

MarÃ-a JesÃºs SanchÃ-s

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4084978/publications.pdf>

Version: 2024-02-01

98
papers

1,514
citations

304368

22
h-index

377514

34
g-index

99
all docs

99
docs citations

99
times ranked

1640
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal and magnetic structure of Li ₂ CuO ₂ . Solid State Communications, 1990, 74, 779-784.	0.9	124
2	Understanding the thermal and dielectric response of organosolv and modified kraft lignin as a carbon fibre precursor. Green Chemistry, 2018, 20, 4461-4472.	4.6	122
3	On electromechanical stability of dielectric elastomers. Applied Physics Letters, 2008, 93, .	1.5	79
4	Exploring the role of lignin structure in molecular dynamics of lignin/bio-derived thermoplastic elastomer polyurethane blends. International Journal of Biological Macromolecules, 2020, 158, 1369-1379.	3.6	68
5	Relaxational study of poly(ethylene-2,6-naphthalene dicarboxylate) by t.s.d.c., d.e.a. and d.m.a.. Polymer, 1999, 40, 1181-1190.	1.8	46
6	Crystal and magnetic structures of Bi ₂ CuO ₄ . Journal of Physics Condensed Matter, 1990, 2, 2205-2214.	0.7	42
7	Comparative study of mechanical and electrical relaxations in poly(etherimide). Part 1. Polymer International, 1998, 46, 11-19.	1.6	36
8	Comparative study of amorphous and partially crystalline poly(ethylene-2,6-naphthalene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 Td (1.8	35
9	Structural and magnetic characterization of calcium copper formates, CaCu(HCOO) ₄ and Ca ₂ Cu(HCOO) ₆ : two new one-dimensional ferromagnetic bis(μ-oxo-ligand)-bridged chains. Inorganic Chemistry, 1992, 31, 2915-2919.	1.9	31
10	Physical ageing studies in polyetherimide ULTEM 1000. Polymer International, 1998, 46, 29-32.	1.6	31
11	Dynamics of Natural Rubber as a Function of Frequency, Temperature, and Pressure. A Dielectric Spectroscopy Investigation. Macromolecules, 2010, 43, 5094-5102.	2.2	31
12	Effect of an electric field on the bifurcation of a biaxially stretched incompressible slab rubber. European Physical Journal E, 2009, 30, 417-26.	0.7	30
13	Electrical conductivity properties of expanded graphite-polycarbonatediol polyurethane composites. Polymer International, 2015, 64, 284-292.	1.6	30
14	Study of space charge relaxation in PMMA at high temperatures by dynamic electrical analysis. Polymer, 2001, 42, 1647-1651.	1.8	29
15	Space charge relaxation in polyetherimides by the electric modulus formalism. Journal of Applied Physics, 2000, 88, 4807.	1.1	28
16	A relaxational and conductive study on two poly(ether imide)s. Polymer International, 2004, 53, 1368-1377.	1.6	28
17	Monitoring molecular dynamics of bacterial cellulose composites reinforced with graphene oxide by carboxymethyl cellulose addition. Carbohydrate Polymers, 2017, 157, 353-360.	5.1	28
18	Electrochemical oxidation of lanthanum cuprates. Physica C: Superconductivity and Its Applications, 1993, 216, 478-490.	0.6	27

