

Agustin Etxeberria

List of Publications by Citations

Source: <https://exaly.com/author-pdf/878717/agustin-etxeberria-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

2,141
citations

26
h-index

38
g-index

107
ext. papers

2,457
ext. citations

4.5
avg, IF

5.05
L-index

#	Paper	IF	Citations
105	Packaging materials with desired mechanical and barrier properties and full chemical recyclability. <i>Nature Communications</i> , 2019 , 10, 3559	17.4	132
104	Synthesis, structure and properties of poly(L-lactide-co-ε-caprolactone) statistical copolymers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 9, 100-12	4.1	123
103	"Michael" Nanocarriers Mimicking Transient-Binding Disordered Proteins.. <i>ACS Macro Letters</i> , 2013 , 2, 491-495	6.6	92
102	A PALS Contribution to the Supramolecular Structure of Poly(l-lactide). <i>Macromolecules</i> , 2010 , 43, 4698-4707	4.7	60
101	Enantioselective Ring-Opening Polymerization of rac-Lactide Dictated by Densely Substituted Amino Acids. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4805-4814	16.4	52
100	Structural and electronic properties of PbTiO ₃ , PbZrO ₃ , and PbZr _{0.5} Ti _{0.5} O ₃ : First-principles density-functional studies. <i>Journal of Chemical Physics</i> , 2002 , 117, 2699-2709	3.9	52
99	Effects of chain microstructures and derived crystallization capability on hydrolytic degradation of poly(l-lactide/ε-caprolactone) copolymers. <i>Polymer Degradation and Stability</i> , 2013 , 98, 481-489	4.7	51
98	Synthesis and characterization of poly (l-lactide/ε-caprolactone) statistical copolymers with well resolved chain microstructures. <i>Polymer</i> , 2013 , 54, 2621-2631	3.9	48
97	Effects of chain microstructures on mechanical behavior and aging of a poly(L-lactide-co-ε-caprolactone) biomedical thermoplastic-elastomer. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 12, 29-38	4.1	45
96	Light and gas barrier properties of PLLA/metallic nanoparticles composite films. <i>European Polymer Journal</i> , 2017 , 91, 10-20	5.2	43
95	Photoelectrochemical properties of doped polyaniline: Application to hydrogen photoproduction. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6593-6599	6.7	38
94	Novel hydrogels of chitosan and poly(vinyl alcohol)-g-glycolic acid copolymer with enhanced rheological properties. <i>Carbohydrate Polymers</i> , 2014 , 103, 267-73	10.3	37
93	Electronic and chemical properties of mixed-metal oxides: Adsorption and reaction of NO on SrTiO ₃ (100). <i>Journal of Chemical Physics</i> , 2003 , 118, 6562-6571	3.9	37
92	Inverse gas chromatography in the characterization of polymeric materials. <i>Journal of Chromatography A</i> , 1992 , 607, 227-237	4.5	36
91	Barrier character improvement of an amorphous polyamide (Trogamid) by the addition of a nanoclay. <i>Journal of Membrane Science</i> , 2007 , 301, 190-199	9.6	35
90	Miscibility and Hydrogen Bonding in Blends of Poly(4-vinylphenol)/Poly(vinyl methyl ketone). <i>Polymers</i> , 2014 , 6, 2752-2763	4.5	32
89	Influence of the Rigid Amorphous Fraction and Crystallinity on Polylactide Transport Properties. <i>Macromolecules</i> , 2018 , 51, 3923-3931	5.5	32

