

# Mara Jess Sanchs

## List of Publications by Citations

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94  
papers

1,248  
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21  
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30  
g-index

98  
ext. papers

1,377  
ext. citations

3.7  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
94	Crystal and magnetic structure of Li <sub>2</sub> CuO <sub>2</sub> . <i>Solid State Communications</i> , <b>1990</b> , 74, 779-784	1.6	108
93	Understanding the thermal and dielectric response of organosolv and modified kraft lignin as a carbon fibre precursor. <i>Green Chemistry</i> , <b>2018</b> , 20, 4461-4472	10	99
92	On electromechanical stability of dielectric elastomers. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 101902	3.4	68
91	Exploring the role of lignin structure in molecular dynamics of lignin/bio-derived thermoplastic elastomer polyurethane blends. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> ,	7.9	55
90	Relaxational study of poly(ethylene-2,6-naphthalene dicarboxylate) by t.s.d.c., d.e.a. and d.m.a.. <i>Polymer</i> , <b>1999</b> , 40, 1181-1190	3.9	39
89	Crystal and magnetic structures of Bi <sub>2</sub> CuO <sub>4</sub> . <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 2205-2214	1.8	36
88	Comparative study of mechanical and electrical relaxations in poly(etherimide). Part 1. <i>Polymer International</i> , <b>1998</b> , 46, 11-19	3.3	33
87	Comparative study of amorphous and partially crystalline poly(ethylene-2,6-naphthalene dicarboxylate) by TSDC, DEA, DMA and DSC. <i>Polymer</i> , <b>2000</b> , 41, 2899-2905	3.9	32
86	Dynamics of Natural Rubber as a Function of Frequency, Temperature, and Pressure. A Dielectric Spectroscopy Investigation. <i>Macromolecules</i> , <b>2010</b> , 43, 5094-5102	5.5	28
85	Structural and magnetic characterization of calcium copper formates, CaCu(HCOO) <sub>4</sub> and Ca <sub>2</sub> Cu(HCOO) <sub>6</sub> : two new one-dimensional ferromagnetic bis(μ-oxo-ligand)-bridged chains. <i>Inorganic Chemistry</i> , <b>1992</b> , 31, 2915-2919	5.1	27
84	Electrical conductivity properties of expanded graphite/polycarbonatediol polyurethane composites. <i>Polymer International</i> , <b>2015</b> , 64, 284-292	3.3	26
83	Physical ageing studies in polyetherimide ULTEM 1000. <i>Polymer International</i> , <b>1998</b> , 46, 29-32	3.3	26
82	Effect of an electric field on the bifurcation of a biaxially stretched incompressible slab rubber. <i>European Physical Journal E</i> , <b>2009</b> , 30, 417-26	1.5	25
81	Study of space charge relaxation in PMMA at high temperatures by dynamic electrical analysis. <i>Polymer</i> , <b>2001</b> , 42, 1647-1651	3.9	25
80	Electrochemical oxidation of lanthanum cuprates. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 216, 478-490	1.3	25
79	Effect of an electric field on the deformation of incompressible rubbers: Bifurcation phenomena. <i>Journal of Electrostatics</i> , <b>2009</b> , 67, 158-166	1.7	23
78	A relaxational and conductive study on two poly(ether imide)s. <i>Polymer International</i> , <b>2004</b> , 53, 1368-1373	3.3	23

