

# Miguel A Lpez Manchado

## 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.

163 papers	9,074 citations	49 h-index	92 g-index
168 ext. papers	10,037 ext. citations	5.2 avg, IF	6.22 L-index

#	Paper	IF	Citations
163	Graphene filled polymer nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3301-3310		596
162	Organo-montmorillonite as substitute of carbon black in natural rubber compounds. <i>Polymer</i> , <b>2003</b> , 44, 2447-2453	3.9	542
161	Thermal and mechanical properties of single-walled carbon nanotubes/polypropylene composites prepared by melt processing. <i>Carbon</i> , <b>2005</b> , 43, 1499-1505	10.4	536
160	Multifunctional nanostructured PLA materials for packaging and tissue engineering. <i>Progress in Polymer Science</i> , <b>2013</b> , 38, 1720-1747	29.6	421
159	Functionalized graphene sheet filled silicone foam nanocomposites. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2221		311
158	Graphene materials with different structures prepared from the same graphite by the Hummers and Brodie methods. <i>Carbon</i> , <b>2013</b> , 65, 156-164	10.4	272
157	Increasing the performance of dielectric elastomer actuators: A review from the materials perspective. <i>Progress in Polymer Science</i> , <b>2015</b> , 51, 188-211	29.6	264
156	Comparison of filler percolation and mechanical properties in graphene and carbon nanotubes filled epoxy nanocomposites. <i>European Polymer Journal</i> , <b>2013</b> , 49, 1347-1353	5.2	202
155	Structure and properties of polylactide/natural rubber blends. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 129, 823-831	4.4	202
154	Vulcanization kinetics of natural rubber/organoclay nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 1-15	2.9	164
153	Overall performance of natural rubber/graphene nanocomposites. <i>Composites Science and Technology</i> , <b>2012</b> , 73, 40-46	8.6	153
152	Morphology/behaviour relationship of nanocomposites based on natural rubber/epoxidized natural rubber blends. <i>Composites Science and Technology</i> , <b>2007</b> , 67, 1330-1339	8.6	141
151	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3433-3438	9.6	135
150	Novel Experimental Approach To Evaluate Filler/Elastomer Interactions. <i>Macromolecules</i> , <b>2010</b> , 43, 334-346	3.6	133
149	Effect of Nanoclay on Natural Rubber Microstructure. <i>Macromolecules</i> , <b>2008</b> , 41, 6763-6772	5.5	131
148	Epoxy-Graphene UV-cured nanocomposites. <i>Polymer</i> , <b>2011</b> , 52, 4664-4669	3.9	124
147	Dynamic mechanical and Raman spectroscopy studies on interaction between single-walled carbon nanotubes and natural rubber. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 92, 3394-3400	2.9	116

