

Andrea Sorrentino

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135
papers

3,903
citations

30
h-index

59
g-index

148
ext. papers

4,452
ext. citations

4.4
avg, IF

5.78
L-index

#	Paper	IF	Citations
135	Potential perspectives of bio-nanocomposites for food packaging applications. <i>Trends in Food Science and Technology</i> , 2007 , 18, 84-95	15.3	777
134	Effect of functionalization on the thermo-mechanical and electrical behavior of multi-wall carbon nanotube/epoxy composites. <i>Carbon</i> , 2011 , 49, 1919-1930	10.4	204
133	Influence of crystallinity on the biodegradation rate of injection-moulded poly(lactic acid) samples in controlled composting conditions. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1089-1096	4.7	145
132	Mechanical and barrier properties of epoxy resin filled with multi-walled carbon nanotubes. <i>Carbon</i> , 2009 , 47, 2419-2430	10.4	135
131	Biodegradable nanocomposites obtained by ball milling of pectin and montmorillonites. <i>Carbohydrate Polymers</i> , 2006 , 64, 516-523	10.3	125
130	Nano clay reinforced PCL/starch blends obtained by high energy ball milling. <i>Carbohydrate Polymers</i> , 2009 , 75, 172-179	10.3	124
129	Fabrication of polymer nanocomposites via ball milling: Present status and future perspectives. <i>Progress in Materials Science</i> , 2017 , 86, 75-126	42.2	113
128	Mechanical milling as a technology to produce structural and functional bio-nanocomposites. <i>Green Chemistry</i> , 2015 , 17, 2610-2625	10	108
127	Crystallization kinetics of virgin and processed poly(lactic acid). <i>Polymer Degradation and Stability</i> , 2010 , 95, 1148-1159	4.7	103
126	Incorporation of MgAl hydrotalcite into a biodegradable Poly(E-caprolactone) by high energy ball milling. <i>Polymer</i> , 2005 , 46, 1601-1608	3.9	102
125	Diffusion behavior in polymer/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 265-274	2.6	98
124	Enhancing the EMI shielding of natural rubber-based supercritical CO foams by exploiting their porous morphology and CNT segregated networks. <i>Nanoscale</i> , 2019 , 11, 1011-1020	7.7	96
123	Self-healing epoxy nanocomposites via reversible hydrogen bonding. <i>Composites Part B: Engineering</i> , 2019 , 157, 1-13	10	75
122	Epoxy/MWCNT Composite as Temperature Sensor and Electrical Heating Element. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 688-693	2.6	70
121	Hybrid clay mineral-carbon nanotube-PLA nanocomposite films. Preparation and photodegradation effect on their mechanical, thermal and electrical properties. <i>Applied Clay Science</i> , 2013 , 71, 49-54	5.2	67
120	Structure-property relationships on uniaxially oriented carbon nanotube/polyethylene composites. <i>Polymer</i> , 2011 , 52, 1124-1132	3.9	60
119	Polymorphism and Thermal Behaviour of Syndiotactic Poly(propylene)/Carbon Nanotube Composites. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1963-1967	4.8	49

