Julio Guzmn

List of Publications by Year in Descending Order

75 papers	1,003 citations	17 h-index	27 g-index
78 ext. papers	1,078 ext. citations	4.9 avg, IF	3.81 L-index

#	Paper	IF	Citations
75	Properties of polyurethanes derived from poly(diethylene glycol terephthalate). *European Polymer Journal*, **2021**, 155, 110576	5.2	2
74	Ionic Conductivity, Diffusion Coefficients, and Degree of Dissociation in Lithium Electrolytes, Ionic Liquids, and Hydrogel Polyelectrolytes. *Journal of Physical Chemistry B*, **2018**, 122, 8301-8308	3.4	8
73	Influence of Diffusion Time on the Diffusion Coefficients of Gases in Polymers Determined by Pulsed Gradient Spin Echo NMR. *Macromolecules*, **2018**, 51, 8681-8688	5.5	2
72	Determination of Gas Transport Coefficients of Mixed Gases in 6FDA-TMPDA Polyimide by NMR Spectroscopy. *Macromolecules*, **2017**, 50, 3590-3597	5.5	10
71	Scalable plasticized polymer electrolytes reinforced with surface-modified sepiolite fillers A feasibility study in lithium metal polymer batteries. *Journal of Power Sources*, **2016**, 306, 772-778	8.9	25
70	Gas Transport Coefficients of Phthalide-Containing High-Tg Glassy Polymers Determined by Gas-Flux and NMR Measurements. *Macromolecules*, **2015**, 48, 2585-2592	5.5	6
69	Ion diffusion coefficients model and molar conductivities of ionic salts in aprotic solvents. *Journal of Physical Chemistry B*, **2015**, 119, 3097-103	3.4	8
68	Thermoplastic and solid-like electrolytes with liquid-like ionic conductivity based on poly(ethylene oxide) nanocomposites. *Solid State Ionics*, **2014**, 261, 74-80	3.3	19
67	Surface modification of sepiolite nanofibers with PEG based compounds to prepare polymer electrolytes. *Applied Clay Science*, **2014**, 95, 265-274	5.2	25
66	Determination of Oxygen Permeability in Acrylic-Based Hydrogels by Proton NMR Spectroscopy and Imaging. *Macromolecular Chemistry and Physics*, **2014**, 215, 624-637	2.6	7
65	Extrusion Processed Polymer Electrolytes based on Poly(ethylene oxide) and Modified Sepiolite Nanofibers: Effect of Composition and Filler Nature on Rheology and Conductivity. *Electrochimica Acta*, **2014**, 137, 526-534	6.7	14
64	Polymerization of Methyl Methacrylate with Lithium Triflate. A Kinetic and Structural Study. *Macromolecules*, **2013**, 46, 5445-5454	5.5	14
63	Confinement and nucleation effects in poly(ethylene oxide) melt-compounded with neat and coated sepiolite nanofibers: Modulation of the structure and semicrystalline morphology. *European Polymer Journal*, **2013**, 49, 118-129	5.2	25
62	Determination of carbon dioxide transport coefficients in liquids and polymers by NMR spectroscopy. *Journal of Physical Chemistry B*, **2012**, 116, 6050-8	3.4	16
61	Polymerization Kinetics of Ethylene Oxide Methacrylates in Ionic Media. *Macromolecular Chemistry and Physics*, **2011**, 212, 860-869	2.6	17
60	Surface modification of sepiolite in aqueous gels by using methoxysilanes and its impact on the nanofiber dispersion ability. *Langmuir*, **2011**, 27, 3952-9	4	71
59	Effects of Tricresylphosphate on Gas Transport Coefficients in Matrimid and 6FDA-TMPD Polyimides. *Macromolecules*, **2011**, 44, 3862-3873	5.5	12

