

# Maria Emanuela Errico

## List of Publications by Year in descending order

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83  
papers

4,352  
citations

126708

33  
h-index

106150

65  
g-index

85  
all docs

85  
docs citations

85  
times ranked

5018  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biodegradable starch/clay nanocomposite films for food packaging applications. Food Chemistry, 2005, 93, 467-474.	4.2	779
2	Natural fiber eco-composites. Polymer Composites, 2007, 28, 98-107.	2.3	414
3	Atypical Structural and Electronic Features of a Melanin Polymer That Lead to Superior Free Radical Scavenging Properties. Angewandte Chemie - International Edition, 2013, 52, 12684-12687.	7.2	284
4	Novel PMMA/CaCO <sub>3</sub> Nanocomposites Abrasion Resistant Prepared by an in Situ Polymerization Process. Nano Letters, 2001, 1, 213-217.	4.5	187
5	A multitechnique approach to assess the effect of ball milling on cellulose. Carbohydrate Polymers, 2012, 87, 265-273.	5.1	173
6	Eco-Challenges of Bio-Based Polymer Composites. Materials, 2009, 2, 911-925.	1.3	144
7	Poly(lactic acid)-based biocomposites reinforced with kenaf fibers. Journal of Applied Polymer Science, 2008, 108, 3542-3551.	1.3	132
8	Title is missing!. Journal of Materials Science, 2002, 37, 2351-2358.	1.7	116
9	Nucleation activity of nanosized CaCO <sub>3</sub> on crystallization of isotactic polypropylene, in dependence on crystal modification, particle shape, and coating. European Polymer Journal, 2006, 42, 1548-1557.	2.6	101
10	Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-based biocomposites reinforced with kenaf fibers. Journal of Applied Polymer Science, 2007, 104, 3192-3200.	1.3	99
11	Design of pectin-sodium alginate based films for potential healthcare application: Study of chemico-physical interactions between the components of films and assessment of their antimicrobial activity. Carbohydrate Polymers, 2017, 157, 981-990.	5.1	89
12	Preparation of biodegradable polyesters/high-amylose-starch composites by reactive blending and their characterization. Journal of Applied Polymer Science, 2002, 83, 1432-1442.	1.3	80
13	Influence of CaCO <sub>3</sub> nanoparticles shape on thermal and crystallization behavior of isotactic polypropylene based nanocomposites. Journal of Thermal Analysis and Calorimetry, 2005, 80, 131-136.	2.0	70
14	Poly( $\mu$ -caprolactone)-based nanocomposites: Influence of compatibilization on properties of poly( $\mu$ -caprolactone)-silica nanocomposites. Composites Science and Technology, 2006, 66, 886-894.	3.8	70
15	Plasticization of poly(lactic acid) through blending with oligomers of lactic acid: Effect of the physical aging on properties. European Polymer Journal, 2015, 66, 533-542.	2.6	64
16	Preparation methodologies of polymer matrix nanocomposites. Applied Organometallic Chemistry, 2001, 15, 435-439.	1.7	63
17	Pectin based finishing to mitigate the impact of microplastics released by polyamide fabrics. Carbohydrate Polymers, 2018, 198, 175-180.	5.1	59
18	Tuning of polyurethane foam mechanical and thermal properties using ball-milled cellulose. Carbohydrate Polymers, 2020, 231, 115772.	5.1	53

#	ARTICLE	IF	CITATIONS
19	Amorphized cellulose as filler in biocomposites based on poly( $\epsilon$ -caprolactone). Carbohydrate Polymers, 2015, 118, 170-182.	5.1	48
20	Innovative packaging for minimally processed fruits. Packaging Technology and Science, 2007, 20, 325-335.	1.3	45
21	Amino-functionalized hyper-crosslinked resins for enhanced adsorption of carbon dioxide and polar dyes. Chemical Engineering Journal, 2021, 418, 129463.	6.6	44
22	Recycling of polypropylene-based eco-composites. Polymer International, 2008, 57, 1252-1257.	1.6	43
23	Polymer-filler interactions in PET/CaCO <sub>3</sub> nanocomposites: Chain ordering at the interface and physical properties. European Polymer Journal, 2013, 49, 419-427.	2.6	42
24	A Versatile Synthetic Approach toward Hyper-Cross-Linked Styrene-Based Polymers and Nanocomposites. Macromolecules, 2017, 50, 4132-4143.	2.2	42
25	Poly(hydroxybutyrate-co-hydroxyvalerate)/titanium dioxide nanocomposites: A degradation study. Journal of Applied Polymer Science, 2009, 114, 3118-3124.	1.3	40
26	Synthesis and characterization of poly(methylmethacrylate)/silica nanocomposites: Study of the interphase by solid-state NMR and structure/properties relationships. Journal of Polymer Science Part A, 2010, 48, 5618-5629.	2.5	38
27	Preparation of PHBV/starch blends by reactive blending and their characterization. Journal of Applied Polymer Science, 2000, 77, 232-236.	1.3	37
28	Crystallization behavior and properties of exfoliated isotactic polypropylene/organoclay nanocomposites. Advances in Polymer Technology, 2005, 24, 132-144.	0.8	37
29	Recycling Polyethylene-Rich Plastic Waste from Landfill Reclamation: Toward an Enhanced Landfill-Mining Approach. Polymers, 2019, 11, 208.	2.0	37
30	iPP Based Nanocomposites Filled with Calcium Carbonate Nanoparticles: Structure/Properties Relationships. Macromolecular Symposia, 2006, 234, 156-162.	0.4	35
31	PLA-based plasticized nanocomposites: Effect of polymer/plasticizer/filler interactions on the time evolution of properties. Composites Part B: Engineering, 2018, 152, 267-274.	5.9	35
32	Poly(butylene terephthalate)/poly( $\epsilon$ -caprolactone) blends: Miscibility and thermal and mechanical properties. Polymer Engineering and Science, 2007, 47, 323-329.	1.5	34
33	Functional hyper-crosslinked resins with tailored adsorption properties for environmental applications. Chemical Engineering Journal, 2019, 362, 497-503.	6.6	34
34	Polyvinyl alcohol biodegradable foams containing cellulose fibres. Journal of Cellular Plastics, 2012, 48, 459-470.	1.2	32
35	Effect of cellulose structure and morphology on the properties of poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 102 Td (	5.1	32
36	Synthesis and adsorption study of hyper-crosslinked styrene-based nanocomposites containing multi-walled carbon nanotubes. RSC Advances, 2017, 7, 6865-6874.	1.7	31

