

# Angel E Lozano

## List of Publications by Year in descending order

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docs citations

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2751  
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#	ARTICLE	IF	CITATIONS
1	Gas Permeability, Fractional Free Volume and Molecular Kinetic Diameters: The Effect of Thermal Rearrangement on ortho-hydroxy Polyamide Membranes Loaded with a Porous Polymer Network. <i>Membranes</i> , 2022, 12, 200.	1.4	5
2	Gas separation membranes obtained by partial pyrolysis of polyimides exhibiting polyethylene oxide moieties. <i>Polymer</i> , 2022, 247, 124789.	1.8	4
3	Mixed Matrix Membranes Loaded with a Porous Organic Polymer Having Bipyridine Moieties. <i>Membranes</i> , 2022, 12, 547.	1.4	11
4	Pyrrolidine-based catalytic microporous polymers in sustainable C N and C C bond formation via iminium and enamine activation. <i>Materials Today Chemistry</i> , 2022, 24, 100966.	1.7	3
5	Gas Separation by Mixed Matrix Membranes with Porous Organic Polymer Inclusions within o-Hydroxypolyamides Containing m-Terphenyl Moieties. <i>Polymers</i> , 2021, 13, 931.	2.0	10
6	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
7	Hydrogen Recovery by Mixed Matrix Membranes Made from 6FCl-APAF HPA with Different Contents of a Porous Polymer Network and Their Thermal Rearrangement. <i>Polymers</i> , 2021, 13, 4343.	2.0	4
8	Synthesis and properties of highly processable asymmetric polyimides with bulky phenoxy groups. <i>High Performance Polymers</i> , 2020, 32, 455-468.	0.8	3
9	Aromatic polyimides and copolyimides containing bulky t-butyltriphenylmethane units. <i>Polymer Bulletin</i> , 2020, 77, 5103-5125.	1.7	5
10	Porous Organic Polymers Containing Active Metal Centers for Suzuki-Miyaura Heterocoupling Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 56974-56986.	4.0	23
11	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
12	Enhancement of CO <sub>2</sub> /CH <sub>4</sub> permselectivity via thermal rearrangement of mixed matrix membranes made from an o-hydroxy polyamide with an optimal load of a porous polymer network. <i>Separation and Purification Technology</i> , 2020, 247, 116895.	3.9	16
13	New Materials for Gas Separation Applications: Mixed Matrix Membranes Made from Linear Polyimides and Porous Polymer Networks Having Lactam Groups. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 9585-9595.	1.8	22
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	Thermally Rearranged Polybenzoxazoles Containing Bulky Adamantyl Groups from Ortho-Substituted Precursor Copolyimides. <i>Macromolecules</i> , 2018, 51, 1605-1619.	2.2	36
16	Partially pyrolyzed gas-separation membranes made from blends of copolyetherimides and polyimides. <i>European Polymer Journal</i> , 2018, 103, 390-399.	2.6	11
17	Microporous Polymer Networks for Carbon Capture Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 26195-26205.	4.0	41
18	Structural Health Monitoring in Composite Structures by Fiber-Optic Sensors. <i>Sensors</i> , 2018, 18, 1094.	2.1	99

