

# Vasile-Adrian Surdu

## List of Publications by Year in descending order

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55  
papers

757  
citations

516710

16  
h-index

610901

24  
g-index

56  
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56  
docs citations

56  
times ranked

1120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft Chemistry Synthesis and Characterization of $\text{CoFe}_{1.8}\text{RE}_{0.2}\text{O}_4$ ( $\text{RE}^{3+} = \text{Tb}^{3+}, \text{Er}^{3+}$ ) Ferrite. <i>Magnetochemistry</i> , 2022, 8, 12.	2.4	4
2	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
3	Dielectric, piezoelectric and magnetic behavior of $\text{CoFe}_2\text{O}_4/\text{BNT}$ monolayer thin films composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 282, 115770.	3.5	7
4	$\text{CuBi}_2\text{O}_4$ Synthesis, Characterization, and Application in Sensitive Amperometric/Voltammetric Detection of Amoxicillin in Aqueous Solutions. <i>Nanomaterials</i> , 2021, 11, 740.	4.1	15
5	<i>Mentha piperita</i> -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
6	Structural, functional properties and enhanced thermal stability of bulk graded $(\text{Ba,Sr})\text{TiO}_3$ structures obtained by spark plasma sintering. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2085-2103.	5.8	2
7	Thermally Activated $\text{Al}(\text{OH})_3$ : Part I—Morphology and Porosity Evaluation. <i>Ceramics</i> , 2021, 4, 265-277.	2.6	2
8	Zinc Oxide Nanoparticles for Water Purification. <i>Materials</i> , 2021, 14, 4747.	2.9	44
9	Nano-Hydroxyapatite vs. Xenografts: Synthesis, Characterization, and In Vitro Behavior. <i>Nanomaterials</i> , 2021, 11, 2289.	4.1	26
10	Phase Formation in Heterovalent Equimolar Quinary Oxide Systems of $\text{ZrO}_2\text{-HfO}_2\text{-CeO}_2\text{-Nb}_2\text{O}_5\text{-RE}_2\text{O}_3$ Type ( $\text{RE} = \text{Y}, \text{Yb}, \text{Nd}, \text{Gd}$ ). <i>Ceramics</i> , 2021, 4, 476-485.	2.6	1
11	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
12	Thermally Activated $\text{Al}(\text{OH})_3$ Part II—Effect of Different Thermal Treatments. <i>Ceramics</i> , 2021, 4, 564-575.	2.6	4
13	$(\text{Ba,Sr})\text{TiO}_3$ solid solutions sintered from sol-gel derived powders: An insight into the composition and temperature dependent dielectric behavior. <i>Ceramics International</i> , 2020, 46, 4180-4190.	4.8	8
14	Four-fold multifunctional properties in self-organized layered ferrite. <i>Ceramics International</i> , 2020, 46, 28621-28630.	4.8	0
15	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
16	Lanthanum Ferrite Ceramic Powders: Synthesis, Characterization and Electrochemical Detection Application. <i>Materials</i> , 2020, 13, 2061.	2.9	9
17	Magnetic properties of $\text{BaNi}_x\text{Fe}_{12-x}\text{O}_{19}$ ( $x=0\text{--}1.0$ ) hexaferrites, synthesized by citrate-gel auto-combustion and sintered by conventional and spark plasma methods. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154850.	5.5	14
18	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

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19	Influence of Dopant Nature on Biological Properties of ZnO Thin-Film Coatings on Ti Alloy Substrate. <i>Nanomaterials</i> , 2020, 10, 129.	4.1	9
20	Lead-Free BNT/BT0.08/CoFe <sub>2</sub> O <sub>4</sub> Core/Shell Nanostructures with Potential Multifunctional Applications. <i>Nanomaterials</i> , 2020, 10, 672.	4.1	9
21	BiFeO <sub>3</sub> -synthesis, characterization and its photocatalytic activity towards doxorubicin degradation from water. <i>Ceramics International</i> , 2019, 45, 2789-2802.	4.8	39
22	Photoluminescent Hydroxylapatite: Eu <sup>3+</sup> Doping Effect on Biological Behaviour. <i>Nanomaterials</i> , 2019, 9, 1187.	4.1	16
23	Novel Nanocomposites Based on Functionalized Magnetic Nanoparticles and Polyacrylamide: Preparation and Complex Characterization. <i>Nanomaterials</i> , 2019, 9, 1384.	4.1	19
24	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
25	Antimicrobial Wound Dressings as Potential Materials for Skin Tissue Regeneration. <i>Materials</i> , 2019, 12, 1859.	2.9	46
26	Combustion synthesis of Fe <sub>3</sub> O <sub>4</sub> /Ag/C nanocomposite and application for dyes removal from multicomponent systems. <i>Applied Surface Science</i> , 2019, 481, 825-837.	6.1	38
27	Sol-gel-derived mineral scaffolds within SiO <sub>2</sub> -P <sub>2</sub> O <sub>5</sub> -CaO-MgO-ZnO-CaF <sub>2</sub> system. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 411-421.	2.4	8
28	Bi <sub>1-x</sub> EuxFeO <sub>3</sub> Powders: Synthesis, Characterization, Magnetic and Photoluminescence Properties. <i>Nanomaterials</i> , 2019, 9, 1465.	4.1	9
29	Influence of Sintering Strategy on the Characteristics of Sol-Gel Ba <sub>1-x</sub> CexTi <sub>1-x</sub> /4O <sub>3</sub> Ceramics. <i>Nanomaterials</i> , 2019, 9, 1675.	4.1	1
30	Composite BNT-BT0.08/CoFe <sub>2</sub> O <sub>4</sub> with core-shell nanostructure for piezoelectric and ferromagnetic applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 240, 7-15.	3.5	9
31	Piezoelectric/ferromagnetic BNT-BT0.08/CoFe <sub>2</sub> O <sub>4</sub> coaxial core-shell composite nanotubes for nanoelectronic devices. <i>Journal of Alloys and Compounds</i> , 2018, 752, 381-388.	5.5	9
32	Synthesis and characterization of CoFe <sub>2</sub> O <sub>4</sub> /BNT-BT 0.08 core-shell nanotubes by a template based sol-gel method. <i>Ceramics International</i> , 2018, 44, 10813-10819.	4.8	8
33	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
34	Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite. <i>BioNanoScience</i> , 2018, 8, 154-165.	3.5	9
35	Probing the dielectric, piezoelectric and magnetic behavior of CoFe <sub>2</sub> O <sub>4</sub> /BNT-BT0.08 composite thin film fabricated by sol-gel and spin-coating methods. <i>Scientific Reports</i> , 2018, 8, 17883.	3.3	10
36	Synthesis, Characterization of Nanosized ZnCr <sub>2</sub> O <sub>4</sub> and Its Photocatalytic Performance in the Degradation of Humic Acid from Drinking Water. <i>Catalysts</i> , 2018, 8, 210.	3.5	21

