Elisa Passaglia

List of Publications by Year
in descending order

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129 papers	2,962 citations	147566 31 h-index	233125 45 g-index
133 all docs	133 docs citations	133 times ranked	3201 citing authors

#	Article	IF	Citations
1	Control of macromolecular architecture during the reactive functionalization in the melt of olefin polymers. Progress in Polymer Science, 2009, 34, 911-947.	11.8	145
2	Nanocomposites based on polyolefins and functional thermoplastic materials. Polymer International, 2008, 57, 805-836.	1.6	124
3	Control of Degradation Reactions during Radical Functionalization of Polypropylene in the Melt. Macromolecules, 2004, 37, 8414-8423.	2.2	80
4	New fluorinated acrylic polymers for improving weatherability of building stone materials. Progress in Organic Coatings, 1997, 32, 43-50.	1.9	77
5	Nanocomposites Based on Thermoplastic Polymers and Functional Nanofiller for Sensor Applications. Materials, 2015, 8, 3377-3427.	1.3	75
6	Zinc Coordination Polymers with 2,6-Bis(imidazole-1-yl)pyridine and Benzenecarboxylate:Pseudo-Supramolecular Isomers with and without Interpenetration and Unprecedented Trinodal Topology. Crystal Growth and Design, 2011, 11, 1230-1237.	1.4	71
7	Grafting of diethyl maleate and maleic anhydride onto styrene- b -(ethylene- co -1-butene)- b -styrene triblock copolymer (SEBS). Polymer, 2000, 41, 4389-4400.	1.8	61
8	Simultaneous Polymerization and Schulzâ˜Flory Oligomerization of Ethylene Made Possible by Activation with MAO of a C1-Symmetric [2,6-Bis(arylimino)pyridyl]iron Dichloride Precursor. Organometallics, 2004, 23, 6087-6089.	1.1	58
9	Polymer-Based Black Phosphorus (bP) Hybrid Materials by in Situ Radical Polymerization: An Effective Tool To Exfoliate bP and Stabilize bP Nanoflakes. Chemistry of Materials, 2018, 30, 2036-2048.	3.2	57
10	Functionalization of Multiwalled Carbon Nanotubes with Cyclic Nitrones for Materials and Composites: Addressing the Role of CNT Sidewall Defects. Chemistry of Materials, 2011, 23, 1923-1938.	3.2	51
11	Thiolâ€Ene Radical Addition of <scp>L</scp>â€Cysteine Derivatives to Low Molecular Weight Polybutadiene. Macromolecular Chemistry and Physics, 2009, 210, 1471-1483.	1.1	49
12	A Perspective on Recent Advances in Phosphorene Functionalization and Its Applications in Devices. European Journal of Inorganic Chemistry, 2019, 2019, 1476-1494.	1.0	49
13	Some recent advances in polyolefin functionalization. Polymer International, 2014, 63, 12-21.	1.6	47
14	Cationic Î·3-benzyl nickel compounds with diphosphine ligands as catalyst precursors for ethylene oligomerization/polymerization: influence of the diphosphine bite angle. Journal of Organometallic Chemistry, 2004, 689, 833-839.	0.8	46
15	Amorphous Polyethylene by Tandem Action of Cobalt and Titanium Single-Site Catalysts. Macromolecular Rapid Communications, 2005, 26, 1218-1223.	2.0	44
16	Comparison of different processing methods to prepare poly(lactid acid)â€“hydrotalcite composites. Polymer Engineering and Science, 2014, 54, 1804-1810.	1.5	44
17	Ethylene Carbonylation in Methanol and in Aqueous Media by Palladium(II) Catalysts Modified with 1,1â€˜-Bis(dialkylphosphino)ferrocenes. Organometallics, 2005, 24, 1018-1030.	1.1	41
18	Probing the chain segment mobility at the interface of semi-crystalline polylactide/clay nanocomposites. European Polymer Journal, 2016, 78, 274-289.	2.6	41

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19	Studies of Ligand and Solvent Effects in the Alternating Copolymerization of Carbon Monoxide and Ethene by Palladium-Diphosphine Catalysis. Organometallics, 2002, 21, 4965-4977.	1.1	40
