

Roxana Trusca

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Embedded Target Filler and Natural Fibres as Interface Agents in Controlling the Stretchability of New Starch and PVOH-Based Materials for Rethinked Sustainable Packaging. <i>Materials</i> , 2022, 15, 1377.	2.9	0
2	Macrophage-like Cells Are Responsive to Titania Nanotube Intertube Spacing—An In Vitro Study. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3558.	4.1	4
3	Properties of Polysiloxane/Nanosilica Nanodielectrics for Wearable Electronic Devices. <i>Nanomaterials</i> , 2022, 12, 95.	4.1	4
4	Novel Dextran Coated Cerium Doped Hydroxyapatite Thin Films. <i>Polymers</i> , 2022, 14, 1826.	4.5	3
5	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
6	Mesoporous Silica Materials Loaded with Gallic Acid with Antimicrobial Potential. <i>Nanomaterials</i> , 2022, 12, 1648.	4.1	17
7	Electrically Triggered Drug Delivery from Novel Electrospun Poly(Lactic Acid)/Graphene Oxide/Quercetin Fibrous Scaffolds for Wound Dressing Applications. <i>Pharmaceutics</i> , 2021, 13, 957.	4.5	59
8	Synthesis and Characterization of Photoluminescent Ce(III) and Ce(IV) Substituted Hydroxyapatite Nanomaterials by Co-Precipitation Method: Cytotoxicity and Biocompatibility Evaluation. <i>Nanomaterials</i> , 2021, 11, 1911.	4.1	18
9	Nano-Hydroxyapatite vs. Xenografts: Synthesis, Characterization, and In Vitro Behavior. <i>Nanomaterials</i> , 2021, 11, 2289.	4.1	26
10	Exploring the potential of inexpensive high oleic sunflower oil for new polymeric architectures. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1813-1821.	3.2	1
11	Modulation of the PLLA Morphology through Racemic Nucleation to Reach Functional Properties Required by 3D Printed Durable Applications. <i>Materials</i> , 2021, 14, 6650.	2.9	1
12	Microfibrillated Cellulose Grafted with Metacrylic Acid as a Modifier in Poly(3-hydroxybutyrate). <i>Polymers</i> , 2021, 13, 3970.	4.5	6
13	Morpho-Structural, Thermal and Mechanical Properties of PLA/PHB/Cellulose Biodegradable Nanocomposites Obtained by Compression Molding, Extrusion, and 3D Printing. <i>Nanomaterials</i> , 2020, 10, 51.	4.1	87
14	Harnessing a byproduct from wastewater treatment to obtain improved starch/poly(vinyl alcohol) composites. <i>Carbohydrate Polymers</i> , 2020, 238, 115777.	10.2	3
15	Thermal and mechanical properties of poly(3-hydroxybutyrate) reinforced with cellulose fibers from wood waste. <i>Industrial Crops and Products</i> , 2020, 145, 112071.	5.2	50
16	Enhanced Internalization of Nanoparticles Following Ionizing Radiation Leads to Mitotic Catastrophe in MG-63 Human Osteosarcoma Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7220.	4.1	14
17	Poly(3-hydroxybutyrate) Modified by Plasma and TEMPO-Oxidized Celluloses. <i>Polymers</i> , 2020, 12, 1510.	4.5	14
18	Biocomposite foams based on polyhydroxyalkanoate and nanocellulose: Morphological and thermo-mechanical characterization. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1867-1878.	7.5	13