146	Physical and mechanical behavior of single-walled carbon nanotube/polypropylene/ethylene propylene diene rubber nanocomposites. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 2657-2663	2.9	116
145	Gas transport properties of polypropylene/clay composite membranes. <i>European Polymer Journal</i> , <b>2007</b> , 43, 1132-1143	5.2	113
144	Chain Order and Cross-Link Density of Elastomers As Investigated by Proton Multiple-Quantum NMR. <i>Macromolecules</i> , <b>2005</b> , 38, 9650-9660	5.5	111
143	Preparation and characterization of organoclay nanocomposites based on natural rubber. <i>Polymer International</i> , <b>2003</b> , 52, 1070-1077	3.3	110
142	Organoclay/natural rubber nanocomposites synthesized by mechanical and solution mixing methods. <i>Polymer International</i> , <b>2004</b> , 53, 1766-1772	3.3	106
141	Physicochemical properties of organoclay filled polylactic acid/natural rubber blend bionanocomposites. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 305-313	8.6	101
140	Physical properties of silicone foams filled with carbon nanotubes and functionalized graphene sheets. <i>European Polymer Journal</i> , <b>2008</b> , 44, 2790-2797	5.2	99
139	Effects of carbon nanotubes on the crystallization behavior of polypropylene. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 303-311	2.3	99
138	Use of butylamine modified graphene sheets in polymer solar cells. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 995-1000		92
137	Functionalised graphene sheets as effective high dielectric constant fillers. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 508	5	91
136	Enhancement of mechanical properties and interfacial adhesion of PP/EPDM/flax fiber composites using maleic anhydride as a compatibilizer. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 90, 2170-2178	2.9	89
135	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites part I. Processing and morphology. <i>Carbohydrate Polymers</i> , <b>2013</b> , 96, 611-20	10.3	88
134	Thermal conductivity of carbon nanotubes and graphene in epoxy nanofluids and nanocomposites. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 610	5	88
133	Evolution of self-healing elastomers, from extrinsic to combined intrinsic mechanisms: a review. <i>Materials Horizons</i> , <b>2020</b> , 7, 2882-2902	14.4	87
132	Poly(lactic acid)/natural rubber/cellulose nanocrystal bionanocomposites. Part II: properties evaluation. <i>Carbohydrate Polymers</i> , <b>2013</b> , 96, 621-7	10.3	82
131	Molecular Dynamics of Natural Rubber/Layered Silicate Nanocomposites As Studied by Dielectric Relaxation Spectroscopy. <i>Macromolecules</i> , <b>2010</b> , 43, 643-651	5.5	82
130	Filled poly(2,6-dimethyl-1,4-phenylene oxide) dense membranes by silica and silane modified silica nanoparticles: characterization and application in pervaporation. <i>Polymer</i> , <b>2005</b> , 46, 9881-9891	3.9	78
129	Effects of reinforcing fibers on the crystallization of polypropylene. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 2194-2204	2.3	71

128	Effect of the morphology of thermally reduced graphite oxide on the mechanical and electrical properties of natural rubber nanocomposites. <i>Composites Part B: Engineering</i> , <b>2016</b> , 87, 350-356	10	67
127	Towards materials with enhanced electro-mechanical response: CaCu <sub>3</sub> Ti <sub>4</sub> O <sub>12</sub> /polydimethylsiloxane composites. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 24705		67
126	Mechanical properties of polypropylene matrix composites reinforced with natural fibers: A statistical approach. <i>Polymer Composites</i> , <b>2004</b> , 25, 26-36	3	66
125	Crystallization kinetics of polypropylene: 1. Effect of small additions of low-density polyethylene. <i>Polymer</i> , <b>1996</b> , 37, 5681-5688	3.9	66
124	Rubber network in elastomer nanocomposites. <i>European Polymer Journal</i> , <b>2007</b> , 43, 4143-4150	5.2	65
123	Carbon nanotubes provide self-extinguishing grade to silicone-based foams. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3933		60
122	Novel anhydrous unfolded structure by heating of acid pre-treated sepiolite. <i>Applied Clay Science</i> , <b>2007</b> , 36, 245-255	5.2	60
121	Synergistic effect of graphene nanoplatelets and carbon black in multifunctional EPDM nanocomposites. <i>Composites Science and Technology</i> , <b>2016</b> , 128, 123-130	8.6	58
120	Real-Time Crystallization of Organoclay Nanoparticle Filled Natural Rubber under Stretching. <i>Macromolecules</i> , <b>2008</b> , 41, 2295-2298	5.5	56
119	Influence of carbon nanoparticles on the polymerization and EMI shielding properties of PU nanocomposite foams. <i>RSC Advances</i> , <b>2014</b> , 4, 7911	3.7	53
118	Effect of montmorillonite intercalant structure on the cure parameters of natural rubber. <i>European Polymer Journal</i> , <b>2008</b> , 44, 3108-3115	5.2	53
117	Electrodeposition of transparent and conducting graphene/carbon nanotube thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 2461-2466	1.6	52
116	Thermo-reversible crosslinked natural rubber: A Diels-Alder route for reuse and self-healing properties in elastomers. <i>Polymer</i> , <b>2019</b> , 175, 15-24	3.9	50
115	Cationic photocured epoxy nanocomposites filled with different carbon fillers. <i>Polymer</i> , <b>2012</b> , 53, 1831-1838	3.9	48
114	High performance natural rubber/thermally reduced graphite oxide nanocomposites by latex technology. <i>Composites Part B: Engineering</i> , <b>2014</b> , 67, 449-454	10	47
113	Comparing the effect of carbon-based nanofillers on the physical properties of flexible polyurethane foams. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5673-5679	4.3	47
112	Deformation mechanisms in polylactic acid/natural rubber/organoclay bionanocomposites as revealed by synchrotron X-ray scattering. <i>Soft Matter</i> , <b>2012</b> , 8, 8990	3.6	46
111	Effects of Strain-Induced Crystallization on the Segmental Dynamics of Vulcanized Natural Rubber. <i>Macromolecules</i> , <b>2011</b> , 44, 6574-6580	5.5	45