20	Thermo-oxidative stabilization of poly(lactic acid) with antioxidant intercalated layered double hydroxides. Polymer Degradation and Stability, 2016, 133, 92-100.	2.7	39
21	Time-resolved rheology as a tool to monitor the progress of polymer degradation in the melt state â€“ Part II: Thermal and thermo-oxidative degradation of polyamide 11/organo-clay nanocomposites. Polymer, 2015, 73, 102-110.	1.8	38
22	Functionalization of SBR copolymer by free radical addition of thiols. Macromolecular Chemistry and Physics, 1999, 200, 524-530.	1.1	36
23	Functionalization of a styrene/butadiene random copolymer by radical addition of l-cysteine derivatives. Polymer, 2007, 48, 35-42.	1.8	36
24	Effect of surfactant alkyl chain length on the dispersion, and thermal and dynamic mechanical properties of LDPE/organo-LDH composites. EXPRESS Polymer Letters, 2011, 5, 428-448.	1.1	36
25	Improving the Energy Efficiency of Direct Formate Fuel Cells with a Pd/C-CeO2 Anode Catalyst and Anion Exchange Ionomer in the Catalyst Layer. Energies, 2018, 11, 369.	1.6	36
26	Grafting of functional nitroxyl free radicals to polyolefins as a tool to postreactor modification of polyethyleneâ€based materials with control of macromolecular architecture. Journal of Polymer Science Part A, 2011, 49, 781-795.	2.5	35
27	Cooperativity length scale in nanocomposites: Interfacial and confinement effects. Physical Review E, 2013, 88, 042605.	0.8	35
28	Coagent assisted polypropylene radical functionalization: monomer grafting modulation and molecular weight conservation. Polymer, 2006, 47, 5243-5252.	1.8	34
29	Palladium(II) Complexes with Phosphanylferrocenecarboxylate Ligands and Their Use as Catalyst Precursors for Semialternating COâ€“Ethylene Copolymerization. European Journal of Inorganic Chemistry, 2008, 2008, 441-452.	1.0	33
30	Binary Green Blends of Poly(lactic acid) with Poly(butylene adipate-co-butylene terephthalate) and Poly(butylene succinate-co-butylene adipate) and Their Nanocomposites. Polymers, 2021, 13, 2489.	2.0	33
31	Controlled functionalization of olefin/styrene copolymers through free radical processes. Polymers for Advanced Technologies, 2000, 11, 371-376.	1.6	32
32	Control of degradation of polypropylene during its radical functionalisation with furan and thiophene derivatives. Polymer Degradation and Stability, 2010, 95, 298-305.	2.7	31
33	Synthesis of new polymers containing Î±-(trifluoromethyl)-acrylate units. Macromolecular Chemistry and Physics, 1995, 196, 2843-2853.	1.1	30
34	Nanostructured polyolefins/clay composites: role of the molecular interaction at the interface. Polymers for Advanced Technologies, 2008, 19, 560-568.	1.6	30
35	Influence of pyrolytic thermal history on olive pruning biochar and related epoxy composites mechanical properties. Journal of Composite Materials, 2020, 54, 1863-1873.	1.2	30
36	Optimization of organoâ€layered double hydroxide dispersion in LDPEâ€based nanocomposites. Polymers for Advanced Technologies, 2011, 22, 2285-2294.	1.6	28

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37	Homopolymerization of Methyl Methacrylate by Novel Ziegler-Natta-Type Catalysts Based on Bis(chelate)-nickel(II) Complexes and Methylaluminoxane. Macromolecular Rapid Communications, 2001, 22, 664-668.	2.0	27
38	One-step functionalization of an ethylene/propylene random copolymer with two different reactive groups. Journal of Applied Polymer Science, 2003, 87, 14-23.	1.3	27
39	Functionalization of polyolefins by reactive processing: influence of starting reagents on content and type of grafted groups. Macromolecular Symposia, 2003, 198, 147-160.	0.4	27
40	Palladium-nanoparticles on end-functionalized poly(lactic acid)-based stereocomplexes for the chemoselective cinnamaldehyde hydrogenation: Effect of the end-group. Journal of Catalysis, 2015, 330, 187-196.	3.1	27
