

Cristina Ca Alvarez

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4789259/publications.pdf>

Version: 2024-02-01

43
papers

1,078
citations

331538

21
h-index

414303

32
g-index

44
all docs

44
docs citations

44
times ranked

1057
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-dynamics relationship in crystallizing poly(ethylene terephthalate) as revealed by time-resolved X-ray and dielectric methods. <i>Polymer</i> , 2004, 45, 3953-3959.	1.8	119
2	Design of gas separation membranes derived of rigid aromatic polyimides. 1. Polymers from diamines containing di-tert-butyl side groups. <i>Journal of Membrane Science</i> , 2010, 365, 145-153.	4.1	86
3	Effect of polymer structure on gas transport properties of selected aromatic polyimides, polyamides and TR polymers. <i>Journal of Membrane Science</i> , 2015, 493, 766-781.	4.1	63
4	Molecular motions in molecular glasses as studied by thermally stimulated depolarisation currents (TSDC). <i>Chemical Physics</i> , 2000, 252, 151-163.	0.9	54
5	Local chain mobility dependence on molecular structure in polyimides with bulky side groups: Correlation with gas separation properties. <i>Journal of Membrane Science</i> , 2013, 434, 121-129.	4.1	46
6	The β Branching in Sorbitol as Studied by Thermally Stimulated Depolarization Currents (TSDC). <i>Journal of Physical Chemistry B</i> , 2001, 105, 5663-5669.	1.2	44
7	Glass transition relaxation and fragility in a side-chain liquid crystalline polymer: a study by TSDC and DSC. <i>Polymer</i> , 2000, 41, 2907-2914.	1.8	43
8	Microporous Polymer Networks for Carbon Capture Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26195-26205.	4.0	41
9	Gas transport properties of new aromatic polyimides based on 3,8-diphenylpyrene-1,2,6,7-tetracarboxylic dianhydride. <i>Journal of Membrane Science</i> , 2015, 476, 442-448.	4.1	40
10	New aromatic polyamides and polyimides having an adamantane bulky group. <i>Materials Today Communications</i> , 2015, 5, 23-31.	0.9	36
11	Thermally Rearranged Polybenzoxazoles Containing Bulky Adamantyl Groups from Ortho-Substituted Precursor Copolyimides. <i>Macromolecules</i> , 2018, 51, 1605-1619.	2.2	36
12	Glass transition relaxation and fragility in the molecular glass forming m-toluidine: A study by thermally stimulated depolarization currents. <i>Journal of Chemical Physics</i> , 2000, 113, 3204-3211.	1.2	33
13	Investigation of the chemical and morphological structure of thermally rearranged polymers. <i>Polymer</i> , 2014, 55, 6649-6657.	1.8	32
14	Thermally rearranged polybenzoxazoles made from poly(ortho-hydroxyamide)s. Characterization and evaluation as gas separation membranes. <i>Reactive and Functional Polymers</i> , 2018, 127, 38-47.	2.0	29
15	Gas separation properties of aromatic polyimides with bulky groups. Comparison of experimental and simulated results. <i>Journal of Membrane Science</i> , 2020, 602, 117959.	4.1	26
16	Cold crystallization of poly(ethylene naphthalene-2,6-dicarboxylate) by simultaneous measurements of X-ray scattering and dielectric spectroscopy. <i>Polymer</i> , 2003, 44, 1045-1049.	1.8	25
17	High-productivity gas separation membranes derived from pyromellitic dianhydride and nonlinear diamines. <i>Journal of Membrane Science</i> , 2016, 501, 191-198.	4.1	25
18	Effect of Time of Annealing on Gas Permeation through Coextruded Linear Low-Density Polyethylene (LLDPE) Films. <i>Macromolecules</i> , 1997, 30, 3317-3322.	2.2	24