110	In situ Foaming Evolution of Flexible Polyurethane Foam Nanocomposites. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 971-979	2.6	42
109	Molecular dynamics of natural rubber as revealed by dielectric spectroscopy: The role of natural crosslinking. <i>Soft Matter</i> , <b>2010</b> , 6, 3636	3.6	42
108	Degree of functionalization of carbon nanofibers with benzenesulfonic groups in an acid medium. <i>Carbon</i> , <b>2007</b> , 45, 1669-1678	10.4	42
107	Phosphonium salt intercalated montmorillonites. <i>Applied Clay Science</i> , <b>2009</b> , 43, 27-32	5.2	41
106	Design of Rubber Composites with Autonomous Self-Healing Capability. <i>ACS Omega</i> , <b>2020</b> , 5, 1902-1910	3.9	39
105	Natural rubber/clay nanocomposites: Influence of poly(ethylene glycol) on the silicate dispersion and local chain order of rubber network. <i>European Polymer Journal</i> , <b>2008</b> , 44, 3493-3500	5.2	39
104	Quantitative mapping of mechanical properties in polylactic acid/natural rubber/organoclay bionanocomposites as revealed by nanoindentation with atomic force microscopy. <i>Composites Science and Technology</i> , <b>2014</b> , 104, 34-39	8.6	37
103	Role of Vulcanizing Additives on the Segmental Dynamics of Natural Rubber. <i>Macromolecules</i> , <b>2012</b> , 45, 1070-1075	5.5	37
102	Thermally reduced graphene is a permissive material for neurons and astrocytes and de novo neurogenesis in the adult olfactory bulb in vivo. <i>Biomaterials</i> , <b>2016</b> , 82, 84-93	15.6	35
101	Influence of the morphology of carbon nanostructures on the piezoresistivity of hybrid natural rubber nanocomposites. <i>Composites Part B: Engineering</i> , <b>2017</b> , 109, 147-154	10	35
100	Confinement of Functionalized Graphene Sheets by Triblock Copolymers. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17973-17978	3.8	34
99	Influence of the vulcanization system on the dynamics and structure of natural rubber: Comparative study by means of broadband dielectric spectroscopy and solid-state NMR spectroscopy. <i>European Polymer Journal</i> , <b>2015</b> , 68, 90-103	5.2	33
98	Comparative study of the effects of different fibers on the processing and properties of ternary composites based on PP-EPDM blends. <i>Polymer Composites</i> , <b>2002</b> , 23, 779-789	3	33
97	Rheological behavior and processability of polypropylene blends with rubber ethylene propylene diene terpolymer. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 1-10	2.9	33
96	Nitrile butadiene rubber composites reinforced with reduced graphene oxide and carbon nanotubes show superior mechanical, electrical and icephobic properties. <i>Composites Science and Technology</i> , <b>2018</b> , 166, 109-114	8.6	31
95	A comparative study on the mechanical, electrical and piezoresistive properties of polymer composites using carbon nanostructures of different topology. <i>European Polymer Journal</i> , <b>2018</b> , 99, 394-402	5.2	31
94	Characterization of the reactivity of a silica derived from acid activation of sepiolite with silane by <sup>29</sup> Si and <sup>13</sup> C solid-state NMR. <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 298, 794-804	9.3	30
93	Short fibers as reinforcement of rubber compounds. <i>Polymer Composites</i> , <b>2002</b> , 23, 666-673	3	30

