

# Ilaria Armentano

## 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.

111  
papers

5,859  
citations

40  
h-index

75  
g-index

113  
ext. papers

6,418  
ext. citations

5.9  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
111	Effect of Filler Morphology on the Electrical and Thermal Conductivity of PP/Carbon-Based Nanocomposites. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 196	3	2
110	Polymer Materials for Respiratory Protection: Processing, End Use, and Testing Methods. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 531-548	4.3	21
109	Dielectric Spectroscopy of PP/MWCNT Nanocomposites: Relationship with Crystalline Structure and Injection Molding Condition. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
108	Effect of SWCNT Content and Water Vapor Adsorption on the Electrical Properties of Cellulose Nanocrystal-Based Nanohybrids. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 14901-14910	3.8	5
107	Improving the flexibility and compostability of starch/poly(butylene cyclohexanedicarboxylate)-based blends. <i>Carbohydrate Polymers</i> , <b>2020</b> , 246, 116631	10.3	2
106	Cellulose nanocrystal based multifunctional nanohybrids. <i>Progress in Materials Science</i> , <b>2020</b> , 112, 100668	12.2	58
105	Synergic Effect of Nanolignin and Metal Oxide Nanoparticles into Poly(l-lactide) Bionanocomposites: Material Properties, Antioxidant Activity, and Antibacterial Performance.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 5263-5274	4.1	27
104	Effect of Injection Molding Conditions on Crystalline Structure and Electrical Resistivity of PP/MWCNT Nanocomposites. <i>Polymers</i> , <b>2020</b> , 12,	4.5	7
103	Unpatterned Bioactive Poly(Butylene 1,4-Cyclohexanedicarboxylate)-Based Film Fast Induced Neuronal-Like Differentiation of Human Bone Marrow-Mesenchymal Stem Cells. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	4
102	Recycled leather cutting waste-based boards: thermal, acoustic, hygrothermal and ignitability properties. <i>Journal of Material Cycles and Waste Management</i> , <b>2020</b> , 22, 1339-1351	3.4	3
101	Multifunctional ternary composite films based on PLA and Ag/alginate microbeads: Physical characterization and silver release kinetics. <i>Materials Science and Engineering C</i> , <b>2019</b> , 98, 1159-1168	8.3	12
100	Combined effect of cellulose nanocrystals, carvacrol and oligomeric lactic acid in PLA_PHB polymeric films. <i>Carbohydrate Polymers</i> , <b>2019</b> , 223, 115131	10.3	21
99	Metal Nanoparticles Embedded in Cellulose Nanocrystal Based Films: Material Properties and Post-use Analysis. <i>Biomacromolecules</i> , <b>2018</b> , 19, 2618-2628	6.9	44
98	Nanocomposites Based on Biodegradable Polymers. <i>Materials</i> , <b>2018</b> , 11,	3.5	60
97	Surface Hydrophilicity of Poly(l-Lactide) Acid Polymer Film Changes the Human Adult Adipose Stem Cell Architecture. <i>Polymers</i> , <b>2018</b> , 10,	4.5	20
96	Nanostructured Biopolymer-based Materials for Regenerative Medicine Applications. <i>Current Organic Chemistry</i> , <b>2018</b> , 22, 1193-1204	1.7	7
95	Adipose Stem Cell Translational Applications: From Bench-to-Bedside. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	40

