at Low Concentrations Using Raman Spectroscopy Enhanced by Gold Nanostars Colloids. Nanomaterials, 2019, 9, 211.	4.1	15
28	Emission properties in electrolytically prepared CdTepâ€njunctions. Applied Physics Letters, 1981, 39, 433-434.	3.3	14
29	High purity GaSb grown by LPE in a sapphire boat. Journal of Crystal Growth, 2000, 208, 27-32.	1.5	13
30	The far-infrared absorption spectrum of electron-hole drops in silicon. Solid State Communications, 1978, 25, 1045-1048.	1.9	12
31	Critical thickness of β-lnN/GaN/MgO structures. Journal of Applied Physics, 2010, 107, 083510.	2.5	11
32	Photoluminescence shift in frustules of two pennate diatoms and nanostructural changes to their pores. Luminescence, 2014, 29, 969-976.	2.9	11
33	Low cytotoxicity of anisotropic gold nanoparticles coated with lysine on peripheral blood mononuclear cells "in vitro― Environmental Toxicology and Pharmacology, 2017, 56, 210-218.	4.0	11
34	High sensitivity bolometers from thymine functionalized multi-walled carbon nanotubes. Sensors and Actuators B: Chemical, 2017, 238, 880-887.	7.8	11
35	Temperature dependence of the Raman dispersion of Sr <sub>2</sub> Nb <sub>2</sub> O <sub>7</sub> : Influence of an electric field during the synthesis. Journal of Raman Spectroscopy, 2019, 50, 102-114.	2.5	11
36	In-plane and out-of-plane lattice parameters of [11n] epitaxial strained layers. Journal of Crystal Growth, 2006, 291, 340-347.	1.5	10

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37	Zinc oxide decorated multi-walled carbon nanotubes: their bolometric properties. Nanotechnology, 2018, 29, 125607.	2.6	10
38	Experimental study of three ground state components of the hydrogen-oxygen donor in germanium. Solid State Communications, 1987, 64, 1297-1303.	1.9	9
39	Functionalization of nitrogen-doped carbon nanotubes with gallium to form Ga-CN <sub><i>x</i></sub> -multi-wall carbon nanotube hybrid materials. Nanotechnology, 2012, 23, 325601.	2.6	9
40	Raman effect in multiferroic Bi5Fe1+ <i>x</i> Ti3â^' <i>x</i> O15 solid solutions: A temperature study. Journal of Applied Physics, 2018, 123, .	2.5	9
41	Raman study of luminescent spark processed porous GaAs. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 622.	1.6	8
42	In situ measurements of the critical thickness for strain relaxation in $\hat{l}^2$ -GaN/MgO structures. Journal of Crystal Growth, 2009, 311, 1302-1305.	1.5	8
43	Determination of the Thermal Expansion Coefficient of Single-Wall Carbon Nanotubes by Raman Spectroscopy. Spectroscopy Letters, 2015, 48, 139-143.	1.0	8
44	Surface-Enhanced Raman Spectroscopy of Acetil-neuraminic Acid on Silver Nanoparticles: Role of the Passivating Agent on the Adsorption Efficiency and Amplification of the Raman Signal. Journal of Physical Chemistry C, 2017, 121, 21045-21056. ric layered perovskite <a href="mailto:kmml:math">kmml:math</a>	3.1	8
45	xmins:mmi="http://www.w3.org/1998/Math/Math/Math/Mil"> <mmi:mrow><mmi:mi mathvariant="normal">S</mmi:mi><mmi:msub><mmi:mi mathvariant="normal">r</mmi:mi><mmi:mn>2</mmi:mn></mmi:msub><mmi:mi mathvariant="normal">N</mmi:mi><mmi:msub><mmi:mi mathvariant="normal">N</mmi:mi><mmi:msub><mmi:mi mathvariant="normal">D</mmi:mi><mmi:msub></mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:msub><mmi:ms< td=""><td>3.2</td><td>8</td></mmi:ms<></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:msub></mmi:mrow>	3.2	8
46	Ag@ZnO/MWCNT ternary nanocomposite as an active and stable catalyst for the 4-nitrophenol reduction in water. Nanotechnology, 2021, 32, 315713.	2.6	8
47	Detection of Clavibacter michiganensis subsp. michiganensis Assisted by Micro-Raman Spectroscopy under Laboratory Conditions. Plant Pathology Journal, 2018, 34, 381-392.	1.7	8
48	Microstructure of spark-processed blue luminescent CdTe, GaSb, and InSb. Thin Solid Films, 1996, 281-282, 552-555.	1.8	7
49	STUDY OF STOICHIOMETRIC AND NON-STOICHIOMETRIC CADMIUM SELENIDE THIN FILMS. Modern Physics Letters B, 2001, 15, 741-744.	1.9	7
50	Orthorhombic distortion in Au nanoparticles induced by high pressure. CrystEngComm, 2019, 21, 3451-3459.	2.6	7
51	Stress in GaAs at the hetero-interface of ZnSe/GaAs/GaAs: a possible effect of pit filling and difference in thermal expansion coefficients. Applied Surface Science, 1999, 151, 271-279.	6.1	6
52	Raman scattering study of (GaAs) $1\hat{a}^2x(Si2)x$ alloys epitaxially grown on GaAs. Journal of Applied Physics, 2001, 90, 4977-4980.	2.5	6
53	Raman scattering from phonons and magnons in antiferromagnetic Fe3BO6. Solid State Communications, 1984, 50, 331-333.	1.9	5
54	The Zeeman spectra of phosphorus and the D(H,O) donor complex in ultra-pure germanium. Journal of Physics C: Solid State Physics, 1988, 21, 1511-1520.	1.5	5

