

ValÃ©rie Langlois

List of Publications by Year in descending order

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67
papers

1,706
citations

236612

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315357

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docs citations

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times ranked

1806
citing authors

#	ARTICLE	IF	CITATIONS
1	Biocomposite scaffolds based on electrospun poly(3-hydroxybutyrate) nanofibers and electrospayed hydroxyapatite nanoparticles for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2014, 38, 161-169.	3.8	116
2	Hydrolytic degradation of blends of polyhydroxyalkanoates and functionalized polyhydroxyalkanoates. <i>Polymer Degradation and Stability</i> , 2004, 85, 779-787.	2.7	81
3	Bacterial poly-3-hydroxyalkanoates with epoxy groups in the side chains. <i>Reactive and Functional Polymers</i> , 1997, 34, 65-77.	2.0	76
4	Fourier Transform Infrared Spectroscopy for Screening and Quantifying Production of PHAs by <i>Pseudomonas</i> Grown on Sodium Octanoate. <i>Biomacromolecules</i> , 2003, 4, 1092-1097.	2.6	76
5	Modification of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Film by Chemical Graft Copolymerization. <i>Biomacromolecules</i> , 2007, 8, 416-423.	2.6	63
6	Additive manufacturing of polyhydroxyalkanoates (PHAs) biopolymers: Materials, printing techniques, and applications. <i>Materials Science and Engineering C</i> , 2021, 127, 112216.	3.8	63
7	Design of Antibacterial and Sustainable Antioxidant Networks Based on Plant Phenolic Derivatives Used As Delivery System of Carvacrol or Tannic Acid. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2320-2329.	3.2	54
8	Design of functionalized biodegradable PHA-based electrospun scaffolds meant for tissue engineering applications. <i>New Biotechnology</i> , 2017, 37, 129-137.	2.4	52
9	Antibacterial and antioxidant bio-based networks derived from eugenol using photo-activated thiol-ene reaction. <i>Reactive and Functional Polymers</i> , 2016, 101, 47-53.	2.0	50
10	From design of bio-based biocomposite electrospun scaffolds to osteogenic differentiation of human mesenchymal stromal cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 1563-1575.	1.7	47
11	Thermal Stability and Flammability Behavior of Poly(3-hydroxybutyrate) (PHB) Based Composites. <i>Materials</i> , 2019, 12, 2239.	1.3	44
12	Monohydroxylated Poly(3-hydroxyoctanoate) Oligomers and Its Functionalized Derivatives Used as Macroinitiators in the Synthesis of Degradable Diblock Copolyesters. <i>Biomacromolecules</i> , 2007, 8, 1255-1265.	2.6	41
13	Antibacterial Networks Based on Isosorbide and Linalool by Photoinitiated Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1094-1100.	3.2	41
14	Paprika, Gallic Acid, and Visible Light: The Green Combination for the Synthesis of Biocide Coatings. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 104-109.	3.2	41
15	Resorcinol-Based Epoxy Resins Hardened with Limonene and Eugenol Derivatives: From the Synthesis of Renewable Diamines to the Mechanical Properties of Biobased Thermosets. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13064-13075.	3.2	37
16	Preparation of a Novel Artificial Bacterial Polyester Modified with Pendant Hydroxyl Groups. <i>Biomacromolecules</i> , 2005, 6, 891-896.	2.6	35
17	Controlled Synthesis of Well Defined Poly(3-hydroxyalkanoate)s-based Amphiphilic Diblock Copolymers Using Click Chemistry. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 278-285.	1.1	35
18	Development of a new azido-oxazoline monomer for the preparation of amphiphilic graft copolymers by combination of cationic ring-opening polymerization and click chemistry. <i>Reactive and Functional Polymers</i> , 2013, 73, 1001-1008.	2.0	34

