

J Hernández-Saz

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

484
citations

687363

13
h-index

677142

22
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31
all docs

31
docs citations

31
times ranked

901
citing authors

#	ARTICLE	IF	CITATIONS
1	Size effect and scaling power-law for superelasticity in shape-memory alloys at the nanoscale. <i>Nature Nanotechnology</i> , 2017, 12, 790-796.	31.5	70
2	Novel Method of Preparation of Gold Nanoparticle-Doped TiO ₂ and SiO ₂ Plasmonic Thin Films: Optical Characterization and Comparison with Maxwell-Garnett Modeling. <i>Advanced Functional Materials</i> , 2011, 21, 3502-3507.	14.9	55
3	Small-pore driven high capacitance in a hierarchical carbon via carbonization of Ni-MOF-74 at low temperatures. <i>Chemical Communications</i> , 2016, 52, 9141-9144.	4.1	51
4	Heterometallic Titanium-Organic Frameworks by Metal-Induced Dynamic Topological Transformations. <i>Journal of the American Chemical Society</i> , 2020, 142, 6638-6648.	13.7	40
5	Synthesis of all equiatomic five-transition metals High Entropy Carbides of the IVB (Ti, Zr, Hf) and VB (V, Nb, Ta) groups by a low temperature route. <i>Ceramics International</i> , 2020, 46, 21421-21430.	4.8	34
6	Development of Surface-Coated Polylactic Acid/Polyhydroxyalkanoate (PLA/PHA) Nanocomposites. <i>Polymers</i> , 2019, 11, 400.	4.5	29
7	Insights into Preformed Human Serum Albumin Corona on Iron Oxide Nanoparticles: Structure, Effect of Particle Size, Impact on MRI Efficiency, and Metabolization. <i>ACS Applied Bio Materials</i> , 2019, 2, 3084-3094.	4.6	27
8	CVD synthesis of carbon spheres using NiFe-LDHs as catalytic precursors: structural, electrochemical and magnetoresistive properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 440-448.	5.5	22
9	Purcell Enhancement and Wavelength Shift of Emitted Light by CsPbI ₃ Perovskite Nanocrystals Coupled to Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2020, 7, 3152-3160.	6.6	22
10	Microstructure, electrical and mechanical properties of Ti ₂ AlN MAX phase reinforced copper matrix composites processed by hot pressing. <i>Materials Characterization</i> , 2021, 171, 110812.	4.4	21
11	Light Emission from Nanocrystalline Si Inverse Opals and Controlled Passivation by Atomic Layer Deposited Al ₂ O ₃ . <i>Advanced Materials</i> , 2011, 23, 5219-5223.	21.0	17
12	A methodology for the fabrication by FIB of needle-shape specimens around sub-surface features at the nanometre scale. <i>Micron</i> , 2012, 43, 643-650.	2.2	15
13	Atom-scale compositional distribution in InAlAsSb-based triple junction solar cells by atom probe tomography. <i>Nanotechnology</i> , 2016, 27, 305402.	2.6	13
14	3D compositional analysis at atomic scale of InAlGaAs capped InAs/GaAs QDs. <i>Scripta Materialia</i> , 2015, 103, 73-76.	5.2	12
15	Strain balanced quantum posts. <i>Applied Physics Letters</i> , 2011, 98, 173106.	3.3	7
16	Defect reduction in heteroepitaxial InP on Si by epitaxial lateral overgrowth. <i>Materials Express</i> , 2014, 4, 41-53.	0.5	7
17	Atom probe tomography analysis of InAlGaAs capped InAs/GaAs stacked quantum dots with variable barrier layer thickness. <i>Acta Materialia</i> , 2016, 103, 651-657.	7.9	6
18	Influence of the additivation of graphene-like materials on the properties of polyamide for Powder Bed Fusion. <i>Progress in Additive Manufacturing</i> , 2018, 3, 233-244.	4.8	6

#	ARTICLE	IF	CITATIONS
19	Pore morphology evolution and atom distribution of doped Fe ₂ O ₃ foams developed by freeze-casting after redox cycling. Journal of Materials Research and Technology, 2021, 13, 1887-1898.	5.8	6
20	Influence of the growth temperature on the composition distribution at sub-nm scale of InAlAsSb for solar cells. Journal of Alloys and Compounds, 2018, 763, 1005-1011.	5.5	4
21	Analysis of the 3D distribution of stacked self-assembled quantum dots by electron tomography. Nanoscale Research Letters, 2012, 7, 681.	5.7	3
22	Strain analysis for the prediction of the preferential nucleation sites of stacked quantum dots by combination of FEM and APT. Nanoscale Research Letters, 2013, 8, 513.	5.7	3
23	Mapping the plasmonic response of gold nanoparticles embedded in TiO ₂ thin films. Nanotechnology, 2015, 26, 405702.	2.6	3
24	Gaussian kernel density functions for compositional quantification in atom probe tomography. Materials Characterization, 2018, 139, 63-69.	4.4	3
25	Strain balanced quantum posts for intermediate band solar cells. , 2010, , .		2
26	Effect of the thermal annealing and the nominal composition in the elemental distribution of In _x Al _{1-x} As _y Sb _{1-y} for triple junction solar cells. Journal of Alloys and Compounds, 2019, 792, 1021-1027.	5.5	2
27	Simulation of transmission electron microscopy images using a generalized single-slice approach: The case of self-assembled quantum dots. Materials Characterization, 2020, 164, 110312.	4.4	2
28	Alumina doped Fe ₂ O ₃ foams by freeze-casting for redox cycling applications. Journal of the European Ceramic Society, 2022, 42, 5922-5931.	5.7	2
29	Compositional Mapping by Z-Contrast Imaging. Microscopy and Microanalysis, 2011, 17, 1728-1729.	0.4	0
30	Fabrication of Needle-Shaped Specimens Containing Subsurface Nanostructures for Electron Tomography. Lecture Notes in Nanoscale Science and Technology, 2013, , 241-266.	0.8	0
31	THE USE OF AUDIO-VISUAL MATERIAL PRODUCED BY STUDENTS AS A TOOL IN THE LEARNING PROCESS. , 2018, , .		0