94	Processing, thermo-mechanical characterization and gas permeability of thermoplastic starch/poly(butylene trans-1,4-cyclohexanedicarboxylate) blends. <i>Polymer Degradation and Stability</i> , <b>2018</b> , 157, 100-107	4.7	7
93	Recent Advances in Nanocomposites Based on Aliphatic Polyesters: Design, Synthesis, and Applications in Regenerative Medicine. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1452	2.6	12
92	Functional Properties of Plasticized Bio-Based Poly(Lactic Acid)_Poly(Hydroxybutyrate) (PLA_PHB) Films for Active Food Packaging. <i>Food and Bioprocess Technology</i> , <b>2017</b> , 10, 770-780	5.1	52
91	Processing and characterization of nanocomposite based on poly(butylene/triethylene succinate) copolymers and cellulose nanocrystals. <i>Carbohydrate Polymers</i> , <b>2017</b> , 165, 51-60	10.3	25
90	Multifunctional nanostructured biopolymeric materials for therapeutic applications <b>2017</b> , 107-135		1
89	Recent Advances in Conductive Composites Based on Biodegradable Polymers for Regenerative Medicine Applications <b>2017</b> , 519-542		
88	Design of a nanocomposite substrate inducing adult stem cell assembly and progression toward an Epiblast-like or Primitive Endoderm-like phenotype via mechanotransduction. <i>Biomaterials</i> , <b>2017</b> , 144, 211-229	15.6	18
87	Multifunctional antimicrobial nanocomposites for food packaging applications <b>2017</b> , 265-303		7
86	Skin Tissue Engineering <b>2017</b> , 1408-1423		
85	Relationship between morphology and electrical properties in PP/MWCNT composites: Processing-induced anisotropic percolation threshold. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 180, 284-290	4.4	24
84	In-vitro degradation of PLGA nanoparticles in aqueous medium and in stem cell cultures by monitoring the cargo fluorescence spectrum. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 134, 296-304	4.7	19
83	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. <i>Carbohydrate Polymers</i> , <b>2016</b> , 142, 105-13	10.3	128
82	Antimicrobial Properties and Cytocompatibility of PLGA/Ag Nanocomposites. <i>Materials</i> , <b>2016</b> , 9,	3.5	18
81	Recent Advances in Nanostructured Polymeric Surface: Challenges and Frontiers in Stem Cells <b>2016</b> , 143-165		
80	Cellulose nano-biocomposites from high oleic sunflower oil-derived thermosets. <i>European Polymer Journal</i> , <b>2016</b> , 79, 109-120	5.2	8
79	Effect of SWCNT introduction in random copolymers on material properties and fibroblast long term culture stability. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 132, 220-230	4.7	7
78	Bio-based PLA_PHB plasticized blend films: Processing and structural characterization. <i>LWT - Food Science and Technology</i> , <b>2015</b> , 64, 980-988	5.4	72
77	Design, development and characterization of a nanomagnetic system based on iron oxide nanoparticles encapsulated in PLLA-nanospheres. <i>European Polymer Journal</i> , <b>2015</b> , 62, 145-154	5.2	10