118	Development of self-healing multifunctional materials. <i>Composites Part B: Engineering</i> , 2017 , 128, 30-38	10	48
117	Molecular orientation in injection molding: experiments and analysis. <i>Rheologica Acta</i> , 2004 , 43, 109-118	2.3	45
116	Cure behavior and physical properties of epoxy resin-filled with multiwalled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 2686-93	1.3	44
115	Photo-oxidative stabilization of carbon nanotubes on polylactic acid. <i>Polymer Degradation and Stability</i> , 2013 , 98, 963-971	4.7	39
114	Reversible Self-Healing Carbon-Based Nanocomposites for Structural Applications. <i>Polymers</i> , 2019 , 11,	4.5	38
113	Nanosheets of MoS ₂ -oleylamine as hybrid filler for self-lubricating polymer composites: Thermal, tribological, and mechanical properties. <i>Polymer Composites</i> , 2015 , 36, 1124-1134	3	36
112	Encapsulation of Lysozyme into halloysite nanotubes and dispersion in PLA: Structural and physical properties and controlled release analysis. <i>European Polymer Journal</i> , 2017 , 93, 495-506	5.2	36
111	Mechanical Properties Distribution within Polypropylene Injection Molded Samples: Effect of Mold Temperature under Uneven Thermal Conditions. <i>Polymers</i> , 2017 , 9,	4.5	36
110	Cure behavior and mechanical properties of structural self-healing epoxy resins. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 2413-2423	2.6	36
109	Comparison of the physical properties of epoxy-based composites filled with different types of carbon nanotubes for aeronautic applications. <i>Advances in Polymer Technology</i> , 2012 , 31, 205-218	1.9	34
108	Pressure-dependent viscosity and free volume of atactic and syndiotactic polystyrene. <i>Rheologica Acta</i> , 2009 , 48, 467-478	2.3	33
107	Pressure Effect on Viscosity for Atactic and Syndiotactic Polystyrene. <i>Polymer Bulletin</i> , 2005 , 54, 365-376	2.4	31
106	Synthesis and characterization of sustainable polyurethane foams based on polyhydroxyls with different terminal groups. <i>Polymer</i> , 2018 , 149, 134-145	3.9	28
105	Improving the predictions of injection molding simulation software. <i>Polymer Engineering and Science</i> , 2011 , 51, 2542-2551	2.3	28
104	Synthesis of ruthenium catalysts functionalized graphene oxide for self-healing applications. <i>Polymer</i> , 2015 , 69, 330-342	3.9	27
103	Kinetics of melting and characterization of the thermodynamic and kinetic properties of syndiotactic polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 196-207	2.6	27
102	Molecular orientation and strain in injection moulding of thermoplastics. <i>Macromolecular Symposia</i> , 2002 , 185, 293-307	0.8	27
101	Thiourea incorporated poly(ethylene oxide) as transparent gel polymer electrolyte for dye sensitized solar cell applications. <i>Journal of Power Sources</i> , 2017 , 353, 245-253	8.9	26

100	Fast mold surface temperature evolution: relevance of asymmetric surface heating for morphology of iPP molded samples. <i>RSC Advances</i> , 2015 , 5, 36434-36448	3.7	25
99	Functional Zein/Biloxane Bio-Hybrids. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 254-263	8.3	25
98	Bio-based flexible polyurethane foams derived from succinic polyol: Mechanical and acoustic performances. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45113	2.9	24
97	Isothermal crystallization kinetics of polypropylene latex-based nanocomposites with organo-modified clay. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1927-1938	2.6	24
96	Multifunctionality of structural nanohybrids: the crucial role of carbon nanotube covalent and non-covalent functionalization in enabling high thermal, mechanical and self-healing performance. <i>Nanotechnology</i> , 2020 , 31, 225708	3.4	23
95	Characterization of the polycaprolactone melt crystallization: complementary optical microscopy, DSC, and AFM studies. <i>Scientific World Journal, The</i> , 2014 , 2014, 720157	2.2	23
94	Amniotic epithelial stem cell biocompatibility for electrospun poly(lactide-co-glycolide), poly(ϵ -caprolactone), poly(lactic acid) scaffolds. <i>Materials Science and Engineering C</i> , 2016 , 69, 321-9	8.3	22
93	Flexible Poly(Amide-Imide)-Carbon Black Based Microheater with High-Temperature Capability and an Extremely Low Temperature Coefficient. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600126	6.4	22
92	Differences between graphene and graphene oxide in gelatin based systems for transient biodegradable energy storage applications. <i>Nanotechnology</i> , 2017 , 28, 054005	3.4	20
91	Injection molding of syndiotactic polystyrene/clay nanocomposites. <i>Polymer Engineering and Science</i> , 2006 , 46, 1768-1777	2.3	20
90	Cycle stability and dielectric properties of a new biodegradable energy storage material. <i>Nano Energy</i> , 2015 , 17, 348-355	17.1	19
89	Determination of the effect of pressure on viscosity of an isotactic polypropylene. <i>Polymer Bulletin</i> , 2013 , 70, 2005-2014	2.4	19
88	Assessment of Ball Milling as a Compounding Technique to Develop Nanocomposites of Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) and Bacterial Cellulose Nanowhiskers. <i>Journal of Polymers and the Environment</i> , 2016 , 24, 241-254	4.5	19
87	Multiscale mechanical characterization of iPP injection molded samples. <i>European Polymer Journal</i> , 2017 , 90, 79-91	5.2	18
86	Barrier properties of polymer/clay nanocomposites 2006 , 273-296		18
85	Modulation of Biodegradation Rate of Poly(lactic acid) by Silver Nanoparticles. <i>Journal of Polymers and the Environment</i> , 2015 , 23, 316-320	4.5	16
84	Guar gum-based polymer gel electrolyte for dye-sensitized solar cell applications. <i>Solar Energy</i> , 2020 , 208, 160-165	6.8	16
83	Light irradiation tuning of surface wettability, optical, and electric properties of graphene oxide thin films. <i>Nanotechnology</i> , 2017 , 28, 054003	3.4	15