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37	Rice straw as an alternative reinforcement in polypropylene composites. <i>Agronomy for Sustainable Development</i> , 2006, 26, 251-255.	2.2	31
38	Nonisothermal crystallization kinetics of kenaf fiber/polypropylene composites. <i>Polymer Engineering and Science</i> , 2007, 47, 745-749.	1.5	30
39	Effect of compatibilization on thermal degradation kinetics of HDPE-based composites containing cellulose reinforcements. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 102, 975-982.	2.0	30
40	A melanin-inspired pro-oxidant system for dopa(mine) polymerization: mimicking the natural casing process. <i>Chemical Communications</i> , 2011, 47, 10308.	2.2	30
41	Artificial Biomelanin: Highly Light-Absorbing Nano-Sized Eumelanin by Biomimetic Synthesis in Chicken Egg White. <i>Biomacromolecules</i> , 2014, 15, 3811-3816.	2.6	30
42	Nylon 6/Calcium Carbonate Nanocomposites: Characterization and Properties. <i>Macromolecular Symposia</i> , 2006, 234, 170-175.	0.4	28
43	PMMA Based Nanocomposites Filled with Modified CaCO <sub>3</sub> Nanoparticles. <i>Macromolecular Symposia</i> , 2007, 247, 140-146.	0.4	28
44	Comparison of biodegradable polyesters degradation behavior in sand. <i>Journal of Hazardous Materials</i> , 2021, 416, 126231.	6.5	27
45	Functionalization and Compatibilization of Poly( $\epsilon$ -caprolactone) Composites with Cellulose Microfibres: Morphology, Thermal and Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 985-993.	1.7	25
46	Recycled multilayer cartons as cellulose source in HDPE-based composites: Compatibilization and structure-properties relationships. <i>Journal of Applied Polymer Science</i> , 2009, 114, 2978-2985.	1.3	22
47	Low formaldehyde emission particleboard panels realized through a new acrylic binder. <i>Journal of Applied Polymer Science</i> , 2011, 122, 2779-2788.	1.3	22
48	Poly(vinyl chloride)/CaCO <sub>3</sub> nanocomposites: Influence of surface treatments on the properties. <i>Journal of Applied Polymer Science</i> , 2011, 122, 3590-3598.	1.3	22
49	Novel graft PLLA-based copolymers: Potential of their application to particle technology. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 62, 244-253.	3.0	21
50	Environmental life cycle assessment of the recycling processes of waste plastics recovered by landfill mining. <i>Waste Management</i> , 2020, 118, 68-78.	3.7	21
51	Rational design of nanoparticle/monomer interfaces: a combined computational and experimental study of in situ polymerization of silica based nanocomposites. <i>RSC Advances</i> , 2015, 5, 71336-71340.	1.7	20
52	Recyclable-by-design mono-material flexible packaging with high barrier properties realized through graphene hybrid coatings. <i>Resources, Conservation and Recycling</i> , 2022, 179, 106126.	5.3	19
53	Preparation of poly( $\beta$ -hydroxybutyrate)/poly(methyl methacrylate) blends by reactive blending and their characterisation. <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 1901-1907.	1.1	16
54	Nylon Based Nanocomposites: Influence of Calcium Carbonate Nanoparticles on the Thermal Stability. <i>Macromolecular Symposia</i> , 2006, 234, 163-169.	0.4	15

