

Paola Rizzarelli

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,349
citations

361413

20
h-index

345221

36
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44
all docs

44
docs citations

44
times ranked

1489
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil burial and enzymatic degradation in solution of aliphatic co-polyesters. <i>Polymer Degradation and Stability</i> , 2004, 85, 855-863.	5.8	112
2	Thermal degradation of poly(ethylene oxide- <i>co</i> -propylene oxide- <i>co</i> -ethylene oxide) triblock copolymer: comparative study by SEC/NMR, SEC/MALDI-TOF-MS and SPME/GC-MS. <i>Polymer</i> , 2002, 43, 1081-1094.	3.8	95
3	Preparation, characterization and biodegradation of biopolymer nanocomposites based on fumed silica. <i>European Polymer Journal</i> , 2011, 47, 139-152.	5.4	93
4	Synthesis and enzymatic degradation of aliphatic copolyesters. <i>Polymer Degradation and Stability</i> , 2000, 70, 305-314.	5.8	84
5	Evidence for Selective Hydrolysis of Aliphatic Copolyesters Induced by Lipase Catalysis. <i>Biomacromolecules</i> , 2004, 5, 433-444.	5.4	73
6	Biodegradation trend of poly(ϵ -caprolactone) and nanocomposites. <i>Materials Science and Engineering C</i> , 2010, 30, 566-574.	7.3	73
7	Modern mass spectrometry in the characterization and degradation of biodegradable polymers. <i>Analytica Chimica Acta</i> , 2014, 808, 18-43.	5.4	73
8	Thermo-oxidative processes in biodegradable poly(butylene succinate). <i>Polymer Degradation and Stability</i> , 2009, 94, 1825-1838.	5.8	54
9	MALDI Investigation of Photooxidation in Aliphatic Polyesters: ϵ -Poly(butylene succinate). <i>Macromolecules</i> , 2004, 37, 6576-6586.	4.8	49
10	Matrix-assisted laser desorption/ionization time-of-flight/time-of-flight tandem mass spectra of poly(butylene adipate). <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1683-1694.	1.5	47
11	Determination of polyethylene in biodegradable polymer blends and in compostable carrier bags by Py-GC/MS and TGA. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 117, 72-81.	5.5	45
12	Comparative Investigation on the Soil Burial Degradation Behaviour of Polymer Films for Agriculture before and after Photo-Oxidation. <i>Polymers</i> , 2020, 12, 753.	4.5	43
13	Comparative investigation of photo- and thermal-oxidation processes in poly(butylene terephthalate). <i>Polymer</i> , 2008, 49, 3371-3381.	3.8	38
14	Concentration-dependent anti-/pro-oxidant activity of natural phenolic compounds in bio-polyesters. <i>Polymer Degradation and Stability</i> , 2017, 142, 21-28.	5.8	37
15	Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry with size-exclusion chromatographic fractionation for structural characterization of synthetic aliphatic copolyesters. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 804-814.	1.5	36
16	Matrix-assisted laser desorption/ionisation time-of-flight characterisation of biodegradable aliphatic copolyesters. <i>Rapid Communications in Mass Spectrometry</i> , 2000, 14, 1513-1522.	1.5	35
17	Sequence determination in aliphatic poly(ester amide)s by matrix-assisted laser desorption/ionization time-of-flight and time-of-flight/time-of-flight tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2005, 19, 2407-2418.	1.5	34
18	Nutritional changes during storage in fresh-cut long storage tomato as affected by biocompostable polylactide and cellulose based packaging. <i>LWT - Food Science and Technology</i> , 2019, 101, 618-624.	5.2	32

