Cristina Ca Alvarez

List of Publications by Year
in descending order

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	Gas separation membranes obtained by partial pyrolysis of polyimides exhibiting polyethylene oxide moieties. Polymer, 2022, 247, 124789.	1.8	4
2	Mixed Matrix Membranes Loaded with a Porous Organic Polymer Having Bipyridine Moieties. Membranes, 2022, 12, 547.	1.4	11
3	Highly Permeable Mixed Matrix Membranes of Thermally Rearranged Polymers and Porous Polymer Networks for Gas Separations. ACS Applied Polymer Materials, 2021, 3, 5224-5235.	2.0	14
4	Porous Organic Polymers Containing Active Metal Centers for Suzukiâ€“Miyaura Heterocoupling Reactions. ACS Applied Materials & Interfaces, 2020, 12, 56974-56986.	4.0	23
5	Gas separation properties of aromatic polyimides with bulky groups. Comparison of experimental and simulated results. Journal of Membrane Science, 2020, 602, 117959.	4.1	26
6	New Materials for Gas Separation Applications: Mixed Matrix Membranes Made from Linear Polyimides and Porous Polymer Networks Having Lactam Groups. Industrial & Engineering Chemistry Research, 2019, 58, 9585-9595.	1.8	22
7	Thermally rearranged polybenzoxazoles made from poly(ortho-hydroxyamide)s. Characterization and evaluation as gas separation membranes. Reactive and Functional Polymers, 2018, 127, 38-47.	2.0	29
8	Thermally Rearranged Polybenzoxazoles Containing Bulky Adamantyl Groups from Ortho-Substituted Precursor Copolyimides. Macromolecules, 2018, 51, 1605-1619.	2.2	36
9	Synthesis, characterization and gas separation properties of novel polyimides containing cardo and tert-butyl-m-terphenyl moieties. EXPRESS Polymer Letters, 2018, 12, 479-489.	1.1	18
10	Microporous Polymer Networks for Carbon Capture Applications. ACS Applied Materials & Interfaces, 2018, 10, 26195-26205.	4.0	41
11	Synthesis, characterization and studies of properties of six polyimides derived from two new aromatic diamines containing a central silicon atom. European Polymer Journal, 2017, 91, 354-367.	2.6	17
12	Aromatic poly(ether ether ketone)s capable of crosslinking via UV irradiation to improve gas separation performance. RSC Advances, 2017, 7, 55371-55381.	1.7	10
13	High-productivity gas separation membranes derived from pyromellitic dianhydride and nonlinear diamines. Journal of Membrane Science, 2016, 501, 191-198.	4.1	25
14	Gas transport properties of new aromatic polyimides based on 3,8-diphenylpyrene-1,2,6,7-tetracarboxylic dianhydride. Journal of Membrane Science, 2015, 476, 442-448.	4.1	40
15	Effect of polymer structure on gas transport properties of selected aromatic polyimides, polyamides and TR polymers. Journal of Membrane Science, 2015, 493, 766-781.	4.1	63
16	Poly(Ethylene Oxide) Functionalized Polyimide-Based Microporous Films to Prevent Bacterial Adhesion. ACS Applied Materials & Interfaces, 2015, 7, 9716-9724.	4.0	21
17	New aromatic polyamides and polyimides having an adamantane bulky group. Materials Today Communications, 2015, 5, 23-31.	0.9	36
18	Investigation of the chemical and morphological structure of thermally rearranged polymers. Polymer, 2014, 55, 6649-6657.	1.8	32