82	Behavior of epoxy composite resins in environments at high moisture content. <i>Journal of Polymer Research</i> , 2013 , 20, 1	2.7	15
81	Controlled release mechanisms of sodium benzoate from a biodegradable polymer and halloysite nanotube composite. <i>Polymer International</i> , 2017 , 66, 690-698	3.3	14
80	Fast cavity surface temperature evolution in injection molding: control of cooling stage and final morphology analysis. <i>RSC Advances</i> , 2016 , 6, 99274-99281	3.7	14
79	Influence of multi-walled carbon nanotubes on the β form crystallization of syndiotactic polystyrene at low temperature. <i>EXPRESS Polymer Letters</i> , 2010 , 4, 339-345	3.4	14
78	Analysis of asymmetric morphology evolutions in iPP molded samples induced by uneven temperature field. <i>AIChE Journal</i> , 2016 , 62, 2699-2712	3.6	14
77	Temperature and pressure evolution in fast heat cycle injection molding. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 422-430	4.1	14
76	Poly(ethylene oxide) polymer matrix coupled with urea as gel electrolyte for dye sensitized solar cell applications. <i>Synthetic Metals</i> , 2017 , 226, 62-70	3.6	13
75	Foaming behavior of bio-based blends based on thermoplastic gelatin and poly(butylene succinate). <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	13
74	Carbon-Based Aeronautical Epoxy Nanocomposites: Effectiveness of Atomic Force Microscopy (AFM) in Investigating the Dispersion of Different Carbonaceous Nanoparticles. <i>Polymers</i> , 2019 , 11,	4.5	12
73	Synergistic effect of lactic acid oligomers and laminar graphene sheets on the barrier properties of polylactide nanocomposites obtained by the in situ polymerization pre-incorporation method. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	12
72	Evidence of Bipolar Resistive Switching Memory in Perovskite Solar Cell. <i>IEEE Journal of the Electron Devices Society</i> , 2018 , 6, 454-463	2.3	11
71	Polymer Crystallization Under High Cooling Rate and Pressure: A Step Towards Polymer Processing Conditions 2007 , 329-344		11
70	Evaluation of the Mechanical Properties of Microcapsule-Based Self-Healing Composites. <i>International Journal of Aerospace Engineering</i> , 2016 , 2016, 1-10	0.9	11
69	Hydrophobicity Tuning by the Fast Evolution of Mold Temperature during Injection Molding. <i>Polymers</i> , 2018 , 10,	4.5	10
68	Permeability in Clay/Polyesters Nano-Biocomposites. <i>Green Energy and Technology</i> , 2012 , 237-264	0.6	10
67	Epoxy/MWCNT Composite Based Temperature Sensor with Linear Characteristics. <i>Lecture Notes in Electrical Engineering</i> , 2010 , 241-245	0.2	10
66	Micromechanical Characterization of Complex Polypropylene Morphologies by HarmoniX AFM. <i>International Journal of Polymer Science</i> , 2017 , 2017, 1-12	2.4	9
65	Nanocoatings and ultra-thin films for packaging applications 2011 , 203-234		8