41	Î·6-Arene complexes of Ni(ii), efficient catalysts for 1,3-butadiene and styrene polymerization. Chemical Communications, 2003, , 78-79.	2.2	26
42	Fluorescent polyolefins by free radical post-reactor modification with functional nitroxides. Reactive and Functional Polymers, 2012, 72, 695-702.	2.0	26
43	Postâ€polymerization modification by nitroxide radical coupling. Polymer International, 2019, 68, 27-63.	1.6	26
44	Modification of Cross-Linked Rubber Particles by Free Radical Polymerization. Macromolecular Symposia, 2006, 234, 193-202.	0.4	25
45	Evidences of macromolecular chains confinement of ethyleneâ€“propylene copolymer in organophilic montmorillonite nanocomposites. European Polymer Journal, 2008, 44, 1296-1308.	2.6	25
46	Blends of syndiotactic polystyrene with SEBS triblock copolymers. Polymer, 2002, 43, 3323-3329.	1.8	24
47	Gradient Density Grafted Polymers on Ground Tire Rubber Particles by Atom Transfer Radical Polymerization. Macromolecular Chemistry and Physics, 2006, 207, 2289-2298.	1.1	24
48	Pd-nanoparticles supported onto functionalized poly(lactic acid)-based stereocomplexes for partial alkyne hydrogenation. Applied Catalysis A: General, 2014, 469, 132-138.	2.2	24
49	Hybrid nanocomposites of 2D black phosphorus nanosheets encapsulated in PMMA polymer material: new platforms for advanced device fabrication. Nanotechnology, 2018, 29, 295601.	1.3	24
50	Poly(lactic acid) plasticized with lowâ€molecularâ€weight polyesters: structural, thermal and biodegradability features. Polymer International, 2017, 66, 761-769.	1.6	23
51	Novel polystyrene-based nanocomposites by phosphorene dispersion. RSC Advances, 2016, 6, 53777-53783.	1.7	22
52	Unconventional Pd@Sulfonated Silica Monoliths Catalysts for Selective Partial Hydrogenation Reactions under Continuous Flow. ChemCatChem, 2017, 9, 3245-3258.	1.8	22
53	Formation and compatibilizing effect of the grafted copolymer in the reactive blending of 2-diethylsuccinate containing polyolefins with poly-Îµ-caprolactam (nylon-6). Polymers for Advanced Technologies, 1998, 9, 273-281.	1.6	20
54	One-step functionalization and reactive blending of polyolefin/polyamide mixtures (EPM/PA6). Polymer, 2006, 47, 85-97.	1.8	20

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55	Enhanced Thermal Conductivity of Nanofluids Diagnosis by Molecular Dynamics Simulations. Journal of Nanoscience and Nanotechnology, 2008, 8, 3710-3718.	0.9	20
56	Interfacial effects on the dynamics of ethyleneâ€“propylene copolymer nanocomposite with inorganic clays. Journal of Non-Crystalline Solids, 2010, 356, 568-573.	1.5	20
57	Functionalization of aliphatic polyesters by nitroxide radical coupling. Polymer Chemistry, 2014, 5, 5656.	1.9	20
58	Preparation and testing of a solid secondary plasticizer for PVC produced by chemical degradation of post-consumer PET. Waste Management, 2015, 46, 68-75.	3.7	20
59	Molecular and mechanistic aspects of the functionalization of polyolefins with ester groups. Macromolecular Symposia, 1998, 129, 79-88.	0.4	19
60	Rheology of longâ€chain branched polypropylene copolymers. Journal of Applied Polymer Science, 2013, 127, 1423-1432.	1.3	18
61	Platinum nanoparticles onto pegylated poly(lactic acid) stereocomplex for highly selective hydrogenation of aromatic nitrocompounds to anilines. Applied Catalysis A: General, 2017, 537, 50-58.	2.2	18
62	Homo- and copolymers of hexafluoroisopropyl methacrylate and ?-fluoroacrylate with alkyl vinyl ethers: Microstructure and thermal properties. Journal of Polymer Science Part A, 2001, 39, 32-45.	2.5	17
