

# Lourdes Irusta

## List of Publications by Year in descending order

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78  
papers

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citations

230014

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78  
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Polydimethylsiloxane containing waterborne hydrophobic polyurethane coatings with good adhesion to metals: Synthesis and characterization. <i>Progress in Organic Coatings</i> , 2022, 162, 106564.	1.9	7
2	Enhanced and Reusable Poly(hydroxy urethane)-Based Low Temperature Hot-Melt Adhesives. <i>ACS Polymers Au</i> , 2022, 2, 194-207.	1.7	15
3	Polyurethane/acrylic hybrid dispersions containing phosphorus reactive flame retardants as transparent coatings for wood. <i>Progress in Organic Coatings</i> , 2022, 170, 107005.	1.9	5
4	Synthesis of segmented polyurethanes containing different oligo segments: Experimental and computational approach. <i>Progress in Organic Coatings</i> , 2021, 150, 105965.	1.9	7
5	Healable and self-healing polyurethanes using dynamic chemistry. <i>Progress in Polymer Science</i> , 2021, 114, 101362.	11.8	132
6	Recyclable Epoxy Resin via Simultaneous Dual Permanent/Reversible Crosslinking Based on Diels-Alder Chemistry. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100146.	1.1	12
7	Recyclable, remendable and healing polyurethane/acrylic coatings from UV curable waterborne dispersions containing Diels-Alder moieties. <i>Progress in Organic Coatings</i> , 2020, 139, 105460.	1.9	20
8	Microphase Arrangement of Smart Superhydrophilic Segmented Polyurethanes at Their Interface with Water. <i>Langmuir</i> , 2020, 36, 13201-13209.	1.6	8
9	Fully Reversible Spherulitic Morphology in Cationically Photopolymerized DGEBA/PCL Shape-Memory Blends. <i>Macromolecules</i> , 2020, 53, 1368-1379.	2.2	12
10	Reprogrammable Permanent Shape Memory Materials Based on Reversibly Crosslinked Epoxy/PCL Blends. <i>Molecules</i> , 2020, 25, 1568.	1.7	7
11	Unravelling fullerene-perovskite interactions introduces advanced blend films for performance-improved solar cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2779-2787.	2.5	16
12	One pot stimuli-responsive linear waterborne polyurethanes via Diels-Alder reaction. <i>Progress in Organic Coatings</i> , 2019, 130, 31-43.	1.9	22
13	Synthesis of self-healable waterborne isocyanate-free poly(hydroxyurethane)-based supramolecular networks by ionic interactions. <i>Polymer Chemistry</i> , 2019, 10, 2723-2733.	1.9	41
14	Synthesis and comprehensive study on industrially relevant flame retardant waterborne polyurethanes based on phosphorus chemistry. <i>Progress in Organic Coatings</i> , 2019, 131, 397-406.	1.9	43
15	PET-PLA Partially Degradable Random Copolymers Prepared by Organocatalysis: Effect of Poly(l-lactic acid) Incorporation on Crystallization and Morphology. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8647-8659.	3.2	28
16	Analysis of the Process Parameters for Obtaining a Stable Electrospun Process in Different Composition Epoxy/Poly $\epsilon$ -Caprolactone Blends with Shape Memory Properties. <i>Polymers</i> , 2019, 11, 475.	2.0	16
17	Dispersion Characteristics and Curing Behaviour of Waterborne UV Crosslinkable Polyurethanes Based on Renewable Dimer Fatty Acid Polyesters. <i>Journal of Polymers and the Environment</i> , 2019, 27, 189-197.	2.4	12
18	Miscibility and degradation of polymer blends based on biodegradable poly(butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (adipa	2.7	33

