

Valentin A Maraloiu

List of Publications by Year in descending order

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52
papers

689
citations

623734

14
h-index

580821

25
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53
all docs

53
docs citations

53
times ranked

1124
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradability of superparamagnetic nanoparticles in a model of intracellular environment: follow-up of magnetic, structural and chemical properties. <i>Nanotechnology</i> , 2010, 21, 395103.	2.6	169
2	From synthetic to natural nanoparticles: monitoring the biodegradation of SPIO (P904) into ferritin by electron microscopy. <i>Nanoscale</i> , 2011, 3, 4597.	5.6	34
3	Novel Christmas Branched Like NiO/NiWO ₄ /WO ₃ (pâ€“pâ€“n) Nanowire Heterostructures for Chemical Sensing. <i>Advanced Functional Materials</i> , 2021, 31, 2104416.	14.9	32
4	3D hybrid structures based on biomimetic membranes and <i>Caryophyllus aromaticus</i> - â€œgreenâ€“ synthesized nano-silver with improved bioperformances. <i>Materials Science and Engineering C</i> , 2019, 101, 120-137.	7.3	26
5	How morphology determines the charge storage properties of Ge nanocrystals in HfO ₂ . <i>Scripta Materialia</i> , 2016, 113, 135-138.	5.2	25
6	Submicrometer Hollow Bioglass Cones Deposited by Radio Frequency Magnetron Sputtering: Formation Mechanism, Properties, and Prospective Biomedical Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4357-4367.	8.0	24
7	Mn ²⁺ ions distribution in doped solâ€“gel deposited ZnO films. <i>Applied Surface Science</i> , 2017, 396, 1880-1889.	6.1	21
8	Single layer of Ge quantum dots in HfO ₂ for floating gate memory capacitors. <i>Nanotechnology</i> , 2017, 28, 175707.	2.6	21
9	Simple Ethanol Refluxing Method for Production of Blue-Colored Titanium Dioxide with Oxygen Vacancies and Visible Light-Driven Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3564-3576.	3.1	21
10	Structure and electrical transport in films of Ge nanoparticles embedded in SiO ₂ matrix. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	20
11	Nanostructuring of GeTiO amorphous films by pulsed laser irradiation. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 893-900.	2.8	18
12	A nanoscale continuous transition from the monoclinic to ferroelectric orthorhombic phase inside HfO ₂ nanocrystals stabilized by HfO ₂ capping and self-controlled Ge doping. <i>Journal of Materials Chemistry C</i> , 2021, 9, 12353-12366.	5.5	16
13	Orthorhombic HfO ₂ with embedded Ge nanoparticles in nonvolatile memories used for the detection of ionizing radiation. <i>Nanotechnology</i> , 2019, 30, 445501.	2.6	15
14	Optical, microstructural and vibrational properties of solâ€“gel ITO films. <i>Optical Materials</i> , 2021, 114, 110999.	3.6	15
15	Study of magnetic nanovectors by Wet-STEM, a new ESEM mode in transmission. <i>Journal of Colloid and Interface Science</i> , 2010, 352, 386-392.	9.4	13
16	Multiscale investigation of USPIO nanoparticles in atherosclerotic plaques and their catabolism and storage in vivo. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 191-200.	3.3	13
17	Tailoring the Dopant Distribution in ZnO:Mn Nanocrystals. <i>Scientific Reports</i> , 2019, 9, 6894.	3.3	13
18	Mesoporous TiO ₂ from Metal-Organic Frameworks for Photoluminescence-Based Optical Sensing of Oxygen. <i>Catalysts</i> , 2021, 11, 795.	3.5	13