63	Formation of Short and Long Chain Branches during the Free Radical Functionalization of Polyamide 6 in the Melt. Macromolecules, 2006, 39, 2153-2161.	2.2	17
64	Towards a better control of the radical functionalization of poly(lactic acid). Polymer International, 2015, 64, 631-640.	1.6	17
65	An insight into the interaction between functionalized thermoplastic elastomer and layered double hydroxides through rheological investigations. Composites Part B: Engineering, 2018, 139, 47-54.	5.9	17
66	Constrained Amorphous Interphase and Mechanical Properties of Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate). Frontiers in Chemistry, 2019, 7, 790.	1.8	17
67	Antibacterial LDPE-based nanocomposites with salicylic and rosmarinic acid-modified layered double hydroxides. Applied Clay Science, 2021, 214, 106276.	2.6	17
68	13C NMR Characterization of Polymers from 2,2,2-Trifluoroethyl Methacrylate. Polymer Journal, 1994, 26, 1118-1123.	1.3	16
69	Functionalization of polyolefins in the melt through reaction with molecules and macromolecules. Macromolecular Symposia, 1997, 118, 311-316.	0.4	16
70	MMT and LDH organo-modification with surfactants tailored for PLA nanocomposites. EXPRESS Polymer Letters, 2017, 11, 163-175.	1.1	16
71	Reactive Blending of Polyamides with Different Carbonyl Containing Olefin Polymers. Macromolecular Materials and Engineering, 2003, 288, 475-483.	1.7	15
72	Pdâ€nanoparticles stabilized by pyridineâ€functionalized poly(ethylene glycol) as catalyst for the aerobic oxidation of Î±,Î²â€unsaturated alcohols in water. Journal of Polymer Science Part A, 2013, 51, 2518-2526.	2.5	15

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73	Chemistry of Interfacial Interactions in a LDPE-Based Nanocomposite and Their Effect on the Nanoscale Hybrid Assembling. Macromolecules, 2013, 46, 1563-1572.	2.2	15
74	Effects of organo-LDH dispersion on thermal stability, crystallinity and mechanical features of PLA. Polymer, 2020, 208, 122952.	1.8	15
75	Kinetics of the free radical grafting of diethyl maleate onto linear polyethylene. Polymer International, 2000, 49, 949-952.	1.6	14
76	Effect of functional groups of modified polyolefins on the structure and properties of their composites with lamellar silicates. Polymer International, 2005, 54, 1549-1556.	1.6	14
77	Pd(II)â€pyridine macrocomplexes based on poly(lactide). Journal of Polymer Science Part A, 2011, 49, 4708-4713.	2.5	14
78	Modification of isotactic polypropylene by the free-radical grafting of 1,1,1-trimethylolpropane trimethacrylate. Journal of Applied Polymer Science, 2007, 104, 950-958.	1.3	13
79	Structure and rheology of polypropylene with various architectures prepared by coagentâ€assisted radical processing. Polymer International, 2010, 59, 1499-1505.	1.6	13
80	Grafting of polymer chains on the surface of carbon nanotubes via nitroxide radical coupling reaction. Polymer International, 2016, 65, 48-56.	1.6	13
81	Grafting of Hindered Phenol Groups onto Ethylene/Î±-Olefin Copolymer by Nitroxide Radical Coupling. Polymers, 2017, 9, 670.	2.0	13
82	Fluorescent LDPE and PLA nanocomposites containing fluorescein-modified layered double hydroxides and their ON/OFF responsive behavior towards humidity. European Polymer Journal, 2018, 99, 189-201.	2.6	13
83	LLDPE with Exclusively Ethyl Branches by Tandem Catalysis with Single-Site Zr(IV)/Co(II) Catalysts. Topics in Catalysis, 2008, 48, 107-113.	1.3	12
84	The influence of the compatibilizer on the morphology and thermal properties of polypropyleneâ€layered double hydroxide composites. Polymer Composites, 2010, 31, 744-754.	2.3	12
85	The effect of layered double hydroxides dispersion on thermal and mechanical properties of poly(vinyl chloride)/poly(methyl methacrylate) blends. Polymer International, 2013, 62, 554-565.	1.6	12