92	Effect of the incorporation of pet fibers on the properties of thermoplastic elastomer based on PP/elastomer blends. <i>Polymer</i> , <b>2001</b> , 42, 6557-6563	3.9	27
91	Fluid dynamics of evolving foams. <i>Physical Chemistry Chemical Physics</i> , <b>2009</b> , 11, 10860-6	3.6	26
90	Preparation and Mechanical Properties of Graphene/Carbon Fiber-Reinforced Hierarchical Polymer Composites. <i>Journal of Composites Science</i> , <b>2019</b> , 3, 30	3	25
89	Giving a Second Opportunity to Tire Waste: An Alternative Path for the Development of Sustainable Self-Healing Styrene-Butadiene Rubber Compounds Overcoming the Magic Triangle of Tires. <i>Polymers</i> , <b>2019</b> , 11,	4.5	25
88	Facile and Scalable One-Step Method for Amination of Graphene Using Leuckart Reaction. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 6698-6705	9.6	24
87	Chemical Shift-Related Artifacts in NMR Determinations of Proton Residual Dipolar Couplings in Elastomers. <i>Macromolecules</i> , <b>2005</b> , 38, 4040-4042	5.5	24
86	Novel Approach of Evaluating Polymer Nanocomposite Structure by Measurements of the Freezing-Point Depression. <i>Macromolecular Rapid Communications</i> , <b>2004</b> , 25, 1309-1313	4.8	24
85	Morphology and mechanical properties of nanostructured thermoset/block copolymer blends with carbon nanoparticles. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2015</b> , 71, 136-143	8.4	23
84	Effect of entanglements in the microstructure of cured NR/SBR blends prepared by solution and mixing in a two-roll mill. <i>European Polymer Journal</i> , <b>2016</b> , 81, 365-375	5.2	23
83	Design of a new generation of sustainable SBR compounds with good trade-off between mechanical properties and self-healing ability. <i>European Polymer Journal</i> , <b>2018</b> , 106, 273-283	5.2	22
82	Evaluation of Biocompatibility of Uncoated Thermally Reduced Graphene and Carbon Nanotube-Loaded PVDF Membranes with Adult Neural Stem Cell-Derived Neurons and Glia. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2016</b> , 4, 94	5.8	22
81	Customizing thermally-reduced graphene oxides for electrically conductive or mechanical reinforced epoxy nanocomposites. <i>European Polymer Journal</i> , <b>2017</b> , 93, 1-7	5.2	21
80	Synthesis of fluorinated graphene oxide by using an easy one-pot deoxyfluorination reaction. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 524, 219-226	9.3	21
79	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
78	Effect of hard segment content and carbon-based nanostructures on the kinetics of flexible polyurethane nanocomposite foams. <i>Polymer</i> , <b>2012</b> , 53, 4025-4032	3.9	20
77	Optimisation of nanocomposites based on polypropylene/polyethylene blends and organo-bentonite. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 2915-2921		20
76	Melt grafting of itaconic acid and its derivatives onto an ethylene-propylene copolymer. <i>Reactive and Functional Polymers</i> , <b>2005</b> , 64, 169-178	4.6	20
75	Polypropylene Crystallization in an Ethylene-propylene-diene Rubber Matrix. <i>Magyar Árvad Kémia</i> , <b>2000</b> , 61, 437-450	0	20

