

Cristian Andi Nicolae

List of Publications by Year in descending order

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83
papers

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citations

172386
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#	ARTICLE	IF	CITATIONS
1	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.	1.9	87
2	Bacterial Nanocellulose from Side-Streams of Kombucha Beverages Production: Preparation and Physical-Chemical Properties. <i>Polymers</i> , 2017, 9, 374.	2.0	86
3	Thermal properties of water-resistant starch " polyvinyl alcohol films modified with cellulose nanofibers. <i>Polymer Degradation and Stability</i> , 2015, 121, 385-397.	2.7	75
4	Micro- and nano-mechanical characterization of polyamide 11 and its composites containing cellulose nanofibers. <i>European Polymer Journal</i> , 2013, 49, 3857-3866.	2.6	67
5	Influence of hemp fibers with modified surface on polypropylene composites. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 137-146.	2.9	67
6	Plasticized poly(3-hydroxybutyrate) with improved melt processing and balanced properties. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	67
7	The effect of cellulose nanofibers on the crystallinity and nanostructure of poly(lactic acid) composites. <i>Journal of Materials Science</i> , 2016, 51, 9771-9791.	1.7	64
8	Influence of compatibilizing system on morphology, thermal and mechanical properties of high flow polypropylene reinforced with short hemp fibers. <i>Composites Part B: Engineering</i> , 2015, 69, 286-295.	5.9	59
9	Poly(3-hydroxybutyrate) Modified by Nanocellulose and Plasma Treatment for Packaging Applications. <i>Polymers</i> , 2018, 10, 1249.	2.0	59
10	Antireflective coating based on TiO ₂ nanoparticles modified with coupling agents via acid-catalyzed sol-gel method. <i>Applied Surface Science</i> , 2019, 487, 819-824.	3.1	51
11	Structural and morphological characterization of bacterial cellulose nano-reinforcements prepared by mechanical route. <i>Materials and Design</i> , 2016, 110, 790-801.	3.3	50
12	Thermal and mechanical properties of poly(3-hydroxybutyrate) reinforced with cellulose fibers from wood waste. <i>Industrial Crops and Products</i> , 2020, 145, 112071.	2.5	50
13	Optical and structural dynamical behavior of Crystal Violet Lactone " Phenolphthalein binary thermochromic systems. <i>Dyes and Pigments</i> , 2016, 134, 69-76.	2.0	47
14	Biocompatible polyhydroxyalkanoates/bacterial cellulose composites: Preparation, characterization, and <i>in vitro</i> evaluation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2576-2584.	2.1	46
15	Isolation of cellulose nanocrystals from plum seed shells, structural and morphological characterization. <i>Materials Letters</i> , 2017, 194, 160-163.	1.3	46
16	Bacterial cellulose sponges obtained with green cross-linkers for tissue engineering. <i>Materials Science and Engineering C</i> , 2020, 110, 110740.	3.8	46
17	Cellulose defibrillation and functionalization by plasma in liquid treatment. <i>Scientific Reports</i> , 2018, 8, 15473.	1.6	43
18	High flow polypropylene/SEBS composites reinforced with differently treated hemp fibers for injection molded parts. <i>Composites Part B: Engineering</i> , 2019, 174, 107062.	5.9	42

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19	Synthesis and properties of new epoxy-organolayered silicate nanocomposites. <i>Applied Clay Science</i> , 2015, 103, 28-33.	2.6	41
20	Medium Chain-Length Polyhydroxyalkanoate Copolymer Modified by Bacterial Cellulose for Medical Devices. <i>Biomacromolecules</i> , 2017, 18, 3222-3232.	2.6	39
21	Development of thermoplastic composites based on recycled polypropylene and waste printed circuit boards. <i>Waste Management</i> , 2020, 118, 391-401.	3.7	39
22	Adsorbents/ion exchangers-PVA blend membranes: Preparation, characterization and performance for the removal of Zn ²⁺ by electro dialysis. <i>Applied Surface Science</i> , 2015, 329, 65-75.	3.1	38
23	The influence of alkyl substituents of POSS in polyethylene nanocomposites. <i>Polymer</i> , 2013, 54, 2347-2354.	1.8	36
24	Effect of SEBS on morphology, thermal, and mechanical properties of PP/organoclay nanocomposites. <i>Polymer Bulletin</i> , 2012, 69, 1073-1091.	1.7	35
25	Morphological investigation of PP/nanosilica composites containing SEBS. <i>Polymer Testing</i> , 2012, 31, 355-365.	2.3	35
26	NOVEL PVA PROTON CONDUCTING MEMBRANES DOPED WITH POLYANILINE GENERATED BY IN-SITU POLYMERIZATION. <i>Electrochimica Acta</i> , 2016, 211, 911-917.	2.6	34
27	Thermal and mechanical behavior of biodegradable polyester films containing cellulose nanofibers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2387-2398.	2.0	34
28	Effect of hemp fiber length on the mechanical and thermal properties of polypropylene/SEBS/hemp fiber composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 10768-10781.	2.6	33
29	Surface Treatment of Bacterial Cellulose in Mild, Eco-Friendly Conditions. <i>Coatings</i> , 2018, 8, 221.	1.2	30
30	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.	2.4	29
31	Treatment of Nanocellulose by Submerged Liquid Plasma for Surface Functionalization. <i>Nanomaterials</i> , 2018, 8, 467.	1.9	29
32	The effect of poly[styrene-(ethylene-co-butylene)-styrene] on dielectric, thermal, and morphological characteristics of polypropylene/silica nanocomposites. <i>Polymer Engineering and Science</i> , 2013, 53, 2081-2092.	1.5	26
33	Molecularly imprinted copolymers as selective sorbents for gallic acid. <i>Journal of Applied Polymer Science</i> , 2013, 127, 366-374.	1.3	25
34	Aminopropyl-Silica Hybrid Particles as Supports for Humic Acids Immobilization. <i>Materials</i> , 2016, 9, 34.	1.3	25
35	Preparation and Characterization of Some Sol-Gel Modified Silica Coatings Deposited on Polyvinyl Chloride (PVC) Substrates. <i>Coatings</i> , 2021, 11, 11.	1.2	21
36	Morphological and Tribological Properties of PMMA/Halloysite Nanocomposites. <i>Polymers</i> , 2018, 10, 816.	2.0	20