88	Crystallization and melting behaviour of poly(bisphenol A hydroxy ether)/poly(ethylene oxide) blends. <i>Polymer</i> , 1989 , 30, 1160-1165	3.9	30
87	Miscible blends of poly(ethylene oxide) and the poly(hydroxy ether) of bisphenol A (phenoxy). <i>Macromolecules</i> , 1991 , 24, 5546-5551	5.5	30
86	Tailoring the properties of PP/PA6 nanostructured blends by the addition of nanosilica and compatibilizer agents. <i>European Polymer Journal</i> , 2016 , 85, 532-552	5.2	29
85	Effect of combining cellulose nanocrystals and graphene nanoplatelets on the properties of poly(lactic acid) based films. <i>EXPRESS Polymer Letters</i> , 2018 , 12, 543-555	3.4	29
84	Blends of biodegradable poly(butylene adipate-co-terephthalate) with poly(hydroxi amino ether) for packaging applications: Miscibility, rheology and transport properties. <i>European Polymer Journal</i> , 2018 , 105, 348-358	5.2	28
83	A new generation of poly(lactide/ε-caprolactone) polymeric biomaterials for application in the medical field. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3573-84	5.4	27
82	Antiplasticization of a polyamide: a positron annihilation lifetime spectroscopy study. <i>Polymer</i> , 2004 , 45, 2949-2957	3.9	27
81	Tributyl citrate as an effective plasticizer for biodegradable polymers: effect of plasticizer on free volume and transport and mechanical properties. <i>Polymer International</i> , 2019 , 68, 125-133	3.3	27
80	Effect of H12MDI isomer composition on mechanical and physico-chemical properties of polyurethanes based on amorphous and semicrystalline soft segments. <i>Polymer Bulletin</i> , 2013 , 70, 2193-2210	2.4	26
79	Key role of entropy in nanoparticle dispersion: polystyrene-nanoparticle/ linear-polystyrene nanocomposites as a model system. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 650-1	3.6	26
78	Effects of repeat unit sequence distribution and residual catalyst on thermal degradation of poly(L-lactide/ε-caprolactone) statistical copolymers. <i>Polymer Degradation and Stability</i> , 2013 , 98, 1293-1299	4.7	25
77	In vitro degradation studies and mechanical behavior of poly(ε-caprolactone-co-δ-valerolactone) and poly(ε-caprolactone-co-L-lactide) with random and semi-alternating chain microstructures. <i>European Polymer Journal</i> , 2015 , 71, 585-595	5.2	24
76	Polyether Synthesis by Bulk Self-Condensation of Diols Catalyzed by Non-Eutectic Acid-Base Organocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4103-4111	8.3	22
75	A nanotechnology pathway to arresting phase separation in soft nanocomposites. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 573-8	4.8	22
74	Polymer-solvent interaction parameters in polymer solutions at high polymer concentrations. <i>Journal of Chromatography A</i> , 2002 , 969, 245-54	4.5	22
73	Dielectric, mechanical and transport properties of bisphenol A polycarbonate/graphene nanocomposites prepared by melt blending. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	21
72	Synthesis and characterization of ε-pentadecalactone-co-δ-decalactone copolymers: Evaluation of thermal, mechanical and biodegradation properties. <i>Polymer</i> , 2015 , 81, 12-22	3.9	21
71	Miscibility and degradation of polymer blends based on biodegradable poly(butylene adipate-co-terephthalate). <i>Polymer Degradation and Stability</i> , 2018 , 151, 25-35	4.7	21