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19	An Efficient Thiol-ene Chemistry for the Preparation of Amphiphilic PHA-Based Graft Copolymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 2041-2045.	2.0	33
20	Poly(3-hydroxyalkanoate)-derived amphiphilic graft copolymers for the design of polymersomes. <i>Chemical Communications</i> , 2012, 48, 5364.	2.2	32
21	Facile Synthesis of Multicompartment Micelles Based on Biocompatible Poly(3-hydroxyalkanoate). <i>Macromolecular Rapid Communications</i> , 2013, 34, 362-368.	2.0	32
22	Natural Terpenes Used as Plasticizers for Poly(3-hydroxybutyrate). <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16160-16168.	3.2	31
23	Novel Biodegradable Copolyesters Containing Blocks of Poly(3-hydroxyoctanoate) and Poly(ϵ -caprolactone): Synthesis and Characterization. <i>Macromolecular Bioscience</i> , 2004, 4, 1014-1020.	2.1	29
24	A micellization study of medium chain length poly(3-hydroxyalkanoate)-based amphiphilic diblock copolymers. <i>Journal of Colloid and Interface Science</i> , 2012, 375, 88-93.	5.0	28
25	Functionalized oligoesters from poly(3-hydroxyalkanoate)s containing reactive end group for click chemistry: Application to novel copolymer synthesis with poly(2-methyl-2-oxazoline). <i>Reactive and Functional Polymers</i> , 2012, 72, 160-167.	2.0	27
26	Biodegradable polyester thin films and coatings in the line of fire: the time of polyhydroxyalkanoate (PHA)? <i>Progress in Organic Coatings</i> , 2019, 133, 85-89.	1.9	27
27	Synthesis of Graft Bacterial Polyesters for Nanoparticles Preparation. <i>Macromolecular Bioscience</i> , 2003, 3, 248-252.	2.1	26
28	Networks based on biodegradable polyesters: An overview of the chemical ways of crosslinking. <i>Materials Science and Engineering C</i> , 2017, 80, 760-770.	3.8	25
29	Bacterial polyesters grafted with poly(ethylene glycol): Behaviour in aqueous media. <i>Polymer Degradation and Stability</i> , 2007, 92, 1384-1392.	2.7	24
30	Synthesis of dextran-graft-PHBHV amphiphilic copolymer using click chemistry approach. <i>Reactive and Functional Polymers</i> , 2012, 72, 487-494.	2.0	24
31	Preparation of Clickable Poly(3-hydroxyalkanoate) (PHA): Application to Poly(ethylene glycol) (PEG) Graft Copolymers Synthesis. <i>Macromolecular Rapid Communications</i> , 2010, 31, 619-624.	2.0	23
32	Grafting biodegradable polyesters onto cellulose. <i>Journal of Applied Polymer Science</i> , 2011, 121, 1183-1192.	1.3	23
33	UV-cured thiol-ene eugenol/ZnO composite materials with antibacterial properties. <i>RSC Advances</i> , 2016, 6, 88135-88142.	1.7	19
34	Toward the controlled production of oligoesters by microwave-assisted degradation of poly(3-hydroxyalkanoate)s. <i>Polymer Degradation and Stability</i> , 2012, 97, 322-328.	2.7	18
35	Water-Soluble Poly(3-hydroxyalkanoate) Sulfonate: Versatile Biomaterials Used as Coatings for Highly Porous Nano-Metal Organic Framework. <i>Biomacromolecules</i> , 2019, 20, 3324-3332.	2.6	18
36	Poly(3-hydroxyalkanoate) sulfonate: From nanoparticles toward water soluble polyesters. <i>European Polymer Journal</i> , 2015, 68, 471-479.	2.6	17

