Maria Emanuela Errico

List of Publications by Year
in descending order

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	Recyclable-by-design mono-material flexible packaging with high barrier properties realized through graphene hybrid coatings. Resources, Conservation and Recycling, 2022, 179, 106126.	5.3	19
2	Sustainable Cellulose-Aluminum-Plastic Composites from Beverage Cartons Scraps and Recycled Polyethylene. Polymers, 2022, 14, 807.	2.0	4
3	Hierarchical micro-to-macroporous silica nanoparticles obtained by their grafting with hyper-crosslinked resin. Microporous and Mesoporous Materials, 2022, 335, 111864.	2.2	12
4	Amino-functionalized hyper-crosslinked resins for enhanced adsorption of carbon dioxide and polar dyes. Chemical Engineering Journal, 2021, 418, 129463.	6.6	44
5	Valorization and Mechanical Recycling of Heterogeneous Post-Consumer Polymer Waste through a Mechano-Chemical Process. Polymers, 2021, 13, 2783.	2.0	3
6	Comparison of biodegradable polyesters degradation behavior in sand. Journal of Hazardous Materials, 2021, 416, 126231.	6.5	27
7	Tuning of polyurethane foam mechanical and thermal properties using ball-milled cellulose. Carbohydrate Polymers, 2020, 231, 115772.	5.1	53
8	Environmental life cycle assessment of the recycling processes of waste plastics recovered by landfill mining. Waste Management, 2020, 118, 68-78.	3.7	21
9	Hyper-Crosslinked Polymer Nanocomposites Containing Mesoporous Silica Nanoparticles with Enhanced Adsorption Towards Polar Dyes. Polymers, 2020, 12, 1388.	2.0	14
10	Modified Hyper-crosslinked Resins for Textile Wastewater Treatment. Springer Water, 2020, , 272-276.	0.2	0
11	Critical Factors for the Recycling of Different End-of-Life Materials: Wood Wastes, Automotive Shredded Residues, and Dismantled Wind Turbine Blades. Polymers, 2019, 11, 1604.	2.0	9
12	Recycling Polyethylene-Rich Plastic Waste from Landfill Reclamation: Toward an Enhanced Landfill-Mining Approach. Polymers, 2019, 11, 208.	2.0	37
13	Functional hyper-crosslinked resins with tailored adsorption properties for environmental applications. Chemical Engineering Journal, 2019, 362, 497-503.	6.6	34
14	Poly(lactic acid)/Cellulose Composites Obtained from Modified Cotton Fibers by Successive Acid Hydrolysis. Journal of Polymers and the Environment, 2018, 26, 3149-3158.	2.4	14
15	Pectin based finishing to mitigate the impact of microplastics released by polyamide fabrics. Carbohydrate Polymers, 2018, 198, 175-180.	5.1	59
16	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
17	Effect of Microfibrillated Cellulose on Microstructure and Properties of Poly(vinyl alcohol) Foams. Polymers, 2018, 10, 813.	2.0	14
18	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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19	Role of silica nanoparticles on network formation and properties in thermoset polycarbonate based nanocomposites. Polymer Testing, 2017, 60, 388-395.	2.3	8
20	A Versatile Synthetic Approach toward Hyper-Cross-Linked Styrene-Based Polymers and Nanocomposites. Macromolecules, 2017, 50, 4132-4143.	2.2	42
21	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
22	Pure titanium particle loaded nanocomposites: study on the polymer/filler interface and hMSC biocompatibility. Journal of Materials Science: Materials in Medicine, 2016, 27, 153.	1.7	8
23	Unilateral NMR investigation of multifunctional treatments on stones based on colloidal inorganic and organic nanoparticles. Magnetic Resonance in Chemistry, 2015, 53, 64-77.	1.1	14
24	Polymer nanocomposites: functionalisation of the nanofiller and control of the interface. Advances in Materials and Processing Technologies, 2015, 1, 423-434.	0.8	1
25	Amorphized cellulose as filler in biocomposites based on poly(É›-caprolactone). Carbohydrate Polymers, 2015, 118, 170-182.	5.1	48
26	Effect of cellulose structure and morphology on the properties of poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (succinate	5.1	32
27	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
28	Rational design of nanoparticle/monomer interfaces: a combined computational and experimental study of in situ polymerization of silica based nanocomposites. RSC Advances, 2015, 5, 71336-71340.	1.7	20
29	Effect of physical ageing on properties of PLA plasticized with oligomeric esters of lactic acid. , 2014, , .		1
30	Up-cycling end-of-use materials: Highly filled thermoplastic composites obtained by loading waste carbon fiber composite into fluidified recycled polystyrene. Polymer Composites, 2014, 35, 1621-1628.	2.3	15
31	Artificial Biomelanin: Highly Light-Absorbing Nano-Sized Eumelanin by Biomimetic Synthesis in Chicken Egg White. Biomacromolecules, 2014, 15, 3811-3816.	2.6	30
32	Atypical Structural and Ï€â€Electron Features of a Melanin Polymer That Lead to Superior Freeâ€Radicalâ€Scavenging Properties. Angewandte Chemie - International Edition, 2013, 52, 12684-12687.	7.2	284
33	Polymerâ€“filler interactions in PET/CaCO3 nanocomposites: Chain ordering at the interface and physical properties. European Polymer Journal, 2013, 49, 419-427.	2.6	42
34	Polyvinyl alcohol biodegradable foams containing cellulose fibres. Journal of Cellular Plastics, 2012, 48, 459-470.	1.2	32
35	Functionalization and Compatibilization of Poly(Îµâ€caprolactone) Composites with Cellulose Microfibres: Morphology, Thermal and Mechanical Properties. Macromolecular Materials and Engineering, 2012, 297, 985-993.	1.7	25
36	Isothermal and nonisothermal crystallization of HDPE composites containing multilayer carton scraps as filler. Journal of Applied Polymer Science, 2012, 125, 3880-3887.	1.3	11

