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	Thermal tuning of the morphology of hydrothermally synthesized CeO2 nanotubes for photocatalytic applications. Ceramics International, 2022, 48, 17802-17815.	4.8	4
2	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
3	TNF-Î± detection using gold nanoparticles as a surface-enhanced Raman spectroscopy substrate. Nanomedicine, 2021, 16, 51-61.	3.3	3
4	Frustules of Amphora sp. as a photonic crystal with photoluminescent CdS nanoparticles. Luminescence, 2021, 36, 788-794.	2.9	1
5	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
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	SÃntesis y caracterizaciÃ³n de Ce1/2Cu3Ti4O12 sol-gel asistida por Ã¡cido cÃtrico. PÃ„DI BoletÃn CientÃfico De Ciencias BÃ¡sicas E IngenierÃas Del ICBI, 2021, 9, 128-133.	0.0	0
8	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
9	High pressure structural change in the ferroelectric layered perovskite <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant	3.2	8
10	Determination of sialic acid levels by using surfaceâ€enhanced Raman spectroscopy in periodontitis and gingivitis. Oral Diseases, 2019, 25, 1627-1633.	3.0	15
11	Orthorhombic distortion in Au nanoparticles induced by high pressure. CrystEngComm, 2019, 21, 3451-3459.	2.6	7
12	Detection of Histamine Dihydrochloride at Low Concentrations Using Raman Spectroscopy Enhanced by Gold Nanostars Colloids. Nanomaterials, 2019, 9, 211.	4.1	15
13	Temperature dependence of the Raman dispersion of Sr₂Nb₂O₇: Influence of an electric field during the synthesis. Journal of Raman Spectroscopy, 2019, 50, 102-114.	2.5	11
14	Raman effect in multiferroic Bi5Fe1+xTi3â^'xO15 solid solutions: A temperature study. Journal of Applied Physics, 2018, 123, .	2.5	9
15	Zinc oxide decorated multi-walled carbon nanotubes: their bolometric properties. Nanotechnology, 2018, 29, 125607.	2.6	10
16	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
17	Detection of Clavibacter michiganensis subsp. michiganensis Assisted by Micro-Raman Spectroscopy under Laboratory Conditions. Plant Pathology Journal, 2018, 34, 381-392.	1.7	8
18	Low cytotoxicity of anisotropic gold nanoparticles coated with lysine on peripheral blood mononuclear cells â€œin vitroâ€• Environmental Toxicology and Pharmacology, 2017, 56, 210-218.	4.0	11

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19	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.	3.1	8
20	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
21	High sensitivity bolometers from thymine functionalized multi-walled carbon nanotubes. Sensors and Actuators B: Chemical, 2017, 238, 880-887.	7.8	11
22	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
23	Analysis of cytotoxic effects of silver nanoclusters on human peripheral blood mononuclear cells â€˜in vitroâ€™. Journal of Applied Toxicology, 2015, 35, 1189-1199.	2.8	30
24	Bolometric Properties of Semiconducting and Metallic Single-Walled Carbon Nanotube Composite Films. ACS Photonics, 2015, 2, 334-340.	6.6	23
25	Determination of the Thermal Expansion Coefficient of Single-Wall Carbon Nanotubes by Raman Spectroscopy. Spectroscopy Letters, 2015, 48, 139-143.	1.0	8
26	Photoluminescence shift in frustules of two pennate diatoms and nanostructural changes to their pores. Luminescence, 2014, 29, 969-976.	2.9	11
27	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
28	High-speed high-sensitivity carbon nanotube-based composite bolometers. Proceedings of SPIE, 2013, , .	0.8	1
29	Ge1-xSnx Alloys Pseudomorphically Grown on Ge (001) by Sputtering. ECS Transactions, 2013, 50, 413-417.	0.5	0
30	Functionalization of nitrogen-doped carbon nanotubes with gallium to form Ga-CN_x-multi-wall carbon nanotube hybrid materials. Nanotechnology, 2012, 23, 325601.	2.6	9
31	Evolution of biofilms during the colonization process of pyrite by Acidithiobacillus thiooxidans. Applied Microbiology and Biotechnology, 2012, 93, 763-775.	3.6	17
32	High-Sensitivity Bolometers from Self-Oriented Single-Walled Carbon Nanotube Composites. ACS Applied Materials & Interfaces, 2011, 3, 3200-3204.	8.0	46
33	Interfacial insights of pyrite colonized by Acidithiobacillus thiooxidans cells under acidic conditions. Hydrometallurgy, 2010, 103, 35-44.	4.3	19
34	Infrared study of the absorption edge of Î²-InN films grown on GaN/MgO structures. Journal of Applied Physics, 2010, 108, .	2.5	4
35	Critical thickness of Î²-InN/GaN/MgO structures. Journal of Applied Physics, 2010, 107, 083510.	2.5	11
36	Infrared reflectance anisotropy of wurzite GaN. Journal of Applied Physics, 2009, 106, 063523.	2.5	0