86	Novel HDPE/ground tyre rubber composite materials obtained through inâ€situ polymerization and polymerization filling technique. Journal of Applied Polymer Science, 2014, 131, .	1.3	12
87	New polymeric sorbent for the solid-phase extraction of indole-3-acetic acid from plants followed by liquid chromatography â€" Fluorescence detector. Microchemical Journal, 2016, 128, 68-74.	2.3	12
88	Composites from functionalized polyolefins and silica. Macromolecular Symposia, 2001, 176, 299-315.	0.4	11
89	Blends of Syndiotactic Polystyrene with SBS Triblock Copolymers. Macromolecular Chemistry and Physics, 2001, 202, 2142-2147.	1.1	11
90	Azo-aromatic functionalized polyethylene by nitroxide radical coupling (NRC) reaction: Preparation and photo-physical properties. Polymer, 2016, 82, 366-377.	1.8	11

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91	Modulated Crosslinking of Polyolefins through Radical Processes in the Melt. Macromolecular Materials and Engineering, 2004, 289, 809-817.	1.7	10
92	Vapochromic behavior of polycarbonate films doped with a luminescent molecular rotor. Polymers for Advanced Technologies, 2016, 27, 429-435.	1.6	10
93	Agriâ€Food Extracts Effectiveness in Improving Antibacterial and Antiviral Properties of Face Masks: A Proofâ€ofâ€Concept Study. ChemistrySelect, 2021, 6, 2288-2297.	0.7	10
94	Miscibility of functionalized polyolefins with polyamide-6 as detected by solid-state NMR. Macromolecular Chemistry and Physics, 1998, 199, 1957-1963.	1.1	9
95	Blending of styrene-block-butadiene-block-styrene copolymer with sulfonated vinyl aromatic polymers. Polymer International, 2001, 50, 714-721.	1.6	9
96	Blends of SBS triblock copolymer with poly(2,6-dimethyl-1,4-phenylene oxide)/polystyrene mixture. Journal of Applied Polymer Science, 2003, 88, 2698-2705.	1.3	9
97	Aerobic alcohol oxidation catalyzed by polyesterâ€based Pd(II) macrocomplexes. Journal of Polymer Science Part A, 2012, 50, 2725-2731.	2.5	9
98	Styrene and substituted styrene grafted functional polyolefins via nitroxide mediated polymerization. Polymer Chemistry, 2018, 9, 307-314.	1.9	9
99	Functionalization of polyolefins in the melt. , 2004, , 47-71.		9
100	Strong Cation Exchange with Innocence: Synthesis and Characterization of Borate Containing Resins and Macroporous Monoliths. Macromolecules, 2013, 46, 5423-5433.	2.2	8
101	Fragility of shortâ€chain poly(lactic acid)s derivatives by combining dielectric spectroscopy and fast scanning calorimetry. Journal of Polymer Science, 2021, 59, 1571-1577.	2.0	8
102	Morphology Development and Stability of Polypropylene/Organoclay Nanocomposites. Journal of Nanoscience and Nanotechnology, 2010, 10, 5814-5825.	0.9	7
103	Theoretical study of the conformational and optical properties of a fluorescent dye. A step toward modeling sensors grafted on polymer structures. Physical Chemistry Chemical Physics, 2011, 13, 21471.	1.3	7
104	Recycling ground tire rubber (GTR) scraps as highâ€impact filler of in situ produced polyketone matrix. Polymers for Advanced Technologies, 2014, 25, 1060-1068.	1.6	7
105	Highly fluorous zirconocene(IV) complexes and their catalytic applications in the polymerization of ethylene. Journal of Organometallic Chemistry, 2010, 695, 1794-1800.	0.8	6
106	Progress in Understanding of the Interactions between Functionalized Polyolefins and Organoâ€<scp>L</scp>ayered Double Hydroxides. Macromolecular Reaction Engineering, 2014, 8, 122-133.	0.9	6
107	Structural, thermal and photo-physical data of azo-aromatic TEMPO derivatives before and after their grafting to polyolefins. Data in Brief, 2016, 6, 562-570.	0.5	6