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37	A multitechnique approach to assess the effect of ball milling on cellulose. Carbohydrate Polymers, 2012, 87, 265-273.	5.1	173
38	Probing the effect of high energy ball milling on PVC through a multitechnique approach. Polymer Testing, 2012, 31, 176-181.	2.3	15
39	A melanin-inspired pro-oxidant system for dopa(mine) polymerization: mimicking the natural casing process. Chemical Communications, 2011, 47, 10308.	2.2	30
40	Nanotechnologies and Nanosensors: Future Applications for the Conservation of Cultural Heritage. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 511-517.	0.2	2
41	Development of nanocomposite based on hydroxyethylmethacrylate and functionalized fumed silica: mechanical, chemicoâ€“physical and biological characterization. Journal of Materials Science: Materials in Medicine, 2011, 22, 481-490.	1.7	8
42	Low formaldehyde emission particleboard panels realized through a new acrylic binder. Journal of Applied Polymer Science, 2011, 122, 2779-2788.	1.3	22
43	Poly(vinyl chloride)/CaCO₃ nanocomposites: Influence of surface treatments on the properties. Journal of Applied Polymer Science, 2011, 122, 3590-3598.	1.3	22
44	Nanocomposite Sensors for Food Packaging. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 501-510.	0.2	4
45	Effect of compatibilization on thermal degradation kinetics of HDPE-based composites containing cellulose reinforcements. Journal of Thermal Analysis and Calorimetry, 2010, 102, 975-982.	2.0	30
46	Synthesis and characterization of poly(methylmethacrylate)/silica nanocomposites: Study of the interphase by solidâ€state NMR and structure/properties relationships. Journal of Polymer Science Part A, 2010, 48, 5618-5629.	2.5	38
47	PVCâ•CaCO[sub 3] Nanocomposites: Influence of nanoparticle surface treatment on properties. , 2010, , .		1
48	Poly(hydroxybutyrateâ€coâ€hydroxyvalerate)/titanium dioxide nanocomposites: A degradation study. Journal of Applied Polymer Science, 2009, 114, 3118-3124.	1.3	40
49	Recycled multilayer cartons as cellulose source in HDPEâ€based composites: Compatibilization and structureâ€properties relationships. Journal of Applied Polymer Science, 2009, 114, 2978-2985.	1.3	22
50	Eco-Challenges of Bio-Based Polymer Composites. Materials, 2009, 2, 911-925.	1.3	144
51	Recycling of polypropylene-based eco-composites. Polymer International, 2008, 57, 1252-1257.	1.6	43
52	Poly(lactic acid)â€based biocomposites reinforced with kenaf fibers. Journal of Applied Polymer Science, 2008, 108, 3542-3551.	1.3	132
53	PMMA Based Nanocomposites Filled with Modified CaCO3 Nanoparticles. Macromolecular Symposia, 2007, 247, 140-146.	0.4	28
54	Poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-based biocomposites reinforced with kenaf fibers. Journal of Applied Polymer Science, 2007, 104, 3192-3200.	1.3	99

