

# JosÃ© M GÃ³mez-Elvira

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7436888/publications.pdf>

Version: 2024-02-01

71  
papers

1,013  
citations

394421

19  
h-index

501196

28  
g-index

72  
all docs

72  
docs citations

72  
times ranked

571  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemiluminescence spectral evolution along the thermal oxidation of isotactic polypropylene. <i>Polymer Degradation and Stability</i> , 1999, 65, 113-121.	5.8	47
2	Tailoring the Formation Rate of the Mesophase in Random Propylene-co-1-pentene Copolymers. <i>Macromolecules</i> , 2012, 45, 6481-6490.	4.8	46
3	Influence of tacticity on the thermal degradation of PVC: 8. A comprehensive study of the local isotactic GTTG <sup>+</sup> conformation dependence of the mechanism of initiation. <i>Polymer</i> , 1996, 37, 219-230.	3.8	42
4	Enhancing the formation of the new trigonal polymorph in isotactic propene-1-pentene copolymers: Determination of the X-ray crystallinity. <i>Macromolecular Research</i> , 2011, 19, 1179-1185.	2.4	41
5	Changes in the crystalline phase during the thermo-oxidation of a metallocene isotactic polypropylene. A DSC study. <i>Polymer Degradation and Stability</i> , 2004, 83, 509-518.	5.8	38
6	The development of electrical treeing in LDPE and its nanocomposites with spherical silica and fibrous and laminar silicates. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 125208.	2.8	38
7	The role of microstructure, molar mass and morphology on local relaxations in isotactic polypropylene. The $\beta$ relaxation. <i>Polymer</i> , 2007, 48, 183-194.	3.8	36
8	Influence of tacticity on the thermal degradation of PVC. Part 7 <sup>+</sup> Further approaches to the conformational mechanism through a temperature effect study. <i>Polymer Degradation and Stability</i> , 1993, 40, 1-8.	5.8	35
9	On a novel interpretation of PVC antiplasticization based on some local chain conformations. <i>Polymer Bulletin</i> , 1994, 32, 353-359.	3.3	33
10	Photo-oxidation of thick isotactic polypropylene films I. Characterisation of the heterogeneous degradation kinetics. <i>Polymer Degradation and Stability</i> , 2000, 70, 357-364.	5.8	32
11	Melting and $\beta$ Relaxation Effects on the Kinetics of Polypropylene Thermooxidation in the Range 80 <sup>+</sup> ~170 <sup>+</sup> °C. <i>Macromolecules</i> , 2002, 35, 5922-5926.	4.8	32
12	Isotactic poly(propylene- <i>co</i> -1-pentene- <i>co</i> -1-hexene) terpolymers: Synthesis, molecular characterization, and evidence of the trigonal polymorph. <i>Journal of Polymer Science Part A</i> , 2013, 51, 3251-3259.	2.3	31
13	A comprehensive approach to the stereochemical and physical factors in nucleophilic substitution on PVC in the melt. <i>Journal of Applied Polymer Science</i> , 1989, 38, 1685-1698.	2.6	29
14	Physicochemical processes along the early stages of the thermal degradation of isotactic polypropylene I. Evolution of the $\beta$ relaxation under oxidative conditions. <i>Polymer Degradation and Stability</i> , 1999, 65, 297-302.	5.8	26
15	Photo-oxidation of thick isotactic polypropylene films II. Evolution of the low temperature relaxations and of the melting endotherm along the kinetic stages. <i>Polymer Degradation and Stability</i> , 2000, 71, 99-111.	5.8	23
16	The effect of physical parameters of isotactic polypropylene on its oxidisability measured by chemiluminescence method. Contribution to the spreading phenomenon. <i>Polymer Degradation and Stability</i> , 2001, 71, 253-260.	5.8	21
17	Effect of some tacticity-depending local chain conformations on the behaviour of poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Macromolecular Rapid Communications, 1994, 15, 189-196.	3.9	20
18	Change of thermal and dynamic-mechanical behaviour of a metallocene isotactic polypropylene during low-temperature thermo-oxidation. <i>Polymer Degradation and Stability</i> , 2005, 87, 543-553.	5.8	20

