

Vasile-Adrian Surdu

List of Publications by Year in descending order

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56
times ranked

1120
citing authors

#	ARTICLE	IF	CITATIONS
1	Antimicrobial Wound Dressings as Potential Materials for Skin Tissue Regeneration. <i>Materials</i> , 2019, 12, 1859.	2.9	46
2	Zinc Oxide Nanoparticles for Water Purification. <i>Materials</i> , 2021, 14, 4747.	2.9	44
3	BiFeO ₃ -synthesis, characterization and its photocatalytic activity towards doxorubicin degradation from water. <i>Ceramics International</i> , 2019, 45, 2789-2802.	4.8	39
4	Ceramic Composite Materials Obtained by Electron-Beam Physical Vapor Deposition Used as Thermal Barriers in the Aerospace Industry. <i>Nanomaterials</i> , 2020, 10, 370.	4.1	39
5	Size-dependent photoluminescence of zinc oxide quantum dots through organosilane functionalization. <i>RSC Advances</i> , 2014, 4, 63128-63136.	3.6	38
6	Combustion synthesis of Fe ₃ O ₄ /Ag/C nanocomposite and application for dyes removal from multicomponent systems. <i>Applied Surface Science</i> , 2019, 481, 825-837.	6.1	38
7	A new approach: Synthesis of cobalt aluminate nanoparticles using tamarind fruit extract. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 246, 42-48.	3.5	30
8	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. <i>Materials</i> , 2015, 8, 3284-3305.	2.9	28
9	A valence states approach for luminescence enhancement by low dopant concentration in Eu-doped ZnO nanoparticles. <i>Journal of Materials Science</i> , 2015, 50, 6075-6086.	3.7	28
10	Nano-Hydroxyapatite vs. Xenografts: Synthesis, Characterization, and In Vitro Behavior. <i>Nanomaterials</i> , 2021, 11, 2289.	4.1	26
11	Influence of the size and the morphology of ZnO nanoparticles on cell viability. <i>Comptes Rendus Chimie</i> , 2015, 18, 1335-1343.	0.5	24
12	Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver nanoparticles fabricated by MAPLE: A comparative study. <i>Applied Surface Science</i> , 2016, 374, 290-296.	6.1	23
13	Synthesis, Characterization of Nanosized ZnCr ₂ O ₄ and Its Photocatalytic Performance in the Degradation of Humic Acid from Drinking Water. <i>Catalysts</i> , 2018, 8, 210.	3.5	21
14	Mesoporous silica coatings for cephalosporin active release at the bone-implant interface. <i>Applied Surface Science</i> , 2016, 374, 165-171.	6.1	20
15	Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections. <i>Applied Surface Science</i> , 2016, 374, 387-396.	6.1	19
16	Novel Nanocomposites Based on Functionalized Magnetic Nanoparticles and Polyacrylamide: Preparation and Complex Characterization. <i>Nanomaterials</i> , 2019, 9, 1384.	4.1	19
17	Photoluminescent Hydroxylapatite: Eu ³⁺ Doping Effect on Biological Behaviour. <i>Nanomaterials</i> , 2019, 9, 1187.	4.1	16
18	Design, Fabrication, and Characterization of New Materials Based on Zirconia Doped with Mixed Rare Earth Oxides: Review and First Experimental Results. <i>Metals</i> , 2020, 10, 746.	2.3	16

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19	Sol-gel derived vitroc ceramic materials for biomedical applications. Journal of Non-Crystalline Solids, 2016, 449, 75-82.	3.1	15
20	CuBi ₂ O ₄ Synthesis, Characterization, and Application in Sensitive Amperometric/Voltammetric Detection of Amoxicillin in Aqueous Solutions. Nanomaterials, 2021, 11, 740.	4.1	15
21	Influence of hot isostatic pressing on ZrO ₂ -CaO dental ceramics properties. International Journal of Pharmaceutics, 2016, 510, 439-448.	5.2	14
22	Magnetic properties of Ba _x Ni _{1-x} Fe ₁₂ O ₁₉ (x=0.0-1.0) hexaferrites, synthesized by citrate-gel auto-combustion and sintered by conventional and spark plasma methods. Journal of Alloys and Compounds, 2020, 831, 154850.	5.5	14
23	Vinyltrimethoxysilane-modified zinc oxide quantum dots with tuned optical properties. Applied Surface Science, 2015, 359, 766-773.	6.1	11
24	Probing the dielectric, piezoelectric and magnetic behavior of CoFe ₂ O ₄ /BNT-BT _{0.08} composite thin film fabricated by sol-gel and spin-coating methods. Scientific Reports, 2018, 8, 17883.	3.3	10
25	Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE. Applied Surface Science, 2015, 336, 234-239.	6.1	9
26	Piezoelectric/ferromagnetic BNT-BT _{0.08} /CoFe ₂ O ₄ coaxial core-shell composite nanotubes for nanoelectronic devices. Journal of Alloys and Compounds, 2018, 752, 381-388.	5.5	9
27	Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite. BioNanoScience, 2018, 8, 154-165.	3.5	9
28	Bi _{1-x} Eu _x FeO ₃ Powders: Synthesis, Characterization, Magnetic and Photoluminescence Properties. Nanomaterials, 2019, 9, 1465.	4.1	9
29	Composite BNT-BT _{0.08} /CoFe ₂ O ₄ with core-shell nanostructure for piezoelectric and ferromagnetic applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 240, 7-15.	3.5	9
30	Lanthanum Ferrite Ceramic Powders: Synthesis, Characterization and Electrochemical Detection Application. Materials, 2020, 13, 2061.	2.9	9
31	Influence of Dopant Nature on Biological Properties of ZnO Thin-Film Coatings on Ti Alloy Substrate. Nanomaterials, 2020, 10, 129.	4.1	9
32	Lead-Free BNT-BT _{0.08} /CoFe ₂ O ₄ Core-Shell Nanostructures with Potential Multifunctional Applications. Nanomaterials, 2020, 10, 672.	4.1	9
33	Characterizing nanoparticles with a laboratory diffractometer: from small-angle to total X-ray scattering. Powder Diffraction, 2014, 29, S47-S53.	0.2	8
34	Synthesis and characterization of CoFe ₂ O ₄ /BNT-BT _{0.08} core-shell nanotubes by a template based sol-gel method. Ceramics International, 2018, 44, 10813-10819.	4.8	8
35	Sol-gel-derived mineral scaffolds within SiO ₂ -P ₂ O ₅ -CaO-MgO-ZnO-CaF ₂ system. Journal of Sol-Gel Science and Technology, 2019, 90, 411-421.	2.4	8
36	(Ba,Sr)TiO ₃ solid solutions sintered from sol-gel derived powders: An insight into the composition and temperature dependent dielectric behavior. Ceramics International, 2020, 46, 4180-4190.	4.8	8