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55	Saturation of ionization edge absorption by donors in germanium. Applied Physics A: Solids and Surfaces, 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. Journal of Applied Physics, 1999, 86, 425-429.	2.5	5
57	Long-range order–disorder transition in (GaAs)1â^'(Ge2) grown on GaAs(001) and GaAs(111). Microelectronics Journal, 2000, 31, 439-441.	2.0	5
58	Raman studies of aluminum induced microcrystallization of n+ Si:H films produced by PECVD. Thin Solid Films, 2003, 445, 32-37.	1.8	5
59	Excitonic transitions in (GaAs)1â^'x(Ge2)x/GaAs multilayers grown by magnetron sputtering. Applied Physics Letters, 1998, 72, 94-96.	3.3	4
60	Growth of strained-layer GaAs/Ge superlattices by magnetron sputtering: Optical and structural characterization. Journal of Applied Physics, 2001, 89, 3209-3214.	2.5	4
61	Infrared study of the absorption edge of $\hat{l}^2$ -InN films grown on GaN/MgO structures. Journal of Applied Physics, 2010, 108, .	2.5	4
62	Thermal tuning of the morphology of hydrothermally synthesized CeO2 nanotubes for photocatalytic applications. Ceramics International, 2022, 48, 17802-17815.	4.8	4
63	Far-infrared study of the Zeeman effect of indirect excitons in germanium. Physical Review B, 1982, 25, 1141-1150.	3.2	3
64	Observation of confinement effects on acceptors in Si/Si1â^'xGex superlattices. Solid State Communications, 1994, 90, 311-316.	1.9	3
65	Lattice vibrations study of Ga1-xInxAsySb1-yquaternary alloys with low (In, As) content grown by liquid phase epitaxy. Journal of Physics: Conference Series, 2006, 28, 147-150.	0.4	3
66	Effect of Graphene Oxide on Bacteria and Peripheral Blood Mononuclear Cells. Journal of Applied Biomaterials and Functional Materials, 2016, 14, 423-430.	1.6	3
67	TNF-α detection using gold nanoparticles as a surface-enhanced Raman spectroscopy substrate. Nanomedicine, 2021, 16, 51-61.	3.3	3
68	Application of photothermal ionization spectroscopy to the study of epitaxially grown germanium on silicon. Journal of Applied Physics, 1992, 72, 3550-3553.	2.5	2
69	Photoconductivity of erbium-doped germanium. Applied Physics A: Solids and Surfaces, 1994, 59, 373-379.	1.4	1
70	Strain in GaAs at the heterointerface of ZnSe/GaAs/GaAs. Journal Physics D: Applied Physics, 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. Physica Status Solidi A, 2003, 198, 289-296.	1.7	1
72	AFM and FTIR characterization of microcrystalline Si obtained from isothermal annealing of Al/a-Si:H. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 1014-1017.	1.8	1

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73	Low energy shifted photoluminescence of Er3+ 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	Frustules 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) $1\hat{a}^2x(Si2)x/GaAs$ 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	O
80	Ge1-xSnx Alloys Pseudomorphically Grown on Ge (001) by Sputtering. ECS Transactions, 2013, 50, 413-417.	0.5	0
81	Structural and Optical Properties of Ge1-XSnx Alloys Grown on GaAs (001) by R. F. Magnetron Sputtering. ECS Transactions, 2014, 64, 393-400.	0.5	0
82	SÃntesis y caracterización de Ce1/2Cu3Ti4O12 sol-gel asistida por ácido cÃŧrico. PÄDI BoletÃn CientÃfico De Ciencias Básicas E IngenierÃas Del ICBI, 2021, 9, 128-133.	0.0	0