#	ARTICLE	IF	CITATIONS
19	Porous Organic Polymers Containing Active Metal Centers for Suzuki–Miyaura Heterocoupling Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56974-56986.	4.0	23
20	New Materials for Gas Separation Applications: Mixed Matrix Membranes Made from Linear Polyimides and Porous Polymer Networks Having Lactam Groups. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9585-9595.	1.8	22
21	Poly(Ethylene Oxide) Functionalized Polyimide-Based Microporous Films to Prevent Bacterial Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9716-9724.	4.0	21
22	Structure–Dynamics Relationships in Random Poly(butylene isophthalate-co-butylene adipate) Copolyesters As Revealed by Dielectric Loss Spectroscopy and X-ray Scattering. <i>Macromolecules</i> , 2003, 36, 3245-3253.	2.2	18
23	Synthesis, characterization and gas separation properties of novel polyimides containing cardo and tert-butyl-m-terphenyl moieties. <i>EXPRESS Polymer Letters</i> , 2018, 12, 479-489.	1.1	18
24	Thermal and morphological characteristics of polypropylene/smectic polyester blends. <i>Polymer</i> , 2007, 48, 3137-3147.	1.8	17
25	Synthesis, characterization and studies of properties of six polyimides derived from two new aromatic diamines containing a central silicon atom. <i>European Polymer Journal</i> , 2017, 91, 354-367.	2.6	17
26	Slow relaxations in salicylsalicylic acid studied by dielectric techniques. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 3600-3606.	1.5	15
27	Effect of the intercalated/exfoliated nanostructure on the phase transformations of smectic polyester/layered silicate hybrids: Reinforcement of the liquid-crystalline matrix. <i>Polymer</i> , 2009, 50, 1447-1455.	1.8	15
28	Highly Permeable Mixed Matrix Membranes of Thermally Rearranged Polymers and Porous Polymer Networks for Gas Separations. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5224-5235.	2.0	14
29	Relaxation behavior of poly(ethylene terephthalate)/poly(ethylene naphthalene 2,6-dicarboxylate) blends prepared by cryogenic blending. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 2570-2578.	2.4	11
30	Mixed Matrix Membranes Loaded with a Porous Organic Polymer Having Bipyridine Moieties. <i>Membranes</i> , 2022, 12, 547.	1.4	11
31	Relaxation behavior of semiflexible polymers at very low frequencies. <i>Journal of Applied Physics</i> , 1997, 81, 3685-3691.	1.1	10
32	Aromatic poly(ether ether ketone)s capable of crosslinking via UV irradiation to improve gas separation performance. <i>RSC Advances</i> , 2017, 7, 55371-55381.	1.7	10
33	The glass transition relaxation in a side-chain liquid crystalline polymer studied by modulated temperature differential scanning calorimetry. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4743-4747.	1.3	9
34	Confined crystallization in phase-separated poly(ethylene terephthalate)/poly(ethylene naphthalene) blends. <i>Polymer</i> , 2007, 48, 9716-9724.	1.8	9
35	Relaxation response of polymers containing highly flexible side groups monitored by broadband dielectric spectroscopy. <i>Journal of Chemical Physics</i> , 2005, 122, 194905.	1.2	9
36	Structure–dynamics relationship during the amorphous to smectic transition of a main chain liquid crystalline polymer. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 2768-2772.	1.5	8

#	ARTICLE	IF	CITATIONS
37	Relaxation Behavior of Poly(ester carbonate) Block Copolymer Across the Melting Region. <i>Macromolecular Chemistry and Physics</i> , 2002, 203, 556-564.	1.1	5
38	Gas separation membranes obtained by partial pyrolysis of polyimides exhibiting polyethylene oxide moieties. <i>Polymer</i> , 2022, 247, 124789.	1.8	4
39	Synthesis, characterization, and evaluation of novel polyhydantoins as gas separation membranes. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4052-4060.	2.5	3
40	Comparative study on the dynamics, polarity, and thermal properties of the isomers of (4-acetyloxyphenyl)-(chlorophenyl)-methanone. <i>Journal of Chemical Physics</i> , 1996, 105, 8266-8273.	1.2	2
41	Conformational and Experimental Studies on the Dipole Moments of Models of Comblike Polymers. <i>Macromolecules</i> , 1997, 30, 6369-6375.	2.2	2
42	Molecular structure-dynamics relationships in glassy poly(isophthalamide)s as revealed by wide angle x-ray scattering, dielectric loss spectroscopy, and molecular modelling. <i>Journal of Chemical Physics</i> , 2004, 120, 8815-8823.	1.2	2
43	Anomalous enhanced mobility in a semicrystalline random poly(butylene isophthalate/butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.0	1