

Julio Guzmán

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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	Use of p-toluenesulfonic acid for the controlled grafting of alkoxy silanes onto silanol containing surfaces: preparation of tunable hydrophilic, hydrophobic, and super-hydrophobic silica. <i>Journal of the American Chemical Society</i> , 2007 , 129, 5052-60	16.4	90
74	Comparing the effect of nanofillers as thermal stabilizers in low density polyethylene. <i>Polymer Degradation and Stability</i> , 2009 , 94, 39-48	4.7	79
73	Surface modification of sepiolite in aqueous gels by using methoxysilanes and its impact on the nanofiber dispersion ability. <i>Langmuir</i> , 2011 , 27, 3952-9	4	71
72	Functionalization of SBA-15 by an acid-catalyzed approach: A surface characterization study. <i>Microporous and Mesoporous Materials</i> , 2007 , 106, 129-139	5.3	55
71	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. <i>Polymer Degradation and Stability</i> , 2007 , 92, 635-643	4.7	45
70	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	3	32
69	Scalable plasticized polymer electrolytes reinforced with surface-modified sepiolite fillers [A feasibility study in lithium metal polymer batteries. <i>Journal of Power Sources</i> , 2016 , 306, 772-778	8.9	25
68	Surface modification of sepiolite nanofibers with PEG based compounds to prepare polymer electrolytes. <i>Applied Clay Science</i> , 2014 , 95, 265-274	5.2	25
67	Confinement and nucleation effects in poly(ethylene oxide) melt-compounded with neat and coated sepiolite nanofibers: Modulation of the structure and semicrystalline morphology. <i>European Polymer Journal</i> , 2013 , 49, 118-129	5.2	25
66	Random-coil configurations of aromatic polyesters: Stress-optical behavior of poly(diethylene glycol terephthalate). <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1984 , 22, 917-929		25
65	Microwave versus conventional heating in the grafting of alkyltrimethoxysilanes onto silica particles. <i>Langmuir</i> , 2010 , 26, 5499-506	4	24
64	Experimental and Simulation Studies on the Transport of Argon through Poly(pentaerythritoltribenzoate acrylate). <i>Macromolecules</i> , 1998 , 31, 7488-7494	5.5	21
63	A potentiostatic study of oxygen transport through poly(2-ethoxyethyl methacrylate-co-2,3-dihydroxypropylmethacrylate) hydrogel membranes. <i>Biomaterials</i> , 2005 , 26, 3783-91	15.6	20
62	Experimental and simulation studies on the transport of gaseous diatomic molecules in polycarbonate membranes. <i>Journal of Chemical Physics</i> , 2001 , 115, 6728-6736	3.9	20
61	Thermoplastic and solid-like electrolytes with liquid-like ionic conductivity based on poly(ethylene oxide) nanocomposites. <i>Solid State Ionics</i> , 2014 , 261, 74-80	3.3	19
60	Simulations of diffusive and sorption processes of gases in polyimide membranes: Comparison with experiments. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 2862-2868	3.6	18
59	Polymerization Kinetics of Ethylene Oxide Methacrylates in Ionic Media. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 860-869	2.6	17