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19	Determination of Gas Transport Coefficients of Mixed Gases in 6FDA-TMPDA Polyimide by NMR Spectroscopy. <i>Macromolecules</i> , 2017, 50, 3590-3597.	2.2	11
20	Sorption, diffusion, and permeability of humid gases and aging of thermally rearranged (TR) polymer membranes from a novel ortho-hydroxypolyimide. <i>Journal of Membrane Science</i> , 2017, 542, 439-455.	4.1	22
21	Aromatic poly(ether ether ketone)s capable of crosslinking <i>via</i> UV irradiation to improve gas separation performance. <i>RSC Advances</i> , 2017, 7, 55371-55381.	1.7	10
22	The effect of humidity on the CO <sub>2</sub> /N <sub>2</sub> separation performance of copolymers based on hard polyimide segments and soft polyether chains: Experimental and modeling. <i>Green Energy and Environment</i> , 2016, 1, 201-210.	4.7	13
23	Sorption and transport of CO <sub>2</sub> in copolymers containing soft (PEO, PPO) and hard (BKDA-ODA and) Tj ETQq1 1 0.784314 rgBT /Over Science, 2016, 520, 187-200.	4.1	6
24	Soluble, microporous, Tröger's Base copolyimides with tunable membrane performance for gas separation. <i>Chemical Communications</i> , 2016, 52, 3817-3820.	2.2	75
25	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
26	Gas separation membranes made through thermal rearrangement of ortho-methoxypolyimides. <i>RSC Advances</i> , 2015, 5, 102261-102276.	1.7	21
27	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
28	Gas Transport Coefficients of Phthalide-Containing High-Tg Glassy Polymers Determined by Gas-Flux and NMR Measurements. <i>Macromolecules</i> , 2015, 48, 2585-2592.	2.2	8
29	New aromatic polyamides and polyimides having an adamantane bulky group. <i>Materials Today Communications</i> , 2015, 5, 23-31.	0.9	36
30	Thermally rearranged polybenzoxazoles and poly(benzoxazole-co-imide)s from ortho-hydroxyamine monomers for high performance gas separation membranes. <i>Journal of Membrane Science</i> , 2015, 493, 329-339.	4.1	35
31	Insight into ETS-10 synthesis for the preparation of mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> gas separation. <i>RSC Advances</i> , 2015, 5, 102392-102398.	1.7	5
32	Advances in the design of co-poly(ether-imide) membranes for CO <sub>2</sub> separations. Influence of aromatic rigidity on crystallinity, phase segregation and gas transport. <i>European Polymer Journal</i> , 2015, 62, 130-138.	2.6	24
33	Investigation of the chemical and morphological structure of thermally rearranged polymers. <i>Polymer</i> , 2014, 55, 6649-6657.	1.8	32
34	Prediction of gas permeability of block-segregated polymeric membranes by an effective medium model. <i>Journal of Membrane Science</i> , 2014, 453, 27-35.	4.1	18
35	Hydrophilic porous asymmetric ultrafiltration membranes of aramid-g-PEO copolymers. <i>Journal of Membrane Science</i> , 2014, 454, 233-242.	4.1	20
36	Helium Recovery by Membrane Gas Separation Using Poly(acyloxyamide)s. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 12809-12818.	1.8	18

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37	Thermally rearranged polybenzoxazoles membranes with biphenyl moieties: Monomer isomeric effect. <i>Journal of Membrane Science</i> , 2014, 450, 369-379.	4.1	80
38	Liquidâ€“liquid displacement porosimetry applied to several MF and UF membranes. <i>Desalination</i> , 2013, 327, 14-23.	4.0	17
39	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
40	On the influence of the proportion of PEO in thermally controlled phase segregation of copoly(ether-imide)s for gas separation. <i>Journal of Membrane Science</i> , 2013, 434, 26-34.	4.1	27
41	Influence of the PEO length in gas separation properties of segregating aromaticâ€“aliphatic copoly(ether-imide)s. <i>Chemical Engineering Science</i> , 2013, 104, 574-585.	1.9	16
42	Hydrophilic polyisophthalamides containing poly(ethylene oxide) side chains: Synthesis, characterization, and physical properties. <i>Journal of Polymer Science Part A</i> , 2013, 51, 963-976.	2.5	6
43	Gas separation properties of systems with different amounts of long poly(ethylene oxide) segments for mixtures including carbon dioxide. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 146-154.	2.3	22
44	Thermal degradation of crosslinked copolyimide membranes to obtain productive gas separation membranes. <i>Polymer Degradation and Stability</i> , 2013, 98, 743-750.	2.7	10
45	Thermally Segregated Copolymers with PPO Blocks for Nitrogen Removal from Natural Gas. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 4312-4322.	1.8	16
46	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
47	Tuning microcavities in thermally rearranged polymer membranes for CO <sub>2</sub> capture. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4365.	1.3	126
48	Improving the Permeation Properties by Plasma Surface Modification. <i>Procedia Engineering</i> , 2012, 44, 1353-1355.	1.2	1
49	CO <sub>2</sub> Sorption and Transport in Copoly(Ether-Imide)s having Poly(Propylene Oxide) Segments at Different Temperatures and Pressures. <i>Procedia Engineering</i> , 2012, 44, 1103-1104.	1.2	0
50	Influence of Annealing Temperature in Permeation and Plasticization Resistance for Samples Containing Carboxylic Acid. <i>Procedia Engineering</i> , 2012, 44, 175-176.	1.2	0
51	Novel efficient catalysts based on imine-linked mesoporous polymers for hydrogenation and cyclopropanation reactions. <i>Journal of Materials Chemistry</i> , 2012, 22, 24637.	6.7	34
52	Formation of thermally rearranged (TR) polybenzoxazoles: Effect of synthesis routes and polymer form. <i>European Polymer Journal</i> , 2012, 48, 1313-1322.	2.6	71
53	Preparation, characterization and antifouling property of polyethersulfoneâ€“PANI/PMA ultrafiltration membranes. <i>Desalination</i> , 2012, 299, 113-122.	4.0	75
54	Phase Segregation and Gas Separation Properties of Thermally Treated Copoly(ether-imide) from an Aromatic Dianhydride, an Aromatic Diamine, and Various Aliphatic Diamines. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 3766-3775.	1.8	15