#	Article	IF	Citations
19	Local chain mobility dependence on molecular structure in polyimides with bulky side groups: Correlation with gas separation properties. Journal of Membrane Science, 2013, 434, 121-129.	4.1	46
20	Synthesis, characterization, and evaluation of novel polyhydantoins as gas separation membranes. Journal of Polymer Science Part A, 2013, 51, 4052-4060.	2.5	3
21	Design of gas separation membranes derived of rigid aromatic polyimides. 1. Polymers from diamines containing di-tert-butyl side groups. Journal of Membrane Science, 2010, 365, 145-153.	4.1	86
22	Effect of the intercalated/exfoliated nanostructure on the phase transformations of smectic polyester/layered silicate hybrids: Reinforcement of the liquid-crystalline matrix. Polymer, 2009, 50, 1447-1455.	1.8	15
23	Thermal and morphological characteristics of polypropylene/smectic polyester blends. Polymer, 2007, 48, 3137-3147.	1.8	17
24	Confined crystallization in phase-separated poly(ethylene terephthalate)/poly(ethylene naphthalene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	6.7	9
25	Relaxation response of polymers containing highly flexible side groups monitored by broadband dielectric spectroscopy. Journal of Chemical Physics, 2005, 122, 194905.	1.2	9
26	Structureâ€“dynamics relationship during the amorphous to smectic transition of a main chain liquid crystalline polymer. Journal of Non-Crystalline Solids, 2005, 351, 2768-2772.	1.5	8
27	Slow relaxations in salicylsalicylic acid studied by dielectric techniques. Journal of Non-Crystalline Solids, 2005, 351, 3600-3606.	1.5	15
28	Molecular structureâ€“dynamics relationships in glassy poly(isophthalamide)s as revealed by wide angle x-ray scattering, dielectric loss spectroscopy, and molecular modelling. Journal of Chemical Physics, 2004, 120, 8815-8823.	1.2	2
29	Structure-dynamics relationship in crystallizing poly(ethylene terephthalate) as revealed by time-resolved X-ray and dielectric methods. Polymer, 2004, 45, 3953-3959.	1.8	119
30	Anomalous enhanced mobility in a semicrystalline random poly(butylene isophthalate/butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.0	1
31	Cold crystallization of poly(ethylene naphthalene-2,6-dicarboxylate) by simultaneous measurements of X-ray scattering and dielectric spectroscopy. Polymer, 2003, 44, 1045-1049.	1.8	25
32	Structureâ^'Dynamics Relationships in Random Poly(butylene isophthalate-co-butylene adipate) Copolyesters As Revealed by Dielectric Loss Spectroscopy and X-ray Scattering. Macromolecules, 2003, 36, 3245-3253.	2.2	18
33	Relaxation Behavior of Poly(ester carbonate) Block Copolymer Across the Melting Region. Macromolecular Chemistry and Physics, 2002, 203, 556-564.	1.1	5
34	Relaxation behavior of poly(ethylene terephthalate)/poly(ethylene naphthalene 2,6-dicarboxylate) blends prepared by cryogenic blending. Journal of Polymer Science, Part B: Polymer Physics, 2002, 40, 2570-2578.	2.4	11
35	The Î²â^'Î± Branching ind-Sorbitol as Studied by Thermally Stimulated Depolarization Currents (TSDC). Journal of Physical Chemistry B, 2001, 105, 5663-5669.	1.2	44
36	Glass transition relaxation and fragility in a side-chain liquid crystalline polymer: a study by TSDC and DSC. Polymer, 2000, 41, 2907-2914.	1.8	43

#	Article	IF	Citations
37	Molecular motions in molecular glasses as studied by thermally stimulated depolarisation currents (TSDC). Chemical Physics, 2000, 252, 151-163.	0.9	54
38	Glass transition relaxation and fragility in the molecular glass forming m-toluidine: A study by thermally stimulated depolarization currents. Journal of Chemical Physics, 2000, 113, 3204-3211.	1.2	33
39	The glass transition relaxation in a side-chain liquid crystalline polymer studied by modulated temperature differential scanning calorimetry. Physical Chemistry Chemical Physics, 2000, 2, 4743-4747.	1.3	9
40	Relaxation behavior of semiflexible polymers at very low frequencies. Journal of Applied Physics, 1997, 81, 3685-3691.	1.1	10
41	Effect of Time of Annealing on Gas Permeation through Coextruded Linear Low-Density Polyethylene (LLDPE) Films. Macromolecules, 1997, 30, 3317-3322.	2.2	24
42	Conformational and Experimental Studies on the Dipole Moments of Models of Comblike Polymers. Macromolecules, 1997, 30, 6369-6375.	2.2	2
43	Comparative study on the dynamics, polarity, and thermal properties of the isomers of (4â€acetyloxyphenyl)â€(chlorophenyl)â€methanone. Journal of Chemical Physics, 1996, 105, 8266-8273.	1.2	2