#	ARTICLE	IF	CITATIONS
19	Effect of an electric field on the deformation of incompressible rubbers: Bifurcation phenomena. <i>Journal of Electrostatics</i> , 2009, 67, 158-166.	1.0	26
20	Dielectric spectroscopy of natural rubber-cellulose II nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 598-604.	1.5	26
21	Effect of the Dipole-Dipole Interactions in the Molecular Dynamics of Poly(vinylpyrrolidone)-Based Copolymers. <i>Macromolecules</i> , 2014, 47, 5334-5346.	2.2	25
22	Effect of electrical stimulation on chondrogenic differentiation of mesenchymal stem cells cultured in hyaluronic acid-Gelatin injectable hydrogels. <i>Bioelectrochemistry</i> , 2020, 134, 107536.	2.4	23
23	Comparative study of mechanical and electrical relaxations in poly(etherimide). Part 2. <i>Polymer International</i> , 1998, 46, 20-28.	1.6	21
24	Amorphous-smectic glassy main chain LCs. II. Dielectric study of the glass transition. <i>Polymer</i> , 2004, 45, 1533-1543.	1.8	21
25	An experimental study of dynamic behaviour of graphite-polycarbonatediol polyurethane composites for protective coatings. <i>Applied Surface Science</i> , 2013, 275, 295-302.	3.1	21
26	Renewable polyol obtained by microwave-assisted alcoholysis of epoxidized soybean oil: Preparation, thermal properties and relaxation process. <i>Journal of Molecular Liquids</i> , 2019, 285, 136-145.	2.3	21
27	Electrochemical Synthesis of an Organic Thermoelectric Power Generator. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 46348-46356.	4.0	21
28	Electrical conductivity of natural rubber-cellulose II nanocomposites. <i>Journal of Non-Crystalline Solids</i> , 2014, 405, 180-187.	1.5	19
29	Effect of Cross-Linking on the Molecular Motions and Nanodomains Segregation in Polymethacrylates Containing Aliphatic Alcohol Ether Residues. <i>Macromolecules</i> , 2012, 45, 3571-3580.	2.2	18
30	Conducting PEDOT Nanoparticles: Controlling Colloidal Stability and Electrical Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19197-19203.	1.5	17
31	A new improved synthesis of the 110 K bismuth superconducting phase: freeze-drying of acetic solutions. <i>Materials Letters</i> , 1992, 15, 149-155.	1.3	15
32	Relaxational Study of Poly(2-chlorocyclohexyl methacrylate) by Thermally Stimulated Current, Dielectric, and Dynamic Mechanical Spectroscopy. <i>Macromolecules</i> , 1999, 32, 3457-3463.	2.2	15
33	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> , 2009, 223, 1-9.	0.4	15
34	Effect of Chitin Whiskers on the Molecular Dynamics of Carrageenan-Based Nanocomposites. <i>Polymers</i> , 2019, 11, 1083.	2.0	15
35	Sublinear dispersive conductivity in polymethyl methacrylate at temperatures above the glass transition. <i>Polymer</i> , 2004, 45, 2737-2742.	1.8	14
36	Dynamic mechanical and dielectric relaxations in poly(di-n-chloroalkylitaconates). <i>Polymer</i> , 2004, 45, 1845-1855.	1.8	13

#	ARTICLE	IF	CITATIONS
37	Relaxational study of poly(vinylpyrrolidone-co-butyl acrylate) membrane by dielectric and dynamic mechanical spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 295304.	1.3	13
38	Thermal and dielectric properties of polycarbonatediol polyurethane. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	13
39	Molecular dynamics of carrageenan composites reinforced with Cloisite Na+ montmorillonite nanoclay. <i>Carbohydrate Polymers</i> , 2017, 176, 117-126.	5.1	13
40	Dipolar and Ionic Relaxations of Polymers Containing Polar Conformationally Versatile Side Chains. <i>Macromolecules</i> , 2010, 43, 5723-5733.	2.2	12
41	Effect of chain extender on the morphology, thermal, viscoelastic, and dielectric behavior of soybean polyurethane. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50709.	1.3	12
42	Submicrometer CaCuO ₂ and Ca ₂ CuO ₃ particles from bimetallic formate precursors. <i>Materials Letters</i> , 1992, 12, 409-414.	1.3	10
43	Relaxation behavior of semiflexible polymers at very low frequencies. <i>Journal of Applied Physics</i> , 1997, 81, 3685-3691.	1.1	10
44	Synthesis and characterization of NdNiO ₃ prepared by low temperature methods. <i>Journal of Alloys and Compounds</i> , 1992, 188, 170-173.	2.8	9
45	Biparabolic model to represent dielectric relaxation data. <i>Polymer</i> , 1996, 37, 4003-4008.	1.8	9
46	Influence of structural chemical characteristics on polymer chain dynamics. <i>Journal of Chemical Physics</i> , 2008, 129, 054903.	1.2	9
47	A quantum mechanical study on polymer flexibility: Extended model from monomer to tetramer of 2- and 4-bromostyrenes. <i>Polymer</i> , 2009, 50, 317-327.	1.8	9
48	Thermally stimulated depolarization current investigation of the relaxation behavior of polymers with chlorocyclohexyl side groups. <i>Journal of Applied Physics</i> , 1996, 80, 1047-1053.	1.1	8
49	Effects of Carbon-sp ³ Bridging on the Electronic Properties of Oligothiophenes. <i>Synthetic Metals</i> , 1999, 101, 602-603.	2.1	8
50	Interconversion of mechanical and dielectrical relaxation measurements for dicyclohexylmethyl-2-methyl succinate. <i>Physical Review E</i> , 2005, 72, 051505.	0.8	8
51	Controlling dielectrical properties of polymer blends through defined PEDOT nanostructures. <i>RSC Advances</i> , 2016, 6, 62024-62030.	1.7	8
52	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> , 1993, 63-65, 872-882.	1.3	7
53	Analysis of the electric relaxation in acrylate polymers with rigid side groups. <i>Journal of Applied Physics</i> , 1995, 78, 1906-1913.	1.1	7
54	Dynamic mechanical and dielectric relaxations in poly(monoethylphenyl itaconate). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1997, 35, 2749-2756.	2.4	7

