

Agustin Etxeberria

List of Publications by Year in Descending Order

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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	Enhancement of semiconducting and thermomechanical properties of materials based on polyaniline and polyvinylpyrrolidone. <i>Journal of Polymer Research</i> , 2022 , 29, 1	2.7	
104	Modulating the Crystallinity of a Circular Plastic towards Packaging Material with Outstanding Barrier Properties.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200008	4.8	
103	Synthesis and Characterization of Fully Biobased Copolyether Polyols. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 10746-10753	3.9	6
102	Characterization of Comb Shaped MAA-co-PEGMA Copolymers Synthesized by Free-Radical Polymerization. <i>Macromolecular Reaction Engineering</i> , 2020 , 14, 2000015	1.5	5
101	Lactide-caprolactone copolymers with tuneable barrier properties for packaging applications. <i>Polymer</i> , 2020 , 202, 122681	3.9	4
100	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
99	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
98	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
97	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
96	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
95	Survey on transport properties of vapours and liquids on biodegradable polymers. <i>European Polymer Journal</i> , 2019 , 120, 109232	5.2	5
94	Polyether Synthesis by Bulk Self-Condensation of Diols Catalyzed by Non-Eutectic AcidBase Organocatalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4103-4111	8.3	22
93	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
92	Isomorphic Polyoxyalkylene Copolyethers Obtained by Copolymerization of Aliphatic Diols. <i>Macromolecules</i> , 2019 , 52, 3506-3515	5.5	17
91	Improving the barrier properties of a biodegradable polyester for packaging applications. <i>European Polymer Journal</i> , 2019 , 115, 76-85	5.2	19
90	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
89	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

88	Packaging materials with desired mechanical and barrier properties and full chemical recyclability. <i>Nature Communications</i> , 2019 , 10, 3559	17.4	132
87	Elaboration and Characterization of Conductive Polymer Nanocomposites with Potential Use as Electrically Driven Membranes. <i>Polymers</i> , 2019 , 11,	4.5	3
86	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
85	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
84	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
83	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}	1.6	18
82	Screening of different organocatalysts for the sustainable synthesis of PET. <i>European Polymer Journal</i> , 2018 , 104, 170-176	5.2	19
81	Effect of hydrogen bonding on the physicochemical and rheological features of chemically modified phenoxy. <i>Polymer</i> , 2018 , 159, 12-22	3.9	6
80	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
79	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
78	Influence of the Rigid Amorphous Fraction and Crystallinity on Polylactide Transport Properties. <i>Macromolecules</i> , 2018 , 51, 3923-3931	5.5	32
77	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
76	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
75	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
74	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
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 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
71	Light and gas barrier properties of PLLA/metallic nanoparticles composite films. <i>European Polymer Journal</i> , 2017 , 91, 10-20	5.2	43

70	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
69	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
68	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
67	Synthesis and properties of ε-pentadecalactone-co-ε-hexalactone copolymers: a biodegradable thermoplastic elastomer as an alternative to poly(ε-caprolactone). <i>RSC Advances</i> , 2016 , 6, 3137-3149	3.7	16
66	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
65	Ethylene brassylate-co-ε-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
64	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
63	Synthesis and characterization of ε-pentadecalactone-co-ε-decalactone copolymers: Evaluation of thermal, mechanical and biodegradation properties. <i>Polymer</i> , 2015 , 81, 12-22	3.9	21
62	Crystallization and melting behavior of poly(ε-caprolactone-co-δ-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
61	In vitro degradation of poly(lactide/δ-valerolactone) copolymers. <i>Polymer Degradation and Stability</i> , 2015 , 112, 104-116	4.7	18
60	Tensile behavior and dynamic mechanical analysis of novel poly(lactide/δ-valerolactone) statistical copolymers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 35, 39-50	4.1	15
59	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
58	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
57	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
56	Miscibility and Hydrogen Bonding in Blends of Poly(4-vinylphenol)/Poly(vinyl methyl ketone). <i>Polymers</i> , 2014 , 6, 2752-2763	4.5	32
55	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
54	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
53	Polymerization of n-butyl acrylate with high concentration of a chain transfer agent (CBr4): detailed characterization and impact on branching. <i>Polymer Chemistry</i> , 2013 , 4, 2062	4.9	19