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55	Probing the effect of high energy ball milling on PVC through a multitechnique approach. <i>Polymer Testing</i> , 2012, 31, 176-181.	2.3	15
56	Up-cycling end-of-use materials: Highly filled thermoplastic composites obtained by loading waste carbon fiber composite into fluidified recycled polystyrene. <i>Polymer Composites</i> , 2014, 35, 1621-1628.	2.3	15
57	Title is missing!. <i>Angewandte Makromolekulare Chemie</i> , 1997, 246, 49-63.	0.3	14
58	Unilateral NMR investigation of multifunctional treatments on stones based on colloidal inorganic and organic nanoparticles. <i>Magnetic Resonance in Chemistry</i> , 2015, 53, 64-77.	1.1	14
59	Poly(lactic acid)/Cellulose Composites Obtained from Modified Cotton Fibers by Successive Acid Hydrolysis. <i>Journal of Polymers and the Environment</i> , 2018, 26, 3149-3158.	2.4	14
60	Effect of Microfibrillated Cellulose on Microstructure and Properties of Poly(vinyl alcohol) Foams. <i>Polymers</i> , 2018, 10, 813.	2.0	14
61	Hyper-Crosslinked Polymer Nanocomposites Containing Mesoporous Silica Nanoparticles with Enhanced Adsorption Towards Polar Dyes. <i>Polymers</i> , 2020, 12, 1388.	2.0	14
62	PVA/PTFE nanocomposites: Thermal, mechanical, and barrier properties. <i>Journal of Materials Science</i> , 2004, 39, 6133-6136.	1.7	13
63	Hierarchical micro-to-macroporous silica nanoparticles obtained by their grafting with hyper-crosslinked resin. <i>Microporous and Mesoporous Materials</i> , 2022, 335, 111864.	2.2	12
64	Isothermal and nonisothermal crystallization of HDPE composites containing multilayer carton scraps as filler. <i>Journal of Applied Polymer Science</i> , 2012, 125, 3880-3887.	1.3	11
65	Critical Factors for the Recycling of Different End-of-Life Materials: Wood Wastes, Automotive Shredded Residues, and Dismantled Wind Turbine Blades. <i>Polymers</i> , 2019, 11, 1604.	2.0	9
66	Anomalous behavior of the second and third harmonics generated by femtosecond Cr:forsterite laser pulses in SiC-polymer nanocomposite materials as functions of the SiC nanopowder content. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 999-1006.	1.2	8
67	Development of nanocomposite based on hydroxyethylmethacrylate and functionalized fumed silica: mechanical, chemical and physical and biological characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2011, 22, 481-490.	1.7	8
68	Pure titanium particle loaded nanocomposites: study on the polymer/filler interface and hMSC biocompatibility. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 153.	1.7	8
69	Role of silica nanoparticles on network formation and properties in thermoset polycarbonate based nanocomposites. <i>Polymer Testing</i> , 2017, 60, 388-395.	2.3	8
70	Generation of the second and third harmonics of femtosecond Cr: forsterite laser pulses in SiC/PMMA nanopowder films. <i>Laser Physics Letters</i> , 2004, 1, 37-41.	0.6	6
71	Nanocomposites Based on Liquid Crystalline Resins. <i>Molecular Crystals and Liquid Crystals</i> , 2005, 429, 1-20.	0.4	5
72	Acrylate/EVA reactive blends and semi-IPN: Chemical, chemical and physical, and thermo-optical characterization. <i>Journal of Applied Polymer Science</i> , 2006, 99, 2926-2935.	1.3	5

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73	Polarization properties of optical harmonics generated by femtosecond Cr:forsterite laser pulses in SiC nanopowder films. <i>Journal of Optics</i> , 2004, 6, 253-258.	1.5	4
74	Nanocomposite Sensors for Food Packaging. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2011, , 501-510.	0.2	4
75	Sustainable Cellulose-Aluminum-Plastic Composites from Beverage Cartons Scraps and Recycled Polyethylene. <i>Polymers</i> , 2022, 14, 807.	2.0	4
76	Properties/Structure Relationships in Innovative PCL-SiO <sub>2</sub> Nanocomposites. <i>Macromolecular Symposia</i> , 2001, 169, 201-210.	0.4	3
77	Valorization and Mechanical Recycling of Heterogeneous Post-Consumer Polymer Waste through a Mechano-Chemical Process. <i>Polymers</i> , 2021, 13, 2783.	2.0	3
78	Preparation of Isotactic Polypropylene/Organoclay Nanocomposites by Solution Mixing Methodology: Structure and Properties Relationships. <i>Macromolecular Symposia</i> , 2005, 228, 147-154.	0.4	2
79	Nanotechnologies and Nanosensors: Future Applications for the Conservation of Cultural Heritage. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2011, , 511-517.	0.2	2
80	PVC-CaCO <sub>3</sub> Nanocomposites: Influence of nanoparticle surface treatment on properties. , 2010, , .		1
81	Effect of physical ageing on properties of PLA plasticized with oligomeric esters of lactic acid. , 2014, , .		1
82	Polymer nanocomposites: functionalisation of the nanofiller and control of the interface. <i>Advances in Materials and Processing Technologies</i> , 2015, 1, 423-434.	0.8	1
83	Modified Hyper-crosslinked Resins for Textile Wastewater Treatment. <i>Springer Water</i> , 2020, , 272-276.	0.2	0