# Marius Murariu

## List of Publications by Citations

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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.

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|---|---|---|---|
| 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 | Polylactide (PLA)-based nanocomposites. *Progress in Polymer Science*, **2013**, 38, 1504-1542 | 29.6 | 801 |
| 41 | PLA composites: From production to properties. *Advanced Drug Delivery Reviews*, **2016**, 107, 17-46 | 18.5 | 449 |
| 40 | The production and properties of polylactide composites filled with expanded graphite. *Polymer Degradation and Stability*, **2010**, 95, 889-900 | 4.7 | 217 |
| 39 | High-performance polylactide/ZnO nanocomposites designed for films and fibers with special end-use properties. *Biomacromolecules*, **2011**, 12, 1762-71 | 6.9 | 199 |
| 38 | PLA-ZnO nanocomposite films: Water vapor barrier properties and specific end-use characteristics. *European Polymer Journal*, **2013**, 49, 3471-3482 | 5.2 | 176 |
| 37 | Effect of expanded graphite/layered-silicate clay on thermal, mechanical and fire retardant properties of poly(lactic acid). *Polymer Degradation and Stability*, **2010**, 95, 1063-1076 | 4.7 | 134 |
| 36 | New trends in polylactide (PLA)-based materials: □reen□PLA□alcium sulfate (nano)composites tailored with flame retardant properties. *Polymer Degradation and Stability*, **2010**, 95, 374-381 | 4.7 | 133 |
| 35 | Plasticization of poly(lactide) with blends of tributyl citrate and low molecular weight poly(d,l-lactide)-b-poly(ethylene glycol) copolymers. *European Polymer Journal*, **2009**, 45, 2839-2848 | 5.2 | 131 |
| 34 | Polylactide (PLA) designed with desired end-use properties: 1. PLA compositions with low molecular weight ester-like plasticizers and related performances. *Polymers for Advanced Technologies*, **2008**, 19, 636-646 | 3.2 | 128 |
| 33 | PLA/Halloysite Nanocomposite Films: Water Vapor Barrier Properties and Specific Key Characteristics. *Macromolecular Materials and Engineering*, **2014**, 299, 104-115 | 3.9 | 103 |
| 32 | Photochemical behavior of polylactide/ZnO nanocomposite films. *Biomacromolecules*, **2012**, 13, 3283-91 | 6.9 | 101 |
| 31 | (Plasticized) Polylactide/clay nanocomposite textile: thermal, mechanical, shrinkage and fire properties. *Journal of Materials Science*, **2007**, 42, 5105-5117 | 4.3 | 82 |
| 30 | Polylactide (PLA)□aSO4 composites toughened with low molecular weight and polymeric ester-like plasticizers and related performances. *European Polymer Journal*, **2008**, 44, 3842-3852 | 5.2 | 80 |
| 29 | Photooxidation of polylactide/calcium sulphate composites. *Polymer Degradation and Stability*, **2011**, 96, 616-623 | 4.7 | 78 |
| 28 | Polylactide compositions. Part 1: Effect of filler content and size on mechanical properties of PLA/calcium sulfate composites. *Polymer*, **2007**, 48, 2613-2618 | 3.9 | 78 |
| 27 | Polylactide (PLA)□alloysite Nanocomposites: Production, Morphology and Key-Properties. *Journal of Polymers and the Environment*, **2012**, 20, 932-943 | 4.5 | 75 |
| 26 | Tailoring polylactide (PLA) properties for automotive applications: Effect of addition of designed additives on main mechanical properties. *Polymer Testing*, **2014**, 36, 1-9 | 4.5 | 73 |