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37	Synthesis and characterization of polymer-silica hybrid latexes and sol-gel-derived films. <i>Applied Surface Science</i> , 2016, 389, 666-672.	3.1	19
38	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.	1.3	18
39	The Soil Biodegradability of Structured Composites Based on Cellulose Cardboard and Blends of Polylactic Acid and Polyhydroxybutyrate. <i>Journal of Polymers and the Environment</i> , 2021, 29, 2310-2320.	2.4	18
40	Influence of melt processing induced orientation on the morphology and mechanical properties of poly(styrene-b-ethylene/butylene-b-styrene) block copolymers and their composites with graphite. <i>Materials & Design</i> , 2014, 64, 694-705.	5.1	17
41	Low Molecular Weight and Polymeric Modifiers as Toughening Agents in Poly(3-Hydroxybutyrate) Films. <i>Polymers</i> , 2020, 12, 2446.	2.0	17
42	Block Copolymer Elastomer with Graphite Filler: Effect of Processing Conditions and Silane Coupling Agent on the Composite Properties. <i>Polymers</i> , 2018, 10, 46.	2.0	15
43	Poly(3-hydroxybutyrate) Modified by Plasma and TEMPO-Oxidized Celluloses. <i>Polymers</i> , 2020, 12, 1510.	2.0	14
44	Nanocomposites from functionalized bacterial cellulose and poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymer Degradation and Stability</i> , 2020, 179, 109203.	2.7	14
45	Biocomposite foams based on polyhydroxyalkanoate and nanocellulose: Morphological and thermo-mechanical characterization. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 1867-1878.	3.6	13
46	A facile hydrothermal route for the synthesis of γ -FeOOH with controlled morphology. <i>Journal of Crystal Growth</i> , 2012, 348, 40-46.	0.7	12
47	Recycled polypropylene with improved thermal stability and melt processability. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2469-2480.	2.0	12
48	Bio-Based Polyamide 1010 with a Halogen-Free Flame Retardant Based on Melamine-Gallic Acid Complex. <i>Polymers</i> , 2020, 12, 1482.	2.0	11
49	Selecting the nature of imprinted molecular organosilica sieves with gallic acid via thermal analyses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 118, 1039-1048.	2.0	9
50	Molecularly imprinted poly(acrylonitrile-co-acrylic acid) matrix with sclareol. <i>Polymer Engineering and Science</i> , 2014, 54, 1484-1494.	1.5	9
51	Impact strength elastomer composites based on polystyrene components separated from waste electrical and electronic equipment. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48329.	1.3	8
52	The effect of polystyrene blocks content and of type of elastomer blocks on the properties of block copolymer/layered silicate nanocomposites. <i>Journal of Alloys and Compounds</i> , 2014, 616, 569-576.	2.8	7
53	Polymer-clay nanocomposites obtained by solution polymerization of vinyl benzyl triammonium chloride in the presence of advanced functionalized clay. <i>Journal of Chemical Sciences</i> , 2014, 126, 609-616.	0.7	7
54	Thermal analyses as tools for proving the molecular imprinting with diosgenin and sclareol in acrylic copolymer matrices. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 120, 1107-1118.	2.0	7