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73	Effect of fractional free volume and $\langle T_g \rangle$ on gas separation through membranes made with different glassy polymers. <i>Journal of Applied Polymer Science</i> , 2008, 107, 1039-1046.	1.3	50
74	Sulfonated polynaphthalimides with benzimidazole pendant groups. <i>Polymer</i> , 2008, 49, 3875-3883.	1.8	40
75	Sulfonation of vulcanized ethylene-propylene diene terpolymer membranes. <i>Acta Materialia</i> , 2008, 56, 4780-4788.	3.8	13
76	Thermal treatment of poly(ethylene oxide)-segmented copolyimide based membranes: An effective way to improve the gas separation properties. <i>Journal of Membrane Science</i> , 2008, 323, 53-59.	4.1	54
77	Synthesis and evaluation of properties of novel poly(benzimidazoleamide)s. <i>Journal of Polymer Science Part A</i> , 2008, 46, 7566-7577.	2.5	24
78	Monomer Reactivity and Steric Factors affecting the Synthesis of Aromatic Polyamides. <i>High Performance Polymers</i> , 2007, 19, 592-602.	0.8	7
79	Experimental and Theoretical Study of an Improved Activated Polycondensation Method for Aromatic Polyimides. <i>Macromolecules</i> , 2007, 40, 8225-8232.	2.2	45
80	Thin-film polyimide/indium tin oxide composites for photovoltaic applications. <i>Journal of Applied Polymer Science</i> , 2007, 103, 3491-3497.	1.3	25
81	Synthesis and Properties of Novel Polyimides Bearing Sulfonated Benzimidazole Pendant Groups. <i>Macromolecular Rapid Communications</i> , 2007, 28, 616-622.	2.0	24
82	Gas separation of 6FDA-6FpDA membranes Effect of the solvent on polymer surfaces and permselectivity. <i>Journal of Membrane Science</i> , 2007, 293, 22-28.	4.1	68
83	Chemical modification of copolyimides with bulky pendent groups: Effect of modification on solubility and thermal stability. <i>Polymer Degradation and Stability</i> , 2007, 92, 2294-2299.	2.7	48
84	Effect of pendent oxyethylene moieties on the properties of aromatic polyisophthalamides. <i>Journal of Polymer Science Part A</i> , 2007, 45, 4671-4683.	2.5	19
85	Water vapor sorption and diffusion in sulfonated aromatic polyamides. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2007-2014.	2.4	11
86	Unprecedented Lability of the 5'-O-tert-Butyldimethylsilyl Group from 3'-Spiro-5'-((4'-acylamino-1,2'-oxathiole-2,2'-dioxide) Nucleoside Derivatives via Neighboring Participation of the 4'-Acylamino Residue. <i>Journal of Organic Chemistry</i> , 2006, 71, 1407-1415.	2.7	17
87	Synthesis and characterization of new aromatic polyamides bearing crown ethers or their dipodal counterparts in the pendant structure. II. Benzo-15-crown-5 and ortho-bis[2-(2-ethoxyethoxy)ethoxy]benzene. <i>Journal of Polymer Science Part A</i> , 2006, 44, 4063-4075.	2.5	25
88	Synthesis, characterization, and properties of new sequenced poly(ether amide)s based on 2-(4-aminophenyl)-5-aminobenzimidazole and 2-(3-aminophenyl)-5-aminobenzimidazole. <i>Journal of Polymer Science Part A</i> , 2006, 44, 1414-1423.	2.5	27
89	Thermal effect on polyethyleneoxide-containing copolyimide membranes for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Desalination</i> , 2006, 199, 188-190.	4.0	22
90	Permeability and selectivity of 6FDA-6FpDA gas membranes prepared from different solvents. <i>Desalination</i> , 2006, 200, 225-226.	4.0	9