76	Engineering Biodegradable Polymers to Control Their Degradation and Optimize Their Use as Delivery and Theranostic Systems <b>2015</b> , 557-576		
75	Effect of processing techniques on the 3D microstructure of poly (L-lactic acid) scaffolds reinforced with wool keratin from different sources. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	11
74	Use of alginate, chitosan and cellulose nanocrystals as emulsion stabilizers in the synthesis of biodegradable polymeric nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 445, 31-39	9.3	61
73	Keratins extracted from Merino wool and Brown Alpaca fibres: thermal, mechanical and biological properties of PLLA based biocomposites. <i>Materials Science and Engineering C</i> , <b>2015</b> , 47, 394-406	8.3	38
72	Nanostructured polystyrene films engineered by plasma processes: Surface characterization and stem cell interaction. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	10
71	Nano-biocomposite films with modified cellulose nanocrystals and synthesized silver nanoparticles. <i>Carbohydrate Polymers</i> , <b>2014</b> , 101, 1122-33	10.3	136
70	Spin coated cellulose nanocrystal/silver nanoparticle films. <i>Carbohydrate Polymers</i> , <b>2014</b> , 113, 394-402	10.3	18
69	Toward the microstructure-properties relationship in MWCNT/epoxy composites: Percolation behavior and dielectric spectroscopy. <i>Composites Science and Technology</i> , <b>2014</b> , 96, 38-46	8.6	35
68	Thermal and bio-disintegration properties of poly(lactic acid)/natural rubber/organoclay nanocomposites. <i>Applied Clay Science</i> , <b>2014</b> , 93-94, 78-84	5.2	20
67	Inclusion of PLLA nanoparticles in thermosensitive semi-interpenetrating polymer networks. <i>Polymer Degradation and Stability</i> , <b>2014</b> , 108, 280-287	4.7	6
66	The interaction of bacteria with engineered nanostructured polymeric materials: a review. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 410423	2.2	108
65	PVA bio-nanocomposites: a new take-off using cellulose nanocrystals and PLGA nanoparticles. <i>Carbohydrate Polymers</i> , <b>2014</b> , 99, 47-58	10.3	105
64	Structure, gas-barrier properties and overall migration of poly(lactic acid) films coated with hydrogenated amorphous carbon layers. <i>Carbon</i> , <b>2013</b> , 63, 274-282	10.4	40
63	Protein encapsulation in biodegradable polymeric nanoparticles: morphology, fluorescence behaviour and stem cell uptake. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 1204-12	5.5	27
62	Combined effects of Ag nanoparticles and oxygen plasma treatment on PLGA morphological, chemical, and antibacterial properties. <i>Biomacromolecules</i> , <b>2013</b> , 14, 626-36	6.9	47
61	Combined effects of cellulose nanocrystals and silver nanoparticles on the barrier and migration properties of PLA nano-biocomposites. <i>Journal of Food Engineering</i> , <b>2013</b> , 118, 117-124	6	163
60	Multifunctional nanostructured PLA materials for packaging and tissue engineering. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 1720-1747	29.6	421
59	Biodegradable composite scaffolds: a strategy to modulate stem cell behaviour. <i>Recent Patents on Drug Delivery and Formulation</i> , <b>2013</b> , 7, 9-17	1.4	12

58	Integrated PLGA/Ag nanocomposite systems to control the degradation rate and antibacterial properties. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 130, 1185-1193	2.9	28
57	Nanocomposites Based on PLLA and Multi Walled Carbon Nanotubes Support the Myogenic Differentiation of Murine Myoblast Cell Line <b>2013</b> , 2013, 1-8		6
56	Stem cell-biomaterial interactions for regenerative medicine. <i>Biotechnology Advances</i> , <b>2012</b> , 30, 338-51	17.8	157
55	New multifunctional poly(lactide acid) composites: Mechanical, antibacterial, and degradation properties. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 124, 87-98	2.9	75
54	Morphological and thermal behavior of porous biopolymeric nanoparticles. <i>European Polymer Journal</i> , <b>2012</b> , 48, 1152-1159	5.2	25
53	Effects of modified cellulose nanocrystals on the barrier and migration properties of PLA nano-biocomposites. <i>Carbohydrate Polymers</i> , <b>2012</b> , 90, 948-56	10.3	357
52	Tuning multi/pluri-potent stem cell fate by electrospun poly(L-lactic acid)-calcium-deficient hydroxyapatite nanocomposite mats. <i>Biomacromolecules</i> , <b>2012</b> , 13, 1350-60	6.9	82
51	Biodegradable Composite Scaffolds: A Strategy to Modulate Stem Cell Behaviour. <i>Recent Patents on Drug Delivery and Formulation</i> , <b>2012</b> , 7, 9-17	1.4	
50	Biocompatible poly(L-lactide)/MWCNT nanocomposites: morphological characterization, electrical properties, and stem cell interaction. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 870-81	5.5	44
49	Plasma surface modification of porous PLLA films: Analysis of surface properties and in vitro hydrolytic degradation. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 125, E239-E247	2.9	23
48	Multifunctional bionanocomposite films of poly(lactic acid), cellulose nanocrystals and silver nanoparticles. <i>Carbohydrate Polymers</i> , <b>2012</b> , 87, 1596-1605	10.3	458
47	Enhancing osteoconduction of PLLA-based nanocomposite scaffolds for bone regeneration using different biomimetic signals to MSCs. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 2439-58	6.3	33
46	Dielectric properties at microwave frequencies of poly( $\epsilon$ -caprolactone)/CNF films and electrospun mats. <i>Synthetic Metals</i> , <b>2011</b> , 161, 911-918	3.6	5
45	PLGA/Ag nanocomposites: in vitro degradation study and silver ion release. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 2735-44	4.5	44
44	Production and properties of solvent-cast poly( $\epsilon$ -caprolactone) composites with carbon nanostructures. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 119, 3544-3552	2.9	16
43	Novel poly(L-lactide) PLLA/SWNTs nanocomposites for biomedical applications: material characterization and biocompatibility evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2011</b> , 22, 541-56	3.5	30
42	Carbon nanotubes and silver nanoparticles for multifunctional conductive biopolymer composites. <i>Carbon</i> , <b>2011</b> , 49, 2370-2379	10.4	65
41	Mechanotransduction: tuning stem cells fate. <i>Journal of Functional Biomaterials</i> , <b>2011</b> , 2, 67-87	4.8	38