#	ARTICLE	IF	CITATIONS
19	Trigonal $\hat{I}$ form as a tool for tuning mechanical behavior in poly(propylene-co-1-pentene-co-1-heptene) terpolymers. <i>Polymer</i> , 2016, 99, 112-121.	3.8	20
20	Hybrid materials obtained by in situ polymerization based on polypropylene and mesoporous SBA-15 silica particles: Catalytic aspects, crystalline details and mechanical behavior. <i>Polymer</i> , 2018, 151, 218-230.	3.8	19
21	Relaxations and thermal stability of low molecular weight predominantly isotactic metallocene and Ziegler-Natta polypropylene. <i>Polymer Degradation and Stability</i> , 2004, 85, 873-882.	5.8	18
22	Confinement of iPP crystallites within mesoporous SBA-15 channels in extruded iPP-SBA-15 nanocomposites studied by Small Angle X-ray scattering. <i>Microporous and Mesoporous Materials</i> , 2018, 272, 209-216.	4.4	18
23	Solvent dependence of stereoselective substitution reaction on poly(vinyl chloride). A useful tool to investigate the tacticity effect on Tg. <i>European Polymer Journal</i> , 1993, 29, 685-688.	5.4	17
24	Specific polymer-solvent interaction and stereospecificity of nucleophilic substitution reaction of PVC. <i>Polymer Bulletin</i> , 1992, 28, 427-433.	3.3	15
25	Influence of microstructure and semi-crystalline morphology on the $\hat{I}^2$ and $\hat{I}^3$ mechanical relaxations of the metallocene isotactic polypropylene. <i>European Polymer Journal</i> , 2009, 45, 1322-1327.	5.4	15
26	Synthesis, molecular characterization, evaluation of polymorphic behavior and indentation response in isotactic poly(propylene-co-1-heptene) copolymers. <i>European Polymer Journal</i> , 2015, 64, 52-61.	5.4	15
27	Unprecedented dependence of stiffness parameters and crystallinity on comonomer content in rapidly cooled propylene-co-1-pentene copolymers. <i>Polymer</i> , 2017, 130, 17-25.	3.8	15
28	Molecular weight dependence and stereoselective chain cleavage during the early stages of the isotactic polypropylene pyrolysis. <i>Polymer Degradation and Stability</i> , 2017, 143, 26-34.	5.8	14
29	Configurational and conformational control of chemical modification and thermal degradation of poly(vinyl chloride). <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1989, 29, 185-196.	0.6	13
30	Tacticity induced molecular microstructure dependence of physical properties of polymers: fundamentals and overview of some tentative correlations. <i>European Polymer Journal</i> , 1998, 34, 833-839.	5.4	13
31	Correlation between chain microstructure and activation energy in the pyrolysis of a high molecular weight isotactic polypropylene. <i>Polymer Degradation and Stability</i> , 2015, 117, 46-57.	5.8	13
32	Effect of a cold helium plasma at $\sim 180^\circ\text{C}$ on polyolefin films II. The chemiluminescence component. <i>Polymer Degradation and Stability</i> , 1999, 64, 67-73.	5.8	12
33	Role of the interphase dynamics in the induction time of the thermo-oxidation of isotactic polypropylene. <i>Polymer Degradation and Stability</i> , 2006, 91, 1433-1442.	5.8	12
34	Microstructure of metallocene isotactic propylene-co-1-pentene-co-1-hexene terpolymers. <i>Journal of Polymer Science Part A</i> , 2014, 52, 2537-2547.	2.3	12
35	Variation of Ultimate Properties in Extruded iPP-Mesoporous Silica Nanocomposites by Effect of iPP Confinement within the Mesostructures. <i>Polymers</i> , 2020, 12, 70.	4.5	12
36	Degradative luminescent processes in atactic polypropylenel. Chemiluminescence along the thermooxidation. <i>Polymer Degradation and Stability</i> , 1999, 66, 41-47.	5.8	11