#	ARTICLE	IF	CITATIONS
55	Role of the second-order memory function on the dielectric relaxation. <i>Journal of Chemical Physics</i> , 1998, 109, 9057-9061.	1.2	7
56	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> , 1998, 84, 4436-4442.	1.1	7
57	Comparative study of poly(2,3 and 4 methyl cyclohexyl methacrylate)s. Dielectric relaxation spectroscopy (DRS). <i>Polymer</i> , 2005, 46, 8028-8033.	1.8	7
58	Retardation time spectra computed from complex compliance functions. <i>Journal of Chemical Physics</i> , 2008, 129, 104513.	1.2	7
59	Viscoelastic relaxation phenomena in poly(mono-n-alkyl itaconates). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 261-266.	2.4	6
60	Dielectric and molecular mechanics study of the β relaxations of poly(chloroethyl methacrylate) and poly(chloropropyl methacrylate). <i>Polymer</i> , 1997, 38, 3805-3810.	1.8	6
61	Dynamic mechanical and dielectric relaxations of poly(difluorobenzyl methacrylates). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 2179-2188.	2.4	6
62	Response to Comment on "On electromechanical stability of dielectric elastomers" [Appl. Phys. Lett. 94, 096101 (2009)]. <i>Applied Physics Letters</i> , 2009, 94, 096102.	1.5	6
63	Evaluation of natural rubber specific heat capacity at high pressures from DSC experimental data at atmospheric pressure. <i>Journal of Applied Polymer Science</i> , 2013, 128, 2269-2272.	1.3	6
64	Effect of slight crosslinking on the mechanical relaxation behavior of poly(2-ethoxyethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382 Td (r	2.6	6
65	Precursor-based synthetic pathways to nanometer NdNiO ₃ particles. <i>Solid State Ionics</i> , 1993, 63-65, 52-59.	1.3	5
66	Dynamic mechanical and dielectric relaxations in poly(pentachlorophenyl methacrylate). <i>Macromolecular Chemistry and Physics</i> , 1998, 199, 575-581.	1.1	5
67	Memory function for dielectric relaxation. <i>Journal of Chemical Physics</i> , 2000, 113, 11258-11263.	1.2	5
68	Comparative study of localized side group in poly(2,3 and 4 methyl cyclohexyl methacrylate)s. TSDC measurements. <i>Polymer</i> , 2005, 46, 11351-11358.	1.8	5
69	Fractional Fokker-Planck equation approach for the interconversion between dielectric and mechanical measurements. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	5
70	Instability of incompressible cylinder rubber tubes under radial electric fields. <i>European Physical Journal E</i> , 2010, 32, 183-190.	0.7	5
71	Conductivity contribution to dielectric loss of poly(monocyclopentyl itaconate). <i>Macromolecular Rapid Communications</i> , 1994, 15, 31-36.	2.0	4
72	Dielectric Relaxation in Chlorinated Polyethylene-Polypropylene Copolymers. <i>Polymer International</i> , 1996, 41, 337-343.	1.6	4