58	Microwave versus conventional heating in the grafting of alkyltrimethoxysilanes onto silica particles. *Langmuir*, **2010**, 26, 5499-506	4	24
57	Comparing the effect of nanofillers as thermal stabilizers in low density polyethylene. *Polymer Degradation and Stability*, **2009**, 94, 39-48	4.7	79
56	Evidence of a monoclinic-like amorphous phase in composites of LDPE with spherical, fibrous and laminar nanofillers as studied by infrared spectroscopy. *European Polymer Journal*, **2009**, 45, 30-39	5.2	7
55	The development of electrical treeing in LDPE and its nanocomposites with spherical silica and fibrous and laminar silicates. *Journal Physics D: Applied Physics*, **2008**, 41, 125208	3	32
54	Influence of structural chemical characteristics on polymer chain dynamics. *Journal of Chemical Physics*, **2008**, 129, 054903	3.9	9
53	Nominal vs Real Reaction Temperature in PLP Experiments. A Likely Explanation of the Observed Variation in the Propagation Rate Coefficients with Pulse Repetition Rate. *Macromolecules*, **2007**, 40, 4802-4808	5.5	16
52	Persistent Radicals and Transfer Reactions in the Postpolymerization of Methyl Methacrylate. *Macromolecules*, **2007**, 40, 8168-8177	5.5	3
51	DFT study of the EPR spectral pattern of propagating methacrylic radicals. *Chemical Physics*, **2007**, 340, 237-244	2.3	15
50	Functionalization of SBA-15 by an acid-catalyzed approach: A surface characterization study. *Microporous and Mesoporous Materials*, **2007**, 106, 129-139	5.3	55
49	Understanding the role of nanosilica particle surfaces in the thermal degradation of nanosilica□poly(methyl methacrylate) solution-blended nanocomposites: From low to high silica concentration. *Polymer Degradation and Stability*, **2007**, 92, 635-643	4.7	45
48	Use of p-toluenesulfonic acid for the controlled grafting of alkoxysilanes onto silanol containing surfaces: preparation of tunable hydrophilic, hydrophobic, and super-hydrophobic silica. *Journal of the American Chemical Society*, **2007**, 129, 5052-60	16.4	90
47	Dipole correlation and relaxation behavior of flexible bulky low molecular weight esters. *Journal of Molecular Liquids*, **2006**, 123, 1-7	6	
46	Long-Lived Radicals in the Postpolymerization of Methacrylic Monomers at Low Conversions. *Macromolecules*, **2005**, 38, 7601-7609	5.5	3
45	A potentiostatic study of oxygen transport through poly(2-ethoxyethyl methacrylate-co-2,3-dihydroxypropylmethacrylate) hydrogel membranes. *Biomaterials*, **2005**, 26, 3783-91	15.6	20
44	Dielectric relaxations in polymers containing dioxacyclohexane rings by thermostimulated depolarization currents. *Macromolecular Symposia*, **2003**, 191, 177-190	0.8	1
43	Enhancement of the first normal stress coefficient and dynamic moduli during shear thickening of a polymer solution. *Journal of Rheology*, **2003**, 47, 1041-1050	4.1	15
42	Simulations of diffusive and sorption processes of gases in polyimide membranes: Comparison with experiments. *Physical Chemistry Chemical Physics*, **2003**, 5, 2862-2868	3.6	18
41	Stress□optical behaviour of polyester networks. *Polymer International*, **2002**, 51, 203-207	3.3	

40	Transport of helium in polycarbonate membranes. *Polymer*, **2002**, 43, 409-413	3.9	7
39	Radical Polymerization of Isomeric Methacrylic Monomers: cis- and trans-(2-Phenyl-1,3-dioxan-5-yl) Methacrylate. *Macromolecules*, **2002**, 35, 2926-2933	5.5	14
38	Comparison of Simulated and Experimental Transport of Gases in Commercial Poly(vinyl chloride). *Macromolecules*, **2002**, 35, 4167-4174	5.5	17
37	Rheological behaviour of solutions of poly(2-hydroxyethyl methacrylamide) in glycerine. *Polymer*, **2001**, 42, 7395-7401	3.9	8
36	Experimental and simulation studies on the transport of gaseous diatomic molecules in polycarbonate membranes. *Journal of Chemical Physics*, **2001**, 115, 6728-6736	3.9	20
35	Experimental and Simulation Studies on the Transport of Argon in Polycarbonate Membranes. *Macromolecules*, **2001**, 34, 4999-5004	5.5	16
34	Stress Optical Behavior of Partially Fluorinated Aliphatic Polyesters. *Macromolecules*, **2000**, 33, 9464-9467	5.5	7
33	Experimental and theoretical studies on the permeation of argon through matrices of acrylic polymers containing 1,3-dioxane groups in their structure. *Journal of Chemical Physics*, **1999**, 110, 3200-3206	3.9	7
32	Experimental and Simulation Studies on the Transport of Argon through Poly(pentaerythritoltribenzoate acrylate). *Macromolecules*, **1998**, 31, 7488-7494	5.5	21
31	Conformational and Experimental Studies on the Dipole Moments of Models of Comblike Polymers. *Macromolecules*, **1997**, 30, 6369-6375	5.5	1
30	Influence of Chair-to-Chair Reversal Transitions on the Dipole Moment of 5-(Acetoxymethyl)-5-ethyl-1,3-dioxacyclohexane. *The Journal of Physical Chemistry*, **1996**, 100, 3818-3824		8
29	Conformational Characteristics of Aliphatic Diesters Derived from Fluorinated Diacids. *The Journal of Physical Chemistry*, **1996**, 100, 13492-13497		4
28	Dynamics and Polarity of Substituted 1,3-Dioxacyclohexanes. *The Journal of Physical Chemistry*, **1996**, 100, 18345-18350		9
27	Synthesis and Polarity of Acrylate Polymers with Long Hydrophilic Side Groups. *Macromolecules*, **1996**, 29, 1728-1733	5.5	4
26	Synthesis, polymerization and copolymerization of N-(2-acryloyloxyethyl)phthalimide. *Polymer*, **1992**, 33, 1090-1095	3.9	1
25	Dielectric response in esters derived from aliphatic acids and 2,2-bis[4-(2-hydroxyethoxy)phenyl]propane (dianol 22). *The Journal of Physical Chemistry*, **1991**, 95, 7104-7108		2
24	Effects of orientation on the mechanical and dielectric relaxation behavior of cycloaliphatic polyester networks. *Journal of Polymer Science, Part B: Polymer Physics*, **1991**, 29, 93-98	2.6	5
23	Configurational properties of polyesters derived from aliphatic diacids and 2,2-bis[4-(2-hydroxyethoxy)phenyl]propane. *Macromolecules*, **1991**, 24, 5357-5360	5.5	2