58	Comparison of Simulated and Experimental Transport of Gases in Commercial Poly(vinyl chloride). <i>Macromolecules</i> , 2002 , 35, 4167-4174	5.5	17
57	Determination of carbon dioxide transport coefficients in liquids and polymers by NMR spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 6050-8	3.4	16
56	Nominal vs Real Reaction Temperature in PLP Experiments. A Likely Explanation of the Observed Variation in the Propagation Rate Coefficients with Pulse Repetition Rate. <i>Macromolecules</i> , 2007 , 40, 4802-4808	5.5	16
55	Experimental and Simulation Studies on the Transport of Argon in Polycarbonate Membranes. <i>Macromolecules</i> , 2001 , 34, 4999-5004	5.5	16
54	Conformational characteristics of phthalic acid based polyesters. <i>Macromolecules</i> , 1987 , 20, 1641-1645	5.5	16
53	DFT study of the EPR spectral pattern of propagating methacrylic radicals. <i>Chemical Physics</i> , 2007 , 340, 237-244	2.3	15
52	Enhancement of the first normal stress coefficient and dynamic moduli during shear thickening of a polymer solution. <i>Journal of Rheology</i> , 2003 , 47, 1041-1050	4.1	15
51	Polymerization of Methyl Methacrylate with Lithium Triflate. A Kinetic and Structural Study. <i>Macromolecules</i> , 2013 , 46, 5445-5454	5.5	14
50	Extrusion Processed Polymer Electrolytes based on Poly(ethylene oxide) and Modified Sepiolite Nanofibers: Effect of Composition and Filler Nature on Rheology and Conductivity. <i>Electrochimica Acta</i> , 2014 , 137, 526-534	6.7	14
49	Radical Polymerization of Isomeric Methacrylic Monomers: cis- and trans-(2-Phenyl-1,3-dioxan-5-yl) Methacrylate. <i>Macromolecules</i> , 2002 , 35, 2926-2933	5.5	14
48	Effects of Tricresylphosphate on Gas Transport Coefficients in Matrimid and 6FDA-TMPD Polyimides. <i>Macromolecules</i> , 2011 , 44, 3862-3873	5.5	12
47	Determination of Gas Transport Coefficients of Mixed Gases in 6FDA-TMPDA Polyimide by NMR Spectroscopy. <i>Macromolecules</i> , 2017 , 50, 3590-3597	5.5	10
46	Ring-opening polymerization of 3-methyloxetane: NMR spectroscopy and configurational properties of the polymer. <i>Macromolecules</i> , 1984 , 17, 1431-1436	5.5	10
45	Dynamics and Polarity of Substituted 1,3-Dioxacyclohexanes. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 18345-18350		9
44	Influence of structural chemical characteristics on polymer chain dynamics. <i>Journal of Chemical Physics</i> , 2008 , 129, 054903	3.9	9
43	Conformational and relaxation studies on polyesters derived from terephthalic acid and propylene and dipropylene glycol. <i>Macromolecules</i> , 1989 , 22, 3654-3659	5.5	9
42	Ionic Conductivity, Diffusion Coefficients, and Degree of Dissociation in Lithium Electrolytes, Ionic Liquids, and Hydrogel Polyelectrolytes. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 8301-8308	3.4	8
41	Ion diffusion coefficients model and molar conductivities of ionic salts in aprotic solvents. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 3097-103	3.4	8

40	Influence of Chair-to-Chair Reversal Transitions on the Dipole Moment of 5-(Acetoxymethyl)-5-ethyl-1,3-dioxacyclohexane. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 3818-3824		8
39	Rheological behaviour of solutions of poly(2-hydroxyethyl methacrylamide) in glycerine. <i>Polymer</i> , 2001 , 42, 7395-7401	3.9	8
38	Determination of Oxygen Permeability in Acrylic-Based Hydrogels by Proton NMR Spectroscopy and Imaging. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 624-637	2.6	7
37	Evidence of a monoclinic-like amorphous phase in composites of LDPE with spherical, fibrous and laminar nanofillers as studied by infrared spectroscopy. <i>European Polymer Journal</i> , 2009 , 45, 30-39	5.2	7
36	Transport of helium in polycarbonate membranes. <i>Polymer</i> , 2002 , 43, 409-413	3.9	7
35	Stress Optical Behavior of Partially Fluorinated Aliphatic Polyesters. <i>Macromolecules</i> , 2000 , 33, 9464-9467	5.5	7
34	Experimental and theoretical studies on the permeation of argon through matrices of acrylic polymers containing 1,3-dioxane groups in their structure. <i>Journal of Chemical Physics</i> , 1999 , 110, 3200-3206	3.9	7
33	Influence of static strain on viscoelastic phenomena associated with the glass-rubber transition of elastomers prepared from poly(neopentylglycol adipate). <i>Polymer</i> , 1987 , 28, 2190-2194	3.9	7
32	Random coil configurations of poly(diethylene glycol isophthalate). Capability of model network formation. <i>Die Makromolekulare Chemie</i> , 1984 , 185, 1943-1952		7
31	Conformational energies and random-coil configurations of aliphatic polyesters. <i>Macromolecules</i> , 1986 , 19, 2567-2572	5.5	7
30	Gas Transport Coefficients of Phthalide-Containing High-Tg Glassy Polymers Determined by Gas-Flux and NMR Measurements. <i>Macromolecules</i> , 2015 , 48, 2585-2592	5.5	6
29	Influence of static strain on the dynamic mechanical properties of poly(diethyleneglycol isophthalate) networks. <i>Polymer</i> , 1988 , 29, 2203-2207	3.9	6
28	Effects of orientation on the mechanical and dielectric relaxation behavior of cycloaliphatic polyester networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1991 , 29, 93-98	2.6	5
27	Conformational studies on 2,2-bis[4-(2-hydroxyethoxy)phenyl]propane diacetate and 2,2[-oxydi-N-carbethoxycarbazole. <i>The Journal of Physical Chemistry</i> , 1990 , 94, 7435-7439		5
26	Effects of orientation on the dielectric glass-rubber relaxation of amorphous networks. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1990 , 28, 1551-1563	2.6	5
25	Random-coil configurations of alicyclic poly(thioformals). <i>Macromolecules</i> , 1985 , 18, 2739-2743	5.5	5
24	Conformational Characteristics of Aliphatic Diesters Derived from Fluorinated Diacids. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 13492-13497		4
23	Synthesis and Polarity of Acrylate Polymers with Long Hydrophilic Side Groups. <i>Macromolecules</i> , 1996 , 29, 1728-1733	5.5	4