77	Effect of the Dipole-Dipole Interactions in the Molecular Dynamics of Poly(vinylpyrrolidone)-Based Copolymers. <i>Macromolecules</i> , <b>2014</b> , 47, 5334-5346	5.5	22
76	Monitoring molecular dynamics of bacterial cellulose composites reinforced with graphene oxide by carboxymethyl cellulose addition. <i>Carbohydrate Polymers</i> , <b>2017</b> , 157, 353-360	10.3	21
75	Dielectric spectroscopy of natural rubber-cellulose II nanocomposites. <i>Journal of Non-Crystalline Solids</i> , <b>2011</b> , 357, 598-604	3.9	21
74	Space charge relaxation in polyetherimides by the electric modulus formalism. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 4807	2.5	21
73	Comparative study of mechanical and electrical relaxations in poly(etherimide). Part 2. <i>Polymer International</i> , <b>1998</b> , 46, 20-28	3.3	20
72	An experimental study of dynamic behaviour of graphite-polycarbonatediol polyurethane composites for protective coatings. <i>Applied Surface Science</i> , <b>2013</b> , 275, 295-302	6.7	19
71	Electrical conductivity of natural rubber-cellulose II nanocomposites. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 405, 180-187	3.9	18
70	Effect of Cross-Linking on the Molecular Motions and Nanodomains Segregation in Polymethacrylates Containing Aliphatic Alcohol Ether Residues. <i>Macromolecules</i> , <b>2012</b> , 45, 3571-3580	5.5	17
69	Amorphous-smectic glassy main chain LCs. II. Dielectric study of the glass transition. <i>Polymer</i> , <b>2004</b> , 45, 1533-1543	3.9	17
68	Relaxational Study of Poly(2-chlorocyclohexyl methacrylate) by Thermally Stimulated Current, Dielectric, and Dynamic Mechanical Spectroscopy. <i>Macromolecules</i> , <b>1999</b> , 32, 3457-3463	5.5	15
67	Conducting PEDOT Nanoparticles: Controlling Colloidal Stability and Electrical Properties. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19197-19203	3.8	14
66	Relaxational study of poly(vinylpyrrolidone-co-butyl acrylate) membrane by dielectric and dynamic mechanical spectroscopy. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 295304	3	13
65	Dynamic mechanical and dielectric relaxations in poly(di-n-chloroalkylitaconates). <i>Polymer</i> , <b>2004</b> , 45, 1845-1855	3.9	13
64	Sublinear dispersive conductivity in polymethyl methacrylate at temperatures above the glass transition. <i>Polymer</i> , <b>2004</b> , 45, 2737-2742	3.9	13
63	Analysis of the influence of rubber infill morphology on the mechanical performance of artificial turf surfaces for soccer. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , <b>2009</b> , 223, 1-9	0.7	12
62	Electrochemical Synthesis of an Organic Thermoelectric Power Generator. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 46348-46356	9.5	12
61	Molecular dynamics of carrageenan composites reinforced with Cloisite Na montmorillonite nanoclay. <i>Carbohydrate Polymers</i> , <b>2017</b> , 176, 117-126	10.3	11
60	Dipolar and Ionic Relaxations of Polymers Containing Polar Conformationally Versatile Side Chains. <i>Macromolecules</i> , <b>2010</b> , 43, 5723-5733	5.5	11

59	Renewable polyol obtained by microwave-assisted alcoholysis of epoxidized soybean oil: Preparation, thermal properties and relaxation process. <i>Journal of Molecular Liquids</i> , <b>2019</b> , 285, 136-145 <sup>6</sup>	10
58	Effect of Chitin Whiskers on the Molecular Dynamics of Carrageenan-Based Nanocomposites. <i>Polymers</i> , <b>2019</b> , 11,	4.5 10
57	Thermal and dielectric properties of polycarbonatediol polyurethane. <i>Journal of Applied Polymer Science</i> , <b>2015</b> , 132, n/a-n/a	2.9 10
56	A new improved synthesis of the 110 K bismuth superconducting phase: freeze-drying of acetic solutions. <i>Materials Letters</i> , <b>1992</b> , 15, 149-155	3.3 10
55	A quantum mechanical study on polymer flexibility: Extended model from monomer to tetramer of 2- and 4-bromostyrenes. <i>Polymer</i> , <b>2009</b> , 50, 317-327	3.9 9
54	Relaxation behavior of semiflexible polymers at very low frequencies. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 3685-3691	2.5 9
53	Influence of structural chemical characteristics on polymer chain dynamics. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 054903	3.9 9
52	Interconversion of mechanical and dielectrical relaxation measurements for dicyclohexylmethyl-2-methyl succinate. <i>Physical Review E</i> , <b>2005</b> , 72, 051505	2.4 8
51	Synthesis and characterization of NdNiO <sub>3</sub> prepared by low temperature methods. <i>Journal of Alloys and Compounds</i> , <b>1992</b> , 188, 170-173	5.7 8
50	Submicrometer CaCuO <sub>2</sub> and Ca <sub>2</sub> CuO <sub>3</sub> particles from bimetallic formate precursors. <i>Materials Letters</i> , <b>1992</b> , 12, 409-414	3.3 8
49	Retardation time spectra computed from complex compliance functions. <i>Journal of Chemical Physics</i> , <b>2008</b> , 129, 104513	3.9 7
48	Effects of Carbon-sp <sup>3</sup> Bridging on the Electronic Properties of Oligothiophenes. <i>Synthetic Metals</i> , <b>1999</b> , 101, 602-603	3.6 7
47	Biparabolic model to represent dielectric relaxation data. <i>Polymer</i> , <b>1996</b> , 37, 4003-4008	3.9 7
46	Thermally stimulated depolarization current investigation of the relaxation behavior of polymers with chlorocyclohexyl side groups. <i>Journal of Applied Physics</i> , <b>1996</b> , 80, 1047-1053	2.5 7
45	Effect of electrical stimulation on chondrogenic differentiation of mesenchymal stem cells cultured in hyaluronic acid - Gelatin injectable hydrogels. <i>Bioelectrochemistry</i> , <b>2020</b> , 134, 107536	5.6 6
44	Effect of slight crosslinking on the mechanical relaxation behavior of poly(2-ethoxyethyl methacrylate) chains. <i>European Polymer Journal</i> , <b>2013</b> , 49, 1495-1502	5.2 6
43	Dielectric and molecular mechanics study of the relaxations of poly(chloroethyl methacrylate) and poly(chloropropyl methacrylate). <i>Polymer</i> , <b>1997</b> , 38, 3805-3810	3.9 6
42	Dynamic mechanical and dielectric relaxations in poly(monoethylphenyl itaconate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1997</b> , 35, 2749-2756	2.6 6

