

Ilaria Armentano

List of Publications by Citations

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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	Multifunctional bionanocomposite films of poly(lactic acid), cellulose nanocrystals and silver nanoparticles. <i>Carbohydrate Polymers</i> , 2012 , 87, 1596-1605	10.3	458
110	Sensors for sub-ppm NO ₂ gas detection based on carbon nanotube thin films. <i>Applied Physics Letters</i> , 2003 , 82, 961-963	3.4	434
109	Multifunctional nanostructured PLA materials for packaging and tissue engineering. <i>Progress in Polymer Science</i> , 2013 , 38, 1720-1747	29.6	421
108	Effects of modified cellulose nanocrystals on the barrier and migration properties of PLA nano-biocomposites. <i>Carbohydrate Polymers</i> , 2012 , 90, 948-56	10.3	357
107	Combined effects of cellulose nanocrystals and silver nanoparticles on the barrier and migration properties of PLA nano-biocomposites. <i>Journal of Food Engineering</i> , 2013 , 118, 117-124	6	163
106	Stem cell-biomaterial interactions for regenerative medicine. <i>Biotechnology Advances</i> , 2012 , 30, 338-51	17.8	157
105	NO ₂ gas sensitivity of carbon nanotubes obtained by plasma enhanced chemical vapor deposition. <i>Sensors and Actuators B: Chemical</i> , 2003 , 93, 333-337	8.5	150
104	Nano-biocomposite films with modified cellulose nanocrystals and synthesized silver nanoparticles. <i>Carbohydrate Polymers</i> , 2014 , 101, 1122-33	10.3	136
103	PLLA-grafted cellulose nanocrystals: Role of the CNC content and grafting on the PLA bionanocomposite film properties. <i>Carbohydrate Polymers</i> , 2016 , 142, 105-13	10.3	128
102	Sensors for inorganic vapor detection based on carbon nanotubes and poly(o-anisidine) nanocomposite material. <i>Chemical Physics Letters</i> , 2004 , 383, 617-622	2.5	125
101	Highly sensitive and selective sensors based on carbon nanotubes thin films for molecular detection. <i>Diamond and Related Materials</i> , 2004 , 13, 1301-1305	3.5	125
100	Sensitivity to NO ₂ and cross-sensitivity analysis to NH ₃ , ethanol and humidity of carbon nanotubes thin film prepared by PECVD. <i>Sensors and Actuators B: Chemical</i> , 2003 , 95, 195-202	8.5	118
99	Carbon nanotubes as new materials for gas sensing applications. <i>Journal of the European Ceramic Society</i> , 2004 , 24, 1405-1408	6	115
98	Role of defects on the gas sensing properties of carbon nanotubes thin films: experiment and theory. <i>Chemical Physics Letters</i> , 2004 , 387, 356-361	2.5	113
97	The interaction of bacteria with engineered nanostructured polymeric materials: a review. <i>Scientific World Journal, The</i> , 2014 , 2014, 410423	2.2	108
96	PVA bio-nanocomposites: a new take-off using cellulose nanocrystals and PLGA nanoparticles. <i>Carbohydrate Polymers</i> , 2014 , 99, 47-58	10.3	105
95	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> , 2003 , 12, 827-832	3.5	102

94	Sidewall functionalization of single-walled carbon nanotubes through CF ₄ plasma treatment and subsequent reaction with aliphatic amines. <i>Chemical Physics Letters</i> , 2005 , 403, 385-389	2.5	85
93	Tuning multi/pluri-potent stem cell fate by electrospun poly(L-lactic acid)-calcium-deficient hydroxyapatite nanocomposite mats. <i>Biomacromolecules</i> , 2012 , 13, 1350-60	6.9	82
92	Reversible oxidation effects on carbon nanotubes thin films for gas sensing applications. <i>Materials Science and Engineering C</i> , 2003 , 23, 523-529	8.3	77
91	New multifunctional poly(lactide acid) composites: Mechanical, antibacterial, and degradation properties. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 87-98	2.9	75
90	Bio-based PLA_PHB plasticized blend films: Processing and structural characterization. <i>LWT - Food Science and Technology</i> , 2015 , 64, 980-988	5.4	72
89	Dielectric behavior of epoxy matrix/single-walled carbon nanotube composites. <i>Composites Science and Technology</i> , 2004 , 64, 23-33	8.6	71
88	Dynamics of amine functionalized nanotubes/epoxy composites by dielectric relaxation spectroscopy. <i>Carbon</i> , 2004 , 42, 323-329	10.4	68
87	Carbon nanotubes and silver nanoparticles for multifunctional conductive biopolymer composites. <i>Carbon</i> , 2011 , 49, 2370-2379	10.4	65
86	Effects of oxygen annealing on gas sensing properties of carbon nanotube thin films. <i>Thin Solid Films</i> , 2003 , 436, 95-100	2.2	65
85	Electrospun poly(ε-caprolactone)/Ca-deficient hydroxyapatite nanohybrids: Microstructure, mechanical properties and cell response by murine embryonic stem cells. <i>Materials Science and Engineering C</i> , 2009 , 29, 2063-2071	8.3	64
84	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> , 2008 , 19, 2371-2377	4.5	64
83	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> , 2015 , 445, 31-39	9.3	61
82	Nanocomposites Based on Biodegradable Polymers. <i>Materials</i> , 2018 , 11,	3.5	60
81	Cellulose nanocrystal based multifunctional nanohybrids. <i>Progress in Materials Science</i> , 2020 , 112, 100668	2.2	58
80	Modification of fluorinated single-walled carbon nanotubes with aminosilane molecules. <i>Carbon</i> , 2006 , 44, 2196-2201	10.4	54
79	Functional Properties of Plasticized Bio-Based Poly(Lactic Acid)_Poly(Hydroxybutyrate) (PLA_PHB) Films for Active Food Packaging. <i>Food and Bioprocess Technology</i> , 2017 , 10, 770-780	5.1	52
78	Hydrogenated amorphous carbon nanopatterned film designs drive human bone marrow mesenchymal stem cell cytoskeleton architecture. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3139-49	3.9	49
77	Combined effects of Ag nanoparticles and oxygen plasma treatment on PLGA morphological, chemical, and antibacterial properties. <i>Biomacromolecules</i> , 2013 , 14, 626-36	6.9	47