74	Electro-mechanical actuation performance of SEBS/PU blends. <i>Polymer</i> , <b>2019</b> , 171, 25-33	3.9	19
73	Comparative Study of the Effects of Different Fibers on the Processing and Properties of Polypropylene Matrix Composites. <i>Journal of Thermoplastic Composite Materials</i> , <b>2002</b> , 15, 337-353	1.9	19
72	Miscibility, dispersion, interfacial strength and nanoclay mobility relationships in polymer nanocomposites. <i>Soft Matter</i> , <b>2009</b> , 5, 3481	3.6	18
71	An effective and sustainable approach for achieving self-healing in nitrile rubber. <i>European Polymer Journal</i> , <b>2020</b> , 139, 110032	5.2	18
70	Gold-functionalized graphene as conductive filler in UV-curable epoxy resin. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 605-610	4.3	17
69	Effect of carbon nanofillers on flexible polyurethane foaming from a chemical and physical perspective. <i>RSC Advances</i> , <b>2014</b> , 4, 20761	3.7	17
68	Epoxy resin curing reaction studied by proton multiple-quantum NMR. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2015</b> , 53, 1324-1332	2.6	17
67	Reactive Nanocomposite Foams. <i>Frontiers in Forests and Global Change</i> , <b>2011</b> , 30, 45-62	1.6	17
66	Morphology and Photoelectrical Properties of Solution Processable Butylamine-Modified Graphene- and Pyrene-Based Organic Semiconductor. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 11252-11257	3.8	17
65	Effects of functionalized carbon nanotubes in peroxide crosslinking of diene elastomers. <i>European Polymer Journal</i> , <b>2009</b> , 45, 1017-1023	5.2	17
64	Pyroshock testing on graphene based EPDM nanocomposites. <i>Composites Part B: Engineering</i> , <b>2014</b> , 60, 479-484	10	16
63	Use of Monomethyl Itaconate Grafted Poly(propylene) (PP) and Ethylene Propylene Rubber (EPR) as Compatibilizers for PP/EPR Blends. <i>Macromolecular Materials and Engineering</i> , <b>2003</b> , 288, 875-885	3.9	16
62	On the use of ball milling to develop PHBV/graphene nanocomposites (I) Morphology, thermal properties, and thermal stability. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	15
61	Main structural features of graphene materials controlling the transport properties of epoxy resin-based composites. <i>European Polymer Journal</i> , <b>2018</b> , 101, 56-65	5.2	14
60	Influence of reaction parameters on size and shape of silica nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 3343-6	1.3	14
59	Sustainable mobility: The route of tires through the circular economy model. <i>Waste Management</i> , <b>2021</b> , 126, 309-322	8.6	14
58	Multifunctional Silicone Rubber Nanocomposites by Controlling the Structure and Morphology of Graphene Material. <i>Polymers</i> , <b>2019</b> , 11,	4.5	13
57	Epoxy Nanocomposites Filled with Carbon Nanoparticles. <i>Chemical Record</i> , <b>2018</b> , 18, 928-939	6.6	13



56	Structure and Segmental Dynamics Relationship in Natural Rubber/Layered Silicate Nanocomposites during Uniaxial Deformation. <i>Macromolecules</i> , <b>2013</b> , 46, 3176-3182	5.5	13
55	The Development of Proton Conducting Polymer Membranes for Fuel Cells Using Sulfonated Carbon Nanofibres. <i>Macromolecular Rapid Communications</i> , <b>2008</b> , 29, 234-238	4.8	13
54	Relevant features of bentonite modification with a phosphonium salt. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2006</b> , 6, 2151-4	1.3	13
53	Behavior of poly(ethylene-co-olefin) polymers as elastomeric materials. <i>Journal of Applied Polymer Science</i> , <b>2004</b> , 92, 3008-3015	2.9	13
52	Ternary composites based on PP-EPDM blends reinforced with flax fibers. Part II: Mechanical properties/morphology relationship. <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 1031-1043	2.3	13
51	Modification of carbon nanotubes with well-controlled fluorescent styrene-based polymers using the Diels-Alder reaction. <i>Polymer</i> , <b>2011</b> , 52, 5739-5745	3.9	12
50	Effect of Grafted PP on the Properties of Thermoplastic Elastomers Based on PP-EPDM Blends. <i>Macromolecular Chemistry and Physics</i> , <b>2001</b> , 202, 1909-1916	2.6	12
49	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> , <b>2016</b> , 133, n/a-n/a	2.9	12
48	On the Use of Mechano-Chemically Modified Ground Tire Rubber (GTR) as Recycled and Sustainable Filler in Styrene-Butadiene Rubber (SBR) Composites. <i>Journal of Composites Science</i> , <b>2021</b> , 5, 68	3	12
47	Graphene oxide-epoxy hybrid material as innovative photocatalyst. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 5204-5208	4.3	11
46	Sulfonation of vulcanized ethylene-propylene-diene terpolymer membranes. <i>Acta Materialia</i> , <b>2008</b> , 56, 4780-4788	8.4	11
45	Processing, properties and morphology of polypropylene-epdm blends. <i>Macromolecular Symposia</i> , <b>1999</b> , 148, 345-360	0.8	11
44	Use of graphite oxide and/or thermally reduced graphite oxide for the removal of dyes from water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2015</b> , 312, 88-95	4.7	10
43	Thermoplastic olefin/clay nanocomposites. Effect of matrix composition, and organoclay and compatibilizer structure on morphology/properties relationships. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 4456-64	1.3	10
42	Ternary composites based on PP-EPDM blends reinforced with flax fibers. Part I: Processing and thermal behavior. <i>Polymer Engineering and Science</i> , <b>2003</b> , 43, 1018-1030	2.3	10
41	Synergistic icephobic behaviour of swollen nitrile butadiene rubber graphene and/or carbon nanotube composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 166, 352-360	10	10
40	Development of conductive paraffin/graphene films laminated on fluoroelastomers with high strain recovery and anti-corrosive properties. <i>Composites Science and Technology</i> , <b>2017</b> , 149, 254-261	8.6	9
39	Influence of the Surfactant Nature on the Occurrence of Self-Assembly between Rubber Particles and Thermally Reduced Graphite Oxide during the Preparation of Natural Rubber Nanocomposites. <i>Journal of Nanomaterials</i> , <b>2015</b> , 2015, 1-7	3.2	9