64	Functional structural nanocomposites with integrated self-healing ability. <i>Materials Today: Proceedings</i> , 2021 , 34, 243-249	1.4	8
63	Polyethylene-like macrolactone-based polyesters: Rheological, thermal and barrier properties. <i>Materials Today Communications</i> , 2018 , 17, 380-390	2.5	8
62	Multifunctional Bioactive Resin for Dental Restorative Materials. <i>Polymers</i> , 2020 , 12,	4.5	7
61	Fibrous nanocomposites based on EVA40 filled with Cu nanoparticles and their potential antibacterial action. <i>Materials Today Communications</i> , 2019 , 20, 100581	2.5	7
60	Foam injection molding of poly(lactic acid) with physical blowing agents 2014 ,		7
59	Crystallization of syndiotactic polystyrene under high pressure and cooling rate. <i>Macromolecular Research</i> , 2010 , 18, 1045-1052	1.9	7
58	Two-phase crystallization kinetics of syndiotactic polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2010 , 48, 1757-1766	2.6	7
57	3D printing orthopedic scoliosis braces: a test comparing FDM with thermoforming. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 111, 1707-1720	3.2	7
56	Gelatin/graphene systems for low cost energy storage 2014 ,		6
55	Development of nanostructured thermoregulating textile materials. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 4399-403	1.3	6
54	Melting and zero growth rate temperatures of syndiotactic polystyrene. <i>Colloid and Polymer Science</i> , 2008 , 286, 983-991	2.4	6
53	Design of Multifunctional Composites: New Strategy to Save Energy and Improve Mechanical Performance. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
52	Eco-friendly polymer nanocomposites designed for self-healing applications. <i>Polymer</i> , 2021 , 223, 123718,	3.9	6
51	Synthesis of high polydispersity index polylactic acid and its application as gel electrolyte towards fabrication of dye-sensitized solar cells. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	6
50	Nanohybrid Active Fillers in Food Contact Bio-based Materials 2018 , 71-94		5
49	Preliminary investigation of polystyrene/MoS ₂ -Oleylamine polymer composite for potential application as low-dielectric material in microelectronics 2015 ,		5
48	Process-Induced Morphology Distribution in Injection Molded Syndiotactic Polystyrene Samples. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 10840-10847	3.9	5
47	A novel apparatus for solidification of polymer samples under simultaneous high pressures and high cooling rates. <i>Review of Scientific Instruments</i> , 2005 , 76, 083901	1.7	5

46	The role of flow-induced crystallisation in melt spinning. <i>E-Polymers</i> , 2004 , 4,	2.7	5
45	Bio-based polyurethane foams from renewable resources 2016 ,		5
44	Thermo-Rheological and Shape Memory Properties of Block and Random Copolymers of Lactide and ϵ -Caprolactone. <i>Polymers</i> , 2021 , 13,	4.5	5
43	Solvent-free synthesis of halloysite-layered double hydroxide composites containing salicylate as novel, active fillers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 627, 127135	5.1	5
42	Effect of carbide powder characteristics on the PVT behavior of powder injection molding compounds. <i>Powder Technology</i> , 2013 , 237, 627-633	5.2	4
41	Rapid control of mold temperature during injection molding process: Effect of packing pressure 2015 ,		4
40	The Effect of Hole Fraction on Viscosity in Atactic and Syndiotactic Polystyrenes. <i>International Journal of Thermophysics</i> , 2015 , 36, 3239-3254	2.1	4
39	Polystyrene/MoS ₂ @oleylamine nanocomposites 2014 ,		4
38	Thermoresistive Properties of Graphite Platelet Films Supported by Different Substrates. <i>Materials</i> , 2019 , 12,	3.5	4
37	Characterization of sustainable polyhydroxyls, produced from bio-based feedstock, and polyurethane and copolymer urethane-amide foams. <i>Data in Brief</i> , 2018 , 21, 269-275	1.2	4
36	Flexible eco-friendly multilayer film heaters. <i>Composites Part B: Engineering</i> , 2021 , 224, 109208	10	4
35	Synthesis of Magnetite-Based Polymers as Mercury and Anion Sensors Using Single Electron Transfer-Living Radical Polymerization. <i>ACS Omega</i> , 2020 , 5, 7201-7210	3.9	3
34	Humidity sensing of an epoxy/MWCNT composite by electrical conductivity measurements 2013 ,		3
33	Electrical Characterization and Modeling of a Gelatin/Graphene System. <i>Advances in Condensed Matter Physics</i> , 2015 , 2015, 1-5	1	3
32	The effect of matrix morphology on dynamic-mechanical properties of polypropylene/layered silicate nanocomposites. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2017 , 36, 251	1.1	3
31	Synthesis and characterization of poly-3-(9H-carbazol-9-yl)propylmethacrylate as a gel electrolyte for dye-sensitized solar cell applications. <i>Polymer Bulletin</i> , 2021 , 1	2.4	3
30	Structure, Morphology, and Crystallization Behavior of Syndiotactic Polystyrene 2009 , 155-193		3
29	Synthesis of random copolymer using Zig-Zag Naphthodithiophene for bulk Heterojunction polymer solar cell applications. <i>Journal of Polymer Research</i> , 2020 , 27, 1	2.7	2