76	Metal Nanoparticles Embedded in Cellulose Nanocrystal Based Films: Material Properties and Post-use Analysis. <i>Biomacromolecules</i> , 2018 , 19, 2618-2628	6.9	44
75	Biocompatible poly(L-lactide)/MWCNT nanocomposites: morphological characterization, electrical properties, and stem cell interaction. <i>Macromolecular Bioscience</i> , 2012 , 12, 870-81	5.5	44
74	PLGA/Ag nanocomposites: in vitro degradation study and silver ion release. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 2735-44	4.5	44
73	Vacancy-induced chemisorption of NO ₂ on carbon nanotubes: a combined theoretical and experimental study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13175-9	3.4	41
72	Structure, gas-barrier properties and overall migration of poly(lactic acid) films coated with hydrogenated amorphous carbon layers. <i>Carbon</i> , 2013 , 63, 274-282	10.4	40
71	Adipose Stem Cell Translational Applications: From Bench-to-Bedside. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	40
70	Interaction of methane with carbon nanotube thin films: role of defects and oxygen adsorption. <i>Materials Science and Engineering C</i> , 2004 , 24, 527-533	8.3	39
69	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> , 2015 , 47, 394-406	8.3	38
68	Mechanotransduction: tuning stem cells fate. <i>Journal of Functional Biomaterials</i> , 2011 , 2, 67-87	4.8	38
67	Role of PLLA plasma surface modification in the interaction with human marrow stromal cells. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 3602-3611	2.9	36
66	Toward the microstructure-properties relationship in MWCNT/epoxy composites: Percolation behavior and dielectric spectroscopy. <i>Composites Science and Technology</i> , 2014 , 96, 38-46	8.6	35
65	Effects of oxygen annealing on cross sensitivity of carbon nanotubes thin films for gas sensing applications. <i>Sensors and Actuators B: Chemical</i> , 2004 , 100, 33-40	8.5	35
64	Enhancing osteoconduction of PLLA-based nanocomposite scaffolds for bone regeneration using different biomimetic signals to MSCs. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 2439-58	6.3	33
63	Frequency dependent electrical transport between conjugated polymer and single-walled carbon nanotubes. <i>Diamond and Related Materials</i> , 2003 , 12, 1601-1609	3.5	32
62	Novel poly(L-lactide) PLLA/SWNTs nanocomposites for biomedical applications: material characterization and biocompatibility evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011 , 22, 541-56	3.5	30
61	Processing and properties of poly(ε-caprolactone)/carbon nanofibre composite mats and films obtained by electrospinning and solvent casting. <i>Journal of Materials Science</i> , 2009 , 44, 4789-4795	4.3	30
60	Integrated PLGA/Ag nanocomposite systems to control the degradation rate and antibacterial properties. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 1185-1193	2.9	28
59	Protein encapsulation in biodegradable polymeric nanoparticles: morphology, fluorescence behaviour and stem cell uptake. <i>Macromolecular Bioscience</i> , 2013 , 13, 1204-12	5.5	27

