

# Juan J Iruin

## List of Publications by Year in descending order

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91  
papers

1,955  
citations

257450

24  
h-index

315739

38  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Blends of amorphous and crystalline polylactides with poly(methyl methacrylate) and poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlo	3.8	141
2	Association Equilibria and Miscibility Prediction in Blends of Poly(vinylphenol) with Poly(hydroxybutyrate) and Related Homo- and Copolymers:Â An FTIR Study. <i>Macromolecules</i> , 1996, 29, 5605-5610.	4.8	89
3	Manganese oxide catalysts for secondary zinc air batteries: from electrocatalytic activity to bifunctional air electrode performance. <i>Electrochimica Acta</i> , 2016, 217, 80-91.	5.2	88
4	Thermal and infra-red spectroscopic investigations of a miscible blend composed of poly(vinyl phenol) and poly(hydroxybutyrate). <i>Polymer</i> , 1995, 36, 3235-3237.	3.8	82
5	Morphology of High Impact Polypropylene Particlesâ€. <i>Macromolecules</i> , 2005, 38, 2795-2801.	4.8	72
6	Hydrogen Bonding in Blends of Phenoxy Resin and Poly(vinylpyrrolidone). <i>Macromolecules</i> , 1995, 28, 3707-3712.	4.8	49
7	Ester exchange reactions in polyarylate/poly(ethylene terephthalate) blends. <i>Polymer</i> , 1986, 27, 2013-2018.	3.8	47
8	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1984, 185, 1761-1766.	1.1	46
9	Ternary polymer mixtures: Polyarylate/phenoxy/poly(butylene terephthalate). <i>Journal of Applied Polymer Science</i> , 1986, 32, 5945-5955.	2.6	45
10	Hydrogen-Bonding Interactions between Formic Acid and Pyridine. <i>Journal of Physical Chemistry A</i> , 2002, 106, 4187-4191.	2.5	41
11	Electrospinning of waterborne polyurethanes. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1176-1179.	2.6	41
12	Miscibility and phase separation in poly(vinyl methyl ether)/poly(bisphenol A hydroxy ether) blends. <i>Macromolecules</i> , 1987, 20, 3038-3042.	4.8	39
13	Inverse gas chromatography in the characterization of polymeric materials. <i>Journal of Chromatography A</i> , 1992, 607, 227-237.	3.7	36
14	Miscible blends of poly(ethylene oxide) and the poly(hydroxy ether) of bisphenol A (phenoxy). <i>Macromolecules</i> , 1991, 24, 5546-5551.	4.8	35
15	Binary blends containing a commercial polyarylate. <i>Polymer Engineering and Science</i> , 1984, 24, 608-611.	3.1	34
16	Crystallization and melting behaviour of poly(bisphenol A hydroxy ether)/poly(ethylene oxide) blends. <i>Polymer</i> , 1989, 30, 1160-1165.	3.8	34
17	Poly(ethylene terephthalate)/polyarylate blends: Influence of interchange reactions on the melting behavior of poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 1991, 42, 489-493.	2.6	34
18	Phenoxy blends: an approach to the miscibility by FTi.r. and chemical modification of the interacting sites. <i>Polymer</i> , 1993, 34, 38-42.	3.8	29

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19	Polymer-solvent interaction parameters in polymer solutions at high polymer concentrations. <i>Journal of Chromatography A</i> , 2002, 969, 245-254.	3.7	29
20	Antiplasticization of a polyamide: a positron annihilation lifetime spectroscopy study. <i>Polymer</i> , 2004, 45, 2949-2957.	3.8	29
21	Phenoxy resin: Characterization, solution properties, and inverse gas chromatography investigation of its potential miscibility with other polymers. <i>Journal of Applied Polymer Science</i> , 1989, 37, 3459-3470.	2.6	28
22	Miscibility and thermal decomposition in phenoxy/poly(ethylene terephthalate) and phenoxy/poly(butylene terephthalate) blends. <i>Materials Chemistry and Physics</i> , 1987, 18, 147-154.	4.0	27
23	Evaluation of the transport properties of Poly(3-hydroxybutyrate) and its 3-hydroxyvalerate copolymers for packaging applications. <i>Macromolecular Symposia</i> , 1999, 144, 427-438.	0.7	27
24	Electrospinning of poly (2-ethyl-2-oxazoline). <i>Journal of Materials Science</i> , 2009, 44, 3186-3191.	3.7	26
25	Molten polyarylate-poly(butylene terephthalate) blends: kinetics and statistical analysis of the exchange reactions by <sup>1</sup> H n.m.r.. <i>Polymer</i> , 1995, 36, 1357-1361.	3.8	25
26	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends-I. Thermal properties and solid state <sup>13</sup> C-NMR study. <i>European Polymer Journal</i> , 1993, 29, 1477-1481.	5.4	24
27	Origins of Product Heterogeneity in the Spheripol High Impact Polypropylene Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 4178-4187.	3.7	24
28	Blends of bacterial poly(3-hydroxybutyrate) with synthetic poly(3-hydroxybutyrate) and poly(epichlorohydrin): transport properties of carbon dioxide and water vapour. <i>Polymer</i> , 2001, 42, 953-962.	3.8	23
29	Migration of antifog additives in agricultural films of low-density polyethylene and ethylene-vinyl acetate copolymers. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2299-2307.	2.6	23
30	Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct methanol fuel cell applications. <i>Polymer Bulletin</i> , 2009, 62, 813-827.	3.3	23
31	On the application of an association model to blends of phenoxy and ether-containing polymers. <i>Polymer</i> , 1994, 35, 3712-3718.	3.8	22
32	Probing Polymer-Polymer Interaction Parameters in Miscible Blends by Inverse Gas Chromatography: Solvent Effects. <i>Macromolecules</i> , 1994, 27, 1245-1248.	4.8	22
33	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends-II. An inverse gas chromatography study. <i>European Polymer Journal</i> , 1993, 29, 1483-1487.	5.4	21
34	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, 237-245.	3.7	21
35	Infrared spectroscopic studies of the self-association of ethyl urethane. <i>Vibrational Spectroscopy</i> , 2000, 23, 187-197.	2.2	20
36	Microphase separation and hydrophobicity of urethane/siloxane copolymers with low siloxane content. <i>Progress in Organic Coatings</i> , 2014, 77, 798-802.	3.9	20