108	Oxygen and Water Vapor Barrier Properties of MMT Nanocomposites from Low Density Polyethylene or EPM with Grafted Succinic Groups. Journal of Nanoscience and Nanotechnology, 2008, 8, 1690-1699.	0.9	5

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109	Nonisothermal crystallization kinetics of polypropyleneâ€layered double hydroxide composites: Correlation with morphology. Polymer Composites, 2011, 32, 986-993.	2.3	5
110	Polymers from Fossil and Renewable Resources. , 2019, , .		5
111	Oxygen and Water Vapor Barrier Properties of MMT Nanocomposites from Low Density Polyethylene or EPM with Grafted Succinic Groups. Journal of Nanoscience and Nanotechnology, 2008, 8, 1690-1699.	0.9	5
112	Blends of styrene-butadiene-styrene triblock copolymer with random styrene-maleic anhydride copolymers. Macromolecular Chemistry and Physics, 2002, 203, 1396-1402.	1.1	4
113	Controlled degradation by melt processing with oxygen or peroxide of ethylene/propylene copolymers. Journal of Applied Polymer Science, 2004, 94, 372-381.	1.3	4
114	Effects of reactive melt mixing on the morphology and thermal behavior of linear lowâ€density polyethylene/rubber blends. Journal of Applied Polymer Science, 2008, 109, 1014-1021.	1.3	4
115	Palladium nanoparticles supported onto stereocomplexed poly(lactic acid)-poly(Îµ-caprolactone) copolymers for selective partial hydrogenation of phenylacetylene. Rendiconti Lincei, 2017, 28, 51-58.	1.0	4
116	Dispersion of Few-Layer Black Phosphorus in Binary Polymer Blend and Block Copolymer Matrices. Nanomaterials, 2021, 11, 1996.	1.9	4
117	Incorporation of 2D black phosphorus (2D-bP) in P3HT/PMMA mixtures for novel materials with tuned spectroscopic, morphological and electric features. FlatChem, 2021, 30, 100314.	2.8	4
118	Grafting of polypropylene and its potential use as metal ion adsorption resin. Journal of Applied Polymer Science, 2009, 113, 290-298.	1.3	3
119	Catalytic Performances of Platinum Containing PLLA Macrocomplex in the Hydrogenation of Î±,Î²-Unsaturated Carbonyl Compounds. Applied Sciences (Switzerland), 2019, 9, 3243.	1.3	3
120	Macromolecular Dyes by Chromophore-Initiated Ring Opening Polymerization of L-Lactide. Polymers, 2020, 12, 1979.	2.0	3
121	Study of Grafting Reactions of Polar Groups onto Polystyrene (PS) by Reactive Mixing. Macromolecular Symposia, 2001, 169, 61-70.	0.4	2
122	Polyketone Nanocomposites by Palladium-Catalyzed Ethylene-Carbon Monoxide-(Propene) Co(Ter)polymerization Inside an Unmodified Layered Silicate. E-Polymers, 2006, 6, .	1.3	2
123	New Functionalized Polypropylenes as Controlled Architecture Compatibilizers for Polypropylene Layered Silicates Nanocomposites. Journal of Nanoscience and Nanotechnology, 2009, 9, 4858-4869.	0.9	2
124	Coâ€agent mediated functionalization of <scp>LDPE</scp>/<scp>iPP</scp> mixtures for compatibilization of <scp>WEEE</scp>â€recovered polyvinylchloride. Polymer International, 2016, 65, 621-630.	1.6	2
125	Effect of Structure of Functionalizing Molecules on the Inter-Macromolecular Reactions and Blending of Poly(ethylene-co-propylene) (EPM) with Poly(6-aminohexanoic Acid) (PA6). Helvetica Chimica Acta, 2006, 89, 1596-1609.	1.0	1
126	Ethylene polymerization using metallocenes supported on MgCl2/SiCl4â"n (n-C6H13O)n. Designed Monomers and Polymers, 2007, 10, 507-516.	0.7	1

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127	Study of the compounding process parameters for morphology control of LDPE/layered silicate nanocomposites. E-Polymers, 2009, 9, .	1.3	1
128	Palladiumâ€Based Catalystsâ€Supported onto Endâ€Functionalized Poly(lactide) for Câ€“C Double and Triple Bond Hydrogenation Reactions. , 2017, , .		0
129	Hybrid Materials and Systems. , 2019, , 133-159.		0