

Marius Murariu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

42 papers	3,820 citations	31 h-index	44 g-index
44 ext. papers	4,245 ext. citations	5 avg, IF	5.6 L-index

#	Paper	IF	Citations
42	Adding Value in Production of Multifunctional Polylactide (PLA)-ZnO Nanocomposite Films through Alternative Manufacturing Methods. <i>Molecules</i> , 2021 , 26,	4.8	5
41	Thermal degradation of poly(lactic acid)/zeolite composites produced by melt-blending. <i>Polymer Bulletin</i> , 2020 , 77, 2111-2137	2.4	7
40	The effect of halloysite nanotubes and N,N'-ethylenebis (stearamide) on the properties of polylactide nanocomposites with amorphous matrix. <i>Polymer Testing</i> , 2017 , 61, 35-45	4.5	12
39	Bionanocomposites based on PLA and halloysite nanotubes: From key properties to photooxidative degradation. <i>Polymer Degradation and Stability</i> , 2017 , 145, 60-69	4.7	35
38	The effect of halloysite nanotubes and N,N'-ethylenebis (stearamide) on morphology and properties of polylactide nanocomposites with crystalline matrix. <i>Polymer Testing</i> , 2017 , 64, 83-91	4.5	9
37	Effect of ultrafine talc on crystallization and end-use properties of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	12
36	Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)/Organomodified Montmorillonite Nanocomposites for Potential Food Packaging Applications. <i>Journal of Polymers and the Environment</i> , 2016 , 24, 104-118	4.5	26
35	PLA composites: From production to properties. <i>Advanced Drug Delivery Reviews</i> , 2016 , 107, 17-46	18.5	449
34	Tailoring Polylactide Properties for Automotive Applications: Effects of Co-Addition of Halloysite Nanotubes and Selected Plasticizer. <i>Macromolecular Materials and Engineering</i> , 2015 , 300, 684-698	3.9	49
33	Current progress in the production of PLA/ZnO nanocomposites: Beneficial effects of chain extender addition on key properties. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	44
32	Recent advances in production of poly(lactic acid) (PLA) nanocomposites: a versatile method to tune crystallization properties of PLA. <i>Nanocomposites</i> , 2015 , 1, 71-82	3.4	48
31	Key factors for tuning hydrolytic degradation of polylactide/zinc oxide nanocomposites. <i>Nanocomposites</i> , 2015 , 1, 51-61	3.4	39
30	Gas Permeability Properties of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). <i>Journal of Polymers and the Environment</i> , 2014 , 22, 501-507	4.5	25
29	Tailoring polylactide (PLA) properties for automotive applications: Effect of addition of designed additives on main mechanical properties. <i>Polymer Testing</i> , 2014 , 36, 1-9	4.5	73
28	Flame retarded poly(lactic acid) using POSS-modified cellulose. 2. Effects of intumescent flame retardant formulations on polymer degradation and composite physical properties. <i>Polymer Degradation and Stability</i> , 2014 , 106, 54-62	4.7	58
27	PLA/Halloysite Nanocomposite Films: Water Vapor Barrier Properties and Specific Key Characteristics. <i>Macromolecular Materials and Engineering</i> , 2014 , 299, 104-115	3.9	103
26	PLA-ZnO nanocomposite films: Water vapor barrier properties and specific end-use characteristics. <i>European Polymer Journal</i> , 2013 , 49, 3471-3482	5.2	176

