

Valentina Siracusa

List of Publications by Citations

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79
papers

3,636
citations

29
h-index

59
g-index

83
ext. papers

4,306
ext. citations

4.9
avg, IF

6.08
L-index

#	Paper	IF	Citations
79	Biodegradable polymers for food packaging: a review. <i>Trends in Food Science and Technology</i> , 2008 , 19, 634-643	15.3	1233
78	Food Packaging Permeability Behaviour: A Report. <i>International Journal of Polymer Science</i> , 2012 , 2012, 1-11	2.4	275
77	Energy and environmental assessment of industrial hemp for building applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2015 , 51, 29-42	16.2	119
76	Bio-Polyethylene (Bio-PE), Bio-Polypropylene (Bio-PP) and Bio-Poly(ethylene terephthalate) (Bio-PET): Recent Developments in Bio-Based Polymers Analogous to Petroleum-Derived Ones for Packaging and Engineering Applications. <i>Polymers</i> , 2020 , 12,	4.5	113
75	Poly(butylene succinate) and poly(butylene succinate-co-adipate) for food packaging applications: Gas barrier properties after stressed treatments. <i>Polymer Degradation and Stability</i> , 2015 , 119, 35-45	4.7	99
74	Poly(lactic acid)-modified films for food packaging application: Physical, mechanical, and barrier behavior. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E390-E401	2.9	87
73	Environmental assessment of a multilayer polymer bag for food packaging and preservation: An LCA approach. <i>Food Research International</i> , 2014 , 62, 151-161	7	86
72	Microbial Degradation of Synthetic Biopolymers Waste. <i>Polymers</i> , 2019 , 11,	4.5	82
71	Poly(lactic acid) trays for fresh-food packaging: A Carbon Footprint assessment. <i>Science of the Total Environment</i> , 2015 , 537, 385-98	10.2	65
70	Novel fully biobased poly(butylene 2,5-furanoate/diglycolate) copolymers containing ether linkages: Structure-property relationships. <i>European Polymer Journal</i> , 2016 , 81, 397-412	5.2	61
69	The potential roles of bio-economy in the transition to equitable, sustainable, post fossil-carbon societies: Findings from this virtual special issue. <i>Journal of Cleaner Production</i> , 2018 , 204, 471-488	10.3	61
68	Recycled-PET fibre based panels for building thermal insulation: environmental impact and improvement potential assessment for a greener production. <i>Science of the Total Environment</i> , 2014 , 493, 914-29	10.2	55
67	Characterization of Composite Edible Films Based on Pectin/Alginate/Whey Protein Concentrate. <i>Materials</i> , 2019 , 12,	3.5	53
66	An attributional Life Cycle Assessment application experience to highlight environmental hotspots in the production of foamy poly(lactic acid) trays for fresh-food packaging usage. <i>Journal of Cleaner Production</i> , 2017 , 150, 93-103	10.3	48
65	Agricultural and forest biomass for food, materials and energy: bio-economy as the cornerstone to cleaner production and more sustainable consumption patterns for accelerating the transition towards equitable, sustainable, post fossil-carbon societies. <i>Journal of Cleaner Production</i> , 2016 , 117, 1-6	10.3	47
64	Characterization of Active Edible Films based on Citral Essential Oil, Alginate and Pectin. <i>Materials</i> , 2018 , 11,	3.5	46
63	Surface properties of methacrylic copolymers containing a perfluoropolyether structure. <i>Polymer</i> , 2001 , 42, 2299-2305	3.9	45