70	Crystallization and its effect on the mechanical properties of a medium chain length polyhydroxyalkanoate. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 39, 87-94	4.1	21
69	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends. Thermal properties and solid state ¹³ C-NMR study. <i>European Polymer Journal</i> , 1993 , 29, 1477-1481	5.2	21
68	The phase behaviour of poly(styrene-co-methacrylic acid)/poly(2,6-dimethyl-1,4-phenylene oxide) by inverse gas chromatography. <i>Journal of Chromatography A</i> , 2006 , 1127, 237-45	4.5	20
67	Probing Polymer-Polymer Interaction Parameters in Miscible Blends by Inverse Gas Chromatography: Solvent Effects. <i>Macromolecules</i> , 1994 , 27, 1245-1248	5.5	20
66	Improving the barrier properties of a biodegradable polyester for packaging applications. <i>European Polymer Journal</i> , 2019 , 115, 76-85	5.2	19
65	Screening of different organocatalysts for the sustainable synthesis of PET. <i>European Polymer Journal</i> , 2018 , 104, 170-176	5.2	19
64	Polymerization of n-butyl acrylate with high concentration of a chain transfer agent (CBr ₄): detailed characterization and impact on branching. <i>Polymer Chemistry</i> , 2013 , 4, 2062	4.9	19
63	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends. An inverse gas chromatography study. <i>European Polymer Journal</i> , 1993 , 29, 1483-1487	5.2	19
62	Tougher biodegradable polylactide system for bone fracture fixations: Miscibility study, phase morphology and mechanical properties. <i>European Polymer Journal</i> , 2018 , 98, 411-419	5.2	19
61	Effect of SEBS-g-MAH addition on the mechanical, rheological, and morphological properties of polycarbonate/acrylonitrile-butadiene-styrene blends. <i>Journal of Elastomers and Plastics</i> , 2018 , 50, 611-633	1.6	18
60	In vitro degradation of poly(lactide-co-valerolactone) copolymers. <i>Polymer Degradation and Stability</i> , 2015 , 112, 104-116	4.7	18
59	Miscibility and interactions in a mixture of poly(ethylene oxide) and an aromatic poly(ether amide). <i>Polymer</i> , 1998 , 39, 1035-1042	3.9	18
58	A Study of Mixtures of Poly(hydroxy ether of bisphenol A) and Poly(epsilon-caprolactone) by Inverse Gas Chromatography. <i>Macromolecules</i> , 1994 , 27, 1395-1400	5.5	18
57	Isomorphic Polyoxyalkylene Copolyethers Obtained by Copolymerization of Aliphatic Diols. <i>Macromolecules</i> , 2019 , 52, 3506-3515	5.5	17
56	Ethylene brassylate-co-hexalactone biobased polymers for application in the medical field: synthesis, characterization and cell culture studies. <i>RSC Advances</i> , 2016 , 6, 22121-22136	3.7	17
55	Synthesis and properties of pentadecalactone-co-hexalactone copolymers: a biodegradable thermoplastic elastomer as an alternative to poly(epsilon-caprolactone). <i>RSC Advances</i> , 2016 , 6, 3137-3149	3.7	16
54	Novel poly(vinyl alcohol)-g-poly(hydroxy acid) copolymers: Synthesis and characterization. <i>Polymer</i> , 2012 , 53, 50-59	3.9	16
53	Phase diagram and entropic interaction parameter of athermal all-polymer nanocomposites. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 756-761	3.2	16