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19	Screening of different organocatalysts for the sustainable synthesis of PET. <i>European Polymer Journal</i> , 2018, 104, 170-176.	2.6	36
20	In situ monitoring of isophorone diisocyanate-based flexible polyurethane foams formation. <i>Journal of Cellular Plastics</i> , 2018, 54, 37-52.	1.2	7
21	Nanostructure development in polystyrene-b-polybutadiene-b-poly(methyl methacrylate) (SBM) thin films by atomic force microscopy: Effect of copolymer composition and solvent. <i>Polymer Engineering and Science</i> , 2018, 58, 422-429.	1.5	2
22	Thermal and fire behavior of isophorone diisocyanate based polyurethane foams containing conventional flame retardants. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45944.	1.3	8
23	Effect of hydrogen bonding on the physicochemical and rheological features of chemically modified phenoxy. <i>Polymer</i> , 2018, 159, 12-22.	1.8	7
24	Unexpected Synthesis of Segmented Poly(hydroxyurea-urethane)s from Dicyclic Carbonates and Diamines by Organocatalysis. <i>Macromolecules</i> , 2018, 51, 5556-5566.	2.2	69
25	Nanostructured polymer blends based on polystyrene-polybutadiene-poly(methyl methacrylate) homopolymers. <i>Polymer International</i> , 2017, 66, 1031-1036.	1.6	4
26	The role of cellulose nanocrystals incorporation route in waterborne polyurethane for preparation of electrospun nanocomposites mats. <i>Carbohydrate Polymers</i> , 2017, 166, 146-155.	5.1	24
27	Aromatic diselenide crosslinkers to enhance the reprocessability and self-healing of polyurethane thermosets. <i>Polymer Chemistry</i> , 2017, 8, 3641-3646.	1.9	102
28	Electrospinning of cationically polymerized epoxy/polycaprolactone blends to obtain shape memory fibers (SMF). <i>European Polymer Journal</i> , 2017, 94, 376-383.	2.6	20
29	Antimicrobial polyurethane foams having cationic ammonium groups. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45473.	1.3	23
30	Polyurethanes based on isophorone diisocyanate trimer and polypropylene glycol crosslinked by thermal reversible diels alder reactions. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	26
31	Autonomic healable waterborne organic-inorganic polyurethane hybrids based on aromatic disulfide moieties. <i>EXPRESS Polymer Letters</i> , 2017, 11, 266-277.	1.1	54
32	Biocompatibility and hemocompatibility evaluation of polyether urethanes synthesized using DBU organocatalyst. <i>European Polymer Journal</i> , 2016, 84, 750-758.	2.6	14
33	Study of the crosslinking process of waterborne UV curable polyurethane acrylates. <i>Progress in Organic Coatings</i> , 2016, 99, 437-442.	1.9	42
34	Coumarin based light responsive healable waterborne polyurethanes. <i>Progress in Organic Coatings</i> , 2016, 99, 314-321.	1.9	45
35	Resistance to protein sorption as a model of antifouling performance of Poly(siloxane-urethane) coatings exhibiting phase separated morphologies. <i>Progress in Organic Coatings</i> , 2016, 99, 110-116.	1.9	21
36	Oxygen Barrier Properties of Waterborne Polyurethane/Silica Hybrids. <i>Journal of Macromolecular Science - Physics</i> , 2015, 54, 711-721.	0.4	3

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37	Biodegradable Copolyester Fibers by Solution Electrospinning. <i>Journal of Renewable Materials</i> , 2015, 3, 44-48.	1.1	0
38	UV-light responsive waterborne polyurethane based on coumarin: synthesis and kinetics of reversible chain extension. <i>Journal of Polymer Research</i> , 2014, 21, 1.	1.2	23
39	Microphase separation and hydrophobicity of urethane/siloxane copolymers with low siloxane content. <i>Progress in Organic Coatings</i> , 2014, 77, 798-802.	1.9	20
40	Polymer/silica nanohybrids by means of tetraethoxysilane sol-gel condensation onto waterborne polyurethane particles. <i>Progress in Organic Coatings</i> , 2014, 77, 1436-1442.	1.9	25
41	Performance evaluation of alkyd coatings for corrosion protection in urban and industrial environments. <i>Progress in Organic Coatings</i> , 2013, 76, 1273-1278.	1.9	14
42	Waterborne hybrid polyurethane coatings functionalized with (3-aminopropyl)triethoxysilane: Adhesion properties. <i>Progress in Organic Coatings</i> , 2013, 76, 1230-1235.	1.9	42
43	Tailored Morphologies of Poly(styrene-block-butadiene-block-methyl methacrylate) Triblock Copolymers and Their Blends with Polystyrene Homopolymers. <i>Macromolecular Symposia</i> , 2012, 321-322, 124-129.	0.4	0
44	Synthesis and Rheological Behavior of Supramolecular Ionic Networks Based on Citric Acid and Aliphatic Diamines. <i>Macromolecules</i> , 2012, 45, 7599-7606.	2.2	49
45	Application of TGA/FTIR to the study of the thermal degradation mechanism of silanized poly(ether-urethanes). <i>Polymer Degradation and Stability</i> , 2012, 97, 1671-1679.	2.7	30
46	Urethane/Siloxane Copolymers with Hydrophobic Properties. <i>Macromolecular Symposia</i> , 2012, 321-322, 150-154.	0.4	6
47	Thermal and mechanical behaviour of self-curable waterborne hybrid polyurethanes functionalized with (3-aminopropyl)triethoxysilane (APTES). <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	38
48	Preparation of superhydrophobic silica nanoparticles by microwave assisted sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 8-13.	1.1	13
49	Oxygen permeability through poly(ethylene-co-vinyl acetate)/clay nanocomposites prepared by microwave irradiation. <i>Journal of Membrane Science</i> , 2011, 373, 173-177.	4.1	13
50	Waterborne polyurethane dispersions obtained by the acetone process: A study of colloidal features. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2054-2062.	1.3	60
51	Production of hydrophobic surfaces in biodegradable and biocompatible polymers using polymer solution electrospinning. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1520-1524.	1.3	6
52	Silica nanoparticles obtained by microwave assisted sol-gel process: multivariate analysis of the size and conversion dependence. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 667-672.	1.1	14
53	Characterization of silanized poly(ether-urethane) hybrid systems using thermogravimetric analysis (TG). <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 101, 331-337.	2.0	10
54	Electrospinning of waterborne polyurethanes. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1176-1179.	1.3	41

