

# Serena Coiai

## List of Publications by Citations

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59  
papers

1,122  
citations

19  
h-index

31  
g-index

62  
ext. papers

1,263  
ext. citations

4  
avg, IF

4.22  
L-index

#	Paper	IF	Citations
59	Control of macromolecular architecture during the reactive functionalization in the melt of olefin polymers. <i>Progress in Polymer Science</i> , <b>2009</b> , 34, 911-947	29.6	120
58	Nanocomposites based on polyolefins and functional thermoplastic materials. <i>Polymer International</i> , <b>2008</b> , 57, 805-836	3.3	115
57	Control of Degradation Reactions during Radical Functionalization of Polypropylene in the Melt. <i>Macromolecules</i> , <b>2004</b> , 37, 8414-8423	5.5	70
56	Nanocomposites Based on Thermoplastic Polymers and Functional Nanofiller for Sensor Applications. <i>Materials</i> , <b>2015</b> , 8, 3377-3427	3.5	60
55	Heat-Resistant Fully Bio-Based Nanocomposite Blends Based on Poly(lactic acid). <i>Macromolecular Materials and Engineering</i> , <b>2014</b> , 299, 31-40	3.9	49
54	Polymer-Based Black Phosphorus (bP) Hybrid Materials by in Situ Radical Polymerization: An Effective Tool To Exfoliate bP and Stabilize bP Nanoflakes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2036-2048	9.6	46
53	Thiol-Ene Radical Addition of L-Cysteine Derivatives to Low Molecular Weight Polybutadiene. <i>Macromolecular Chemistry and Physics</i> , <b>2009</b> , 210, 1471-1483	2.6	41
52	Some recent advances in polyolefin functionalization. <i>Polymer International</i> , <b>2014</b> , 63, 12-21	3.3	40
51	Grafting of functional nitroxyl free radicals to polyolefins as a tool to postreactor modification of polyethylene-based materials with control of macromolecular architecture. <i>Journal of Polymer Science Part A</i> , <b>2011</b> , 49, 781-795	2.5	34
50	Coagent assisted polypropylene radical functionalization: monomer grafting modulation and molecular weight conservation. <i>Polymer</i> , <b>2006</b> , 47, 5243-5252	3.9	31
49	Thermo-oxidative stabilization of poly(lactic acid) with antioxidant intercalated layered double hydroxides. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 133, 92-100	4.7	28
48	Control of degradation of polypropylene during its radical functionalisation with furan and thiophene derivatives. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 298-305	4.7	28
47	A Perspective on Recent Advances in Phosphorene Functionalization and Its Applications in Devices. <i>European Journal of Inorganic Chemistry</i> , <b>2019</b> , 2019, 1476-1494	2.3	26
46	Functionalization of polyolefins by reactive processing: influence of starting reagents on content and type of grafted groups. <i>Macromolecular Symposia</i> , <b>2003</b> , 198, 147-160	0.8	25
45	Optimization of organo-layered double hydroxide dispersion in LDPE-based nanocomposites. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 2285-2294	3.2	24
44	Nanostructured polyolefins/clay composites: role of the molecular interaction at the interface. <i>Polymers for Advanced Technologies</i> , <b>2008</b> , 19, 560-568	3.2	24
43	Fluorescent polyolefins by free radical post-reactor modification with functional nitroxides. <i>Reactive and Functional Polymers</i> , <b>2012</b> , 72, 695-702	4.6	23

42	Modification of Cross-Linked Rubber Particles by Free Radical Polymerization. <i>Macromolecular Symposia</i> , <b>2006</b> , 234, 193-202	0.8	23
41	Gradient Density Grafted Polymers on Ground Tire Rubber Particles by Atom Transfer Radical Polymerization. <i>Macromolecular Chemistry and Physics</i> , <b>2006</b> , 207, 2289-2298	2.6	22
40	Post-polymerization modification by nitroxide radical coupling. <i>Polymer International</i> , <b>2019</b> , 68, 27-63	3.3	19
39	Preparation and testing of a solid secondary plasticizer for PVC produced by chemical degradation of post-consumer PET. <i>Waste Management</i> , <b>2015</b> , 46, 68-75	8.6	17
38	Advanced ultra-high molecular weight polyethylene/antioxidant-functionalized carbon nanotubes nanocomposites with improved thermo-oxidative resistance. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	16
37	Functionalization of aliphatic polyesters by nitroxide radical coupling. <i>Polymer Chemistry</i> , <b>2014</b> , 5, 5656	4.9	15
36	Poly(lactic acid) plasticized with low-molecular-weight polyesters: structural, thermal and biodegradability features. <i>Polymer International</i> , <b>2017</b> , 66, 761-769	3.3	14
35	Towards a better control of the radical functionalization of poly(lactic acid). <i>Polymer International</i> , <b>2015</b> , 64, 631-640	3.3	14
34	An insight into the interaction between functionalized thermoplastic elastomer and layered double hydroxides through rheological investigations. <i>Composites Part B: Engineering</i> , <b>2018</b> , 139, 47-54	10	13
33	Chemistry of Interfacial Interactions in a LDPE-Based Nanocomposite and Their Effect on the Nanoscale Hybrid Assembling. <i>Macromolecules</i> , <b>2013</b> , 46, 1563-1572	5.5	12
32	Structure and rheology of polypropylene with various architectures prepared by coagent-assisted radical processing. <i>Polymer International</i> , <b>2010</b> , 59, 1499-1505	3.3	12
31	Novel HDPE/ground tyre rubber composite materials obtained through in-situ polymerization and polymerization filling technique. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	11
30	The effect of layered double hydroxides dispersion on thermal and mechanical properties of poly(vinyl chloride)/poly(methyl methacrylate) blends. <i>Polymer International</i> , <b>2013</b> , 62, 554-565	3.3	11
29	Azo-aromatic functionalized polyethylene by nitroxide radical coupling (NRC) reaction: Preparation and photo-physical properties. <i>Polymer</i> , <b>2016</b> , 82, 366-377	3.9	10
28	Grafting of polymer chains on the surface of carbon nanotubes via nitroxide radical coupling reaction. <i>Polymer International</i> , <b>2016</b> , 65, 48-56	3.3	10
27	Modulated Crosslinking of Polyolefins through Radical Processes in the Melt. <i>Macromolecular Materials and Engineering</i> , <b>2004</b> , 289, 809-817	3.9	10
26	Binary Green Blends of Poly(lactic acid) with Poly(butylene adipate--butylene terephthalate) and Poly(butylene succinate--butylene adipate) and Their Nanocomposites. <i>Polymers</i> , <b>2021</b> , 13,	4.5	10
25	Grafting of Hindered Phenol Groups onto Ethylene/Eolefin Copolymer by Nitroxide Radical Coupling. <i>Polymers</i> , <b>2017</b> , 9,	4.5	9