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19	Bacterial cellulose sponges obtained with green cross-linkers for tissue engineering. <i>Materials Science and Engineering C</i> , 2020, 110, 110740.	7.3	46
20	Graphene Oxide-Based Silico-Phosphate Composite Films for Optical Limiting of Ultrashort Near-Infrared Laser Pulses. <i>Nanomaterials</i> , 2020, 10, 1638.	4.1	8
21	Antibacterial Activity of Bacterial Cellulose Loaded with Bacitracin and Amoxicillin: In Vitro Studies. <i>Molecules</i> , 2020, 25, 4069.	3.8	41
22	Nanocomposites from functionalized bacterial cellulose and poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymer Degradation and Stability</i> , 2020, 179, 109203.	5.8	14
23	Multifunctional Hydroxyapatite Coated with <i>Artemisia absinthium</i> Composites. <i>Molecules</i> , 2020, 25, 413.	3.8	14
24	Solution for green organic thin film transistors: Fe ₃ O ₄ nano-core with PABA external shell as p-type film. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 3063-3073.	2.2	7
25	Lead-Free BNT/BT _{0.08} /CoFe ₂ O ₄ Core/Shell Nanostructures with Potential Multifunctional Applications. <i>Nanomaterials</i> , 2020, 10, 672.	4.1	9
26	Chitosan/Graphene Oxide Nanocomposite Membranes as Adsorbents with Applications in Water Purification. <i>Materials</i> , 2020, 13, 1687.	2.9	46
27	Biomimetic Composite Scaffold Based on Naturally Derived Biomaterials. <i>Polymers</i> , 2020, 12, 1161.	4.5	29
28	Advanced Drug-Eluting Poly (Vinyl Chloride) Surfaces Deposited by Spin Coating. <i>Medicina (Lithuania)</i> , 2019, 55, 421.	2.0	3
29	3D structures of hydroxyapatite obtained from <i>Rapana venosa</i> shells using hydrothermal synthesis followed by 3D printing. <i>Journal of Materials Science</i> , 2019, 54, 13901-13913.	3.7	7
30	The Effect of the Ionizing Radiation on Hydroxyapatite/Polydimethylsiloxane Layers. <i>Polymer Engineering and Science</i> , 2019, 59, 2406-2412.	3.1	8
31	Photoluminescent Hydroxylapatite: Eu ³⁺ Doping Effect on Biological Behaviour. <i>Nanomaterials</i> , 2019, 9, 1187.	4.1	16
32	Surface evaluation of titanium oxynitride coatings used for developing layered cardiovascular stents. <i>Materials Science and Engineering C</i> , 2019, 99, 405-416.	7.3	28
33	Multifunctional Platforms Based on Graphene Oxide and Natural Products. <i>Medicina (Lithuania)</i> , 2019, 55, 230.	2.0	23
34	Antimicrobial Wound Dressings as Potential Materials for Skin Tissue Regeneration. <i>Materials</i> , 2019, 12, 1859.	2.9	46
35	Biomimetic Collagen/Zn ²⁺ -Substituted Calcium Phosphate Composite Coatings on Titanium Substrates as Prospective Bioactive Layer for Implants: A Comparative Study Spin Coating vs. MAPLE. <i>Nanomaterials</i> , 2019, 9, 692.	4.1	14
36	Preparations of Silver/Montmorillonite Biocomposite Multilayers and Their Antifungal Activity. <i>Coatings</i> , 2019, 9, 817.	2.6	14

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37	Bi ^{1-x} EuxFeO ₃ Powders: Synthesis, Characterization, Magnetic and Photoluminescence Properties. <i>Nanomaterials</i> , 2019, 9, 1465.	4.1	9
38	Influence of Sintering Strategy on the Characteristics of Sol-Gel Ba _{1-x} CexTi _{1-x} /4O ₃ Ceramics. <i>Nanomaterials</i> , 2019, 9, 1675.	4.1	1
39	Flax Fibres Fabric Surface Decoration with Nanoparticles - A Promising Tool for Developing Hybrid Reinforcing Agent of Thermoplastic Polymers. <i>Fibers and Polymers</i> , 2019, 20, 2407-2415.	2.1	1
40	Piezoelectric/ferromagnetic BNT-BT0.08/CoFe ₂ O ₄ coaxial core-shell composite nanotubes for nanoelectronic devices. <i>Journal of Alloys and Compounds</i> , 2018, 752, 381-388.	5.5	9
41	MAPLE fabricated coatings based on magnetite nanoparticles embedded into biopolymeric spheres resistant to microbial colonization. <i>Applied Surface Science</i> , 2018, 448, 230-236.	6.1	15
42	Production and Characterization of Antimicrobial Electrospun Nanofibers Containing Polyurethane, Zirconium Oxide and Zeolite. <i>BioNanoScience</i> , 2018, 8, 154-165.	3.5	9
43	Surface properties, thermal, and mechanical characteristics of poly(vinyl alcohol)-starch-bacterial cellulose composite films. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45800.	2.6	18
44	Poly(3-hydroxybutyrate) Modified by Nanocellulose and Plasma Treatment for Packaging Applications. <i>Polymers</i> , 2018, 10, 1249.	4.5	59
45	Poly(2-isopropenyl-2-oxazoline) Hydrogels for Biomedical Applications. <i>Chemistry of Materials</i> , 2018, 30, 7938-7949.	6.7	37
46	Role of bacterial cellulose and poly (3-hydroxyhexanoate-co-3-hydroxyoctanoate) in poly (3-hydroxybutyrate) blends and composites. <i>Cellulose</i> , 2018, 25, 5569-5591.	4.9	29
47	Surface Treatment of Bacterial Cellulose in Mild, Eco-Friendly Conditions. <i>Coatings</i> , 2018, 8, 221.	2.6	30
48	Effects of a surfactant on the morphology and photocatalytic properties of polycrystalline Fe-doped ZnO powders. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 121, 319-328.	4.0	10
49	Combined use of Mössbauer spectroscopy, XPS, HRTEM, dielectric and anelastic spectroscopy for estimating incipient phase separation in lead titanate-based multiferroics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14652-14663.	2.8	13
50	Lanthanum influence on the structure, dielectric properties and luminescence of BaTiO ₃ ceramics processed by spark plasma sintering technique. <i>Journal of Alloys and Compounds</i> , 2017, 706, 538-545.	5.5	25
51	Medium Chain-Length Polyhydroxyalkanoate Copolymer Modified by Bacterial Cellulose for Medical Devices. <i>Biomacromolecules</i> , 2017, 18, 3222-3232.	5.4	39
52	Bioactive mesoporous silica nanostructures with anti-microbial and anti-biofilm properties. <i>International Journal of Pharmaceutics</i> , 2017, 531, 35-46.	5.2	33
53	Fabrication and Cytotoxicity of Gemcitabine-Functionalized Magnetite Nanoparticles. <i>Molecules</i> , 2017, 22, 1080.	3.8	34
54	Structural and morphological characterization of bacterial cellulose nano-reinforcements prepared by mechanical route. <i>Materials and Design</i> , 2016, 110, 790-801.	7.0	50