#	ARTICLE	IF	CITATIONS
73	Mechanical and dielectric properties of bulky side chain poly(methacrylates). Analysis of the low frequency phenomena. 1: Poly(5-indanyl methacrylate). Polymer Engineering and Science, 1997, 37, 882-887.	1.5	4
74	Conductivity and Time-Temperature Correspondence in Polar Viscoelastic Liquids. Macromolecules, 2013, 46, 3167-3175.	2.2	4
75	Interconversion algorithm between mechanical and dielectric relaxation measurements for acetate of <i>cis</i> - and <i>trans</i> -2-phenyl-5-hydroxymethyl-1,3-dioxane. Physical Review E, 2015, 92, 042307.	0.8	4
76	Effect of chain extenders on the hydrolytic degradation of soybean polyurethane. Journal of Applied Polymer Science, 2022, 139, .	1.3	4
77	Stability and synthetic pathways: novel routes to CaCuO ₂ . Solid State Ionics, 1993, 66, 27-34.	1.3	3
78	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. Journal of Materials Chemistry, 1996, 6, 547-553.	6.7	3
79	Relaxation and conformational studies on thermotropic side chains liquid crystalline polymers. Journal of Molecular Structure, 1999, 479, 135-147.	1.8	3
80	Dielectric relaxational behavior of poly(diitaconate)s containing cyclic rings in the side chain. Journal of Polymer Science, Part B: Polymer Physics, 2003, 41, 1059-1069.	2.4	3
81	Contributions of Dipolar Relaxation Processes and Ionic Transport to the Response of Liquids to Electrical Perturbation Fields. Journal of Physical Chemistry B, 2011, 115, 5730-5740.	1.2	3
82	Study of the dielectric relaxation of poly(phenylpropyl acrylate) and poly(phenylpropyl methacrylate): effect of slight differences in chemical structure. Polymer International, 2015, 64, 1733-1740.	1.6	3
83	Relaxation behavior, at very low frequencies, of glassy polymers containing aliphatic-aromatic side groups in their structures. Journal of Applied Physics, 2000, 88, 1593-1599.	1.1	2
84	Properties of the first and second order memory functions of dielectric relaxation. Journal of Non-Crystalline Solids, 2002, 307-310, 288-295.	1.5	2
85	Relaxational behavior of poly(4-tetrahydropyranyl) methacrylate. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 3135-3147.	2.4	2
86	The effect of cross-linking on the molecular dynamics of the segmental and Johari-Goldstein processes in polyvinylpyrrolidone-based copolymers. Soft Matter, 2015, 11, 7171-7180.	1.2	2
87	Molecular Dynamics of Functional Azide-Containing Acrylic Films. Polymers, 2018, 10, 859.	2.0	2
88	Thermal and magnetic properties of Bi ₂ CuO ₄ (abstract). Journal of Applied Physics, 1990, 67, 5761-5761.	1.1	1
89	Thermal effects on the structure and relaxation properties of poly(monocyclopentyl itaconate). Macromolecular Chemistry and Physics, 1995, 196, 3789-3796.	1.1	1
90	The thermally induced phase transition in 2,3,7,8-tetramethoxythianthrene. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 1889-1895.	0.9	1

#	ARTICLE	IF	CITATIONS
91	Dielectric relaxations in polymers containing dioxacyclohexane rings by thermostimulated depolarization currents. <i>Macromolecular Symposia</i> , 2003, 191, 177-190.	0.4	1
92	Water sorption by poly(tetrahydrofurfuril methacrylate)'s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008, 46, 109-120.	2.4	1
93	Characterization of low temperature dielectric processes in Poly(dicyclohexyl-itaconate). <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 119-129.	1.5	0
94	DIELECTRIC RELAXATIONAL BEHAVIOUR OF POLY (DIMETHOXYBENZYL METHACRYLATE)S ISOMERS. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
95	INTERCONVERSION MODEL FOR MECHANICAL AND DIELECTRIC $\hat{\epsilon}_{\pm}$ -RELAXATIONS MEASUREMENTS. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
96	Biaxial stretching of rubber plates under normal electric fields: Bifurcation in rubber plates. , 2010, , .		0
97	Study of the Thermal, Dielectric and Mechanical Properties of Poly(Methyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (Metha Engineering, 2012, 44, 1534-1538.	1.2	0
98	Thermal and dielectric characterization of multi-walled carbon nanotubes $\hat{\sim}$ thermoplastic polyurethanes composites. <i>Polymer Science - Series A</i> , 2017, 59, 543-553.	0.4	0