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| 25 | Designing polylactide/clay nanocomposites for textile applications: Effect of processing conditions, spinning, and characterization. *Journal of Applied Polymer Science*, **2008**, 109, 841-851 | 2.9 | 69 |
| 24 | Flame retarded poly(lactic acid) using POSS-modified cellulose. 2. Effects of intumescing flame retardant formulations on polymer degradation and composite physical properties. *Polymer Degradation and Stability*, **2014**, 106, 54-62 | 4.7 | 58 |
| 23 | Tailoring Polylactide Properties for Automotive Applications: Effects of Co-Addition of Halloysite Nanotubes and Selected Plasticizer. *Macromolecular Materials and Engineering*, **2015**, 300, 684-698 | 3.9 | 49 |
| 22 | Effect of filler content and size on transport properties of water vapor in PLA/calcium sulfate composites. *Biomacromolecules*, **2008**, 9, 984-90 | 6.9 | 49 |
| 21 | Recent advances in production of poly(lactic acid) (PLA) nanocomposites: a versatile method to tune crystallization properties of PLA. *Nanocomposites*, **2015**, 1, 71-82 | 3.4 | 48 |
| 20 | Polylactide compositions. The influence of ageing on the structure, thermal and viscoelastic properties of PLA/calcium sulfate composites. *Polymer Degradation and Stability*, **2008**, 93, 925-931 | 4.7 | 45 |
| 19 | Current progress in the production of PLA/ZnO nanocomposites: Beneficial effects of chain extender addition on key properties. *Journal of Applied Polymer Science*, **2015**, 132, n/a-n/a | 2.9 | 44 |
| 18 | Key factors for tuning hydrolytic degradation of polylactide/zinc oxide nanocomposites. *Nanocomposites*, **2015**, 1, 51-61 | 3.4 | 39 |
| 17 | Effect of ZnO nanofillers treated with triethoxy caprylylsilane on the isothermal and non-isothermal crystallization of poly(lactic acid). *Physical Chemistry Chemical Physics*, **2012**, 14, 12301-8 | 3.6 | 38 |
| 16 | Factors affecting the properties of PLA/CaSO4 composites: homogeneity and interactions. *EXPRESS Polymer Letters*, **2009**, 3, 49-61 | 3.4 | 37 |
| 15 | Bionanocomposites based on PLA and halloysite nanotubes: From key properties to photooxidative degradation. *Polymer Degradation and Stability*, **2017**, 145, 60-69 | 4.7 | 35 |
| 14 | Polylactide compositions. II. Correlation between morphology and main properties of PLA/calcium sulfate composites. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 2770-2780 | 2.6 | 35 |
| 13 | Polylactide (PLA) and Highly Filled PLA - Calcium Sulfate Composites with Improved Impact Properties. *Macromolecular Symposia*, **2008**, 272, 1-12 | 0.8 | 34 |
| 12 | Optical Probes for Monitoring Intercalation and Exfoliation in Melt-Processed Polymer Nanocomposites. *Macromolecular Rapid Communications*, **2004**, 25, 788-792 | 4.8 | 34 |
| 11 | Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate)/Organomodified Montmorillonite Nanocomposites for Potential Food Packaging Applications. *Journal of Polymers and the Environment*, **2016**, 24, 104-118 | 4.5 | 26 |
| 10 | Gas Permeability Properties of Poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). *Journal of Polymers and the Environment*, **2014**, 22, 501-507 | 4.5 | 25 |
| 9 | Adhesion and micromechanical deformation processes in PLA/CaSO4 composites. *Carbohydrate Polymers*, **2012**, 89, 759-67 | 10.3 | 24 |
| 8 | Towards high-performance biopackaging: barrier and mechanical properties of dual-action polycaprolactone/zinc oxide nanocomposites. *Polymers for Advanced Technologies*, **2012**, 23, 1422-1428 | 3.2 | 21 |

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| 7 | Impact-modified polylactide□calcium sulfate composites: Structure and properties. *Journal of Applied Polymer Science*, **2012**, 125, 4302-4315 | 2.9 | 16 |
| 6 | The effect of halloysite nanotubes and N,N'- ethylenebis (stearamide) on the properties of polylactide nanocomposites with amorphous matrix. *Polymer Testing*, **2017**, 61, 35-45 | 4.5 | 12 |
| 5 | Effect of ultrafine talc on crystallization and end-use properties of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate). *Journal of Applied Polymer Science*, **2016**, 133, | 2.9 | 12 |
| 4 | The effect of halloysite nanotubes and N,N?-ethylenebis (stearamide) on morphology and properties of polylactide nanocomposites with crystalline matrix. *Polymer Testing*, **2017**, 64, 83-91 | 4.5 | 9 |
| 3 | Calcium Sulfate as High-Performance Filler for Polylactide (PLA) or How to Recycle Gypsum as By-product of Lactic Acid Fermentation Process. *Composite Interfaces*, **2009**, 16, 65-84 | 2.3 | 7 |
| 2 | Thermal degradation of poly(lactic acid)□eolite composites produced by melt-blending. *Polymer Bulletin*, **2020**, 77, 2111-2137 | 2.4 | 7 |
| 1 | Adding Value in Production of Multifunctional Polylactide (PLA)-ZnO Nanocomposite Films through Alternative Manufacturing Methods. *Molecules*, **2021**, 26, | 4.8 | 5 |