25	Poly(lactide (PLA)-based nanocomposites. <i>Progress in Polymer Science</i> , 2013 , 38, 1504-1542	29.6	801
24	Poly(lactide (PLA)/halloysite Nanocomposites: Production, Morphology and Key-Properties. <i>Journal of Polymers and the Environment</i> , 2012 , 20, 932-943	4.5	75
23	Effect of ZnO nanofillers treated with triethoxy caprylsilane on the isothermal and non-isothermal crystallization of poly(lactic acid). <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 12301-8	3.6	38
22	Adhesion and micromechanical deformation processes in PLA/CaSO ₄ composites. <i>Carbohydrate Polymers</i> , 2012 , 89, 759-67	10.3	24
21	Photochemical behavior of poly(lactide)/ZnO nanocomposite films. <i>Biomacromolecules</i> , 2012 , 13, 3283-916.9		101
20	Towards high-performance biopackaging: barrier and mechanical properties of dual-action polycaprolactone/zinc oxide nanocomposites. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 1422-1428	3.2	21
19	Impact-modified poly(lactide)/calcium sulfate composites: Structure and properties. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 4302-4315	2.9	16
18	High-performance poly(lactide)/ZnO nanocomposites designed for films and fibers with special end-use properties. <i>Biomacromolecules</i> , 2011 , 12, 1762-71	6.9	199
17	Photooxidation of poly(lactide)/calcium sulphate composites. <i>Polymer Degradation and Stability</i> , 2011 , 96, 616-623	4.7	78
16	Effect of expanded graphite/layered-silicate clay on thermal, mechanical and fire retardant properties of poly(lactic acid). <i>Polymer Degradation and Stability</i> , 2010 , 95, 1063-1076	4.7	134
15	New trends in poly(lactide (PLA)-based materials: "Green" PLA/calcium sulfate (nano)composites tailored with flame retardant properties. <i>Polymer Degradation and Stability</i> , 2010 , 95, 374-381	4.7	133
14	The production and properties of poly(lactide) composites filled with expanded graphite. <i>Polymer Degradation and Stability</i> , 2010 , 95, 889-900	4.7	217
13	Plasticization of poly(lactide) with blends of tributyl citrate and low molecular weight poly(d,l-lactide)-b-poly(ethylene glycol) copolymers. <i>European Polymer Journal</i> , 2009 , 45, 2839-2848	5.2	131
12	Calcium Sulfate as High-Performance Filler for Poly(lactide (PLA) or How to Recycle Gypsum as By-product of Lactic Acid Fermentation Process. <i>Composite Interfaces</i> , 2009 , 16, 65-84	2.3	7
11	Factors affecting the properties of PLA/CaSO ₄ composites: homogeneity and interactions. <i>EXPRESS Polymer Letters</i> , 2009 , 3, 49-61	3.4	37
10	Effect of filler content and size on transport properties of water vapor in PLA/calcium sulfate composites. <i>Biomacromolecules</i> , 2008 , 9, 984-90	6.9	49
9	Poly(lactide (PLA) and Highly Filled PLA - Calcium Sulfate Composites with Improved Impact Properties. <i>Macromolecular Symposia</i> , 2008 , 272, 1-12	0.8	34
8	Poly(lactide (PLA) designed with desired end-use properties: 1. PLA compositions with low molecular weight ester-like plasticizers and related performances. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 636-646	3.2	128

7	Designing polylactide/clay nanocomposites for textile applications: Effect of processing conditions, spinning, and characterization. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 841-851	2.9	69
6	Polylactide compositions. The influence of ageing on the structure, thermal and viscoelastic properties of PLA/calcium sulfate composites. <i>Polymer Degradation and Stability</i> , 2008 , 93, 925-931	4.7	45
5	Polylactide (PLA)/CaSO ₄ composites toughened with low molecular weight and polymeric ester-like plasticizers and related performances. <i>European Polymer Journal</i> , 2008 , 44, 3842-3852	5.2	80
4	Polylactide compositions. II. Correlation between morphology and main properties of PLA/calcium sulfate composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 2770-2780	2.6	35
3	(Plasticized) Polylactide/clay nanocomposite textile: thermal, mechanical, shrinkage and fire properties. <i>Journal of Materials Science</i> , 2007 , 42, 5105-5117	4.3	82
2	Polylactide compositions. Part 1: Effect of filler content and size on mechanical properties of PLA/calcium sulfate composites. <i>Polymer</i> , 2007 , 48, 2613-2618	3.9	78
1	Optical Probes for Monitoring Intercalation and Exfoliation in Melt-Processed Polymer Nanocomposites. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 788-792	4.8	34