52	Photoelectrochemical properties of doped polyaniline: Application to hydrogen photoproduction. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 6593-6599	6.7	38
51	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
50	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
49	"Michael" Nanocarriers Mimicking Transient-Binding Disordered Proteins.. <i>ACS Macro Letters</i> , 2013 , 2, 491-495	6.6	92
48	Novel poly(vinyl alcohol)-g-poly(hydroxy acid) copolymers: Synthesis and characterization. <i>Polymer</i> , 2012 , 53, 50-59	3.9	16
47	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, 100-112	4.1	123
46	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
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	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
43	Miscibility and Transport Properties of Poly(lactide)/Phenoxy System. <i>Macromolecular Symposia</i> , 2012 , 321-322, 20-24	0.8	3
42	Hydrogen Bonds in Blends of Poly(vinylphenol-co-methylmethacrylate)/Poly(vinylmethylketone). <i>Macromolecular Symposia</i> , 2012 , 321-322, 170-174	0.8	2
41	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	
40	A nanotechnology pathway to arresting phase separation in soft nanocomposites. <i>Macromolecular Rapid Communications</i> , 2011 , 32, 573-8	4.8	22
39	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
38	A PALS Contribution to the Supramolecular Structure of Poly(l-lactide). <i>Macromolecules</i> , 2010 , 43, 4698-4707	4.9	60
37	Design and stabilization of block copolymer micelles via phenol/pyridine hydrogen-bonding interactions. <i>Polymer</i> , 2010 , 51, 1355-1362	3.9	13
36	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
35	Kinetics of core-shell nanoparticle formation by two-dimensional nuclear magnetic resonance. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 932-5	4.8	4

34	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
33	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
32	Homogenization of Mutually Immiscible Polymers Using Nanoscale Effects: A Theoretical Study. <i>Research Letters in Physical Chemistry</i> , 2008 , 2008, 1-4		2
31	Phase diagram and entropic interaction parameter of athermal all-polymer nanocomposites. <i>Polymers for Advanced Technologies</i> , 2008 , 19, 756-761	3.2	16
30	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
29	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
28	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
27	Transport properties of trogamid: Comparison of different experimental techniques*. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 2034-2042	2.9	11
26	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
25	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
24	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
23	Antiplasticization of a polyamide: a positron annihilation lifetime spectroscopy study. <i>Polymer</i> , 2004 , 45, 2949-2957	3.9	27
22	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
21	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
20	Polymer-solvent interaction parameters in polymer solutions at high polymer concentrations. <i>Journal of Chromatography A</i> , 2002 , 969, 245-54	4.5	22
19	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
18	Miscibility windows of poly(vinyl methyl ether) with modified phenoxy resin. <i>European Polymer Journal</i> , 2001 , 37, 1943-1950	5.2	3
17	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

16	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
15	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
14	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
13	Interaction energies in polymer/polymer mixtures. <i>Polymer</i> , 1997 , 38, 4085-4090	3.9	4
12	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
11	Lattice Fluid Theory and Inverse Gas Chromatography in the Analysis of Polymer-Polymer Interactions. <i>Macromolecules</i> , 1995 , 28, 7188-7195	5.5	14
10	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
9	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
8	Probing Polymer-Polymer Interaction Parameters in Miscible Blends by Inverse Gas Chromatography: Solvent Effects. <i>Macromolecules</i> , 1994 , 27, 1245-1248	5.5	20
7	A Study of Mixtures of Poly(hydroxy ether of bisphenol A) and Poly(ϵ -caprolactone) by Inverse Gas Chromatography. <i>Macromolecules</i> , 1994 , 27, 1395-1400	5.5	18
6	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends II Thermal properties and solid state ¹³ C-NMR study. <i>European Polymer Journal</i> , 1993 , 29, 1477-1481	5.2	21
5	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends II. An inverse gas chromatography study. <i>European Polymer Journal</i> , 1993 , 29, 1483-1487	5.2	19
4	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
3	Inverse gas chromatography in the characterization of polymeric materials. <i>Journal of Chromatography A</i> , 1992 , 607, 227-237	4.5	36
2	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
1	Crystallization and melting behaviour of poly(bisphenol A hydroxy ether)/poly(ethylene oxide) blends. <i>Polymer</i> , 1989 , 30, 1160-1165	3.9	30