

# Rossella Arrigo

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

843  
citations

17  
h-index

25  
g-index

75  
ext. papers

1,053  
ext. citations

4  
avg, IF

4.59  
L-index

#	Paper	IF	Citations
67	Flame retardant potential of Tetra Pak <sup>®</sup> -derived biochar for ethylene-vinyl-acetate copolymers. <i>Composites Part C: Open Access</i> , <b>2022</b> , 8, 100252	1.6	1
66	Mechanical Performance of Polylactic Acid from Sustainable Screw-Based 3D Printing. <i>Smart Innovation, Systems and Technologies</i> , <b>2021</b> , 531-542	0.5	
65	Rheological, mechanical, thermal and electrical properties of UHMWPE/CNC composites. <i>Cellulose</i> , <b>2021</b> , 28, 10953-10967	5.5	0
64	Structure-Property Relationships in Bionanocomposites for Pipe Extrusion Applications. <i>Polymers</i> , <b>2021</b> , 13,	4.5	2
63	Designing 3D printable polypropylene: Material and process optimisation through rheology. <i>Additive Manufacturing</i> , <b>2021</b> , 40, 101944	6.1	8
62	Bionanocomposite Blown Films: Insights on the Rheological and Mechanical Behavior. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
61	Photosensitive acrylates containing bio-based epoxy-acrylate soybean oil for 3D printing application. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51292	2.9	2
60	Effect of SiO Particles on the Relaxation Dynamics of Epoxidized Natural Rubber (ENR) in the Melt State by Time-Resolved Mechanical Spectroscopy. <i>Polymers</i> , <b>2021</b> , 13,	4.5	1
59	Rheological behavior and morphology of poly(lactic acid)/low-density polyethylene blends based on virgin and recycled polymers: Compatibilization with natural surfactants. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50590	2.9	3
58	Thermal, dynamic-mechanical and electrical properties of UV-LED curable coatings containing porcupine-like carbon structures. <i>Materials Today Communications</i> , <b>2021</b> , 28, 102630	2.5	3
57	High Frequency Electromagnetic Shielding by Biochar-Based Composites. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
56	Properties of Graphene-Related Materials Controlling the Thermal Conductivity of Their Polymer Nanocomposites. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
55	Structure Evolution of Epoxidized Natural Rubber (ENR) in the Melt State by Time-Resolved Mechanical Spectroscopy. <i>Materials</i> , <b>2020</b> , 13,	3.5	2
54	Rheological Behavior of Polymer/Carbon Nanotube Composites: An Overview. <i>Materials</i> , <b>2020</b> , 13,	3.5	9
53	Thermal stability and flame retardance of EVA containing DNA-modified clays. <i>Thermochimica Acta</i> , <b>2020</b> , 686, 178546	2.9	6
52	Poly(lactic Acid)-Biochar Biocomposites: Effect of Processing and Filler Content on Rheological, Thermal, and Mechanical Properties. <i>Polymers</i> , <b>2020</b> , 12,	4.5	33
51	Preparation and Characterization of UV-LED Curable Acrylic Films Containing Biochar and/or Multiwalled Carbon Nanotubes: Effect of the Filler Loading on the Rheological, Thermal and Optical Properties. <i>Polymers</i> , <b>2020</b> , 12,	4.5	10