58	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> , 2020 , 3, 5263-5274	4.1	27
57	Processing and characterization of nanocomposite based on poly(butylene/triethylene succinate) copolymers and cellulose nanocrystals. <i>Carbohydrate Polymers</i> , 2017 , 165, 51-60	10.3	25
56	Morphological and thermal behavior of porous biopolymeric nanoparticles. <i>European Polymer Journal</i> , 2012 , 48, 1152-1159	5.2	25
55	Relationship between morphology and electrical properties in PP/MWCNT composites: Processing-induced anisotropic percolation threshold. <i>Materials Chemistry and Physics</i> , 2016 , 180, 284-290	4.4	24
54	Synthesis and photoelectrical properties of carbon nanotube dendritic porphyrin light harvesting molecule systems. <i>Diamond and Related Materials</i> , 2007 , 16, 658-663	3.5	24
53	Analysis of the biomineralization process on SWNT-COOH and F-SWNT films. <i>Materials Science and Engineering C</i> , 2008 , 28, 1522-1529	8.3	24
52	Plasma surface modification of porous PLLA films: Analysis of surface properties and in vitro hydrolytic degradation. <i>Journal of Applied Polymer Science</i> , 2012 , 125, E239-E247	2.9	23
51	Microstructure and Cytocompatibility of Electrospun Nanocomposites Based on Poly(ϵ -Caprolactone) and Carbon Nanostructures. <i>International Journal of Artificial Organs</i> , 2010 , 33, 271-282	1.9	23
50	Combined effect of cellulose nanocrystals, carvacrol and oligomeric lactic acid in PLA_PHB polymeric films. <i>Carbohydrate Polymers</i> , 2019 , 223, 115131	10.3	21
49	Polymer Materials for Respiratory Protection: Processing, End Use, and Testing Methods. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 531-548	4.3	21
48	Surface Hydrophilicity of Poly(l-Lactide) Acid Polymer Film Changes the Human Adult Adipose Stem Cell Architecture. <i>Polymers</i> , 2018 , 10,	4.5	20
47	Thermal and bio-disintegration properties of poly(lactic acid)/natural rubber/organoclay nanocomposites. <i>Applied Clay Science</i> , 2014 , 93-94, 78-84	5.2	20
46	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> , 2016 , 134, 296-304	4.7	19
45	Spin coated cellulose nanocrystal/silver nanoparticle films. <i>Carbohydrate Polymers</i> , 2014 , 113, 394-402	10.3	18
44	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> , 2017 , 144, 211-229	15.6	18
43	Antimicrobial Properties and Cytocompatibility of PLGA/Ag Nanocomposites. <i>Materials</i> , 2016 , 9,	3.5	18
42	A deeper understanding of the photodesorption mechanism of aligned carbon nanotube thin films by impedance spectroscopy. <i>Thin Solid Films</i> , 2004 , 449, 105-112	2.2	17
41	Production and properties of solvent-cast poly(ϵ -caprolactone) composites with carbon nanostructures. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 3544-3552	2.9	16

40	Effects of fluorine incorporation on the properties of amorphous carbon/p-type crystalline silicon heterojunction diodes. <i>Journal of Non-Crystalline Solids</i> , 2003 , 321, 175-182	3.9	16
39	Selective interaction of single-walled carbon nanotubes with conducting dendrimer. <i>Diamond and Related Materials</i> , 2006 , 15, 95-99	3.5	14
38	Electrically switchable carbon nanotubes hydrophobic surfaces. <i>Diamond and Related Materials</i> , 2005 , 14, 121-124	3.5	14
37	Chemical gating and photoconductivity of CF ₄ plasma-functionalized single-walled carbon nanotubes with adsorbed butylamine. <i>Journal of Applied Physics</i> , 2005 , 97, 114320	2.5	14
36	Enhancement of photoelectrical properties in polymer nanocomposites containing modified single-walled carbon nanotubes by conducting dendrimer. <i>Journal of Applied Physics</i> , 2006 , 99, 114305	2.5	13
35	Pulsed plasma-induced alignment of carbon nanotubes. <i>Materials Letters</i> , 2003 , 57, 3699-3704	3.3	13
34	Multifunctional ternary composite films based on PLA and Ag/alginate microbeads: Physical characterization and silver release kinetics. <i>Materials Science and Engineering C</i> , 2019 , 98, 1159-1168	8.3	12
33	Biodegradable composite scaffolds: a strategy to modulate stem cell behaviour. <i>Recent Patents on Drug Delivery and Formulation</i> , 2013 , 7, 9-17	1.4	12
32	Recent Advances in Nanocomposites Based on Aliphatic Polyesters: Design, Synthesis, and Applications in Regenerative Medicine. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1452	2.6	12
31	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> , 2015 , 132, n/a-n/a	2.9	11
30	AC conductivity of conjugated polymer onto self-assembled aligned carbon nanotubes. <i>Diamond and Related Materials</i> , 2004 , 13, 250-255	3.5	11
29	Effect of catalyst layer thickness and Ar dilution on the plasma deposition of multi-walled carbon nanotubes. <i>Diamond and Related Materials</i> , 2003 , 12, 821-826	3.5	11
28	Design, development and characterization of a nanomagnetic system based on iron oxide nanoparticles encapsulated in PLLA-nanospheres. <i>European Polymer Journal</i> , 2015 , 62, 145-154	5.2	10
27	Nanostructured polystyrene films engineered by plasma processes: Surface characterization and stem cell interaction. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	10
26	Electrical transport properties of conjugated polymer onto self-assembled aligned carbon nanotubes. <i>Diamond and Related Materials</i> , 2003 , 12, 1524-1531	3.5	9
25	Controllable fabrication of aligned carbon nanotubes by pulsed plasma: selective positioning and electrical transport phenomena. <i>Materials Letters</i> , 2004 , 58, 470-473	3.3	9
24	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> , 2005 , 476, 162-167	2.2	9
23	Cellulose nano-biocomposites from high oleic sunflower oil-derived thermosets. <i>European Polymer Journal</i> , 2016 , 79, 109-120	5.2	8