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37	Mentha piperita-mediated synthesis of cobalt aluminate nanoparticles and their photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 11220-11231.	2.2	8
38	Structural, electrical properties and photoluminescence analyses of the terbium doped barium titanate. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160380.	5.5	7
39	Dielectric, piezoelectric and magnetic behavior of CoFe ₂ O ₄ /BNT/BTO.08 monolayer thin films composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 282, 115770.	3.5	7
40	Biocompatible 3D Matrix with Antimicrobial Properties. <i>Molecules</i> , 2016, 21, 115.	3.8	5
41	Electric and magnetic properties of ferromagnetic/piezoelectric bilayered composite. <i>Journal of Materials Science</i> , 2018, 53, 14160-14171.	3.7	5
42	High temperature superconducting materials based on Graphene / YBCO nanocomposite. <i>Materials Today: Proceedings</i> , 2016, 3, 2628-2634.	1.8	4
43	Dielectric and photoluminescence properties of Nd and Ga codoped-BaTiO ₃ , prepared by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11371-11378.	2.2	4
44	Thermally Activated Al(OH) ₃ Part II: Effect of Different Thermal Treatments. <i>Ceramics</i> , 2021, 4, 564-575.	2.6	4
45	Soft Chemistry Synthesis and Characterization of CoFe _{1.8} RE _{0.2} O ₄ (RE ³⁺ = Tb ³⁺ , Er ³⁺) Ferrite. <i>Magnetochemistry</i> , 2022, 8, 12.	2.4	4
46	Eu ³⁺ -doped ZnO nanostructures: advanced characterizations, photoluminescence and cytotoxic effect. <i>Romanian Journal of Morphology and Embryology</i> , 2017, 58, 941-952.	0.8	3
47	Synthesis and characterization of novel ferrite piezoelectric multiferroic core-shell-type structure. <i>Journal of Materials Science</i> , 2018, 53, 9650-9661.	3.7	2
48	Structural, functional properties and enhanced thermal stability of bulk graded (Ba,Sr)TiO ₃ structures obtained by spark plasma sintering. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2085-2103.	5.8	2
49	Thermally Activated Al(OH) ₃ : Part I: Morphology and Porosity Evaluation. <i>Ceramics</i> , 2021, 4, 265-277.	2.6	2
50	Utilization of Dielectric Properties Assessment To Evaluate the Catalytic Activity and Rate of Deactivation of Heterogeneous Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 1940-1947.	3.7	1
51	Influence of Sintering Strategy on the Characteristics of Sol-Gel Ba _{1-x} Ce _x Ti _{1-x} /4O ₃ Ceramics. <i>Nanomaterials</i> , 2019, 9, 1675.	4.1	1
52	Phase Formation in Heterovalent Equimolar Quinary Oxide Systems of ZrO ₂ -HfO ₂ -CeO ₂ -Nb ₂ O ₅ -RE ₂ O ₃ Type (RE = Y, Yb, Nd, Gd). <i>Ceramics</i> , 2021, 4, 476-485.	2.6	1
53	Biodegradation and mechanical behaviour of sintered compacts of Co-Cr alloy powder doped with ZrO ₂ used in dentistry. <i>Tehnicki Vjesnik</i> , 2016, 23, .	0.2	0
54	Four-fold multifunctional properties in self-organized layered ferrite. <i>Ceramics International</i> , 2020, 46, 28621-28630.	4.8	0

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55	Fly-Ash Evaluation as Potential EOL Material Replacement of Cement in Pastes: Morpho-Structural and Physico-Chemical Properties Assessment. <i>Materials</i> , 2022, 15, 3092.	2.9	0