

Marianella Hernandez

List of Publications by Year in descending order

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67
papers

3,272
citations

172457

29
h-index

149698

56
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68
all docs

68
docs citations

68
times ranked

3603
citing authors

#	ARTICLE	IF	CITATIONS
1	Unravelling the effect of healing conditions and vulcanizing additives on the healing performance of rubber networks. <i>Polymer</i> , 2022, 238, 124399.	3.8	19
2	Setting Relationships between Structure and Devulcanization of Ground Tire Rubber and Their Effect on Self-Healing Elastomers. <i>Polymers</i> , 2022, 14, 11.	4.5	4
3	The Final Frontier of Sustainable Materials: Current Developments in Self-Healing Elastomers. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4757.	4.1	17
4	Solving the Dichotomy between Self-Healing and Mechanical Properties in Rubber Composites by Combining Reinforcing and Sustainable Fillers. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	3.6	12
5	Design of self-healing styrene-butadiene rubber compounds with ground tire rubber-based reinforcing additives by means of DoE methodology. <i>Materials and Design</i> , 2022, 221, 110909.	7.0	7
6	Intrinsic Self-Healing Epoxies in Polymer Matrix Composites (PMCs) for Aerospace Applications. <i>Polymers</i> , 2021, 13, 201.	4.5	61
7	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> , 2021, 5, 68.	3.0	33
8	Measuring self-healing in epoxy matrices: The need for standard conditions. <i>Reactive and Functional Polymers</i> , 2021, 161, 104847.	4.1	12
9	Sustainable mobility: The route of tires through the circular economy model. <i>Waste Management</i> , 2021, 126, 309-322.	7.4	59
10	Reinforcement of natural rubber using a novel combination of conventional and in situ generated fillers. <i>Composites Part C: Open Access</i> , 2021, 5, 100133.	3.2	18
11	Understanding the Molecular Dynamics of Dual Crosslinked Networks by Dielectric Spectroscopy. <i>Polymers</i> , 2021, 13, 3234.	4.5	16
12	An effective and sustainable approach for achieving self-healing in nitrile rubber. <i>European Polymer Journal</i> , 2020, 139, 110032.	5.4	52
13	Evolution of self-healing elastomers, from extrinsic to combined intrinsic mechanisms: a review. <i>Materials Horizons</i> , 2020, 7, 2882-2902.	12.2	225
14	Electrical Properties of Poly(Monomethyl Itaconate)/Few-Layer Functionalized Graphene Oxide/Lithium Ion Nanocomposites. <i>Polymers</i> , 2020, 12, 2673.	4.5	3
15	Order and Dielectric Relaxation During Polymer Crystallization. <i>Advances in Dielectrics</i> , 2020, , 195-220.	1.2	0
16	Design of Rubber Composites with Autonomous Self-Healing Capability. <i>ACS Omega</i> , 2020, 5, 1902-1910.	3.5	65
17	In-situ cure monitoring of epoxy/graphene nanocomposites by several spectroscopic techniques. <i>Polymer Testing</i> , 2019, 80, 106114.	4.8	11
18	Thermo-reversible crosslinked natural rubber: A Diels-Alder route for reuse and self-healing properties in elastomers. <i>Polymer</i> , 2019, 175, 15-24.	3.8	82

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19	Electro-mechanical actuation performance of SEBS/PU blends. <i>Polymer</i> , 2019, 171, 25-33.	3.8	27
20	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> , 2019, 11, 2122.	4.5	41
21	Synergistic icephobic behaviour of swollen nitrile butadiene rubber graphene and/or carbon nanotube composites. <i>Composites Part B: Engineering</i> , 2019, 166, 352-360.	12.0	14
22	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> , 2018, 166, 109-114.	7.8	51
23	Routes to Make Natural Rubber Heal: A Review. <i>Polymer Reviews</i> , 2018, 58, 585-609.	10.9	48
24	Identifying the effect of aromatic oil on the individual component dynamics of SBR/BR blends by broadband dielectric spectroscopy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 842-854.	2.1	10
25	Understanding the Effect of the Dianhydride Structure on the Properties of Semiaromatic Polyimides Containing a Biobased Fatty Diamine. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 668-678.	6.7	38
26	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> , 2018, 106, 273-283.	5.4	37
27	Optimisation of Proton-Conducting sPEEK Membranes through a Thermal Treatment Method Monitored by Dielectric Spectroscopy. <i>ChemistrySelect</i> , 2018, 3, 2931-2942.	1.5	1
28	Reply to Comment on "Monitoring Network and Interfacial Healing Processes by Broadband Dielectric Spectroscopy: A Case Study on Natural Rubber". <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14552-14554.	8.0	6
29	Effect of graphene content on the restoration of mechanical, electrical and thermal functionalities of a self-healing natural rubber. <i>Smart Materials and Structures</i> , 2017, 26, 085010.	3.5	30
30	Response to Comment on "Turning Vulcanized Natural Rubber into a Self-Healing Polymer: Effect of the Disulfide/Polysulfide Ratio". <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11127-11129.	6.7	26
31	Monitoring Network and Interfacial Healing Processes by Broadband Dielectric Spectroscopy: A Case Study on Natural Rubber. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10647-10656.	8.0	51
32	Turning Vulcanized Natural Rubber into a Self-Healing Polymer: Effect of the Disulfide/Polysulfide Ratio. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5776-5784.	6.7	173
33	Characterization of Self-Healing Polymers: From Macroscopic Healing Tests to the Molecular Mechanism. <i>Advances in Polymer Science</i> , 2015, , 113-142.	0.8	39
34	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> , 2015, 68, 90-103.	5.4	51
35	One Dimensional PMMA Nanofibers from AAO Templates. Evidence of Confinement Effects by Dielectric and Raman Analysis. <i>Macromolecules</i> , 2013, 46, 4995-5002.	4.8	60
36	Structure and Segmental Dynamics Relationship in Natural Rubber/Layered Silicate Nanocomposites during Uniaxial Deformation. <i>Macromolecules</i> , 2013, 46, 3176-3182.	4.8	16

