

# Nuria Gordillo

## List of Publications by Year in descending order

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45  
papers

761  
citations

516710  
16  
h-index

552781  
26  
g-index

45  
all docs

45  
docs citations

45  
times ranked

887  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of grain boundaries on the radiation-induced defects and hydrogen in nanostructured and coarse-grained tungsten. Acta Materialia, 2017, 122, 277-286. New measurement of the $\langle \sigma \rangle$ of $^3\text{He}$ in tungsten. <a href="http://www.w3.org/1998/Math/MathML">http://www.w3.org/1998/Math/MathML</a>	7.9	69
2		2.9	46
3	Thermal stability of copper nitride thin films: The role of nitrogen migration. Journal of Applied Physics, 2010, 107, 103513.	2.5	43
4	DC triode sputtering deposition and characterization of N-rich copper nitride thin films: Role of chemical composition. Journal of Crystal Growth, 2008, 310, 4362-4367.	1.5	42
5	Hydrogen diffusion and trapping in nanocrystalline tungsten. Journal of Nuclear Materials, 2015, 458, 233-239.	2.7	42
6	Monte-Carlo dosimetry on a realistic cell monolayer geometry exposed to alpha particles. Physics in Medicine and Biology, 2012, 57, 2189-2207.	3.0	38
7	Photoluminescence enhancement of monolayer $\text{MoS}_2$ using plasmonic gallium nanoparticles. Nanoscale Advances, 2019, 1, 884-893.	4.6	33
8	Current status and future developments of the ion beam facility at the centre of micro-analysis of materials in Madrid. European Physical Journal Plus, 2021, 136, 1.	2.6	32
9	Hydrogen accumulation in nanostructured as compared to the coarse-grained tungsten. Journal of Nuclear Materials, 2014, 453, 287-295.	2.7	31
10	H trapping and mobility in nanostructured tungsten grain boundaries: a combined experimental and theoretical approach. Nuclear Fusion, 2015, 55, 113009.	3.5	31
11	First results obtained using the CENBG nanobeam line: Performances and applications. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2163-2167.	1.4	29
12	Amorphization kinetics under swift heavy ion irradiation: A cumulative overlapping-track approach. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 492-497.	1.4	29
13	Morphological and microstructural characterization of nanostructured pure $\hat{\pm}$ -phase W coatings on a wide thickness range. Applied Surface Science, 2014, 316, 1-8.	6.1	29
14	A 2D scintillator-based proton detector for high repetition rate experiments. High Power Laser Science and Engineering, 2019, 7, .	4.6	20
15	Free-carrier contribution to the optical response of N-rich $\text{Cu}_3\text{N}$ thin films. Journal Physics D: Applied Physics, 2009, 42, 165101.	2.8	19
16	Biological and Mechanical Synergies to Deal With Proton Therapy Pitfalls: Minibeams, FLASH, Arcs, and Gantryless Rooms. Frontiers in Oncology, 2020, 10, 613669.	2.8	19
17	Size-selective breaking of the core-shell structure of gallium nanoparticles. Nanotechnology, 2018, 29, 355707.	2.6	16
18	Lattice damage in 9-MeV-carbon irradiated diamond and its recovery after annealing. Carbon, 2017, 123, 334-343.	10.3	15

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19	Spectrally broad plasmonic absorption in Ga and In nanoparticle hybrids. <i>Nanotechnology</i> , 2019, 30, 475705.	2.6	13
20	A comparison of quantitative reconstruction techniques for PIXE-tomography analysis applied to biological samples. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 331, 248-252.	1.4	12
21	Quantitative reconstruction of PIXE-tomography data for thin samples using GUPIX X-ray emission yields. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 348, 92-99.	1.4	12
22	<i>Ab initio</i> study of tungsten defects near the surface. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2016, 24, 045006.	2.0	12
23	Beyond filtered backprojection: A reconstruction software package for ion beam microtomography data. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 295, 42-49.	1.4	11
24	Self-assembly of highly ordered plasmonic gallium nanoparticles driven by nanopatterning. <i>Nano Futures</i> , 2018, 2, 041001.	2.2	11
25	On the thermal stability of the nanostructured tungsten coatings. <i>Surface and Coatings Technology</i> , 2017, 325, 588-593.	4.8	10
26	Automated detection of parenchymal changes of ischemic stroke in non-contrast computer tomography: A fuzzy approach. <i>Biomedical Signal Processing and Control</i> , 2018, 45, 117-127.	5.7	9
27	Technical developments for computed tomography on the CENBG nanobeam line. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2206-2209.	1.4	8
28	Electronic structure of copper nitrides as a function of nitrogen content. <i>Thin Solid Films</i> , 2013, 531, 588-591.	1.8	8
29	Study of the effects of focused high-energy boron ion implantation in diamond. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 404, 207-210.	1.4	8
30	Observation of nitrogen polarization in Fe <sup>57</sup> N using soft x-ray magnetic circular dichroism. <i>Journal of Applied Physics</i> , 2006, 99, 08B709.	2.5	7
31	Compositional, structural and morphological modifications of N-rich Cu <sub>3</sub> N films induced by irradiation with Cu ions at 42% MeV. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 345301.	2.8	7
32	Micro-Raman spectroscopy of near-surface damage in diamond irradiated with 9-MeV boron ions. <i>Diamond and Related Materials</i> , 2017, 72, 94-98.	3.9	7
33	Stopping power dependence of nitrogen sputtering yields in copper nitride films under swift-ion irradiation: Exciton model approach. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 289, 74-78.	1.4	6
34	Plasma-wall interaction in laser inertial fusion reactors: novel proposals for radiation tests of first wall materials. <i>Plasma Physics and Controlled Fusion</i> , 2012, 54, 124051.	2.1	6
35	IFE plant technology overview and contribution to HiPER proposal. , 2011, , .		5
36	A Geant4 simulation for three-dimensional proton imaging of microscopic samples. <i>Physica Medica</i> , 2019, 65, 172-180.	0.7	5

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37	<p>Coulomb explosion of swift <math>\text{Si}^{4+}</math> ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i>, 2006, 249, 939-942.</p> <p>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:struct="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x"</p>	1.4	4
38	An implementation of the NiftyRec medical imaging library for PIXE-tomography reconstruction. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2017, 404, 131-139.	1.4	4
39	A wide-angle magnetic spectrograph of a novel design. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 249, 939-942.	1.4	3
40	Coulomb explosion as a probe to understand the mechanism of electron stripping from ions interacting with crystalline solids. <i>Physical Review B</i> , 2009, 79, .	3.2	3
41	A fibrinogen biosensing platform based on plasmonic Ga nanoparticles and aminosilane-titanate antibody trapping. <i>Medical Devices &amp; Sensors</i> , 2020, 3, e10083.	2.7	3
42	Comprehensive Model for the Transformation of Zinc Nitride Metastable Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 56655-56662.	8.0	2
43	An experimental setup for growth of thin films and advanced sample analysis coupled to the 5MV tandem accelerator of the Universidad Autónoma de Madrid. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 249, 935-938.	1.4	1
44	Astrophysical S factor for the ${}^4\text{He}({}^3\text{He},\gamma){}^7\text{Be}$ reaction at medium energies. <i>Journal of Physics: Conference Series</i> , 2012, 337, 012061.	0.4	1
45	Security Considerations for Patient Telemonitoring Schemes through Wireless Networks. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 335-341.	0.6	0