

Iulian Petrila

List of Publications by Year in descending order

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40
papers

812
citations

471371

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28
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all docs

40
docs citations

40
times ranked

933
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure, electrical and humidity sensor properties of electrospun NiO-SnO ₂ nanofibers. Sensors and Actuators B: Chemical, 2016, 222, 1024-1031.	4.0	101
2	Reduced graphene oxide decorated with Fe doped SnO ₂ nanoparticles for humidity sensor. Applied Surface Science, 2017, 402, 410-417.	3.1	100
3	Ni ferrite highly organized as humidity sensors. Materials Chemistry and Physics, 2015, 156, 170-179.	2.0	81
4	Humidity sensor applicative material based on copper-zinc-tungsten spinel ferrite. Materials Letters, 2013, 108, 129-133.	1.3	46
5	Direct observation of basal-plane to threading-edge dislocation conversion in 4H-SiC epitaxy. Journal of Applied Physics, 2011, 109, .	1.1	39
6	Influence of partial substitution of Fe ³⁺ with W ³⁺ on the microstructure, humidity sensitivity, magnetic and electrical properties of barium hexaferrite. Superlattices and Microstructures, 2014, 70, 46-53.	1.4	34
7	A reliable chemiresistive sensor of nickel-doped tin oxide (Ni-SnO ₂) for sensing carbon dioxide gas and humidity. RSC Advances, 2020, 10, 3796-3804.	1.7	30
8	Effects of Partial Replacement of Iron with Tungsten on Microstructure, Electrical, Magnetic and Humidity Properties of Copper-Zinc Ferrite Material. Journal of Electronic Materials, 2014, 43, 3522-3526.	1.0	29
9	Humidity sensors applicative characteristics of granularized and porous Bi ₂ O ₃ thin films prepared by oxygen plasma-assisted pulsed laser deposition. Superlattices and Microstructures, 2015, 77, 276-285.	1.4	28
10	Fabrication and characterization of Ru-doped $\text{La}_{1-x}\text{Ca}_x\text{Mg}_2\text{Fe}_{10}\text{O}_{19}$ multiferroic materials. Journal of Applied Physics, 2016, 119, 084102.	1.0	27
11	Electrical properties and humidity sensor characteristics of lead hydroxyapatite material. Applied Surface Science, 2014, 303, 175-179.	3.1	24
12	Influence of thermal treatment on the structure, humidity sensitivity, electrical and magnetic properties of barium-tungsten ferrite. Composites Part B: Engineering, 2013, 51, 106-111.	5.9	23
13	Humidity sensor characteristics and electrical properties of Ni-Zn-Dy ferrite material prepared using different chelating-fuel agents. Journal of Materials Science: Materials in Electronics, 2016, 27, 272-278.	1.1	21
14	Microstructure, electrical and humidity sensing properties of light rare earths zirconates. Sensors and Actuators A: Physical, 2016, 247, 156-161.	2.0	20
15	Efficient humidity-sensitive electrical response of annealed lithium substituted nickel ferrite (Li-NiFe ₂ O ₄) nanoparticles under ideal, real and corrosive environments. Journal of Materials Science: Materials in Electronics, 2018, 29, 18660-18667.	1.1	20
16	Effects of sintering temperature on the microstructure, electrical and magnetic characteristics of copper-zinc spinel ferrite with possibility use as humidity sensors. Sensors and Actuators A: Physical, 2021, 332, 113060.	2.0	20
17	Micromagnetic investigation of all-optical switching. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1495-1498.	0.9	18
18	Metropolis Monte Carlo analysis of all-optical switching. Computer Physics Communications, 2014, 185, 2874-2878.	3.0	16

#	ARTICLE	IF	CITATIONS
19	Hysteresis characteristics of an analytical vector hysteron. <i>Physica B: Condensed Matter</i> , 2011, 406, 906-910.	1.3	14
20	Analytical vector generalization of the classical Stoner-Wohlfarth hysteron. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 076002.	0.7	13
21	Effect of copper substitution on structural, optical and humidity-sensing characteristics of cerium oxide nanoparticles. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 136, 109173.	1.9	13
22	Linear and non-linear energy barriers in systems of interacting single-domain ferromagnetic particles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3478-3482.	0.9	11
23	Effect of neodymium stimulation on the dielectric, magnetic and humidity sensing properties of iron oxide nanoparticles. <i>Materials Chemistry and Physics</i> , 2020, 254, 123572.	2.0	11
24	Effect of Vd-doping on dielectric, magnetic and gas sensing properties of nickel ferrite nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 16728-16736.	1.1	11
25	Effects of laser beam modulation on all-optical switching phase diagrams in magneto-optical ultrafast storage device. <i>Journal of Computational Electronics</i> , 2015, 14, 627-633.	1.3	10
26	Analytical description of a system of two interacting identical uniaxial ferromagnetic particles. <i>Journal of Applied Physics</i> , 2011, 110, 043923.	1.1	7
27	Analytical ferromagnetic hystérons with various anisotropies. <i>Journal of Applied Physics</i> , 2011, 109, 083937.	1.1	7
28	Effect of Tin Element on the Structural, Optical and Humidity Sensing Properties of Cerium Oxide Nanoparticles. <i>Journal of Electronic Materials</i> , 2019, 48, 7495-7506.	1.0	6
29	Asymmetries influence on critical curves of the synthetic antiferromagnetic structures in magnetic random access memory. <i>Computational Materials Science</i> , 2012, 51, 122-126.	1.4	5
30	SYNTHESIS AND ELECTRON TRANSPORT PROPERTIES OF SOME NEW 4,7-PHENANTHROLINE DERIVATIVES IN THIN FILMS. <i>Environmental Engineering and Management Journal</i> , 2015, 14, 421-431.	0.2	5
31	Combined effects of n heterojunctions and active surface areas in a composite material dedicated to gas sensing applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 9837-9844.	1.1	4
32	Enhanced humidity sensing properties of Fe-doped CeO ₂ nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 8815-8824.	1.1	4
33	Cluster analysis of an Ising-Preisach interacting particle system. <i>Physica B: Condensed Matter</i> , 2011, 406, 2177-2181.	1.3	3
34	Uniformity and correlation test parameters for random numbers generators. , 2014, , .		3
35	Considerations on the information and entropy of ordinal data. , 2014, , .		2
36	Self-doped Na-propan sulfonic acid polyaniline-polyethylene terephthalate film used as active sensor element for humidity or gas detection. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47743.	1.3	2

#	ARTICLE	IF	CITATIONS
37	The Influence of Li+ and K+ Added Cations and Annealing Temperature on the Magnetic and Dielectric Properties of Mg-Zn Ferrite. Materials, 2021, 14, 4916.	1.3	2
38	Construction and deconstruction of checkers game using ICE agent model. , 2016, , .		1
39	Linear weighting method and calibration technique with application for temperature estimation in inter weather stations regions. , 2017, , .		1
40	Effects of disabled neurons in classical and quantum networks information processing. , 2016, , .		0