62	Poly(propylene 2,5-thiophenedicarboxylate) vs. Poly(propylene 2,5-furandicarboxylate): Two Examples of High Gas Barrier Bio-Based Polyesters. <i>Polymers</i> , 2018 , 10,	4-5	43
61	Kinetic study of the thermal and thermo-oxidative degradations of polylactide-modified films for food packaging. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 112, 1171-1177	4-1	43
60	Foamy polystyrene trays for fresh-meat packaging: Life-cycle inventory data collection and environmental impact assessment. <i>Food Research International</i> , 2015 , 76, 418-426	7	41
59	Poly(Neopentyl Glycol Furanoate): A Member of the Furan-Based Polyester Family with Smart Barrier Performances for Sustainable Food Packaging Applications. <i>Materials</i> , 2017 , 10,	3-5	41
58	Novel Random PBS-Based Copolymers Containing Aliphatic Side Chains for Sustainable Flexible Food Packaging. <i>Polymers</i> , 2017 , 9,	4-5	40
57	Biodegradable Long Chain Aliphatic Polyesters Containing Ether-Linkages: Synthesis, Solid-State, and Barrier Properties. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 10965-10973	3-9	39
56	Novel biodegradable aliphatic copolyesters based on poly(butylene succinate) containing thioether-linkages for sustainable food packaging applications. <i>Polymer Degradation and Stability</i> , 2016 , 132, 191-201	4-7	38
55	Biodegradable aliphatic copolyesters containing PEG-like sequences for sustainable food packaging applications. <i>Polymer Degradation and Stability</i> , 2014 , 105, 96-106	4-7	37
54	PLLA-PHB fiber membranes obtained by solvent-free electrospinning for short-time drug delivery. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 291-302	6.2	37
53	Fully Biobased Superpolymers of 2,5-Furandicarboxylic Acid with Different Functional Properties: From Rigid to Flexible, High Performant Packaging Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9558-9568	8.3	33
52	Fully Aliphatic Copolyesters Based on Poly(butylene 1,4-cyclohexanedicarboxylate) with Promising Mechanical and Barrier Properties for Food Packaging Applications. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 12876-12886	3.9	30
51	Characterization and properties of polyethersulfone/ modified cellulose nanocrystals nanocomposite membranes. <i>Polymer Testing</i> , 2019 , 76, 333-339	4.5	29
50	Life-Cycle Assessment in the Polymeric Sector: A Comprehensive Review of Application Experiences on the Italian Scale. <i>Polymers</i> , 2020 , 12,	4.5	27
49	Design of biobased PLLA triblock copolymers for sustainable food packaging: Thermo-mechanical properties, gas barrier ability and compostability. <i>European Polymer Journal</i> , 2017 , 95, 289-303	5.2	27
48	Gas permeability and thermal behavior of polypropylene films used for packaging minimally processed fresh-cut potatoes: a case study. <i>Journal of Food Science</i> , 2012 , 77, E264-72	3.4	26
47	High-resolution X-ray photoelectron spectroscopy of crystalline and amorphous poly(ethylene terephthalate): a study of biaxially oriented film, spin cast film and polymer melt. <i>Polymer</i> , 1996 , 37, 379-385	3.9	25
46	Gas permeability, mechanical behaviour and compostability of fully-aliphatic bio-based multiblock poly(ester urethane)s. <i>RSC Advances</i> , 2016 , 6, 55331-55342	3.7	24
45	Poly(butylene 2,5-thiophenedicarboxylate): An Added Value to the Class of High Gas Barrier Biopolyesters. <i>Polymers</i> , 2018 , 10,	4.5	24