38	The role of carbon nanotubes in both physical and chemical liquid-solid transition of polydimethylsiloxane. <i>European Polymer Journal</i> , <b>2013</b> , 49, 1373-1380	5.2	9
37	Effect of monomethyl itaconate-grafted HDPE and EPR on the compatibility and properties of HDPE/EPR blends. <i>Journal of Applied Polymer Science</i> , <b>2003</b> , 89, 2239-2248	2.9	9
36	Kinetic crystallization of polypropylene in ternary composites based on fiber-reinforced PP-EPDM blends. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 1063-1074	2.9	9
35	HDPE/Chitosan Composites Modified with PE-g-MA. Thermal, Morphological and Antibacterial Analysis. <i>Polymers</i> , <b>2019</b> , 11,	4.5	8
34	On the use of ball milling to develop poly(3-hydroxybutyrate-co-3-hydroxyvalerate)-graphene nanocomposites (II) Mechanical, barrier, and electrical properties. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9	8
33	Bismuth complex catalysts for the in situ preparation of polycaprolactone/silicate bionanocomposites. <i>Polymer International</i> , <b>2014</b> , 63, 709-717	3.3	8
32	Millable polyurethane/organoclay nanocomposites: preparation, characterization, and properties. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 634-40	1.3	8
31	SYNERGIC EFFECT OF TWO INORGANIC FILLERS ON THE MECHANICAL AND THERMAL PROPERTIES OF HYBRID POLYPROPYLENE COMPOSITES. <i>Journal of the Chilean Chemical Society</i> , <b>2014</b> , 59, 2468-2473	2.5	7
30	PP/LDPE blends filled with short polyamide fibers. <i>Angewandte Makromolekulare Chemie</i> , <b>1995</b> , 226, 129-141		7
29	Structural characterization and thermal degradation of poly(methylmethacrylate)/zinc oxide nanocomposites. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2019</b> , 56, 189-196	2.2	6
28	Effect of interface on the morphology and properties of composites comprising poly(propylene) and short organic fibers. <i>Angewandte Makromolekulare Chemie</i> , <b>1999</b> , 265, 20-24		6
27	In-situ cure monitoring of epoxy/graphene nanocomposites by several spectroscopic techniques. <i>Polymer Testing</i> , <b>2019</b> , 80, 106114	4.5	5
26	Cure characteristics, mechanical properties, and morphological studies of linoleum flour-filled NBR compounds. <i>Polymer Engineering and Science</i> , <b>2004</b> , 44, 909-916	2.3	5
25	Preparation and Characterization of Highly Elastic Foams with Enhanced Electromagnetic Wave Absorption Based on Ethylene-Propylene-Diene-Monomer Rubber Filled with Barium Titanate/Multiwall Carbon Nanotube Hybrid. <i>Polymers</i> , <b>2020</b> , 12,	4.5	5
24	Removal of Surfactant from Nanocomposites Films Based on Thermally Reduced Graphene Oxide and Natural Rubber. <i>Journal of Composites Science</i> , <b>2019</b> , 3, 31	3	4
23	SEBS-Grafted Itaconic Acid as Compatibilizer for Elastomer Nanocomposites Based on BaTiO Particles. <i>Polymers</i> , <b>2020</b> , 12,	4.5	4
22	Analysis of the effects of the polymerization route of ethylene-propylene-diene rubbers (EPDM) on the properties of polypropylene-EPDM blends. <i>Journal of Applied Polymer Science</i> , <b>2002</b> , 85, 25-37	2.9	4
21	Synthesis of sustainable, lightweight and electrically conductive polymer brushes grafted multi-layer graphene oxide. <i>Polymer Testing</i> , <b>2021</b> , 93, 106986	4.5	4