52	Tensile behavior and dynamic mechanical analysis of novel poly(lactide/ε-valerolactone) statistical copolymers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 35, 39-50	4.1	15
51	Comparison between Static (Sorption) and Dynamic (IGC) Methods in the Determination of Interaction Parameters in Polymer/Polymer Blends. <i>Macromolecules</i> , 2000 , 33, 9115-9121	5.5	15
50	Organic-acid mediated bulk polymerization of ε-caprolactam and its copolymerization with ε-caprolactone. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2394-2402	2.5	14
49	Study of the relationship between transport properties and free volume based in polyamide blends. <i>Journal of Membrane Science</i> , 2006 , 284, 173-179	9.6	14
48	Lattice Fluid Theory and Inverse Gas Chromatography in the Analysis of Polymer-Polymer Interactions. <i>Macromolecules</i> , 1995 , 28, 7188-7195	5.5	14
47	Synthesis and characterization of poly (ε-caprolactam-co-lactide) polyesteramides using Brønsted acid or Brønsted base organocatalyst. <i>European Polymer Journal</i> , 2017 , 95, 650-659	5.2	13
46	Polyethylene terephthalate/low density polyethylene/titanium dioxide blend nanocomposites: Morphology, crystallinity, rheology, and transport properties. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 46986	2.9	13
45	Influence of the organic compounds addition in the polymer free volume, gas sorption and diffusion. <i>European Polymer Journal</i> , 2012 , 48, 1218-1229	5.2	13
44	Design and stabilization of block copolymer micelles via phenol/pyridine hydrogen-bonding interactions. <i>Polymer</i> , 2010 , 51, 1355-1362	3.9	13
43	Exothermal Process in Miscible Polylactide/Poly(vinyl phenol) Blends: Mixing Enthalpy or Chemical Reaction?. <i>Macromolecular Rapid Communications</i> , 2006 , 27, 2026-2031	4.8	13
42	Estimation of interaction parameters of a poly(hydroxy ether of bisphenol A)/poly(vinyl methyl ether) blend by inverse gas chromatography. <i>Polymer</i> , 1994 , 35, 2128-2132	3.9	13
41	Poly(hydroxy acids) derived from the self-condensation of hydroxy acids: from polymerization to end-of-life options. <i>Polymer Chemistry</i> , 2020 , 11, 4861-4874	4.9	12
40	Crystallization and melting behavior of poly(ε-caprolactone-co-ε-valerolactone) and poly(ε-caprolactone-co-L-lactide) copolymers with novel chain microstructures. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	12
39	Diffusivity of ethylene and propylene in atactic and isotactic polypropylene: Morphology effects and free-volume simulations. <i>Journal of Applied Polymer Science</i> , 2007 , 104, 3871-3878	2.9	12
38	Ethylene brassylate: Searching for new comonomers that enhance the ductility and biodegradability of polylactides. <i>Polymer Degradation and Stability</i> , 2017 , 137, 23-34	4.7	11
37	Blends of poly(ether imide) and an aromatic poly(ether amide): Phase behavior and CO ₂ transport properties. <i>Journal of Applied Polymer Science</i> , 1998 , 68, 2141-2149	2.9	11
36	Transport properties of trogamid: Comparison of different experimental techniques*. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 2034-2042	2.9	11
35	Organocatalyzed Polymerization of PET-mb-poly(oxyhexane) Copolymers and Their Self-Assembly into Double Crystalline Superstructures. <i>Macromolecules</i> , 2019 , 52, 6834-6848	5.5	10

34	Improving the barrier character of polylactide/phenoxy immiscible blend using poly(lactide-co-ε-caprolactone) block copolymer as a compatibilizer. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45396	2.9	10
33	Miscibility and specific interactions in blends of poly(4-vinylphenol-co-methyl methacrylate)/poly(styrene-co-4-vinylpyridine). <i>Journal of Applied Polymer Science</i> , 2012 , 125, 3811-3819 ^{2.9}		10
32	Mechanical properties and state of miscibility in poly(racD,L-lactide-co-glycolide)/(L-lactide-co-ε-caprolactone) blends. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 71, 372-382	4.1	9
31	PET-ran-PLA Partially Degradable Random Copolymers Prepared by Organocatalysis: Effect of Poly(l-lactic acid) Incorporation on Crystallization and Morphology. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8647-8659	8.3	9
30	Determination of the diffusion coefficients of organic solvents in polyepichlorohydrin: A comparative study of inverse gas chromatography and sorption methods. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 2216-2223	2.9	9
29	Water-transport properties in polyetherimide blends with a liquid crystal polymer. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 323-332	2.9	9
28	Blends based on biodegradable poly(caprolactone) with outstanding barrier properties for packaging applications: The role of free volume and interactions. <i>European Polymer Journal</i> , 2020 , 135, 109869	5.2	9
27	Group contribution method for predicting polymer-polymer miscibility: binary blends of poly(p-vinylphenol) and ester-containing polymers. <i>Macromolecules</i> , 1992 , 25, 6909-6914	5.5	8
26	Gas chromatographic measurements of solute diffusion in blends of phenoxy and poly(1,4-butylene adipate). <i>European Polymer Journal</i> , 1995 , 31, 609-614	5.2	7
25	Influence of ABS Type and Compatibilizer on the Thermal and Mechanical Properties of PC/ABS Blends. <i>International Polymer Processing</i> , 2020 , 35, 83-94	1	7
24	Synthesis and Characterization of Fully Biobased Copolyether Polyols. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 10746-10753	3.9	6
23	Improving the barrier character of poly(caprolactone): Transport properties and free volume of immiscible blends. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 48018	2.9	6
22	The phase behavior and thermal stability of blends of poly(styrene-co-methacrylic acid)/poly(styrene-co-4-vinylpyridine). <i>Journal of Applied Polymer Science</i> , 2011 , 121, 462-468	2.9	6
21	Miscibility Enhancement in All-Polymer Nanocomposites Composed of Weakly-Charged Flexible Chains and Polar Nanoparticles. <i>Journal of Nano Research</i> , 2009 , 6, 123-132	1	6
20	Barrier property enhancement of polyamide 6 by blending with a polyhydroxyamino-ether resin. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 1625-1634	2.6	6
19	Phase behavior of binary and ternary blends of poly(styrene-co-methacrylic acid), poly(styrene-co-4-vinylpyridine), and poly(2,6-dimethyl-1,4-phenylene oxide). <i>Journal of Applied Polymer Science</i> , 2008 , 108, 220-227	2.9	6
18	Effect of hydrogen bonding on the physicochemical and rheological features of chemically modified phenoxy. <i>Polymer</i> , 2018 , 159, 12-22	3.9	6
17	Survey on transport properties of vapours and liquids on biodegradable polymers. <i>European Polymer Journal</i> , 2019 , 120, 109232	5.2	5