28	Application of Epoxy/Carbon Nanotube Composites as Microwave Absorber at Frequencies up to 25 GHz. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 455-459	0.2	2
27	Electrical Noise Characterization of Epoxy/MWCNT Composites. <i>Lecture Notes in Electrical Engineering</i> , 2011 , 49-53	0.2	2
26	Design of self-healing biodegradable polymers. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022 , 1	4.1	2
25	Controlling Drug Release of Anti-inflammatory Molecules Through a pH-Sensitive, Bactericidal Polymer Matrix: Towards a Synergic and Combined Therapy. <i>Lecture Notes in Bioengineering</i> , 2020 , 151-163	0.8	2
24	Influence of the Thermomechanical Characteristics of Low-Density Polyethylene Substrates on the Thermoresistive Properties of Graphite Nanoplatelet Coatings. <i>Coatings</i> , 2021 , 11, 332	2.9	2
23	Tuning the structural and functional properties of HAVOH-based composites via ionic liquid tailoring of MWCNTs distribution. <i>Composites Science and Technology</i> , 2021 , 207, 108742	8.6	2
22	Effect of fast mold surface temperature evolution on iPP part morphology gradients 2016 ,		2
21	Development of aeronautical epoxy nanocomposites having an integrated selfhealing ability. <i>MATEC Web of Conferences</i> , 2018 , 233, 00021	0.3	2
20	Morphology-Mechanical Performance Relationship at the Micrometrical Level within Molded Polypropylene Obtained with Non-Symmetric Mold Temperature Conditioning. <i>Polymers</i> , 2021 , 13,	4.5	2
19	The role of (bio)degradability on the management of petrochemical and bio-based plastic waste.. <i>Journal of Environmental Management</i> , 2022 , 310, 114769	7.9	2
18	Temperature-dependent dielectric properties of a thermoplastic gelatin 2016 ,		1
17	Tribology of Self-Lubricating Polymer Nanocomposites 2018 , 105-131		1
16	Preparation and characterization of conductive foams based on PBS, carbon nanofibers and expanded graphite nanocomposites 2017 ,		1
15	Rapid control of mold temperature during injection molding process 2015 ,		1
14	Thermal and mechanical characterization of complex electrospun systems based on polycaprolactone and gelatin. <i>Journal of Thermal Analysis and Calorimetry</i> ,1	4.1	1
13	Application of Multi Materials Additive Manufacturing Technique in the Design and Manufacturing of Hand Orthoses. <i>Lecture Notes in Computer Science</i> , 2020 , 461-468	0.9	1
12	Graphite platelet films deposited by spray technique on low density polyethylene substrates. <i>Materials Today: Proceedings</i> , 2020 , 20, 87-90	1.4	1
11	Advantages of Polymer Electrolytes Towards Dye-sensitized Solar Cells121-167		1

10	The influence of bio-plastics for food packaging on combined anaerobic digestion and composting treatment of organic municipal waste.. <i>Waste Management</i> , 2022 , 144, 87-97	8.6	1
9	Layered double hydroxide polymer nanocomposites for food-packaging applications 2020 , 743-779		0
8	A Multidisciplinary Approach for the Designing and Realization of Customized High Performance Prostheses by Continuous Fiber Additive Manufacturing. <i>Lecture Notes in Computer Science</i> , 2022 , 379-386	8.9	0
7	Bio-Based and Bio-Inspired Cellular Materials 2015 , 1-37		
6	Structural and Electrical Properties of Graphite Platelet Films Deposited on Low-Density Polyethylene Substrate. <i>Materials Proceedings</i> , 2021 , 4, 38	0.3	
5	Tribology of Self-Lubricating Polymer Nanocomposites 2022 , 147-173		
4	Joule Heating Induced Stabilization of a Resistive Temperature Sensor Based on a Syndiotactic Polystyrene/MWCNT Composite. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 111-117	0.2	
3	Effective carbon dioxide sorption by using phyllosilicate anchored poly(quaternary-ammoniumhydroxidemethyl styrene) nanocomposites. <i>Environmental Technology (United Kingdom)</i> , 2021 , 1-11	2.6	
2	Nanoarchitected conducting polymers: Rational design and relative activity for next-generation supercapacitors 2021 , 27-58		
1	Layered Double Hydroxides as Hosts of Active Molecules for Food Packaging Applications. <i>Series on Chemistry, Energy and the Environment</i> , 2022 , 483-505	0.2	