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19	Testing a fluorinated compound as a protective material for calcarenite. <i>Journal of Cultural Heritage</i> , 2001, 2, 55-62.	3.3	31
20	Aliphatic poly(ester amide)s from sebacic acid and aminoalcohols of different chain length: Synthesis, characterization and soil burial degradation. <i>Polymer Degradation and Stability</i> , 2015, 121, 90-99.	5.8	23
21	Strength, fracture and compression properties of gelatins by a new 3D printed tool. <i>Journal of Food Engineering</i> , 2018, 220, 38-48.	5.2	21
22	Structural characterization of synthetic poly(ester amide) from sebacic acid and 4-aminobutanol by matrix-assisted laser desorption ionization time-of-flight/time-of-flight tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 739-754.	1.5	20
23	Functionalization of aliphatic polyesters by nitroxide radical coupling. <i>Polymer Chemistry</i> , 2014, 5, 5656.	3.9	20
24	Influence of photo-oxidation on the performance and soil degradation of oxo- and biodegradable polymer-based items for agricultural applications. <i>Polymer Degradation and Stability</i> , 2021, 188, 109578.	5.8	20
25	Direct Electrospray Ionization Mass Spectrometry Quantitative Analysis of Sebacic and Terephthalic Acids in Biodegradable Polymers. <i>Analytical Chemistry</i> , 2011, 83, 654-660.	6.5	17
26	Effect of different anti-browning agents on quality of minimally processed early potatoes packaged on a compostable film. <i>LWT - Food Science and Technology</i> , 2017, 85, 434-439.	5.2	17
27	Photo-Oxidative and Soil Burial Degradation of Irrigation Tubes Based on Biodegradable Polymer Blends. <i>Polymers</i> , 2019, 11, 1489.	4.5	17
28	Compostable Polylactide and Cellulose Based Packaging for Fresh-Cut Cherry Tomatoes: Performance Evaluation and Influence of Sterilization Treatment. <i>Materials</i> , 2020, 13, 3432.	2.9	16
29	Preparation of poly(glycolide-co-lactide)s through a green process: Analysis of structural, thermal, and barrier properties. <i>Reactive and Functional Polymers</i> , 2016, 109, 70-78.	4.1	14
30	Quality aspects of fresh-cut long-storage tomato™ as affected by package, calcium chloride and storage time. <i>International Journal of Food Science and Technology</i> , 2018, 53, 819-827.	2.7	12
31	Mass spectrometry in bioresorbable polymer development, degradation and drug release tracking. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8697.	1.5	12
32	Matrix-assisted laser desorption ionization time-of-flight/time-of-flight tandem mass spectra of biodegradable polybutylenesuccinate. <i>Rapid Communications in Mass Spectrometry</i> , 2013, 27, 2213-2225.	1.5	11
33	Characterization and laser-induced degradation of a medical grade polylactide. <i>Polymer Degradation and Stability</i> , 2019, 169, 108991.	5.8	11
34	Fluorinated Phosphoric Ester-Based Protective Material for Limestone-Made Ancient Monuments, Buildings, and Artifacts: An X-ray Photoelectron Spectroscopy Study. <i>Applied Spectroscopy</i> , 2000, 54, 1817-1823.	2.2	8
35	A Snapshot of Thermo-Oxidative Degradation Products in Poly(bisphenol A carbonate) by Electrospray Ionization Mass Spectrometry and Matrix-Assisted Laser Desorption Ionization Time of Flight Mass Spectrometry. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 2648-2666.	2.2	7
36	Influence of Calcium Carbonate Nanoparticles on the Soil Burial Degradation of Polybutyleneadipate-Co-Butyleneterephthalate Films. <i>Nanomaterials</i> , 2022, 12, 2275.	4.1	5

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37	Controlled and sustained release of a corticosteroid drug from block copolymers synthesized by ATRP. <i>Polymer Engineering and Science</i> , 2017, 57, 570-578.	3.1	3
38	Sequencing Biodegradable and Potentially Biobased Polyesteramide of Sebacic Acid and 3-Amino-1-propanol by MALDI TOF-TOF Tandem Mass Spectrometry. <i>Polymers</i> , 2022, 14, 1500.	4.5	3
39	Analytical methods in resorbable polymer development and degradation tracking. , 2019, , 351-408.		2
40	Extraction and characterisation of bioactive proteins from <i>Pongamia pinnata</i> and their conversion into bioproducts for food packaging applications. <i>Journal of Bioactive and Compatible Polymers</i> , 2021, 36, 365-379.	2.1	1
41	Controlled release of cortisone drugs from block copolymers synthesized by ATRP. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0