#	ARTICLE	IF	CITATIONS
37	Effect of a cold helium plasma at $\sim 180^\circ\text{C}$ on polyolefin films I. Plasma induced luminescence features of polyethylene and polypropylene. <i>Polymer Degradation and Stability</i> , 1999, 64, 59-66.	5.8	10
38	A New Insight into the Comonomer Effect through NMR Analysis in Metallocene Catalysed Propene- <i>co</i> -1-Nonene Copolymers. <i>Polymers</i> , 2019, 11, 1266.	4.5	10
39	Confinement of iPP chains in the interior of SBA-15 mesostructure ascertained by gas transport properties in iPP-SBA-15 nanocomposites prepared by extrusion. <i>Journal of Membrane Science</i> , 2019, 569, 137-148.	8.2	10
40	NMR study of the comonomer effect in metallocene poly(propylene- <i>co</i> -1-pentene) copolymers synthesized at low temperature. <i>Journal of Polymer Science Part A</i> , 2017, 55, 843-854.	2.3	9
41	The autoacceleration of polypropylene thermo-oxidation in reduced coordinates: effect of the oxidation temperature and of polyolefin structure. <i>Polymer Degradation and Stability</i> , 2001, 72, 23-30.	5.8	8
42	Resistance to surface partial discharges of LDPE nanocomposites. , 2007, , .		8
43	Effect of mesoporous SBA-15 silica on the thermal stability of isotactic polypropylene based nanocomposites prepared by melt extrusion. <i>Polymer Degradation and Stability</i> , 2018, 154, 211-221.	5.8	8
44	Unravelling the contribution of chain microstructure in the mechanism of the syndiotactic polypropylene pyrolysis. <i>Polymer Degradation and Stability</i> , 2013, 98, 1150-1163.	5.8	7
45	Fourier Transform Infrared Spectroscopy study of polymorphism in propylene- <i>co</i> -1-pentene copolymers: Trigonal form identification. <i>European Polymer Journal</i> , 2015, 63, 227-236.	5.4	7
46	Mesophase features in isotactic poly(propylene- <i>co</i> -1-heptene) copolymers. <i>Polymer International</i> , 2016, 65, 596-604.	3.1	6
47	The role of mesophases in the ordering of polymers. <i>European Polymer Journal</i> , 2016, 81, 661-673.	5.4	6
48	Microstructure and thermal stability in metallocene iPP-materials: 1-pentene and 1-hexene copolymers. <i>Polymer Degradation and Stability</i> , 2016, 124, 77-86.	5.8	6
49	Effect of iPP molecular weight on its confinement within mesoporous SBA-15 silica in extruded iPP/SBA-15 nanocomposites. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109945.	4.4	6
50	Degradative luminescent processes in atactic polypropylene II. Chemiluminescence after a cold He plasma attack at $\sim 180^\circ\text{C}$ . <i>Polymer Degradation and Stability</i> , 2000, 68, 353-362.	5.8	5
51	A representation of the autoacceleration stage of polypropylene thermooxidation in reduced coordinates. <i>Polymer Degradation and Stability</i> , 2000, 67, 49-56.	5.8	5
52	Thermal Oxidation and Its Relation to Chemiluminescence from Polyolefins and Polyamides. <i>Macromolecular Symposia</i> , 2004, 214, 261-278.	0.7	5
53	Electrical treeing inception and growth in LDPE nanocomposites. , 2007, , .		5
54	Local microstructure dependence of PVC interaction with solvents. A FTIR verification. <i>Macromolecular Symposia</i> , 1997, 114, 151-157.	0.7	4

#	ARTICLE	IF	CITATIONS
55	The role of microstructure in the pyrolysis of polypropylene. A preliminary study on the syndiotactic stereoisomer. <i>Polymer Degradation and Stability</i> , 2011, 96, 1087-1096.	5.8	4
56	Dependence of phase transitions on composition in isotactic poly(propylene-co-1-pentene-co-1-hexene) terpolymers. <i>RSC Advances</i> , 2016, 6, 82907-82915.	3.6	4
57	Electrical characterization of polymer-layered silicate nanocomposit. , 0, , .		3
58	Effect of microstructure on the thermo-oxidation of solid isotactic polypropylene-based polyolefins. <i>Science and Technology of Advanced Materials</i> , 2008, 9, 024404.	6.1	3
59	Surface partial discharges aging on thin polymeric nanocomposite films. , 2012, , .		3
60	Exploring Functionalities for the Development of High Thermal Stability Polypropylene-Based Dielectrics. <i>ACS Applied Energy Materials</i> , 2021, 4, 25-29.	5.1	3
61	Stereoselective nucleophilic substitution on poly(vinyl chloride) in concentrated dioctylphthalate solution as an approach to substitution in the melt. <i>European Polymer Journal</i> , 1989, 25, 361-364.	5.4	2
62	Influence of semi-crystalline morphology on the electrical breakdown properties of sPP based materials. , 2011, , .		2
63	Syndiotactic polypropylene based nanocomposites: Short and long term electrical characterisation. , 2012, , .		2
64	Mechanical and Transport Properties of Poly(propylene-co-1-heptene) Copolymers and Their Dependence on Monoclinic and/or Mesomorphic Polymorphs. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1347-1356.	2.6	2
65	Poly(propylene-co-1-pentene-co-1-heptene) terpolymers: Mechanical and rheological behavior. <i>Polymer</i> , 2018, 156, 44-53.	3.8	2
66	Synthesis of high thermal stability Polypropylene copolymers with pyrrole functionality. <i>Materials Today Communications</i> , 2022, 31, 103469.	1.9	2
67	Morphology, thermal properties and mechanical relaxations of metallocene syndiotactic polypropylenes. <i>E-Polymers</i> , 2012, 12, .	3.0	1
68	Influence of polymorphism and the new trigonal modification on the mechanical response of isotactic poly(propylene-co-1-pentene-co-1-hexene) terpolymers. <i>European Polymer Journal</i> , 2017, 97, 366-377.	5.4	1
69	Mesophase Formation in Isotactic Polypropylene Copolymers. , 2016, , 537-559.		0
70	The exceptional magnetic inequivalence in helical form I of poly-1-pentene. <i>Polymer</i> , 2016, 92, 164-169.	3.8	0
71	Chain Features and Their Influence on the Thermal Stability of Poly(propylene- <i>co</i> -1-nonene) Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900175.	2.2	0