Nuria Gordillo

List of Publications by Year
in descending order

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	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
2	Comprehensive Model for the Transformation of Zinc Nitride Metastable Layers. ACS Applied Materials & Interfaces, 2021, 13, 56655-56662.	8.0	2
3	A fibrinogen biosensing platform based on plasmonic Ga nanoparticles and aminosilaneâ€“titanate antibody trapping. Medical Devices & Sensors, 2020, 3, e10083.	2.7	3
4	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
5	A Geant4 simulation for three-dimensional proton imaging of microscopic samples. Physica Medica, 2019, 65, 172-180.	0.7	5
6	Spectrally broad plasmonic absorption in Ga and In nanoparticle hybrids. Nanotechnology, 2019, 30, 475705.	2.6	13
7	Photoluminescence enhancement of monolayer MoS₂ using plasmonic gallium nanoparticles. Nanoscale Advances, 2019, 1, 884-893.	4.6	33
8	A 2D scintillator-based proton detector for high repetition rate experiments. High Power Laser Science and Engineering, 2019, 7, .	4.6	20
9	Self-assembly of highly ordered plasmonic gallium nanoparticles driven by nanopatterning. Nano Futures, 2018, 2, 041001.	2.2	11
10	Automated detection of parenchymal changes of ischemic stroke in non-contrast computer tomography: A fuzzy approach. Biomedical Signal Processing and Control, 2018, 45, 117-127.	5.7	9
11	Size-selective breaking of the coreâ€“shell structure of gallium nanoparticles. Nanotechnology, 2018, 29, 355707.	2.6	16
12	Micro-Raman spectroscopy of near-surface damage in diamond irradiated with 9-MeV boron ions. Diamond and Related Materials, 2017, 72, 94-98.	3.9	7
13	Study of the effects of focused high-energy boron ion implantation in diamond. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 207-210.	1.4	8
14	An implementation of the NiftyRec medical imaging library for PIXE-tomography reconstruction. Nuclear Instruments & Methods in Physics Research B, 2017, 404, 131-139.	1.4	4
15	Lattice damage in 9-MeV-carbon irradiated diamond and its recovery after annealing. Carbon, 2017, 123, 334-343.	10.3	15
16	On the thermal stability of the nanostructured tungsten coatings. Surface and Coatings Technology, 2017, 325, 588-593.	4.8	10
17	Influence of grain boundaries on the radiation-induced defects and hydrogen in nanostructured and coarse-grained tungsten. Acta Materialia, 2017, 122, 277-286.	7.9	69
18	Ab initiostudy of tungsten defects near the surface. Modelling and Simulation in Materials Science and Engineering, 2016, 24, 045006.	2.0	12

#	Article	IF	Citations
19	H trapping and mobility in nanostructured tungsten grain boundaries: a combined experimental and theoretical approach. Nuclear Fusion, 2015, 55, 113009.	3.5	31
20	Hydrogen diffusion and trapping in nanocrystalline tungsten. Journal of Nuclear Materials, 2015, 458, 233-239.	2.7	42
21	Quantitative reconstruction of PIXE-tomography data for thin samples using GUPIX X-ray emission yields. Nuclear Instruments & Methods in Physics Research B, 2015, 348, 92-99.	1.4	12
22	Hydrogen accumulation in nanostructured as compared to the coarse-grained tungsten. Journal of Nuclear Materials, 2014, 453, 287-295.	2.7	31
23	Morphological and microstructural characterization of nanostructured pure Î±-phase W coatings on a wide thickness range. Applied Surface Science, 2014, 316, 1-8.	6.1	29
24	A comparison of quantitative reconstruction techniques for PIXE-tomography analysis applied to biological samples. Nuclear Instruments & Methods in Physics Research B, 2014, 331, 248-252.	1.4	12
25	Security Considerations for Patient Telemonitoring Schemes through Wireless Networks. Advances in Intelligent Systems and Computing, 2014, , 335-341.	0.6	0
26	Beyond filtered backprojection: A reconstruction software package for ion beam microtomography data. Nuclear Instruments & Methods in Physics Research B, 2013, 295, 42-49.	1.4	11
27	Electronic structure of copper nitrides as a function of nitrogen content. Thin Solid Films, 2013, 531, 588-591.	1.8	8
28	Astrophysical S factor for the4He(3He,Î³)7Be reaction at medium energies. Journal of Physics: Conference Series, 2012, 337, 012061.	0.4	1
29	Stopping power dependence of nitrogen sputtering yields in copper nitride films under swift-ion irradiation: Exciton model approach. Nuclear Instruments & Methods in Physics Research B, 2012, 289, 74-78.	1.4	6
30	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
31	New measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>3</mml:mn></mml:msup></mml:math>He(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (xmlns:mml=	2.9	46
32	Plasmaâ€“wall interaction in laser inertial fusion reactors: novel proposals for radiation tests of first wall materials. Plasma Physics and Controlled Fusion, 2012, 54, 124051.	2.1	6
33	Technical developments for computed tomography on the CENBG nanobeam line. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2206-2209.	1.4	8
34	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
35	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
36	IFE plant technology overview and contribution to HiPER proposal. , 2011, , .		5

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37	Thermal stability of copper nitride thin films: The role of nitrogen migration. Journal of Applied Physics, 2010, 107, 103513.	2.5	43
38	Compositional, structural and morphological modifications of N-rich Cu3N films induced by irradiation with Cu ions at 42â€‰MeV. Journal Physics D: Applied Physics, 2010, 43, 345301.	2.8	7
39	Coulomb explosion as a probe to understand the mechanism of electron stripping from ions interacting with crystalline solids. Physical Review B, 2009, 79, .	3.2	3
40	Free-carrier contribution to the optical response of N-rich Cu₃N thin films. Journal Physics D: Applied Physics, 2009, 42, 165101.	2.8	19
41	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
42	The Coulomb explosion of swift <mml:math altimg="si4.gif" overflow="scroll" 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:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x.	1.4	4
43	An experimental setup for growth of thin films and advanced sample analysis coupled to the 5MV tandem accelerator of the Universidad AutÃ³noma de Madrid. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 935-938.	1.4	1
44	A wide-angle magnetic spectrograph of a novel design. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 939-942.	1.4	3
45	Observation of nitrogen polarization in Feâ€“N using soft x-ray magnetic circular dichroism. Journal of Applied Physics, 2006, 99, 08B709.	2.5	7