41	Comparative study of poly(2,3 and 4 methyl cyclohexyl methacrylate)s. Dielectric relaxation spectroscopy (DRS). <i>Polymer</i> , <b>2005</b> , 46, 8028-8033	3.9	6
40	Comparative study of the relaxation behavior at very low frequencies of acrylate polymers with pendant 1,3-dioxane rings in their structure. <i>Journal of Applied Physics</i> , <b>1998</b> , 84, 4436-4442	2.5	6
39	Fast synthesis of single-phased 110 K bismuth superconductor by freeze-drying of acetic precursors. Kinetic role of calcium and copper oxides. <i>Solid State Ionics</i> , <b>1993</b> , 63-65, 872-882	3.3	6
38	Instability of incompressible cylinder rubber tubes under radial electric fields. <i>European Physical Journal E</i> , <b>2010</b> , 32, 183-90	1.5	5
37	Comparative study of localized side group in poly(2,3 and 4 methyl cyclohexyl methacrylate)s. TSDC measurements. <i>Polymer</i> , <b>2005</b> , 46, 11351-11358	3.9	5
36	Dynamic mechanical and dielectric relaxations of poly(difluorobenzyl methacrylates). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 2179-2188	2.6	5
35	Role of the second-order memory function on the dielectric relaxation. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 9057-9061	3.9	5
34	Analysis of the electric relaxation in acrylate polymers with rigid side groups. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 1906-1913	2.5	5
33	Viscoelastic relaxation phenomena in poly(mono-n-alkyl itaconates). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1996</b> , 34, 261-266	2.6	5
32	Precursor-based synthetic pathways to nanometer NdNiO <sub>3</sub> particles. <i>Solid State Ionics</i> , <b>1993</b> , 63-65, 52-59	3.3	5
31	Controlling dielectrical properties of polymer blends through defined PEDOT nanostructures. <i>RSC Advances</i> , <b>2016</b> , 6, 62024-62030	3.7	4
30	Conductivity and Time-Temperature Correspondence in Polar Viscoelastic Liquids. <i>Macromolecules</i> , <b>2013</b> , 46, 3167-3175	5.5	4
29	Dielectric relaxation in chlorinated polyethylene-polypropylene copolymers. <i>Polymer International</i> , <b>1996</b> , 41, 337-343	3.3	4
28	Evaluation of natural rubber specific heat capacity at high pressures from DSC experimental data at atmospheric pressure. <i>Journal of Applied Polymer Science</i> , <b>2013</b> , 128, 2269-2272	2.9	3
27	Interconversion algorithm between mechanical and dielectric relaxation measurements for acetate of cis- and trans-2-phenyl-5-hydroxymethyl-1,3-dioxane. <i>Physical Review E</i> , <b>2015</b> , 92, 042307	2.4	3
26	Contributions of dipolar relaxation processes and ionic transport to the response of liquids to electrical perturbation fields. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 5730-40	3.4	3
25	Response to Comment on On electromechanical stability of dielectric elastomers [Appl. Phys. Lett. 94, 096101 (2009)]. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 096102	3.4	3
24	Dynamic mechanical and dielectric relaxations in poly(pentachlorophenyl methacrylate). <i>Macromolecular Chemistry and Physics</i> , <b>1998</b> , 199, 575-581	2.6	3