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19	Low Blue Dose Photodynamic Therapy with Porphyrin-Iron Oxide Nanoparticles Complexes: In Vitro Study on Human Melanoma Cells. <i>Pharmaceutics</i> , 2021, 13, 2130.	4.5	13
20	Photo-sensitive Ge nanocrystal based films controlled by substrate deposition temperature. <i>Semiconductor Science and Technology</i> , 2017, 32, 105003.	2.0	12
21	Development and Biocompatibility Evaluation of Photocatalytic TiO ₂ /Reduced Graphene Oxide-Based Nanoparticles Designed for Self-Cleaning Purposes. <i>Nanomaterials</i> , 2017, 7, 279.	4.1	12
22	Thickness-Dependent Photoelectrochemical Water Splitting Properties of Self-Assembled Nanostructured LaFeO ₃ Perovskite Thin Films. <i>Nanomaterials</i> , 2021, 11, 1371.	4.1	12
23	The Influence of the Structural and Morphological Properties of WO ₃ Thin Films Obtained by PLD on the Photoelectrochemical Water-Splitting Reaction Efficiency. <i>Nanomaterials</i> , 2021, 11, 110.	4.1	11
24	Experimental tuning of AuAg nanoalloy plasmon resonances assisted by machine learning method. <i>Applied Surface Science</i> , 2021, 567, 150802.	6.1	11
25	Nanostructured germanium deposited on heated substrates with enhanced photoelectric properties. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1492-1500.	2.8	10
26	Zinc incorporation in marine bivalve shells grown in mine-polluted seabed sediments: a case study in the Malfidano mining area (SW Sardinia, Italy). <i>Environmental Science and Pollution Research</i> , 2018, 25, 36645-36660.	5.3	10
27	Influence of SiGe Nanocrystallization on Short-Wave Infrared Sensitivity of SiGe/TiO ₂ Films and Multilayers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 25043-25053.	3.1	10
28	Biocompatible Silver Nanoparticles: Study of the Chemical and Molecular Structure, and the Ability to Interact with Cadmium and Arsenic in Water and Biological Properties. <i>Nanomaterials</i> , 2021, 11, 2540.	4.1	9
29	Increasing Permittivity and Mechanical Harvesting Response of PVDF-Based Flexible Composites by Using Ag Nanoparticles onto BaTiO ₃ Nanofillers. <i>Nanomaterials</i> , 2022, 12, 934.	4.1	9
30	Ferritin surplus in mouse spleen 14 months after intravenous injection of iron oxide nanoparticles at clinical dose. <i>Nano Research</i> , 2016, 9, 2398-2410.	10.4	8
31	Heavy doping of ceria by wet impregnation: a viable alternative to bulk doping approaches. <i>Nanoscale</i> , 2018, 10, 18043-18054.	5.6	8
32	Effects of Ge-related storage centers formation in Al ₂ O ₃ enhancing the performance of floating gate memories. <i>Applied Surface Science</i> , 2021, 542, 148702.	6.1	8
33	Pattern formation on silicon by laser-initiated liquid-assisted colloidal lithography. <i>Nanotechnology</i> , 2015, 26, 455303.	2.6	6
34	Optoelectric charging-discharging of Ge nanocrystals in floating gate memory. <i>Applied Physics Letters</i> , 2018, 113, 213106.	3.3	6
35	Formation mechanism of CdS nanoparticles with tunable luminescence via a non-ionic microemulsion route. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	5
36	Electrochemically shape-controlled transformation of magnetron sputtered platinum films into platinum nanostructures enclosed by high-index facets. <i>Surface and Coatings Technology</i> , 2017, 309, 6-11.	4.8	5

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37	Fabrication and characterization of Si _{1-x} Ge _x nanocrystals in as-grown and annealed structures: a comparative study. Beilstein Journal of Nanotechnology, 2019, 10, 1873-1882.	2.8	5
38	Influence of Metal Catalyst on SnO ₂ Nanowires Growth and Gas Sensing Performance. Proceedings (mdpi), 2017, 1, 460.	0.2	4
39	High atomic diffusivity during pulsed laser irradiation of TiON quasi-amorphous films. Applied Surface Science, 2016, 374, 248-251.	6.1	3
40	Laser treatment of plasma-hydrogenated silicon wafers for thin layer exfoliation. Journal of Applied Physics, 2011, 109, 063518.	2.5	1
41	Electrical behaviour related to structure of nanostructured GeSi films annealed at 700°C. , 2012, , .		1
42	Electron paramagnetic resonance and microstructural insights into the thermal behavior of simonkolleite nanoplatelets. Physical Chemistry Chemical Physics, 2020, 22, 9503-9512.	2.8	1
43	Transport mechanisms in SiO ₂ films with embedded Germanium nanoparticles. , 2012, , .		0
44	Structure and dielectric properties of low fluence excimer laser annealing of sol-gel HfO ₂ thin films deposited on Si wafer. , 2013, , .		0
45	HfO ₂ with embedded Ge nanocrystals with memory effects. , 2015, , .		0
46	Fast atomic diffusion in amorphous films induced by laser pulse annealing. , 2016, , .		0
47	Non-volatile memory structures with Ge NCs-HfO ₂ intermediate layer. , 2016, , .		0
48	Enhanced Photoconductivity of SIGE-Trilayer Stack by Retrenching Annealing Conditions. , 2018, , .		0
49	Limits and Particularities of the Synthesis of Ba _{1-x} Ca _x TiO ₃ for Piezoelectric Applications, by Topochemical Conversion from Molten Salt Solutions. , 2018, , .		0
50	GeSi Nanocrystals in SiO ₂ Matrix with Extended Photoresponse in Near Infrared. , 2018, , .		0
51	Zn Distribution and Chemical Speciation in Marine Biominerals: An Example on Bivalve and Foraminifera Shells from Polluted Sites. Springer Proceedings in Physics, 2021, , 125-140.	0.2	0
52	Properties of Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ nanoparticles with the spinel structure synthesized via cryo-chemical method. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	0