40	Microstructure and Cytocompatibility of Electrospun Nanocomposites Based on Poly( $\epsilon$ -Caprolactone) and Carbon Nanostructures. <i>International Journal of Artificial Organs</i> , <b>2010</b> , 33, 271-282	1.9	23
39	Microstructure and cytocompatibility of electrospun nanocomposites based on poly( $\epsilon$ -caprolactone) and carbon nanostructures. <i>International Journal of Artificial Organs</i> , <b>2010</b> , 33, 271-82	1.9	3
38	Hydrogenated amorphous carbon nanopatterned film designs drive human bone marrow mesenchymal stem cell cytoskeleton architecture. <i>Tissue Engineering - Part A</i> , <b>2009</b> , 15, 3139-49	3.9	49
37	Role of PLLA plasma surface modification in the interaction with human marrow stromal cells. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 114, 3602-3611	2.9	36
36	Processing and properties of poly( $\epsilon$ -caprolactone)/carbon nanofibre composite mats and films obtained by electrospinning and solvent casting. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 4789-4795	4.3	30
35	Electrospun poly( $\epsilon$ -caprolactone)/Ca-deficient hydroxyapatite nanohybrids: Microstructure, mechanical properties and cell response by murine embryonic stem cells. <i>Materials Science and Engineering C</i> , <b>2009</b> , 29, 2063-2071	8.3	64
34	Effects of carbon nanotubes (CNTs) on the processing and in-vitro degradation of poly(DL-lactide-co-glycolide)/CNT films. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2377-87	4.5	64
33	Analysis of the biomineralization process on SWNT-COOH and F-SWNT films. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 1522-1529	8.3	24
32	Synthesis and photoelectrical properties of carbon nanotube dendritic porphyrin light harvesting molecule systems. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 658-663	3.5	24
31	Enhancement of photoelectrical properties in polymer nanocomposites containing modified single-walled carbon nanotubes by conducting dendrimer. <i>Journal of Applied Physics</i> , <b>2006</b> , 99, 114305	2.5	13
30	Selective interaction of single-walled carbon nanotubes with conducting dendrimer. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 95-99	3.5	14
29	Modification of fluorinated single-walled carbon nanotubes with aminosilane molecules. <i>Carbon</i> , <b>2006</b> , 44, 2196-2201	10.4	54
28	Vacancy-induced chemisorption of NO <sub>2</sub> on carbon nanotubes: a combined theoretical and experimental study. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 13175-9	3.4	41
27	Interaction of oxygen with nanocomposites made of n-type conducting polymers and carbon nanotubes: role of charge transfer complex formation between nanotubes and poly(3-octylthiophene). <i>Thin Solid Films</i> , <b>2005</b> , 476, 162-167	2.2	9
26	Sidewall functionalization of single-walled carbon nanotubes through CF <sub>4</sub> plasma treatment and subsequent reaction with aliphatic amines. <i>Chemical Physics Letters</i> , <b>2005</b> , 403, 385-389	2.5	85
25	Electrically switchable carbon nanotubes hydrophobic surfaces. <i>Diamond and Related Materials</i> , <b>2005</b> , 14, 121-124	3.5	14
24	Chemical gating and photoconductivity of CF <sub>4</sub> plasma-functionalized single-walled carbon nanotubes with adsorbed butylamine. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 114320	2.5	14
23	Interaction of methane with carbon nanotube thin films: role of defects and oxygen adsorption. <i>Materials Science and Engineering C</i> , <b>2004</b> , 24, 527-533	8.3	39