50	PLA/PHB Blends: Biocompatibilizer Effects. <i>Polymers</i> , <b>2019</b> , 11,	4.5	21
49	Structure-Property Relationships in Polyethylene-Based Composites Filled with Biochar Derived from Waste Coffee Grounds. <i>Polymers</i> , <b>2019</b> , 11,	4.5	28
48	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
47	POSS Grafting on Polyethylene and Maleic Anhydride-Grafted Polyethylene by One-Step Reactive Melt Mixing. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 349-357	1.9	8
46	Polyamide-Based Fibers Containing Microwave-Exfoliated Graphite Nanoplatelets. <i>Advances in Polymer Technology</i> , <b>2018</b> , 37, 786-797	1.9	
45	Mechanical and rheological properties of polystyrene-block-polybutadiene-block-polystyrene copolymer reinforced with carbon nanotubes: effect of processing conditions. <i>Journal of Polymer Engineering</i> , <b>2018</b> , 38, 107-117	1.4	1
44	Thermal and rheological behavior of PEG-based nanocomposites: Effect of filler aspect ratio and size <b>2018</b> ,		1
43	Effects of the nanofiller size and aspect ratio on the thermal and rheological behavior of PEG nanocomposites containing boehmites or hydrotalcites. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2018</b> , 134, 1667-1680	4.1	7
42	Sonication-Induced Modification of Carbon Nanotubes: Effect on the Rheological and Thermo-Oxidative Behaviour of Polymer-Based Nanocomposites. <i>Materials</i> , <b>2018</b> , 11,	3.5	55
41	Relaxation Dynamics in Polyethylene Glycol/Modified Hydrotalcite Nanocomposites. <i>Polymers</i> , <b>2018</b> , 10,	4.5	3
40	Rheological Percolation Threshold in High-Viscosity Polymer/CNTs Nanocomposites. <i>Journal of Engineering Mechanics - ASCE</i> , <b>2017</b> , 143,	2.4	6
39	High-performance thermoplastic elastomers/carbon nanotubes nanocomposites: Mechanical behavior, rheology, and durability. <i>Polymer Composites</i> , <b>2017</b> , 38, E381-E391	3	9
38	Thermo-oxidative stabilization of poly(lactic acid)-based nanocomposites through the incorporation of clay with in-built antioxidant activity. <i>Journal of Applied Polymer Science</i> , <b>2017</b> , 134,	2.9	10
37	Novel strategic approach for the thermo- and photo- oxidative stabilization of polyolefin/clay nanocomposites. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 145, 41-51	4.7	10
36	Concentration-dependent anti-/pro-oxidant activity of natural phenolic compounds in bio-polyesters. <i>Polymer Degradation and Stability</i> , <b>2017</b> , 142, 21-28	4.7	25
35	Hybrid supramolecular gels of Fmoc-F/halloysite nanotubes: systems for sustained release of camptothecin. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 3217-3229	7.3	42
34	Silanol-POSS as dispersing agents for carbon nanotubes in polyamide. <i>Polymer Engineering and Science</i> , <b>2017</b> , 57, 588-594	2.3	5
33	Carbon nanotubes-based nanohybrids for multifunctional nanocomposites. <i>Journal of King Saud University - Science</i> , <b>2017</b> , 29, 502-509	3.6	7

32	Supramolecular Hydro- and Ionogels: A Study of Their Properties and Antibacterial Activity. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16297-16311	4.8	27
31	Low-Density Polyethylene/Polyamide/Clay Blend Nanocomposites: Effect of Morphology of Clay on Their Photooxidation Resistance. <i>Journal of Nanomaterials</i> , <b>2017</b> , 2017, 1-9	3.2	1
30	Pluronic nanoparticles as anti-oxidant carriers for polymers. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 134, 194-201	4.7	16
29	Double bond-functionalized POSS: dispersion and crosslinking in polyethylene-based hybrid obtained by reactive processing. <i>Polymer Bulletin</i> , <b>2016</b> , 73, 3385-3400	2.4	5
28	Multi-functional polyhedral oligomeric silsesquioxane-functionalized carbon nanotubes for photo-oxidative stable Ultra-High Molecular Weight Polyethylene-based nanocomposites. <i>European Polymer Journal</i> , <b>2016</b> , 75, 525-537	5.2	16
27	Biopolyester-based systems containing naturally occurring compounds with enhanced thermo-oxidative stability. <i>Journal of Applied Biomaterials and Functional Materials</i> , <b>2016</b> , 14, e455-e462	1.8	6
26	Effect of Nanodiamonds on Structure and Durability of Polyethylene Oxide-Based Nanocomposites. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-9	3.2	6
25	Improved carbon nanotubes dispersion through polar dispersant agents in polyamide <b>2016</b> ,		1
24	Nano-hybrids based on quercetin and carbon nanotubes with excellent anti-oxidant activity. <i>Materials Letters</i> , <b>2016</b> , 180, 7-10	3.3	11
23	Advanced nano-hybrids for thermo-oxidative-resistant nanocomposites. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 6955-6966	4.3	6
22	High performance composites containing perfluoropolyethers-functionalized carbon-based nanoparticles: Rheological behavior and wettability. <i>Composites Part B: Engineering</i> , <b>2016</b> , 95, 29-39	10	5
21	Tunable radical scavenging activity of carbon nanotubes through sonication. <i>Carbon</i> , <b>2016</b> , 107, 240-247	10.4	16
20	On the role of multi-functional polyhedral oligomeric silsesquioxane in polystyrene-zinc oxide nanocomposites. <i>Journal of Polymer Engineering</i> , <b>2015</b> , 35, 329-337	1.4	4
19	Thermo-oxidative resistant nanocomposites containing novel hybrid-nanoparticles based on natural polyphenol and carbon nanotubes. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 115, 129-137	4.7	29
18	Multi-functional hindered amine light stabilizers-functionalized carbon nanotubes for advanced ultra-high molecular weight Polyethylene-based nanocomposites. <i>Composites Part B: Engineering</i> , <b>2015</b> , 82, 196-204	10	32
17	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
16	Polyamide/carbonaceous particles nanocomposites fibers: Morphology and performances. <i>Polymer Composites</i> , <b>2015</b> , 36, 1020-1028	3	5
15	Improvement of the photo-stability of polystyrene-block-polybutadiene-block-polystyrene through carbon nanotubes. <i>Polymer Degradation and Stability</i> , <b>2015</b> , 118, 24-32	4.7	19