44	Evidence of a 2D-Ordered Structure in Biobased Poly(pentamethylene furanoate) Responsible for Its Outstanding Barrier and Mechanical Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17863-17871	8.3	23
43	Biodegradation and ecotoxicological impact of cellulose nanocomposites in municipal solid waste composting. <i>International Journal of Biological Macromolecules</i> , 2018 , 111, 264-270	7.9	22
42	Sulphur-containing polymers: Synthesis and thermal properties of novel polyesters based on dithiotriethylene glycol. <i>European Polymer Journal</i> , 2006 , 42, 3374-3382	5.2	22
41	Gas transport and characterization of poly(3 hydroxybutyrate) films. <i>European Polymer Journal</i> , 2017 , 91, 149-161	5.2	20
40	New fully bio-based PLLA triblock copoly(ester urethane)s as potential candidates for soft tissue engineering. <i>Polymer Degradation and Stability</i> , 2016 , 132, 169-180	4.7	20
39	Block Copolyesters Containing 2,5-Furan and -1,4-Cyclohexane Subunits with Outstanding Gas Barrier Properties. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	19
38	Design of fully aliphatic multiblock poly(ester urethane)s displaying thermoplastic elastomeric properties. <i>Polymer</i> , 2016 , 83, 154-161	3.9	19
37	Gas Transport Phenomena and Polymer Dynamics in PHB/PLA Blend Films as Potential Packaging Materials. <i>Polymers</i> , 2020 , 12,	4.5	18
36	Correlation amongst gas barrier behaviour, temperature and thickness in BOPP films for food packaging usage: A lab-scale testing experience. <i>Polymer Testing</i> , 2017 , 59, 277-289	4.5	17
35	Tailoring poly(butylene 2,5-thiophenedicarboxylate) features by the introduction of adipic acid co-units: Biobased and biodegradable aliphatic/aromatic polyesters. <i>Polymer</i> , 2018 , 145, 11-20	3.9	17
34	Novel ethero atoms containing polyesters based on 2,6-naphthalendicarboxylic acid: A comparative study with poly(butylene naphthalate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1694-1703 ¹⁷	2.6	17
33	Effect of different new packaging materials on biscuit quality during accelerated storage. <i>Journal of the Science of Food and Agriculture</i> , 2015 , 95, 1736-46	4.3	16
32	MAP storage of shell hen eggs, Part 1: Effect on physico-chemical characteristics of the fresh product. <i>LWT - Food Science and Technology</i> , 2009 , 42, 758-762	5.4	15
31	Effect of molecular architecture and chemical structure on solid-state and barrier properties of heteroatom-containing aliphatic polyesters. <i>European Polymer Journal</i> , 2016 , 78, 314-325	5.2	15
30	Performance of Poly(lactic acid) Surface Modified Films for Food Packaging Application. <i>Materials</i> , 2017 , 10,	3.5	14
29	Life Cycle Assessment of multilayer polymer film used on food packaging field. <i>Procedia Food Science</i> , 2011 , 1, 235-239		13
28	Synthesis and Characterization of New Ortho-Acetyl or Ortho-bis- p -aminophenoxy Phosphonate Monomers. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2002 , 177, 2561-2569	1	13
27	Barrier Properties of Poly(Propylene Cyclohexanedicarboxylate) Random Eco-Friendly Copolyesters. <i>Polymers</i> , 2018 , 10,	4.5	12