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91	Effect of substituents on the permeation properties of polyamide membranes. <i>Journal of Membrane Science</i> , 2006, 280, 659-665.	4.1	76
92	Novel Cobalt (II) Phthalocyanine-Containing Polyimides: Synthesis, Characterization, Thermal and Optical Properties. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1852-1858.	2.0	17
93	Synthesis and properties evaluation of novel halogenated polyimides designed to prepare functional polymers. <i>Polymer</i> , 2005, 46, 11247-11254.	1.8	6
94	Synthesis, characterization, and water sorption properties of new aromatic polyamides containing benzimidazole and ethylene oxide moieties. <i>Journal of Polymer Science Part A</i> , 2005, 43, 112-121.	2.5	88
95	Polyisophthalamides with heteroaromatic pendent rings: Synthesis, physical properties, and water uptake. <i>Journal of Polymer Science Part A</i> , 2005, 43, 5300-5311.	2.5	45
96	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
97	Soluble Polyamides and Polyimides Functionalized with Benzo-15-Crown-5-Pendant Groups. <i>Macromolecular Rapid Communications</i> , 2004, 25, 592-597.	2.0	42
98	Soluble Polyimides from a New Dianhydride: 5-tert-Butyl-m-terphenyl-3,4,4'-tetracarboxylic Acid Dianhydride. <i>Macromolecular Rapid Communications</i> , 2003, 24, 686-691.	2.0	14
99	Gas separation properties of aromatic polyimides. <i>Journal of Membrane Science</i> , 2003, 215, 61-73.	4.1	108
100	Designing aromatic polyamides and polyimides for gas separation membranes. <i>Macromolecular Symposia</i> , 2003, 199, 293-306.	0.4	36
101	Gas separation properties of new poly(aryl ether ketone)s with pendant groups. <i>Journal of Membrane Science</i> , 2002, 205, 73-81.	4.1	16
102	Synthesis and characterization of halogen-containing poly(ether ketone)s. <i>Journal of Polymer Science Part A</i> , 2002, 40, 2601-2608.	2.5	6
103	Synthesis and characterization of aromatic polyamides containing alkylphthalimido pendent groups. <i>Journal of Polymer Science Part A</i> , 2002, 40, 3711-3724.	2.5	61
104	Electrochemical parameters of sulfonated poly(ether ether sulfone) membranes in HCl solutions determined by impedance spectroscopy and membrane potential measurements. <i>Solid State Ionics</i> , 2001, 145, 53-60.	1.3	23
105	Novel aromatic polyamides with 1,3-benzoxazole groups in the main chain. 1. Polymers derived from 2-(4-carboxyphenyl) benzoxazole-5- and 6-carboxylic acids. Synthesis and characterization. <i>Polymer</i> , 2001, 42, 7933-7941.	1.8	14
106	Synthesis and characterization of new soluble polyamides derived from 2,6-bis(4-aminophenyl)-3,5-dimethyltetrahydro-4H-pyran-4-one. <i>Journal of Polymer Science Part A</i> , 2001, 39, 1825-1832.	2.5	25
107	Synthesis and characterization of new soluble aromatic polyamides derived from 1,4-Bis(4-carboxyphenoxy)-2, 5-di-tert-butylbenzene. <i>Journal of Polymer Science Part A</i> , 2001, 39, 475-485.	2.5	72
108	Solvatochromic and rigidochromic fluorescent probes based on Diarylethylene and butadiene derivatives for UV-curing monitoring. <i>Polymer</i> , 2001, 42, 2815-2825.	1.8	34