22	Conformational studies on 2,2-bis[4-(2-hydroxyethoxy)phenyl]propane diacetate and 2,2[-oxydi-N-carbethoxycarbazole. *The Journal of Physical Chemistry*, **1990**, 94, 7435-7439		5
21	Effects of orientation on the dielectric glass□rubber relaxation of amorphous networks. *Journal of Polymer Science, Part B: Polymer Physics*, **1990**, 28, 1551-1563	2.6	5
20	Conformational studies on cycloaliphatic polyethers obtained by ring-opening of bicyclic ethers. *Macromolecules*, **1990**, 23, 3573-3576	5.5	2
19	Dielectric and mechanical relaxations in cycloaliphatic polyformal networks. *Macromolecules*, **1989**, 22, 1821-1826	5.5	3
18	Conformational and relaxation studies on polyesters derived from terephthalic acid and propylene and dipropylene glycol. *Macromolecules*, **1989**, 22, 3654-3659	5.5	9
17	Influence of static strain on the dynamic mechanical properties of poly(diethyleneglycol isophthalate) networks. *Polymer*, **1988**, 29, 2203-2207	3.9	6
16	Mechanical and dielectric relaxations in cycloaliphatic polyester networks. *Macromolecules*, **1988**, 21, 2121-2127	5.5	3
15	An experimental study of the conformational energies of poly(neopentyl glycol succinate). *Journal of the Chemical Society Perkin Transactions II*, **1988**, 299-303		3
14	Conformational characteristics of phthalic acid based polyesters. *Macromolecules*, **1987**, 20, 1641-1645	5.5	16
13	Conformational characteristics of aromatic polyesters: Comparative study of the polarity of poly(propyleneglycol terephthalate) and poly(ethyleneglycol terephthalate). *Journal of Polymer Science, Part B: Polymer Physics*, **1987**, 25, 2403-2407	2.6	2
12	Influence of static strain on viscoelastic phenomena associated with the glass-rubber transition of elastomers prepared from poly(neopentylglycol adipate). *Polymer*, **1987**, 28, 2190-2194	3.9	7
11	Conformational energies and random-coil configurations of aliphatic polyesters. *Macromolecules*, **1986**, 19, 2567-2572	5.5	7
10	Random-coil configurations of alicyclic poly(thioformals). *Macromolecules*, **1985**, 18, 2739-2743	5.5	5
9	Random coil configurations of poly(diethylene glycol isophthalate). Capability of model network formation. *Die Makromolekulare Chemie*, **1984**, 185, 1943-1952		7
8	Random-coil configurations of aromatic polyesters: Stress-optical behavior of poly(diethylene glycol terephthalate). *Journal of Polymer Science, Polymer Physics Edition*, **1984**, 22, 917-929		25
7	Birefringence of amorphous polyoxides: Stress-optical behavior of poly(3-methyltetrahydrofuran). *Journal of Polymer Science, Polymer Physics Edition*, **1984**, 22, 2165-2174		4
6	Thermoelastic and dielectric properties of poly(3-methyltetrahydrofuran): correlation between theory and experiment. *Macromolecules*, **1984**, 17, 1234-1238	5.5	3
5	Molecular aspects of the rubber elasticity of poly(diethylene glycol terephthalate) networks. *Macromolecules*, **1984**, 17, 1048-1054	5.5	3

4	Study of the microstructure of tetrahydrofuran-3-methyltetrahydrofuran copolymers: computer simulation of the copolymerization reaction. *Macromolecules*, **1984**, 17, 2005-2009	5.5	4
3	Ring-opening polymerization of 3-methyloxetane: NMR spectroscopy and configurational properties of the polymer. *Macromolecules*, **1984**, 17, 1431-1436	5.5	10
2	Carbon-13 NMR spectroscopic study of the microstructure of poly(3-methyltetrahydrofuran). *Macromolecules*, **1983**, 16, 1241-1243	5.5	2
1	Random-coil configurations of alicyclic polyformals. *Polymer*, **1981**, 22, 465-468	3.9	4