16	Characterization of Comb Shaped MAA-co-PEGMA Copolymers Synthesized by Free-Radical Polymerization. <i>Macromolecular Reaction Engineering</i> , 2020 , 14, 2000015	1.5	5
15	Enthalpies of Mixing in Polymer Blends of Chlorinated Polymers: Application of a Group Contribution Method. <i>Macromolecules</i> , 1995 , 28, 589-595	5.5	5
14	Modelling and control of the microstructure of comb-like poly(MAA-co-PEGMA) water-soluble copolymers. <i>Polymer Chemistry</i> , 2019 , 10, 1000-1009	4.9	4
13	Lactide-caprolactone copolymers with tuneable barrier properties for packaging applications. <i>Polymer</i> , 2020 , 202, 122681	3.9	4
12	Kinetics of core-shell nanoparticle formation by two-dimensional nuclear magnetic resonance. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 932-5	4.8	4
11	Interaction energies in polymer/polymer mixtures. <i>Polymer</i> , 1997 , 38, 4085-4090	3.9	4
10	Miscible blends of poly(ethylene oxide) with brush copolymers of poly(vinyl alcohol)-graft-poly(L-lactide). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016 , 54, 1217-1226	2.6	4
9	Elaboration and Characterization of Conductive Polymer Nanocomposites with Potential Use as Electrically Driven Membranes. <i>Polymers</i> , 2019 , 11,	4.5	3
8	Miscibility and Transport Properties of Poly(lactide)/Phenoxy System. <i>Macromolecular Symposia</i> , 2012 , 321-322, 20-24	0.8	3
7	Miscibility windows of poly(vinyl methyl ether) with modified phenoxy resin. <i>European Polymer Journal</i> , 2001 , 37, 1943-1950	5.2	3
6	Hydrogen Bonds in Blends of Poly(vinylphenol-co-methylmethacrylate)/Poly(vinylmethylketone). <i>Macromolecular Symposia</i> , 2012 , 321-322, 170-174	0.8	2
5	Homogenization of Mutually Immiscible Polymers Using Nanoscale Effects: A Theoretical Study. <i>Research Letters in Physical Chemistry</i> , 2008 , 2008, 1-4		2
4	Plasticization of poly(lactide) with poly(ethylene glycol): Low weight plasticizer vs triblock copolymers. Effect on free volume and barrier properties. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48868	2.9	2
3	Thermodynamic Study of Blends of Poly(4-vinylphenol-co-methyl methacrylate)/Poly(styrene-co-4-vinylpyridine) by Inverse Gas Chromatography. <i>Macromolecular Symposia</i> , 2012 , 321-322, 175-178	0.8	
2	Enhancement of semiconducting and thermomechanical properties of materials based on polyaniline and polyvinylpyrrolidone. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	
1	Modulating the Crystallinity of a Circular Plastic towards Packaging Material with Outstanding Barrier Properties.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200008	4.8	