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55	Aqueous Dispersions of Silica Stabilized with Oleic Acid Obtained by Green Chemistry. <i>Nanomaterials</i> , 2016, 6, 9.	1.9	7
56	Poly(lactic acid)/Poly(3-hydroxybutyrate) Biocomposites with Differently Treated Cellulose Fibers. <i>Molecules</i> , 2022, 27, 2390.	1.7	7
57	Switching behavior of thermochromic copper and silver tetraiodomercurate embedded in silica hybrid materials. <i>Optical Materials</i> , 2013, 35, 2565-2572.	1.7	6
58	Microfibrillated Cellulose Grafted with Metacrylic Acid as a Modifier in Poly(3-hydroxybutyrate). <i>Polymers</i> , 2021, 13, 3970.	2.0	6
59	Influence of octyl substituted octakis(dimethylsiloxy)octasilsesquioxane on the morphology and thermal and mechanical properties of low density polyethylene. <i>Polymer International</i> , 2014, 63, 228-236.	1.6	5
60	Comparative Study on the Behavior of Virgin and Recycled Polyolefinsâ€“Cellulose Composites in Natural Environmental Conditions. <i>Journal of Composites Science</i> , 2019, 3, 60.	1.4	5
61	Influence of microfibrillated cellulose and soft biocomponent on the morphology and thermal properties of thermoplastic polyurethanes. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50951.	1.3	5
62	Effect of calcium stearate as a lubricant and catalyst on the thermal degradation of poly(3-hydroxybutyrate). <i>International Journal of Biological Macromolecules</i> , 2021, 190, 780-791.	3.6	5
63	Photophysical properties of some fluorescent materials containing 3-methoxy-7H-benzo[de]anthracen-7-one embedded in solâ€“gel silica hybrids. <i>Optical Materials</i> , 2015, 45, 55-63.	1.7	4
64	Molecularly Imprinted Bioâ€“Membranes Based on Cellulose Nanoâ€“Fibers for Drug Release and Selective Separations. <i>Macromolecular Symposia</i> , 2016, 359, 124-128.	0.4	4
65	Analytical Characterization and Potential Antimicrobial and Photocatalytic Applications of Metal-Substituted Hydroxyapatite Materials. <i>Analytical Letters</i> , 2019, 52, 2332-2347.	1.0	4
66	Influence of nonâ€“metallic fraction of printed circuit boards waste on recycled polyvinyl chloride from waste wires. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51469.	1.3	4
67	Effect of Modified Silica Materials on Polyvinyl Chloride (PVC) Substrates to Obtain Transparent and Hydrophobic Hybrid Coatings. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11044.	1.3	4
68	Optical Behavior of Curcuminoid Hybrid Systems as Coatings Deposited on Polyester Fibers. <i>Coatings</i> , 2022, 12, 271.	1.2	4
69	Modeling the Properties of Curcumin Derivatives in Relation to the Architecture of the Siloxane Host Matrices. <i>Materials</i> , 2022, 15, 267.	1.3	2
70	<title>Functionalized Si/SiO<formula><inf><roman>2</roman></inf></formula> quantum dots</title>. , 2007, , .		1
71	Influence of Dicyclopentadiene Co-Polymers on the Hardening Processes and Properties of Portland Cement Composites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 499-509.	1.9	1
72	Carbonaceous Nanostructures Obtained by Hydrothermal Conversion of Biomass. <i>Proceedings (mdpi)</i> , 2019, 29, 56.	0.2	1

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73	Polymeric Nanofibers Manufactured by Electrospinning of Styrene-Ethylene-Butylene-Styrene (SEBS) Composites. Proceedings (mdpi), 2019, 29, .	0.2	1
74	Synthesis of New Elastomers with Controlled Structures Based on Alkylene Oxides, Grafted by ROMP. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2007, , 347-353.	0.1	1
75	The Effect of SEBS/Halloysite Masterbatch Obtained in Different Extrusion Conditions on the Properties of Hybrid Polypropylene/Glass Fiber Composites for Auto Parts. Polymers, 2021, 13, 3560.	2.0	1
76	New Applications of Ring-Opening Metathesis Polymerization for Grafting Alkylene Oxide-Based Copolymers. NATO Science for Peace and Security Series A: Chemistry and Biology, 2010, , 409-416.	0.5	0
77	Polariscopic and interferometric measurements of the mechanical stress. Proceedings of SPIE, 2012, , .	0.8	0
78	Nanofibres Obtained by Electrospinning from Thermoplastic Elastomer and Graphene Composites. Proceedings (mdpi), 2019, 29, 12.	0.2	0
79	Composites Based on Waste Printed Circuit Boards (WPCB) and Waste Polypropylene. Proceedings (mdpi), 2019, 29, 15.	0.2	0
80	Composites of Styrene-Butadiene Block Copolymer Reinforced with Waste Printed Circuit Boards (WPCB). Proceedings (mdpi), 2019, 29, 19.	0.2	0
81	Biopolymeric-Hydrothermal Carbon Beads for Decontamination of Polluted Waters. Proceedings (mdpi), 2019, 29, 50.	0.2	0
82	Effect of Different POSS Structures on Thermal and Morphological Properties of a Biodegradable Polyester. Proceedings (mdpi), 2019, 29, .	0.2	0
83	Preparation and Characterization of Highly Porous Cellulosic Foams for Biomedical Applications. Proceedings (mdpi), 2019, 29, 8.	0.2	0