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55	Study of the frescoes in IoneÅŸtii Govorii wooden church (Romania) using multi-technique investigations. <i>Microchemical Journal</i> , 2016, 126, 332-340.	4.5	8
56	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
57	Characteristics of Ce ³⁺ -doped barium titanate nanoshell tubes prepared by template-mediated colloidal chemistry. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1633-1642.	5.7	14
58	Dielectric characterization of Ba _x Sr _{1-x} Fe ₁₂ O ₁₉ (x = 0.05-0.35) ceramics. <i>Ceramics International</i> , 2016, 42, 1050-1056.	4.8	5
59	Characteristics of 5Åmol% Ce ³⁺ -doped barium titanate nanowires prepared by a combined route involving sol-gel chemistry and polycarbonate membrane-templated process. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	6
60	Controlling the Melt Resistance to Flow as a Possibility of Improving the Miscibility and the Time Behavior of Some Blends Based on Starch. <i>International Journal of Polymer Science</i> , 2015, 2015, 1-12.	2.7	4
61	Physicochemical Analysis of the Polydimethylsiloxane Interlayer Influence on a Hydroxyapatite Doped with Silver Coating. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-10.	2.7	14
62	Nanostructured mesoporous silica: new perspectives for fighting antimicrobial resistance. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	1.9	4
63	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
64	Optical, structural and morphological characterization of CdS-doped sol-gel silico-phosphate films. , 2015, , .		1
65	Fabrication and characterization of functionalized surfaces with 3-amino propyltrimethoxysilane films for anti-infective therapy applications. <i>Applied Surface Science</i> , 2015, 336, 401-406.	6.1	10
66	CdSe/ZnS-doped silicophosphate films prepared by sol-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 660-665.	2.4	6
67	Microbial colonization of biopolymeric thin films containing natural compounds and antibiotics fabricated by MAPLE. <i>Applied Surface Science</i> , 2015, 336, 234-239.	6.1	9
68	Gamma-cyclodextrin/usnic acid thin film fabricated by MAPLE for improving the resistance of medical surfaces to <i>Staphylococcus aureus</i> colonization. <i>Applied Surface Science</i> , 2015, 336, 407-412.	6.1	19
69	Study of thermal decomposition of a zinc(II) monomethyl terephthalate complex, [Zn(CH ₃ O-CO-C ₆ H ₄ COO) ₂ (OH) ₂] ₃ ·2H ₂ O. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 121, 691-695.	3.6	4
70	3D direct laser writing of Petabyte Optical Disk. <i>Optics and Laser Technology</i> , 2015, 71, 45-49.	4.6	3
71	Bioevaluation of Novel Anti-Biofilm Coatings Based on PVP/Fe ₃ O ₄ Nanostructures and 2-((4-Ethylphenoxy)methyl)-N-(arylcabamothioyl)benzamides. <i>Molecules</i> , 2014, 19, 12011-12030.	3.8	12
72	Antimicrobial nanospheres thin coatings prepared by advanced pulsed laser technique. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 872-880.	2.8	31