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55	Synthesis of room temperature self-curable waterborne hybrid polyurethanes functionalized with (3-aminopropyl)triethoxysilane (APTES). <i>Polymer</i> , 2010, 51, 5051-5057.	1.8	132
56	Pyrolysis analysis of different Cuban natural fibres by TGA and GC/FTIR. <i>Biomass and Bioenergy</i> , 2010, 34, 1573-1577.	2.9	12
57	Infrared study of the photochemical behaviour of aromatic poly(ether urethanes): effect of various stabilizers. <i>E-Polymers</i> , 2009, 9, .	1.3	3
58	Synthesis of isophorone diisocyanate (IPDI) based waterborne polyurethanes: Comparison between zirconium and tin catalysts in the polymerization process. <i>Progress in Organic Coatings</i> , 2009, 66, 291-295.	1.9	87
59	Migration of antifog additives in agricultural films of low-density polyethylene and ethylene vinyl acetate copolymers. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2299-2307.	1.3	23
60	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (phenol 2922-2928.	1.3	4
61	Comparison of synthetic procedures for the preparation of sol-gel derived phenoxy-silica hybrid materials. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 49, 19-28.	1.1	3
62	Photooxidation and stabilization of silanised poly(ether-urethane) hybrid systems. <i>Polymer Degradation and Stability</i> , 2007, 92, 2173-2180.	2.7	7
63	Synthesis of silanized polyether urethane hybrid systems. Study of the curing process through hydrogen bonding interactions. <i>European Polymer Journal</i> , 2006, 42, 2069-2080.	2.6	34
64	Determination of the self-association and inter-association equilibrium constants of a carboxylic acid and its mixtures with pyridine derivates. <i>Vibrational Spectroscopy</i> , 2006, 41, 21-27.	1.2	6
65	Infrared study of the photochemical behaviour of aromatic Poly (ether urethanes). <i>E-Polymers</i> , 2006, 6, .	1.3	0
66	Application of pyrolysis/gas chromatography/Fourier transform infrared spectroscopy and TGA techniques in the study of thermal degradation of poly (3-hydroxybutyrate). <i>Polymer Degradation and Stability</i> , 2005, 87, 347-354.	2.7	54
67	Infrared spectroscopic studies of the self-association of aromatic urethanes. <i>Vibrational Spectroscopy</i> , 2005, 39, 144-150.	1.2	3
68	Evaluation of fiber surface treatment and toughening of thermoset matrix on the interfacial behaviour of carbon fiber-reinforced cyanate matrix composites. <i>Composites Science and Technology</i> , 2005, 65, 2189-2197.	3.8	39
69	Miscibility behaviour of amorphous poly(3-hydroxybutyrate) (a-PHB)/styrene vinyl phenol copolymer (STY-co-VPH) blends applying an association model. <i>Polymer</i> , 2004, 45, 1477-1483.	1.8	11
70	Thermodynamics of hydrogen bonding in polycomplexes of poly(4-vinylpyridine) with maleic acid-alt-ethylene copolymer. <i>Thermochimica Acta</i> , 2003, 402, 209-218.	1.2	21
71	Hydrogen-Bonding Interactions between Formic Acid and Pyridine. <i>Journal of Physical Chemistry A</i> , 2002, 106, 4187-4191.	1.1	41
72	Scavenging of Fluorinated N-Dialkylureas by Hydrogen Binding: A Novel Separation Method for Fluorous Synthesis. <i>Organic Letters</i> , 2001, 3, 2361-2364.	2.4	36

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73	Infrared spectroscopic studies of the urethane/ether inter-association. <i>Vibrational Spectroscopy</i> , 2001, 27, 183-191.	1.2	11
74	Aromatic poly(ester-urethanes): effect of the polyol molecular weight on the photochemical behaviour. <i>Polymer</i> , 2000, 41, 3297-3302.	1.8	28
75	Infrared spectroscopic studies of the self-association of ethyl urethane. <i>Vibrational Spectroscopy</i> , 2000, 23, 187-197.	1.2	20
76	The effect of a miscible and an immiscible polymeric modifier on the mechanical and rheological properties of PVC. <i>European Polymer Journal</i> , 2000, 36, 1011-1025.	2.6	30
77	Aromatic poly(ether-urethanes): effect of the polyol molecular weight on the photochemical behaviour. <i>Polymer</i> , 1999, 40, 4821-4831.	1.8	14
78	Photooxidative behaviour of segmented aliphatic polyurethanes. <i>Polymer Degradation and Stability</i> , 1999, 63, 113-119.	2.7	56