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37	Comparison of filler percolation and mechanical properties in graphene and carbon nanotubes filled epoxy nanocomposites. <i>European Polymer Journal</i> , 2013, 49, 1347-1353.	5.4	236
38	Towards materials with enhanced electro-mechanical response: CaCu ₃ Ti ₄ O ₁₂ polydimethylsiloxane composites. <i>Journal of Materials Chemistry</i> , 2012, 22, 24705.	6.7	72
39	Overall performance of natural rubber/graphene nanocomposites. <i>Composites Science and Technology</i> , 2012, 73, 40-46.	7.8	195
40	Study of the thermal stability of Nitrile rubber-coconut flour compounds. <i>Polymer Degradation and Stability</i> , 2012, 97, 2202-2211.	5.8	12
41	Role of Vulcanizing Additives on the Segmental Dynamics of Natural Rubber. <i>Macromolecules</i> , 2012, 45, 1070-1075.	4.8	54
42	Nitrile rubber bentonite composites: a thermal degradation study. <i>Polymer Bulletin</i> , 2012, 68, 1935-1950.	3.3	8
43	Cationic photocured epoxy nanocomposites filled with different carbon fillers. <i>Polymer</i> , 2012, 53, 1831-1838.	3.8	58
44	Effects of Strain-Induced Crystallization on the Segmental Dynamics of Vulcanized Natural Rubber. <i>Macromolecules</i> , 2011, 44, 6574-6580.	4.8	49
45	Functionalised graphene sheets as effective high dielectric constant fillers. <i>Nanoscale Research Letters</i> , 2011, 6, 508.	5.7	107
46	Characterization of NBR/bentonite composites: vulcanization kinetics and rheometric and mechanical properties. <i>Polymer Bulletin</i> , 2011, 67, 653-667.	3.3	23
47	Curing kinetics of NBR filled with coconut flour. <i>Polymer Composites</i> , 2011, 32, 529-536.	4.6	2
48	Recent Advances in Clay/Polymer Nanocomposites. <i>Advanced Materials</i> , 2011, 23, 5229-5236.	21.0	262
49	Molecular Dynamics of Natural Rubber/Layered Silicate Nanocomposites As Studied by Dielectric Relaxation Spectroscopy. <i>Macromolecules</i> , 2010, 43, 643-651.	4.8	94
50	Influence of content and particle size of waste pet bottles on concrete behavior at different w/c ratios. <i>Waste Management</i> , 2009, 29, 2707-2716.	7.4	336
51	Miscibility dispersion, interfacial strength and nanoclay mobility relationships in polymer nanocomposites. <i>Soft Matter</i> , 2009, 5, 3481.	2.7	21
52	HDPE-Coconut Flour Composites: Effect of Coupling Agents and Surface Modification. <i>Macromolecular Symposia</i> , 2009, 286, 70-80.	0.7	1
53	Influence of High Temperatures on PET-Concrete Properties. <i>Macromolecular Symposia</i> , 2009, 286, 195-202.	0.7	2
54	Fracture behavior at low strain rate of dynamically and statically vulcanized polypropylene/styrene-butadiene-styrene block copolymer blends. <i>Polymer Testing</i> , 2008, 27, 881-885.	4.8	7

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55	INFLUENCE OF ELEVATED TEMPERATURES ON PET-CONCRETE PROPERTIES. AIP Conference Proceedings, 2008, , .	0.4	0
56	STUDIES ON HDPE-COCONUT FLOUR COMPOSITES: EFFECT OF COUPLING AGENTS AND SURFACE MODIFICATION. AIP Conference Proceedings, 2008, , .	0.4	0
57	Curing and Physical Properties of Natural Rubber/Wood Flour Composites. Macromolecular Symposia, 2006, 239, 192-200.	0.7	19
58	Influence of Type of Vulcanization on Rheological and Thermal Properties of PP/NR Blends. Polymer Bulletin, 2006, 56, 285-291.	3.3	12
59	Characterization of blends of PP and SBS vulcanized with gamma irradiation. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 354-358.	1.4	5
60	Influence of scrap rubber addition to Portland I concrete composites: Destructive and non-destructive testing. Composite Structures, 2005, 71, 439-446.	5.8	178
61	Comparison of Rheological and Mechanical Behavior of Dynamically and Statically Vulcanized PP/SBS Blends. Polymer Bulletin, 2004, 51, 419-427.	3.3	16
62	Effects of Composition and Dynamic Vulcanization on the Rheological Properties of PP/NBR Blends. Polymer Bulletin, 2003, 50, 205-212.	3.3	18
63	Mechanical, thermal and morphological behaviour of the polystyrene/polypropylene (80/20) blend, irradiated with β -rays at low doses (0-70 kGy). Polymer Degradation and Stability, 2003, 80, 251-261.	5.8	37
64	Analysis of thermogravimetric data of blends of polyolefins with calcium carbonate treated with Lica 12. Polymer Degradation and Stability, 2001, 73, 211-224.	5.8	18
65	Effects of Particle Size and Size Distribution on the Mechanical Properties of EPDM/Silica Vulcanizates. Advanced Materials Research, 0, 47-50, 113-116.	0.3	6
66	Fracture Behavior of Polypropylene /Elastomer Blends. Advanced Materials Research, 0, 47-50, 278-281.	0.3	2
67	Effects of Orientation on the Segmental Dynamics of Natural Rubber. Materials Science Forum, 0, 714, 57-61.	0.3	1