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73	Electrochemical Biosensitivity of Titania Nanotubes towards Alkaline Phosphatase, IL-6 and IL-8 Interleukins Biomarkers. <i>Journal of the Electrochemical Society</i> , 2014, 161, B275-B282.	2.9	1
74	Titanium dioxide nanotube films. <i>Materials Science and Engineering C</i> , 2014, 37, 374-382.	7.3	24
75	MAPLE fabricated magnetite@eugenol and (3-hydroxybutyric acid-co-3-hydroxyvaleric acid) polyvinyl alcohol microspheres coated surfaces with anti-microbial properties. <i>Applied Surface Science</i> , 2014, 306, 16-22.	6.1	51
76	Quantum optical lithography from 1nm resolution to pattern transfer on silicon wafer. <i>Optics and Laser Technology</i> , 2014, 60, 80-84.	4.6	12
77	Usnic acid-loaded biocompatible magnetic PLGA-PVA microsphere thin films fabricated by MAPLE with increased resistance to staphylococcal colonization. <i>Biofabrication</i> , 2014, 6, 035002.	7.1	45
78	Functionalized antibiofilm thin coatings based on PLA-PVA microspheres loaded with usnic acid natural compounds fabricated by MAPLE. <i>Applied Surface Science</i> , 2014, 302, 262-267.	6.1	64
79	Preparation by sol-gel and solid state reaction methods and properties investigation of double perovskite Sr ₂ FeMoO ₆ . <i>Journal of the European Ceramic Society</i> , 2013, 33, 2483-2490.	5.7	38
80	Recent advances in synthesis, characterization of hydroxyapatite/polyurethane composites and study of their biocompatible properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2491-2503.	3.6	11
81	Investigation of thermal and catalytic degradation of polystyrene waste into styrene monomer over natural volcanic tuff and Florisil catalysts. <i>Open Chemistry</i> , 2013, 11, 725-735.	1.9	9
82	Structural and electrical properties of NBT-BT _{0.08} ceramic prepared by the pyrosol method. <i>Ceramics International</i> , 2013, 39, 5925-5930.	4.8	7
83	Structure, morphology and optical properties of multilayered sol-gel BaTi _{0.85} Zr _{0.15} O ₃ thin films. <i>Applied Surface Science</i> , 2013, 265, 510-518.	6.1	13
84	Microstructure and electrical properties of zirconia and composite nanostructured ceramics sintered by different methods. <i>Ceramics International</i> , 2013, 39, 2535-2543.	4.8	4
85	Composite membranes with poly(ether ether ketone) as support and polyaniline like structure, with potential applications in fuel cells. <i>Open Chemistry</i> , 2013, 11, 438-445.	1.9	6
86	Nanotubes of piezoelectric BNT-BT _{0.08} obtained from sol-gel precursor. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	7
87	Synthesis and Characterization of Magnetite-Polysulfone Micro- and Nanobeads with Improved Chemical Stability in Acidic Media. <i>Current Nanoscience</i> , 2013, 9, 271-277.	1.2	7
88	Investigation of thermal behaviour of hybrid nanostructures based on Fe ₂ O ₃ and PAMAM dendrimers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 357-362.	3.6	15
89	Synthesis and characterization of nanostructured zinc oxide particles synthesized by the pyrosol method. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	1.9	33
90	Structural and piezoelectric characteristics of BNT-BT _{0.05} thin films processed by sol-gel technique. <i>Journal of Alloys and Compounds</i> , 2012, 515, 166-170.	5.5	71

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91	Influence of filler/reinforcing agent and post-curing on the flexural properties of woven and unidirectional glass fiber-reinforced composites. Journal of Materials Science, 2012, 47, 3305-3314.	3.7	21
92	Spark-plasma-sintering temperature dependence of structural and piezoelectric properties of BNT ϵ BTO.08 nanostructured ceramics. Journal of Materials Science, 2012, 47, 3669-3673.	3.7	12
93	Ba(Ti $_{1-x}$ Sn $_x$)O $_3$ ($x=0.13$) nanomaterials produced by low-temperature aqueous synthesis. Journal of Alloys and Compounds, 2011, 509, 9934-9937.	5.5	5
94	Preparation and characterization of PVA composites with cellulose nanofibers obtained by ultrasonication. BioResources, 2011, 6, 487-512.	1.0	165
95	Porous calcium alginate ϵ gelatin interpenetrated matrix and its biomineralization potential. Journal of Materials Science: Materials in Medicine, 2011, 22, 451-460.	3.6	33
96	Oxazoline-functional polymer particles graft with azo-dye. Reactive and Functional Polymers, 2011, 71, 373-379.	4.1	26
97	Polysulfone-polyaniline blend composite membrane for fuel cells applications. , 2011, , .		0
98	Collagen/hydroxyapatite composite materials with desired ceramic properties. Journal of Electron Microscopy, 2011, 60, 253-259.	0.9	17
99	On the bioactivity of adherent bioglass thin films synthesized by magnetron sputtering techniques. Thin Solid Films, 2010, 518, 5955-5964.	1.8	29
100	Yttria totally stabilized zirconia nanoparticles obtained through the pyrosol method. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2499-2504.	1.8	4
101	Application of spark plasma sintering to processing of dense Ba(Ti $_{1-x}$ Sn $_x$)O $_3$ ($x=0.13$) ceramic. Journal of Alloys and Compounds, 2010, 505, 273-277.	5.5	12
102	<i>In Situ&i> Generation of Polyaniline inside Zeolite Pores for Retention of Ions and for Controlled Drug Delivery. Key Engineering Materials, 0, 583, 91-94.	0.4	2