14	Effect of the orientation and rheological behaviour of biodegradable polymer nanocomposites. <i>European Polymer Journal</i> , <b>2014</b> , 54, 11-17	5.2	42
13	Interaction in POSS-poly(ethylene-co-acrylic acid) nanocomposites. <i>Polymer Journal</i> , <b>2014</b> , 46, 160-166	2.7	17
12	Tocopherol-induced radical scavenging activity in carbon nanotubes for thermo-oxidation resistant ultra-high molecular weight polyethylene-based nanocomposites. <i>Carbon</i> , <b>2014</b> , 74, 14-21	10.4	39
11	Immobilization of natural anti-oxidants on carbon nanotubes and aging behavior of ultra-high molecular weight polyethylene-based nanocomposites <b>2014</b> ,		4
10	Quercetin as natural stabilizing agent for bio-polymer <b>2014</b> ,		7
9	Performances and morphology of polyamide/carbonaceous structures based fibers <b>2014</b> ,		3
8	Natural compounds as light stabilizer for a starch-based biodegradable polymer. <i>Journal of Polymer Engineering</i> , <b>2014</b> , 34, 441-449	1.4	19
7	Effect of the nanotube aspect ratio and surface functionalization on the morphology and properties of multiwalled carbon nanotube polyamide-based fibers. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 129, 2479-2489	2.9	18
6	Influence of the e-beam irradiation and photo-oxidation aging on the structure and properties of LDPE-OMMT nanocomposite films. <i>Radiation Physics and Chemistry</i> , <b>2012</b> , 81, 432-436	2.5	8
5	UV-stabilisation of polystyrene-based nanocomposites provided by polyhedral oligomeric silsesquioxanes (POSS). <i>Polymer Degradation and Stability</i> , <b>2012</b> , 97, 2313-2322	4.7	21
4	Structure-properties relationships of polyhedral oligomeric silsesquioxane (POSS) filled PS nanocomposites. <i>EXPRESS Polymer Letters</i> , <b>2012</b> , 6, 561-571	3.4	35
3	On the Role of Extensional Flow in Morphology and Property Modifications of MWCNT/Polyamide-Based Fibers. <i>Macromolecular Materials and Engineering</i> , <b>2011</b> , 296, 645-657	3.9	17
2	Effect of elongational flow on morphology and properties of polymer/CNTs nanocomposite fibers. <i>Polymers for Advanced Technologies</i> , <b>2011</b> , 22, 1612-1619	3.2	27
1	Rheology, Morphology and Thermal Properties of a PLA/PHB/Clay Blend Nanocomposite: The Influence of Process Parameters. <i>Journal of Polymers and the Environment</i> , 1	4.5	4