

# Valentin Nica

## List of Publications by Year in descending order

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58  
papers

1,471  
citations

279701

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2268  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure, electrical and humidity sensor properties of electrospun NiO/SnO <sub>2</sub> nanofibers. <i>Sensors and Actuators B: Chemical</i> , 2016, 222, 1024-1031.	4.0	101
2	Imino-chitosan biopolymeric films. Obtaining, self-assembling, surface and antimicrobial properties. <i>Carbohydrate Polymers</i> , 2015, 117, 762-770.	5.1	94
3	Photocatalytic degradation of Rhodamine B dye using ZnO/SnO <sub>2</sub> electrospun ceramic nanofibers. <i>Ceramics International</i> , 2016, 42, 6775-6781.	2.3	90
4	Study on Ni-doped ZnO films as gas sensors. <i>Applied Surface Science</i> , 2013, 280, 598-604.	3.1	85
5	Synthesis, characterization and magnetic properties of MFe <sub>2</sub> O <sub>4</sub> (M=Co, Mg, Mn, Ni) nanoparticles using ricin oil as capping agent. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 3906-3911.	1.0	82
6	Preparation and magnetoelectric properties of NiFe <sub>2</sub> O <sub>4</sub> /PZT composites obtained in-situ by gel-combustion method. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3325-3337.	2.8	79
7	Microstructure and magnetic properties of substituted (Cr, Mn) - cobalt ferrite nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 135, 728-732.	2.0	66
8	Synthesis and characterization of TiO <sub>2</sub> -pillared Romanian clay and their application for azoic dyes photodegradation. <i>Journal of Hazardous Materials</i> , 2009, 167, 1050-1056.	6.5	55
9	Preparation and characterization of NiO, ZnO and NiO/ZnO composite nanofibers by electrospinning method. <i>Materials Chemistry and Physics</i> , 2014, 148, 1029-1035.	2.0	52
10	Eco-environmental synthesis and characterization of nanophase powders of Co, Mg, Mn and Ni ferrites. <i>Ceramics International</i> , 2014, 40, 9599-9607.	2.3	47
11	Nanosized Spinel Ferrites Synthesized by Sol-Gel Autocombustion for Optimized Removal of Azo Dye from Aqueous Solution. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-13.	1.5	45
12	Influence of Fe-doping on the optical and electrical properties of ZnO films. <i>Superlattices and Microstructures</i> , 2013, 59, 87-96.	1.4	43
13	Rare earth doped cobalt ferrite thin films deposited by PLD. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 915-922.	1.1	42
14	Investigation of the ferroelectric-relaxor crossover in Ce-doped BaTiO <sub>3</sub> ceramics by impedance spectroscopy and Raman study. <i>Phase Transitions</i> , 2013, 86, 703-714.	0.6	37
15	Study of the chelating/fuel agents influence on NiFe <sub>2</sub> O <sub>4</sub> samples with potential catalytic properties. <i>Powder Technology</i> , 2013, 243, 9-17.	2.1	36
16	Bi-Magnetic Core-Shell CoFe <sub>2</sub> O <sub>4</sub> @MnFe <sub>2</sub> O <sub>4</sub> Nanoparticles for In Vivo Theranostics. <i>Nanomaterials</i> , 2020, 10, 907.	1.9	33
17	Fabrication of Raspberry-like Cytochrome C Surface-Imprinted Nanoparticles Based on MOF Composites for High-Performance Protein Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31010-31020.	4.0	30
18	New catalyst supports prepared by surface modification of graphene- and carbon nanotube structures with nitrogen containing carbon coatings. <i>Journal of Power Sources</i> , 2017, 341, 240-249.	4.0	28

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19	Sequential PLD in oxygen/argon gas mixture of Al-doped ZnO thin films with improved electrical and optical properties. Applied Surface Science, 2017, 418, 456-462.	3.1	27
20	Zwitterionic polymer chain-assisted lysozyme imprinted core-shell carbon microspheres with enhanced recognition and selectivity. Talanta, 2020, 217, 121085.	2.9	26
21	Influence of In doping on electro-optical properties of ZnO films. Bulletin of Materials Science, 2013, 36, 231-237.	0.8	25
22	Fe-doped TiO <sub>2</sub> thin films. Surface Science, 2007, 601, 4479-4483.	0.8	23
23	On-command controlled drug release by diels-Alder reaction using Bi-magnetic core/shell nano-carriers. Colloids and Surfaces B: Biointerfaces, 2017, 150, 15-22.	2.5	23
24	Effect of In incorporation on the structural, electrical, and gas sensing properties of ZnO films. Journal of Materials Science, 2012, 47, 6979-6985.	1.7	22
25	Quaternary M <sub>0.25</sub> Cu <sub>0.25</sub> Mg <sub>0.5</sub> Fe <sub>2</sub> O <sub>4</sub> (M=Ni, Zn, Co, Mn) ferrite oxides: Synthesis, characterization and magnetic properties. Materials Research Bulletin, 2016, 81, 63-70.	2.7	21
26	Multi-analytical characterization of Cucuteni pottery. Journal of the European Ceramic Society, 2017, 37, 5079-5098.	2.8	19
27	Efficient methane detection by Co doping of ZnO thin films. Superlattices and Microstructures, 2015, 78, 61-70.	1.4	18
28	Effects of waste deposit geometry on the mineralogical and geochemical composition of mine tailings. Journal of Hazardous Materials, 2019, 368, 496-505.	6.5	18
29	Physical study of the Cucuteni pottery technology. Journal of Archaeological Science, 2013, 40, 914-925.	1.2	16
30	Surface characterization of sputtered N:TiO <sub>2</sub> thin films within a wide range of dopant concentration. Ceramics International, 2014, 40, 9989-9995.	2.3	16
31	Polyurethane "extracellular matrix/silver bionanocomposites for urinary catheters. Journal of Bioactive and Compatible Polymers, 2015, 30, 99-113.	0.8	16
32	Synthesis and characterization of RF sputtered WO <sub>3</sub> /TiO <sub>2</sub> bilayers. Surface and Coatings Technology, 2016, 285, 197-202.	2.2	15
33	Optimization of synthesis conditions and the study of magnetic and dielectric properties for MgFe <sub>2</sub> O <sub>4</sub> ferrite. Open Chemistry, 2013, 11, 1330-1342.	1.0	14
34	Improving the uncommon (110) growing orientation of Al-doped ZnO thin films through sequential pulsed laser deposition. Thin Solid Films, 2014, 571, 198-205.	0.8	13
35	Influence of two structural phases of Fe <sub>3</sub> O <sub>4</sub> and <sup>57</sup> Fe <sub>2</sub> O <sub>3</sub> on the properties of polyimide/iron oxide composites. Polymer International, 2015, 64, 1172-1181.	1.6	12
36	Synthesis and Characterization of Bi-Magnetic Core/Shell Nanoparticles for Hyperthermia Applications. IEEE Transactions on Magnetics, 2017, 53, 1-6.	1.2	12