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37	Electric and magnetic properties of ferromagnetic/piezoelectric bilayered composite. Journal of Materials Science, 2018, 53, 14160-14171.	3.7	5
38	Utilization of Dielectric Properties Assessment To Evaluate the Catalytic Activity and Rate of Deactivation of Heterogeneous Catalysts. Industrial & Engineering Chemistry Research, 2017, 56, 1940-1947.	3.7	1
39	Eu <sup>3+</sup> -doped ZnO nanostructures: advanced characterizations, photoluminescence and cytotoxic effect. Romanian Journal of Morphology and Embryology, 2017, 58, 941-952.	0.8	3
40	Biodegradation and mechanical behaviour of sintered compacts of Co-Cr alloy powder doped with ZrO <sub>2</sub> used in dentistry. Tehnicki Vjesnik, 2016, 23, .	0.2	0
41	Biocompatible 3D Matrix with Antimicrobial Properties. Molecules, 2016, 21, 115.	3.8	5
42	High temperature superconducting materials based on Graphene / YBCO nanocomposite. Materials Today: Proceedings, 2016, 3, 2628-2634.	1.8	4
43	Dielectric and photoluminescence properties of Nd and Ga codoped-BaTiO <sub>3</sub> , prepared by sol-gel method. Journal of Materials Science: Materials in Electronics, 2016, 27, 11371-11378.	2.2	4
44	Sol-gel derived vitroc ceramic materials for biomedical applications. Journal of Non-Crystalline Solids, 2016, 449, 75-82.	3.1	15
45	Antimicrobial activity of biopolymeric thin films containing flavonoid natural compounds and silver nanoparticles fabricated by MAPLE: A comparative study. Applied Surface Science, 2016, 374, 290-296.	6.1	23
46	Mesoporous silica coatings for cephalosporin active release at the bone-implant interface. Applied Surface Science, 2016, 374, 165-171.	6.1	20
47	Biocompatible cephalosporin-hydroxyapatite-poly(lactic-co-glycolic acid)-coatings fabricated by MAPLE technique for the prevention of bone implant associated infections. Applied Surface Science, 2016, 374, 387-396.	6.1	19
48	Influence of hot isostatic pressing on ZrO <sub>2</sub> -CaO dental ceramics properties. International Journal of Pharmaceutics, 2016, 510, 439-448.	5.2	14
49	The Role of Ambient Gas and Pressure on the Structuring of Hard Diamond-Like Carbon Films Synthesized by Pulsed Laser Deposition. Materials, 2015, 8, 3284-3305.	2.9	28
50	Vinyltrimethoxysilane-modified zinc oxide quantum dots with tuned optical properties. Applied Surface Science, 2015, 359, 766-773.	6.1	11
51	Influence of the size and the morphology of ZnO nanoparticles on cell viability. Comptes Rendus Chimie, 2015, 18, 1335-1343.	0.5	24
52	Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE. Applied Surface Science, 2015, 336, 234-239.	6.1	9
53	A valence states approach for luminescence enhancement by low dopant concentration in Eu-doped ZnO nanoparticles. Journal of Materials Science, 2015, 50, 6075-6086.	3.7	28
54	Characterizing nanoparticles with a laboratory diffractometer: from small-angle to total X-ray scattering. Powder Diffraction, 2014, 29, S47-S53.	0.2	8

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55	Size-dependent photoluminescence of zinc oxide quantum dots through organosilane functionalization. RSC Advances, 2014, 4, 63128-63136.	3.6	38