20	Transport Properties of One-Step Compression Molded Epoxy Nanocomposite Foams. <i>Polymers</i> , <b>2019</b> , 11,	4.5	3
19	Effect of mesogenic organic salts on vulcanization and physical properties of rubber compounds. <i>Polymer International</i> , <b>2014</b> , 63, 136-144	3.3	3
18	Semiconductive bionanocomposites of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) and MWCNTs for neural growth applications. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2014</b> , 52, 349-360	2.6	3
17	Vulcanization Characteristics and Curing Kinetic of Rubber/Organoclay Nanocomposites <b>2011</b> , 275-303		3
16	Poly(2,6-dimethyl-1,4-phenylene oxide) mixed matrix pervaporation membranes. <i>Desalination</i> , <b>2006</b> , 200, 376-378	10.3	3
15	Impact Behaviour of Modified Talc Filled PP/LDPE Blends. <i>Journal of Polymer Engineering</i> , <b>1995</b> , 14,	1.4	3
14	Structure, thermal and mechanical properties of poly (ε-caprolactone)/organomodified clay bionanocomposites prepared in open air by in situ polymerization. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2020</b> , 57, 865-875	2.2	3
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12	Dielectric Properties of All-Organic Coatings: Comparison of PEDOT and PANI in Epoxy Matrices. <i>Journal of Composites Science</i> , <b>2020</b> , 4, 26	3	2
11	Preparation and Characterization of Thermoplastic Vulcanizates-Organoclay Nanocomposites. <i>Materials Science Forum</i> , <b>2005</b> , 480-481, 333-338	0.4	2
10	A Methodology Towards Mechanical Properties Optimization of Three-Component Polymers by the Gradual Variation of Feed Composition in Semi-Continuous Emulsion-Free Radical Polymerization. <i>Polymers</i> , <b>2019</b> , 11,	4.5	2
9	Rubber Nanocomposites for Extreme Environments: Critics and Counterintuitive Solutions. <i>Frontiers in Materials</i> , <b>2018</b> , 5,	4	2
8	Effects of Orientation on the Segmental Dynamics of Natural Rubber. <i>Materials Science Forum</i> , <b>2012</b> , 714, 57-61	0.4	1
7	Unravelling the effect of healing conditions and vulcanizing additives on the healing performance of rubber networks. <i>Polymer</i> , <b>2021</b> , 238, 124399	3.9	0
6	Effect of filler content on scratch behavior and tribological performance of polyester/graphene oxide nanocomposite coating <b>2021</b> , 18, 1269-1280		0
5	Effect of terbium(III) species on the structure and physical properties of polyurethane (TPU). <i>Polymer</i> , <b>2021</b> , 233, 124209	3.9	0
4	Effect of Mesogenic Organic Salts on Vulcanization and Physical Properties of Natural Rubber Compounds. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1483, 9		
3	Multifunctional metal-free rechargeable polymer composite nanoparticles boosted by CO <sub>2</sub> . <i>Materials Today Sustainability</i> , <b>2020</b> , 10, 100048	5	

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