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37	Investigations on nanoconfinement of low-molecular antineoplastic agents into biocompatible magnetic matrices for drug targeting. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 111, 52-59.	2.5	11
38	Calorimetric method for the determination of Curie temperatures of magnetic nanoparticles in dispersion. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 204115.	0.7	10
39	Synthesis and Characterization of Co-Substituted Ferrite Nanocomposites. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 26-29.	1.2	10
40	Onâ€“off switch-controlled doxorubicin release from thermo- and pH-responsive coated bimagnetic nanocarriers. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	9
41	The influence of the chelating/combustion agents on the structure and magnetic properties of zinc ferrite. <i>Open Chemistry</i> , 2012, 10, 1799-1807.	1.0	8
42	Magnetic properties and structure of electrodeposited Znâ€“Co alloys granular thin films. <i>Physica B: Condensed Matter</i> , 2011, 406, 1481-1487.	1.3	7
43	Electrical d.c. conduction mechanism in some newly synthesized mono- and dipyrindine quaternary salts in thin films. <i>Synthetic Metals</i> , 2009, 159, 1831-1836.	2.1	5
44	Functional properties of ZnO films prepared by thermal oxidation of metallic films. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	5
45	Combined effects of pâ€“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
46	Study on the effect of some surface phenomena on the properties of citrate capped cobalt doped ferrites. <i>Applied Surface Science</i> , 2019, 483, 1182-1191.	3.1	4
47	X-ray absorption fine structure investigations on heat-treated Cr-doped titania thin films. <i>Thin Solid Films</i> , 2011, 520, 1348-1352.	0.8	3
48	Analyzing the Development of N-Doped TiO<SUB>2</SUB> Thin Films Deposited by RF Magnetron Sputtering. <i>Sensor Letters</i> , 2013, 11, 675-678.	0.4	3
49	Synthesis and Characterization of Co-Ni and Fe <sub>3</sub> O <sub>4</sub> -Pd Nanocomposites. <i>IEEE Transactions on Magnetics</i> , 2012, 48, 1356-1359.	1.2	2
50	Mixed Micellization Behavior of Gemini (Cationic Ester-Bonded) Surfactants with Conventional (Cationic, Anionic and Nonionic) Surfactants in Aqueous Medium. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013, 227, 121-132.	1.4	2
51	Electrical resistivity under different humidity conditions for plasma-treated and gold-sputtered polyimide films. <i>Polymer Bulletin</i> , 2016, 73, 1531-1544.	1.7	2
52	Coating procedure for chemical and morphological functionalization of multilayer-graphene foams. <i>Carbon</i> , 2017, 121, 170-180.	5.4	2
53	Synthesis and physical investigation of Mn x Zn1â€“x Fe2O4 magnetic nanopowders coated with organic shell. <i>Powder Metallurgy and Metal Ceramics</i> , 2012, 51, 172-177.	0.4	1
54	Microstructure, Magnetic and Electronic Transport Properties of Coâ€“TiO2 Nanocomposite Films in Metal Matrix. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 3105-3114.	0.8	1

#	ARTICLE	IF	CITATIONS
55	Influence of the B-site cation nature on dielectric properties of Ca <sub>2</sub> XBiO <sub>6</sub> (X = Dy, Fe, Al) double perovskite. Chemical Papers, 2013, 67, .	1.0	1
56	The Influence of Thermal Treatment upon Nanostructure and Composition of YZrO Based Ceramics Obtained by Atmospheric Plasma Spraying. Advanced Materials Research, 0, 837, 711-717.	0.3	0
57	Structural and surface studies of the cdse thin films deposited by close space sublimation method. , 2015, , .		0
58	SYNTHESIS, CHARACTERIZATION AND CATALYTIC BEHAVIOR OF Mg-Zn FERRITES SUPPORTED ON ALUMINA. Environmental Engineering and Management Journal, 2016, 15, 2537-2543.	0.2	0