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109	Synthesis and characterization of new soluble aromatic polyamides based on 4-(1-adamantyl)-1,3-bis(4-aminophenoxy)benzene. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1014-1023.	2.5	66
110	Sulfonated poly(ether ether sulfones). <i>Journal of Membrane Science</i> , 2000, 175, 43-52.	4.1	73
111	Gas separation properties of pendent phenyl substituted aromatic polyamides containing sulfone and hexafluoroisopropylidene groups. <i>Polymer</i> , 1999, 40, 5715-5722.	1.8	41
112	Synthesis, NMR studies and theoretical calculations of novel 3-spiro-branched ribofuranoses. <i>Tetrahedron</i> , 1999, 55, 12187-12200.	1.0	11
113	Synthesis and characterization of novel polyimides with bulky pendant groups. <i>Journal of Polymer Science Part A</i> , 1999, 37, 805-814.	2.5	106
114	Novel polyimides withp-nitrophenyl pendant groups. Synthesis and characterization. <i>Journal of Polymer Science Part A</i> , 1999, 37, 3377-3384.	2.5	4
115	Kinetic behavior in free-radical polymerization of isomer methacrylic monomers with active functional groups as side substituents. <i>Journal of Polymer Science Part A</i> , 1999, 37, 4528-4535.	2.5	2
116	Aromatic polyamides and polyimides derived from 3,3'-diaminobiphenyl: Synthesis, characterization, and molecular simulation study. <i>Journal of Polymer Science Part A</i> , 1999, 37, 4646-4655.	2.5	13
117	A theoretical study of the addition of silyl radicals to olefinic monomers. <i>Macromolecular Theory and Simulations</i> , 1999, 8, 93-101.	0.6	3
118	Quantum semiempirical study on the reactivity of silylated diamines in the synthesis of aromatic polyamides. <i>Macromolecular Theory and Simulations</i> , 1998, 7, 41-48.	0.6	14
119	Stereochemical structure of polymer systems bearing a vitamin E substituent studied by <sup>13</sup> C n.m.r. spectroscopy. <i>Polymer</i> , 1998, 39, 6163-6171.	1.8	0
120	Quantum semiempirical study of the reactivity of monomers in the synthesis of aromatic polyamides and polyimides. <i>Macromolecular Symposia</i> , 1997, 122, 197-202.	0.4	3
121	Synthesis and Polycondensation of Novel Nitroaromatic Monomers. 2. Wholly Ordered Polymers of N,N'-Bis(4-amino-3-nitrophenyl)terephthalamide and N,N'-Bis[4-((4-amino-3-nitrophenyl)-)]terephthalamide. <i>Macromolecules</i> , 1997, 30, 2507-2508.	0.784314	14
122	Synthesis of Aromatic Polyisophthalamides by in Situ Silylation of Aromatic Diamines. <i>Macromolecules</i> , 1997, 30, 2507-2508.	2.2	37
123			



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127	Synthesis and properties of aromatic polyamides with oligobenzamide pendent groups. I. Poly-5-(4-benzoylamino-1-benzoylamino)isophthalamides. Journal of Polymer Science Part A, 1995, 33, 1987-1994.	2.5	28
128	Gas separation properties of aromatic polyamides containing hexafluoroisopropylidene groups. Journal of Membrane Science, 1995, 104, 231-241.	4.1	66
129	Polyisophthalamides with pendent heterocyclic groups: 3. Pyridine pendent groups. Polymer, 1995, 36, 1113-1116.	1.8	7
130	Aromatic polyamides with pendent heterocycles: 2. Benzoxazole groups. Polymer, 1994, 35, 1317-1321.	1.8	21
131	Polyimides from 3,4:3',4'-m-terphenyltetracarboxylic dianhydride. Synthesis and characterization. Macromolecular Rapid Communications, 1994, 15, 417-424.	2.0	11
132	Aromatic polyamides with benzothiazole pendent groups: synthesis, nuclear magnetic resonance structural study and evaluation of properties. Polymer, 1994, 35, 872-877.	1.8	33
133	Theoretical Study of the Synthesis of Aromatic Polyethers by the Nucleophilic Aromatic Substitution between Fluoro Aromatic Compounds and Phenoxides. Macromolecules, 1994, 27, 7164-7170.	2.2	35
134	Quantum semiempirical studies on the formation of aromatic polyamides, 1. Effect of structural parameters of diamines on the polyamidation reaction. Die Makromolekulare Chemie Theory and Simulations, 1993, 2, 815-827.	1.0	7
135	Polyisophthalamides with benzoyl pendent groups: Synthesis, characterization, and evaluation of properties. Journal of Polymer Science Part A, 1993, 31, 1203-1210.	2.5	10
136	Polyisophthalamides with phenylsulfonyl pendent groups. Journal of Polymer Science Part A, 1993, 31, 1383-1392.	2.5	11
137	Polyisophthalamides with phenylthio pendent groups. Journal of Polymer Science Part A, 1992, 30, 1327-1333.	2.5	25
138	Polyisophthalamides with pendant phenyl groups. Die Makromolekulare Chemie Rapid Communications, 1990, 11, 471-476.	1.1	12