22	Carbon nanotubes as new materials for gas sensing applications. <i>Journal of the European Ceramic Society</i> , <b>2004</b> , 24, 1405-1408	6	115
21	Dielectric behavior of epoxy matrix/single-walled carbon nanotube composites. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 23-33	8.6	71
20	A deeper understanding of the photodesorption mechanism of aligned carbon nanotube thin films by impedance spectroscopy. <i>Thin Solid Films</i> , <b>2004</b> , 449, 105-112	2.2	17
19	Effects of oxygen annealing on cross sensitivity of carbon nanotubes thin films for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 100, 33-40	8.5	35
18	Sensors for inorganic vapor detection based on carbon nanotubes and poly(o-anisidine) nanocomposite material. <i>Chemical Physics Letters</i> , <b>2004</b> , 383, 617-622	2.5	125
17	Role of defects on the gas sensing properties of carbon nanotubes thin films: experiment and theory. <i>Chemical Physics Letters</i> , <b>2004</b> , 387, 356-361	2.5	113
16	Synthesis and electrical properties of CdS Langmuir-Blodgett multilayers nanoparticles on self-assembled carbon nanotubes. <i>Chemical Physics Letters</i> , <b>2004</b> , 392, 214-219	2.5	5
15	Dynamics of amine functionalized nanotubes/epoxy composites by dielectric relaxation spectroscopy. <i>Carbon</i> , <b>2004</b> , 42, 323-329	10.4	68
14	AC conductivity of conjugated polymer onto self-assembled aligned carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 250-255	3.5	11
13	Highly sensitive and selective sensors based on carbon nanotubes thin films for molecular detection. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 1301-1305	3.5	125
12	Controllable fabrication of aligned carbon nanotubes by pulsed plasma: selective positioning and electrical transport phenomena. <i>Materials Letters</i> , <b>2004</b> , 58, 470-473	3.3	9
11	NO <sub>2</sub> gas sensitivity of carbon nanotubes obtained by plasma enhanced chemical vapor deposition. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 93, 333-337	8.5	150
10	Sensitivity to NO <sub>2</sub> and cross-sensitivity analysis to NH <sub>3</sub> , ethanol and humidity of carbon nanotubes thin film prepared by PECVD. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 95, 195-202	8.5	118
9	Reversible oxidation effects on carbon nanotubes thin films for gas sensing applications. <i>Materials Science and Engineering C</i> , <b>2003</b> , 23, 523-529	8.3	77
8	Effects of oxygen annealing on gas sensing properties of carbon nanotube thin films. <i>Thin Solid Films</i> , <b>2003</b> , 436, 95-100	2.2	65
7	Effects of single-walled carbon nanotube incorporation on the cure reaction of epoxy resin and its detection by Raman spectroscopy. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 827-832	3.5	102
6	Effect of catalyst layer thickness and Ar dilution on the plasma deposition of multi-walled carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 821-826	3.5	11
5	Frequency dependent electrical transport between conjugated polymer and single-walled carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1601-1609	3.5	32

4	Sensors for sub-ppm NO <sub>2</sub> gas detection based on carbon nanotube thin films. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 961-963	3-4	434
3	Electrical transport properties of conjugated polymer onto self-assembled aligned carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2003</b> , 12, 1524-1531	3-5	9
2	Effects of fluorine incorporation on the properties of amorphous carbon/p-type crystalline silicon heterojunction diodes. <i>Journal of Non-Crystalline Solids</i> , <b>2003</b> , 321, 175-182	3-9	16
1	Pulsed plasma-induced alignment of carbon nanotubes. <i>Materials Letters</i> , <b>2003</b> , 57, 3699-3704	3-3	13