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55	Innovative packaging for minimally processed fruits. Packaging Technology and Science, 2007, 20, 325-335.	1.3	45
56	Natural fiber eco-composites. Polymer Composites, 2007, 28, 98-107.	2.3	414
57	Poly(butylene terephthalate)/poly(É›-caprolactone) blends: Miscibility and thermal and mechanical properties. Polymer Engineering and Science, 2007, 47, 323-329.	1.5	34
58	Nonisothermal crystallization kinetics of kenaf fiber/polypropylene composites. Polymer Engineering and Science, 2007, 47, 745-749.	1.5	30
59	iPP Based Nanocomposites Filled with Calcium Carbonate Nanoparticles: Structure/Properties Relationships. Macromolecular Symposia, 2006, 234, 156-162.	0.4	35
60	Nylon Based Nanocomposites: Influence of Calcium Carbonate Nanoparticles on the Thermal Stability. Macromolecular Symposia, 2006, 234, 163-169.	0.4	15
61	Poly(Îµ-caprolactone)-based nanocomposites: Influence of compatibilization on properties of poly(Îµ-caprolactone)â€“silica nanocomposites. Composites Science and Technology, 2006, 66, 886-894.	3.8	70
62	Nucleation activity of nanosized CaCO3 on crystallization of isotactic polypropylene, in dependence on crystal modification, particle shape, and coating. European Polymer Journal, 2006, 42, 1548-1557.	2.6	101
63	Acrylate/EVA reactive blends and semi-IPN: Chemical, chemicalâ€“physical, and thermo-optical characterization. Journal of Applied Polymer Science, 2006, 99, 2926-2935.	1.3	5
64	Nylon 6/Calcium Carbonate Nanocomposites: Characterization and Properties. Macromolecular Symposia, 2006, 234, 170-175.	0.4	28
65	Rice straw as an alternative reinforcement in polypropylene composites. Agronomy for Sustainable Development, 2006, 26, 251-255.	2.2	31
66	Preparation of Isotactic Polypropylene/Organoclay Nanocomposites by Solution Mixing Methodology: Structure and Properties Relationships. Macromolecular Symposia, 2005, 228, 147-154.	0.4	2
67	Biodegradable starch/clay nanocomposite films for food packaging applications. Food Chemistry, 2005, 93, 467-474.	4.2	779
68	Crystallization behavior and properties of exfoliated isotactic polypropylene/organoclay nanocomposites. Advances in Polymer Technology, 2005, 24, 132-144.	0.8	37
69	Influence of CaCO3 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
70	Nanocomposites Based on Liquid Crystalline Resins. Molecular Crystals and Liquid Crystals, 2005, 429, 1-20.	0.4	5
71	PVA/PTFE nanocomposites: Thermal, mechanical, and barrier properties. Journal of Materials Science, 2004, 39, 6133-6136.	1.7	13
72	Generation of the second and third harmonics of femtosecond Cr: forsterite laser pulses in SiC/PMMA nanopowder films. Laser Physics Letters, 2004, 1, 37-41.	0.6	6

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73	Polarization properties of optical harmonics generated by femtosecond Cr:forsterite laser pulses in SiC nanopowder films. Journal of Optics, 2004, 6, 253-258.	1.5	4
74	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. Journal of Raman Spectroscopy, 2003, 34, 999-1006.	1.2	8
75	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
76	Novel graft PLLA-based copolymers: Potential of their application to particle technology. Journal of Biomedical Materials Research Part B, 2002, 62, 244-253.	3.0	21
77	Title is missing!. Journal of Materials Science, 2002, 37, 2351-2358.	1.7	116
78	Novel PMMA/CaCO3Nanocomposites Abrasion Resistant Prepared by an in Situ Polymerization Process. Nano Letters, 2001, 1, 213-217.	4.5	187
79	Properties/Structure Relationships in Innovative PCL-SiO2 Nanocomposites. Macromolecular Symposia, 2001, 169, 201-210.	0.4	3
80	Preparation methodologies of polymer matrix nanocomposites. Applied Organometallic Chemistry, 2001, 15, 435-439.	1.7	63
81	Preparation of PHBV/starch blends by reactive blending and their characterization. Journal of Applied Polymer Science, 2000, 77, 232-236.	1.3	37
82	Preparation of poly(Î²-hydroxybutyrate)/poly(methyl methacrylate) blends by reactive blending and their characterisation. Macromolecular Chemistry and Physics, 1998, 199, 1901-1907.	1.1	16
83	Title is missing!. Angewandte Makromolekulare Chemie, 1997, 246, 49-63.	0.3	14