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37	Fully Bio-Based Epoxy-Amine Thermosets Reinforced with Recycled Carbon Fibers as a Low Carbon-Footprint Composite Alternative. <i>ACS Applied Polymer Materials</i> , 2021, 3, 426-435.	2.0	17
38	Multilayer approach for tuning the drug delivery from poly(3-hydroxyalkanoate)s coatings. <i>Reactive and Functional Polymers</i> , 2012, 72, 260-267.	2.0	16
39	Renewable Semi-Interpenetrating Polymer Networks Based on Vegetable Oils Used as Plasticized Systems of Poly(3-hydroxyalkanoate)s. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5034-5042.	3.2	16
40	Novel poly(3-hydroxy butyrate) macro RAFT agent. Synthesis and characterization of thermoresponsive block copolymers. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	16
41	Multiscale Structural Characterization of Biobased Diallyl Eugenol Polymer Networks. <i>Macromolecules</i> , 2020, 53, 2187-2197.	2.2	16
42	High glass transition temperature bio-based copolyesters from poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and isosorbide. <i>Reactive and Functional Polymers</i> , 2013, 73, 1656-1661.	2.0	15
43	Blending Ferulic Acid Derivatives and Polylactic Acid into Biobased and Transparent Elastomeric Materials with Shape Memory Properties. <i>Biomacromolecules</i> , 2021, 22, 1568-1578.	2.6	15
44	Straightforward Route To Design Biorenewable Networks Based on Terpenes and Sunflower Oil. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 6707-6715.	3.2	14
45	Role of carboxyl pendant groups of medium chain length poly(3-hydroxyalkanoate)s in biomedical temporary applications. <i>Journal of Applied Polymer Science</i> , 2010, 117, 1888-1896.	1.3	13
46	Photocurable bulk epoxy resins based on resorcinol derivative through cationic polymerization. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49051.	1.3	13
47	Photoinduced modification of the natural biopolymer poly(3-hydroxybutyrate-co-3-hydroxyvalerate) microfibrillar surface with anthraquinone-derived dextran for biological applications. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4834.	2.9	10
48	Designing exopolysaccharide-graft-poly(3-hydroxyalkanoate) copolymers for electrospun scaffolds. <i>Reactive and Functional Polymers</i> , 2013, 73, 237-243.	2.0	10
49	Enhancement of Biological Properties of Photoinduced Biobased Networks by Post-Functionalization with Antibacterial Molecule. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2500-2507.	3.2	10
50	Preparation of a bacterial polyester with carboxy groups in side chains. <i>Comptes Rendus De L'Academie Des Sciences - Series IIc: Chemistry</i> , 2001, 4, 289-293.	0.1	9
51	Degradation of Natural and Artificial Poly[(R)-3-hydroxyalkanoate]s: From Biodegradation to Hydrolysis. <i>Microbiology Monographs</i> , 2010, , 283-321.	0.3	8
52	Co-Networks Poly(hydroxyalkanoates)-Terpenes to Enhance Antibacterial Properties. <i>Bioengineering</i> , 2020, 7, 13.	1.6	7
53	Dual UV-Thermal Curing of Biobased Resorcinol Epoxy Resin-Diatomite Composites with Improved Acoustic Performance and Attractive Flame Retardancy Behavior. <i>Sustainable Chemistry</i> , 2021, 2, 24-48.	2.2	7
54	Multiscale Characterization of Creep and Fatigue Crack Propagation Resistance of Fully Bio-Based Epoxy-Amine Resins. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5134-5144.	2.0	7

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55	Electrografting of a biodegradable layer as a primer adhesion coating onto a metallic stent: in vitro and in vivo evaluations. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 2729-2739.	1.7	6
56	Functionalization of Miscanthus by Photoactivated Thiol-ene Addition to Improve Interfacial Adhesion with Polycaprolactone. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5475-5482.	3.2	6
57	Biocomposites Based on Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) (PHBHV) and Miscanthus giganteus Fibers with Improved Fiber/Matrix Interface. <i>Polymers</i> , 2018, 10, 509.	2.0	6
58	Study of Mechanical Properties of PHBHV/Miscanthus Green Composites Using Combined Experimental and Micromechanical Approaches. <i>Polymers</i> , 2021, 13, 2650.	2.0	4
59	Synthesis of Fluorinated Polyhydroxyalkanoates from Marine Bioresources as a Promising Biomaterial Coating. <i>Biomacromolecules</i> , 2021, 22, 4510-4520.	2.6	4
60	The Design of Functionalized PHA-Based Polymeric Materials by Chemical Modifications. , 2020, , 17-42.		4
61	Improved Processability and Antioxidant Behavior of Poly(3-hydroxybutyrate) in Presence of Ferulic Acid-Based Additives. <i>Bioengineering</i> , 2022, 9, 100.	1.6	4
62	Multiscale Network Structure Analysis by Time Domain ¹ H DQ-NMR and DMA of Resorcinol Diglycidyl Ether-ε-caprolactone Matrices. <i>ChemistrySelect</i> , 2020, 5, 11291-11298.	0.7	3
63	Antioxidant Network Based on Sulfonated Polyhydroxyalkanoate and Tannic Acid Derivative. <i>Bioengineering</i> , 2021, 8, 9.	1.6	3
64	Élaboration de nouveaux systèmes biodégradables électrogreffables pour stents endovasculaires malléables. <i>Irbm</i> , 2010, 31, 111-114.	3.7	2
65	Amphiphilic and Perfluorinated Poly(3-Hydroxyalkanoate) Nanocapsules for ¹⁹ F Magnetic Resonance Imaging. <i>Bioengineering</i> , 2021, 8, 121.	1.6	2
66	Effet de la modification chimique des fibres. <i>Revue Des Composites Et Des Materiaux Avances</i> , 2017, 27, 11-30.	0.2	1
67	Electrospun Nanofibrous Poly(3-Hydroxybutyrate-Co-3-Hydroxyvalerate) With Antibacterial Activity. , 2019, , 1-7.		0