22	Multifunctional antimicrobial nanocomposites for food packaging applications 2017 , 265-303		7
21	Nanostructured Biopolymer-based Materials for Regenerative Medicine Applications. <i>Current Organic Chemistry</i> , 2018 , 22, 1193-1204	1.7	7
20	Effect of Injection Molding Conditions on Crystalline Structure and Electrical Resistivity of PP/MWCNT Nanocomposites. <i>Polymers</i> , 2020 , 12,	4.5	7
19	Effect of SWCNT introduction in random copolymers on material properties and fibroblast long term culture stability. <i>Polymer Degradation and Stability</i> , 2016 , 132, 220-230	4.7	7
18	Processing, thermo-mechanical characterization and gas permeability of thermoplastic starch/poly(butylene trans-1,4-cyclohexanedicarboxylate) blends. <i>Polymer Degradation and Stability</i> , 2018 , 157, 100-107	4.7	7
17	Inclusion of PLLA nanoparticles in thermosensitive semi-interpenetrating polymer networks. <i>Polymer Degradation and Stability</i> , 2014 , 108, 280-287	4.7	6
16	Nanocomposites Based on PLLA and Multi Walled Carbon Nanotubes Support the Myogenic Differentiation of Murine Myoblast Cell Line 2013 , 2013, 1-8		6
15	Dielectric Spectroscopy of PP/MWCNT Nanocomposites: Relationship with Crystalline Structure and Injection Molding Condition. <i>Nanomaterials</i> , 2021 , 11,	5.4	6
14	Effect of SWCNT Content and Water Vapor Adsorption on the Electrical Properties of Cellulose Nanocrystal-Based Nanohybrids. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14901-14910	3.8	5
13	Dielectric properties at microwave frequencies of poly(ϵ -caprolactone)/CNF films and electrospun mats. <i>Synthetic Metals</i> , 2011 , 161, 911-918	3.6	5
12	Synthesis and electrical properties of CdS Langmuir-Blodgett multilayers nanoparticles on self-assembled carbon nanotubes. <i>Chemical Physics Letters</i> , 2004 , 392, 214-219	2.5	5
11	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> , 2020 , 21,	6.3	4
10	Recycled leather cutting waste-based boards: thermal, acoustic, hygrothermal and ignitability properties. <i>Journal of Material Cycles and Waste Management</i> , 2020 , 22, 1339-1351	3.4	3
9	Microstructure and cytocompatibility of electrospun nanocomposites based on poly(ϵ -caprolactone) and carbon nanostructures. <i>International Journal of Artificial Organs</i> , 2010 , 33, 271-82	1.9	3
8	Improving the flexibility and compostability of starch/poly(butylene cyclohexanedicarboxylate)-based blends. <i>Carbohydrate Polymers</i> , 2020 , 246, 116631	10.3	2
7	Effect of Filler Morphology on the Electrical and Thermal Conductivity of PP/Carbon-Based Nanocomposites. <i>Journal of Composites Science</i> , 2021 , 5, 196	3	2
6	Multifunctional nanostructured biopolymeric materials for therapeutic applications 2017 , 107-135		1
5	Recent Advances in Conductive Composites Based on Biodegradable Polymers for Regenerative Medicine Applications 2017 , 519-542		

- 4 Engineering Biodegradable Polymers to Control Their Degradation and Optimize Their Use as Delivery and Theranostic Systems **2015**, 557-576
- 3 Biodegradable Composite Scaffolds: A Strategy to Modulate Stem Cell Behaviour. *Recent Patents on Drug Delivery and Formulation*, **2012**, 7, 9-17 1.4
- 2 Skin Tissue Engineering **2017**, 1408-1423
- 1 Recent Advances in Nanostructured Polymeric Surface: Challenges and Frontiers in Stem Cells **2016**, 143-165