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37	In situ measurements of the critical thickness for strain relaxation in Î²-GaN/MgO structures. Journal of Crystal Growth, 2009, 311, 1302-1305.	1.5	8
38	Low energy shifted photoluminescence of Er3+ incorporated in amorphous hydrogenated siliconâ€“germanium alloys. Journal of Non-Crystalline Solids, 2009, 355, 976-981.	3.1	1
39	Controlling the dimensions, reactivity and crystallinity of multiwalled carbon nanotubes using low ethanol concentrations. Chemical Physics Letters, 2008, 453, 55-61.	2.6	66
40	Nonlinear behavior of the energy gap in Ge1â^'xSnx alloys at 4K. Applied Physics Letters, 2007, 91, .	3.3	43
41	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
42	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
43	In-plane and out-of-plane lattice parameters of [11n] epitaxial strained layers. Journal of Crystal Growth, 2006, 291, 340-347.	1.5	10
44	On the bowing parameter in Cd1â^'xZnxTe. Journal of Applied Physics, 2004, 95, 6284-6288.	2.5	30
45	Determination of the optical energy gap of Ge1â^'xSnx alloys with 0<x<0.14. Applied Physics Letters, 2004, 84, 4532-4534.	3.3	83
46	Raman studies of aluminum induced microcrystallization of n+ Si:H films produced by PECVD. Thin Solid Films, 2003, 445, 32-37.	1.8	5
47	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
48	Ge1â^'xSnx alloys pseudomorphically grown on Ge(001). Applied Physics Letters, 2003, 83, 4942-4944.	3.3	45
49	Structural characterization of semi-strained layer (GaAs)1â^'x(Si2)x/GaAs multilayers grown by magnetron sputtering. Thin Solid Films, 2002, 416, 49-53.	1.8	0
50	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
51	STUDY OF STOICHIOMETRIC AND NON-STOICHIOMETRIC CADMIUM SELENIDE THIN FILMS. Modern Physics Letters B, 2001, 15, 741-744.	1.9	7
52	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
53	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
54	Raman scattering study of (GaAs)1â^'x(Si2)x alloys epitaxially grown on GaAs. Journal of Applied Physics, 2001, 90, 4977-4980.	2.5	6

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55	High purity GaSb grown by LPE in a sapphire boat. Journal of Crystal Growth, 2000, 208, 27-32.	1.5	13
56	Long-range orderâ€“disorder transition in (GaAs)1â^'(Ge2) grown on GaAs(001) and GaAs(111). Microelectronics Journal, 2000, 31, 439-441.	2.0	5
57	Raman scattering study of photoluminescent spark-processed porous InP. Thin Solid Films, 2000, 379, 1-6.	1.8	44
58	Strain in GaAs at the heterointerface of ZnSe/GaAs/GaAs. Journal Physics D: Applied Physics, 1999, 32, 1293-1301.	2.8	1
59	Epitaxial Growth of Strained Ge Films on GaAs(001). Thin Solid Films, 1999, 352, 269-272.	1.8	15
60	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
61	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
62	Excitonic transitions in (GaAs)1â^'x(Ge2)x/GaAs multilayers grown by magnetron sputtering. Applied Physics Letters, 1998, 72, 94-96.	3.3	4
63	Microstructure of spark-processed blue luminescent CdTe, GaSb, and InSb. Thin Solid Films, 1996, 281-282, 552-555.	1.8	7
64	Refractive indices of zincblende structure Î²â€GaN(001) in the subbandâ€gap region (0.7â€“3.3 eV). Applied Physics Letters, 1996, 68, 441-443.	3.3	22
65	Temperature-dependent optical band gap of the metastable zinc-blende structure Î²-GaN. Physical Review B, 1994, 50, 8433-8438.	3.2	200
66	Photoconductivity of erbium-doped germanium. Applied Physics A: Solids and Surfaces, 1994, 59, 373-379.	1.4	1
67	Observation of confinement effects on acceptors in Si/Si1â^'xGex superlattices. Solid State Communications, 1994, 90, 311-316.	1.9	3
68	Saturation of ionization edge absorption by donors in germanium. Applied Physics A: Solids and Surfaces, 1993, 56, 22-28.	1.4	5
69	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
70	Photothermal ionisation spectroscopy of oxygen-related shallow defects in crystalline silicon. Applied Physics A: Solids and Surfaces, 1989, 48, 41-47.	1.4	34
71	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
72	Study of the fundamental linewidths of 1Sâ†'nPdonor transitions in ultrapure germanium. Physical Review B, 1988, 37, 10822-10828.	3.2	23

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73	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
74	Experimental study of three ground state components of the hydrogen-oxygen donor in germanium. Solid State Communications, 1987, 64, 1297-1303.	1.9	9
75	New oxygen related shallow thermal donor centres in Czochralski-grown silicon. Solid State Communications, 1986, 58, 151-155.	1.9	62
76	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
77	Raman scattering from phonons and magnons in antiferromagnetic Fe3BO6. Solid State Communications, 1984, 50, 331-333.	1.9	5
78	Study of the photoluminescence spectrum in high purity CdTe. Journal of Luminescence, 1983, 28, 163-176.	3.1	23
79	Far-infrared study of the Zeeman effect of indirect excitons in germanium. Physical Review B, 1982, 25, 1141-1150.	3.2	3
80	Emission properties in electrolytically prepared CdTepâ€njunctions. Applied Physics Letters, 1981, 39, 433-434.	3.3	14
81	Far-infrared absorption by excitons in silicon. Solid State Communications, 1978, 25, 217-219.	1.9	23
82	The far-infrared absorption spectrum of electron-hole drops in silicon. Solid State Communications, 1978, 25, 1045-1048.	1.9	12