26	Ordered structures of poly(butylene 2,5-thiophenedicarboxylate) and their impact on material functional properties. <i>European Polymer Journal</i> , 2018 , 106, 284-290	5.2	11
25	Melting behavior and crystallization kinetics of sulfonated poly(butylene isophthalate). <i>Polymer Engineering and Science</i> , 2002 , 42, 1590-1599	2.3	11
24	Synthesis and thermal characterization of poly(butylene terephthalate-co-thiodiethylene terephthalate) copolyesters. <i>Polymer</i> , 2002 , 43, 4355-4363	3.9	11
23	Decontamination of Food Packages from SARS-CoV-2 RNA with a Cold Plasma-Assisted System. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4177	2.6	11
22	Bactericidal kinetics and postantibiotic effect of sparfloxacin against selected species of respiratory pathogens. <i>Journal of Chemotherapy</i> , 1995 , 7, 530-4	2.3	8
21	Accountability and Police Violence: a Research on Accounts to Cope with Excessive Use of Force in Italy. <i>Journal of Police and Criminal Psychology</i> , 2017 , 32, 172-183	1.3	7
20	How Stress Treatments Influence the Performance of Biodegradable Poly(Butylene Succinate)-Based Copolymers with Thioether Linkages for Food Packaging Applications. <i>Materials</i> , 2017 , 10,	3.5	7
19	Cocrystallization phenomena in novel poly(diethylene terephthalate-co-thiodiethylene terephthalate) copolyesters. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 1562-1571	2.6	7
18	State-of-Art of Standard and Innovative Materials Used in Cranioplasty. <i>Polymers</i> , 2021 , 13,	4.5	7
17	Melting behavior, crystallization kinetics, and crystal structure of poly(2-hydroxyethoxybenzoate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002 , 40, 1354-1362	2.6	6
16	Sulfur-containing polymers: Effect of composition on melting behavior and crystallization kinetics of poly(butylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2003 , 90, 2003-2009	2.9	6
15	Poly(dithiotriethylene adipate): Melting behavior, crystallization kinetics and morphology. <i>European Polymer Journal</i> , 2005 , 41, 1909-1918	5.2	5
14	Molecular mechanisms of resistance in <i>Pseudomonas aeruginosa</i> to fluoroquinolones. <i>International Journal of Antimicrobial Agents</i> , 2000 , 14, 151-6	14.3	5
13	Novel Random Copolymers of Poly(butylene 1,4-cyclohexane dicarboxylate) with Outstanding Barrier Properties for Green and Sustainable Packaging: Content and Length of Aliphatic Side Chains as Efficient Tools to Tailor the Material's Final Performance. <i>Polymers</i> , 2018 , 10,	4.5	5
12	Poly(butylene 2,4-furanoate), an Added Member to the Class of Smart Furan-Based Polyesters for Sustainable Packaging: Structural Isomerism as a Key to Tune the Final Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 11937-11949	8.3	5
11	Gas Barrier and Thermal Behavior of Long Chain Aliphatic Polyesters after Stressed Treatments. <i>Polymer-Plastics Technology and Engineering</i> , 2017 , 56, 71-82		4
10	Poly(ether sulphone) copolymers with novel reactive chain-ends. <i>Polymer</i> , 2000 , 41, 2001-2008	3.9	4
9	X-ray photoelectron spectroscopic study of poly[4,4'-isopropylidenebis(1,4-phenyleneoxyethylene) diacrylate] photocured in the presence of a fluorine containing monomer. <i>Macromolecular Rapid Communications</i> , 1995 , 16, 807-812	4.8	4

8	The Use of Thermal Techniques in the Characterization of Bio-Sourced Polymers. <i>Materials</i> , 2021 , 14,	3.5	4
7	Synthesis and thermal properties of randomly branched poly(butylene isophthalate) containing sodium sulfonate groups. <i>Journal of Applied Polymer Science</i> , 2006 , 99, 1374-1379	2.9	3
6	Melting behavior, crystallization kinetics and morphology of random copolyesters of poly(2-hydroxyethoxybenzoate) with ϵ -caprolactone. <i>Polymer Engineering and Science</i> , 2002 , 42, 2137-2145	2.3	3
5	Socio-Economic Requirements as a Fundament of Innovation in Food Packaging. <i>Journal of Entrepreneurship, Management and Innovation</i> , 2019 , 15, 231-256	2	2
4	Poly(Alkylene 2,5-Thiophenedicarboxylate) Polyesters: A New Class of Bio-Based High-Performance Polymers for Sustainable Packaging. <i>Polymers</i> , 2021 , 13,	4.5	2
3	Effect of Glycero-(9,10-trioxolane)-trialeate on the Physicochemical Properties of Non-Woven Polylactic Acid Fiber Materials. <i>Polymers</i> , 2021 , 13,	4.5	1
2	Employing Cellulose Nanofiber-Based Hydrogels for Burn Dressing.. <i>Polymers</i> , 2022 , 14,	4.5	1
1	Cryo-Structuring of Polymeric Systems. Poly(Vinyl Alcohol)-Based Cryogels Loaded with the Poly(3-hydroxybutyrate) Microbeads and the Evaluation of Such Composites as the Delivery Vehicles for Simvastatin. <i>Polymers</i> , 2022 , 14, 2196	4.5	