22	Birefringence of amorphous polyoxides: Stress-optical behavior of poly(3-methyltetrahydrofuran). <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1984 , 22, 2165-2174		4
21	Study of the microstructure of tetrahydrofuran-3-methyltetrahydrofuran copolymers: computer simulation of the copolymerization reaction. <i>Macromolecules</i> , 1984 , 17, 2005-2009	5.5	4
20	Random-coil configurations of alicyclic polyformals. <i>Polymer</i> , 1981 , 22, 465-468	3.9	4
19	Persistent Radicals and Transfer Reactions in the Postpolymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2007 , 40, 8168-8177	5.5	3
18	Long-Lived Radicals in the Postpolymerization of Methacrylic Monomers at Low Conversions. <i>Macromolecules</i> , 2005 , 38, 7601-7609	5.5	3
17	Dielectric and mechanical relaxations in cycloaliphatic polyformal networks. <i>Macromolecules</i> , 1989 , 22, 1821-1826	5.5	3
16	Mechanical and dielectric relaxations in cycloaliphatic polyester networks. <i>Macromolecules</i> , 1988 , 21, 2121-2127	5.5	3
15	An experimental study of the conformational energies of poly(neopentyl glycol succinate). <i>Journal of the Chemical Society Perkin Transactions II</i> , 1988 , 299-303		3
14	Thermoelastic and dielectric properties of poly(3-methyltetrahydrofuran): correlation between theory and experiment. <i>Macromolecules</i> , 1984 , 17, 1234-1238	5.5	3
13	Molecular aspects of the rubber elasticity of poly(diethylene glycol terephthalate) networks. <i>Macromolecules</i> , 1984 , 17, 1048-1054	5.5	3
12	Dielectric response in esters derived from aliphatic acids and 2,2-bis[4-(2-hydroxyethoxy)phenyl]propane (dianol 22). <i>The Journal of Physical Chemistry</i> , 1991 , 95, 7104-7108		2 ²
11	Conformational studies on cycloaliphatic polyethers obtained by ring-opening of bicyclic ethers. <i>Macromolecules</i> , 1990 , 23, 3573-3576	5.5	2
10	Configurational properties of polyesters derived from aliphatic diacids and 2,2-bis[4-(2-hydroxyethoxy)phenyl]propane. <i>Macromolecules</i> , 1991 , 24, 5357-5360	5.5	2
9	Conformational characteristics of aromatic polyesters: Comparative study of the polarity of poly(propyleneglycol terephthalate) and poly(ethyleneglycol terephthalate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1987 , 25, 2403-2407	2.6	2
8	Carbon-13 NMR spectroscopic study of the microstructure of poly(3-methyltetrahydrofuran). <i>Macromolecules</i> , 1983 , 16, 1241-1243	5.5	2
7	Properties of polyurethanes derived from poly(diethylene glycol terephthalate). <i>European Polymer Journal</i> , 2021 , 155, 110576	5.2	2
6	Influence of Diffusion Time on the Diffusion Coefficients of Gases in Polymers Determined by Pulsed Gradient Spin Echo NMR. <i>Macromolecules</i> , 2018 , 51, 8681-8688	5.5	2
5	Conformational and Experimental Studies on the Dipole Moments of Models of Comblike Polymers. <i>Macromolecules</i> , 1997 , 30, 6369-6375	5.5	1

4	Dielectric relaxations in polymers containing dioxacyclohexane rings by thermostimulated depolarization currents. <i>Macromolecular Symposia</i> , 2003 , 191, 177-190	0.8	1
3	Synthesis, polymerization and copolymerization of N-(2-acryloyloxyethyl)phthalimide. <i>Polymer</i> , 1992 , 33, 1090-1095	3.9	1
2	Dipole correlation and relaxation behavior of flexible bulky low molecular weight esters. <i>Journal of Molecular Liquids</i> , 2006 , 123, 1-7	6	
1	Stress-optical behaviour of polyester networks. <i>Polymer International</i> , 2002 , 51, 203-207	3.3	