23	Dielectric relaxational behavior of poly(diitaconate)s containing cyclic rings in the side chain. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2003</b> , 41, 1059-1069	2.6	3
22	Memory function for dielectric relaxation. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 11258-11263	3.9	3
21	Conductivity contribution to dielectric loss of poly(monocyclopentyl itaconate). <i>Macromolecular Rapid Communications</i> , <b>1994</b> , 15, 31-36	4.8	3
20	Stability and synthetic pathways: novel routes to CaCuO <sub>2</sub> . <i>Solid State Ionics</i> , <b>1993</b> , 66, 27-34	3.3	3
19	The effect of cross-linking on the molecular dynamics of the segmental and Johari-Goldstein processes in polyvinylpyrrolidone-based copolymers. <i>Soft Matter</i> , <b>2015</b> , 11, 7171-80	3.6	2
18	Study of the dielectric relaxation of poly(phenylpropyl acrylate) and poly(phenylpropyl methacrylate): effect of slight differences in chemical structure. <i>Polymer International</i> , <b>2015</b> , 64, 1733-1740	2.2	2
17	Fractional Fokker-Planck equation approach for the interconversion between dielectric and mechanical measurements. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 014912	2.5	2
16	Mechanical and dielectric properties of bulky side chain poly(methacrylates). Analysis of the low frequency phenomena. 1: Poly(5-indanyl methacrylate). <i>Polymer Engineering and Science</i> , <b>1997</b> , 37, 882-887	2.3	2
15	Relaxational behavior of poly(4-tetrahydropyranyl) methacrylate. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2006</b> , 44, 3135-3147	2.6	2
14	Relaxation behavior, at very low frequencies, of glassy polymers containing aliphatic-aromatic side groups in their structures. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 1593-1599	2.5	2
13	Relaxation and conformational studies on thermotropic side chains liquid crystalline polymers. <i>Journal of Molecular Structure</i> , <b>1999</b> , 479, 135-147	3.4	2
12	Structure, dielectric relaxation and electrical conductivity of 2,3,7,8-tetramethoxychalcogenanthrene-2,3-dichloro-5,6-dicyano-1,4-benzoquinone 1 : 1 charge-transfer complexes. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 547-553		2
11	Molecular Dynamics of Functional Azide-Containing Acrylic Films. <i>Polymers</i> , <b>2018</b> , 10,	4.5	2
10	The thermally induced phase transition in 2,3,7,8-tetramethoxythianthrene. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1997</b> , 101, 1889-1895		1
9	Water sorption by poly(tetrahydrofurfuril methacrylate)'s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2008</b> , 46, 109-120	2.6	1
8	Dielectric relaxations in polymers containing dioxacyclohexane rings by thermostimulated depolarization currents. <i>Macromolecular Symposia</i> , <b>2003</b> , 191, 177-190	0.8	1
7	Properties of the first and second order memory functions of dielectric relaxation. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 307-310, 288-295	3.9	1
6	Thermal effects on the structure and relaxation properties of poly(monocyclopentyl itaconate). <i>Macromolecular Chemistry and Physics</i> , <b>1995</b> , 196, 3789-3796	2.6	1

- 5 Thermal and magnetic properties of Bi<sub>2</sub>CuO<sub>4</sub> (abstract). *Journal of Applied Physics*, **1990**, 67, 5761-5761 2.5 1
- 4 Effect of chain extender on the morphology, thermal, viscoelastic, and dielectric behavior of soybean polyurethane. *Journal of Applied Polymer Science*, **2021**, 138, 50709 2.9 1
- 3 Thermal and dielectric characterization of multi-walled carbon nanotubes/thermoplastic polyurethanes composites. *Polymer Science - Series A*, **2017**, 59, 543-553 1.2
- 2 Study of the Thermal, Dielectric and Mechanical Properties of Poly(Methyl Methacrylate-co-(1,4,7,10-Tetraoxacyclododecan-2-yl)Methyl Methacrylate) Membranes. *Procedia Engineering*, **2012**, 44, 1534-1538
- 1 Characterization of low temperature dielectric processes in Poly(dicyclohexyl-itaconate). *Journal of Non-Crystalline Solids*, **2007**, 353, 119-129 3.9