24	Fluorescent LDPE and PLA nanocomposites containing fluorescein-modified layered double hydroxides and their ON/OFF responsive behavior towards humidity. <i>European Polymer Journal</i> , <b>2018</b> , 99, 189-201	5.2	8
23	Strong Cation Exchange with Innocence: Synthesis and Characterization of Borate Containing Resins and Macroporous Monoliths. <i>Macromolecules</i> , <b>2013</b> , 46, 5423-5433	5.5	8
22	Functionalization of polyolefins in the melt <b>2004</b> , 47-71		8
21	Morphology development and stability of polypropylene/organoclay nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 5814-25	1.3	7
20	Polymer surface modification by photografting of functional nitroxides. <i>European Polymer Journal</i> , <b>2017</b> , 87, 24-38	5.2	6
19	Using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the characterization of functionalized carbon nanotubes. <i>Rapid Communications in Mass Spectrometry</i> , <b>2013</b> , 27, 1359-66	2.2	6
18	Progress in Understanding of the Interactions between Functionalized Polyolefins and Organo-Layered Double Hydroxides. <i>Macromolecular Reaction Engineering</i> , <b>2014</b> , 8, 122-133	1.5	5
17	Nonisothermal crystallization kinetics of polypropylene-layered double hydroxide composites: Correlation with morphology. <i>Polymer Composites</i> , <b>2011</b> , 32, 986-993	3	5
16	Structural, thermal and photo-physical data of azo-aromatic TEMPO derivatives before and after their grafting to polyolefins. <i>Data in Brief</i> , <b>2016</b> , 6, 562-70	1.2	4
15	The influence of the compatibilizer on the morphology and thermal properties of polypropylene-layered double hydroxide composites. <i>Polymer Composites</i> , <b>2009</b> , 31, NA-NA	3	4
14	Effects of reactive melt mixing on the morphology and thermal behavior of linear low-density polyethylene/rubber blends. <i>Journal of Applied Polymer Science</i> , <b>2008</b> , 109, 1014-1021	2.9	4
13	Effects of organo-LDH dispersion on thermal stability, crystallinity and mechanical features of PLA. <i>Polymer</i> , <b>2020</b> , 208, 122952	3.9	4
12	Agri-Food Extracts Effectiveness in Improving Antibacterial and Antiviral Properties of Face Masks: A Proof-of-Concept Study. <i>ChemistrySelect</i> , <b>2021</b> , 6, 2288-2297	1.8	3
11	Grafting of polypropylene and its potential use as metal ion adsorption resin. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 290-298	2.9	2
10	Incorporation of 2D black phosphorus (2D-bP) in P3HT/PMMA mixtures for novel materials with tuned spectroscopic, morphological and electric features. <i>FlatChem</i> , <b>2021</b> , 30, 100314	5.1	2
9	Rosmarinic Acid and Ulvan from Terrestrial and Marine Sources in Anti-Microbial Bionanosystems and Biomaterials. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 9249	2.6	2
8	Macromolecular Dyes by Chromophore-Initiated Ring Opening Polymerization of L-Lactide. <i>Polymers</i> , <b>2020</b> , 12,	4.5	2
7	Co-agent mediated functionalization of LDPE/iPP mixtures for compatibilization of WEEE-recovered polyvinylchloride. <i>Polymer International</i> , <b>2016</b> , 65, 621-630	3.3	2

6	Antibacterial LDPE-based nanocomposites with salicylic and rosmarinic acid-modified layered double hydroxides. <i>Applied Clay Science</i> , <b>2021</b> , 214, 106276	5.2	2
5	Nanocomposites Based on Phyllosilicates: From Petrochemicals to Renewable Thermoplastic Matrices 403-458	1	
4	New functionalized polypropylenes as controlled architecture compatibilizers for polypropylene layered silicates nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 4858-69	1.3	1
3	Dispersion of Few-Layer Black Phosphorus in Binary Polymer Blend and Block Copolymer Matrices. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	1
2	Study of Grafting Reactions of Polar Groups onto Polystyrene (PS) by Reactive Mixing. <i>Macromolecular Symposia</i> , <b>2001</b> , 169, 61-70	0.8	
1	Organophilic Boehmite nanoparticles by ATRP methacrylates polymerization: synthesis, characterization and dispersion in polypropylene. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2008</b> , 8, 1803-11	1.3	