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37	Determination of the interaction parameter $\chi_1^H$ of poly(ethylene oxide) by gas-liquid chromatography below the melting temperature. <i>Polymer</i> , 1983, 24, 417-422.	3.8	19
38	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.	4.8	19
39	Carbon dioxide transport properties of composite membranes of a polyetherimide and a liquid crystal polymer. <i>European Polymer Journal</i> , 1998, 34, 1405-1413.	5.4	19
40	Miscibility and interactions in a mixture of poly(ethylene oxide) and an aromatic poly(ether amide). <i>Polymer</i> , 1998, 39, 1035-1042.	3.8	19
41	Ternary blends containing polyarylate, polycarbonate and poly(butylene terephthalate). <i>European Polymer Journal</i> , 1989, 25, 1169-1172.	5.4	18
42	An attempt to predict phenoxy resin miscibility using a group contribution method. <i>Macromolecules</i> , 1991, 24, 6458-6463.	4.8	18
43	Interchange reactions in poly(ethylene terephthalate)/poly(hydroxy ether of bisphenol A) blends: Effect on thermal behaviour. <i>European Polymer Journal</i> , 1994, 30, 901-904.	5.4	18
44	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.	4.8	17
45	Lattice Fluid Theory and Inverse Gas Chromatography in the Analysis of Polymer-Polymer Interactions. <i>Macromolecules</i> , 1995, 28, 7188-7195.	4.8	16
46	Miscibility and carbon dioxide transport properties of blends of bacterial poly(3-hydroxybutyrate) and a poly(vinylidene chloride-co-acrylonitrile) copolymer. <i>Polymer</i> , 2002, 43, 6205-6211.	3.8	15
47	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.	3.8	14
48	Transport properties of trogamid: Comparison of different experimental techniques. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2034-2042.	2.6	14
49	Silica nanoparticles obtained by microwave assisted sol-gel process: multivariate analysis of the size and conversion dependence. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 667-672.	2.4	14
50	Chromatographic studies of a poly(vinyl methyl ether)/phenoxy resin blend near the lower critical solution temperature. <i>Polymer</i> , 1989, 30, 1155-1159.	3.8	13
51	Determination of the interaction parameter $\chi_1^H$ by inverse gas chromatography: an additional experimental test of the classic lattice model. <i>Polymer</i> , 1989, 30, 1493-1497.	3.8	13
52	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.	2.6	13
53	Oxygen permeability through poly(ethylene-co-vinyl acetate)/clay nanocomposites prepared by microwave irradiation. <i>Journal of Membrane Science</i> , 2011, 373, 173-177.	8.2	13
54	Preparation of superhydrophobic silica nanoparticles by microwave assisted sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 8-13.	2.4	13

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55	Chromatographic determination of polymer solubility parameters. <i>Polymer Bulletin</i> , 1985, 13, 463-467.	3.3	12
56	Influence of the Blending Method and Poly(methyl methacrylate) Tacticity in Its Miscibility with Poly(hydroxy ether of bisphenol A, phenoxy). <i>Polymer Journal</i> , 1994, 26, 1037-1046.	2.7	12
57	Excess Specific Heats in Miscible Binary Blends with Specific Interactions. <i>Macromolecules</i> , 1999, 32, 2661-2668.	4.8	12
58	Pyrolysis analysis of different Cuban natural fibres by TGA and GC/FTIR. <i>Biomass and Bioenergy</i> , 2010, 34, 1573-1577.	5.7	12
59	Infrared spectroscopic studies of the urethane/ether inter-association. <i>Vibrational Spectroscopy</i> , 2001, 27, 183-191.	2.2	11
60	Blends of bacterial poly(3-hydroxybutyrate) and a poly(epichlorohydrin-co-ethylene oxide) copolymer: thermal and CO <sub>2</sub> transport properties. <i>Polymer</i> , 2003, 44, 7701-7708.	3.8	11
61	Miscibility behaviour of amorphous poly(3-hydroxybutyrate) (a-PHB)/styrene- <i>vinyl phenol</i> copolymer (STY-co-VPH) blends applying an association model. <i>Polymer</i> , 2004, 45, 1477-1483.	3.8	11
62	Solvent and acidification method effects in the performance of new sulfonated copolyimides membranes in PEM-fuel cells. <i>Journal of Power Sources</i> , 2005, 151, 63-68.	7.8	11
63	Gas chromatographic determination of the interaction parameter of poly(ethylene oxide)/poly(methyl Tj ETQq1 1 0.784314 rgBT /Over	3.1	9
64	On the application of an association model to blends containing poly(hydroxy ether of bisphenol A). <i>Macromolecules</i> , 1993, 26, 4586-4590.	4.8	9
65	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.	2.6	9
66	On the unperturbed dimensions of polyisoprene chains. <i>European Polymer Journal</i> , 1982, 18, 19-23.	5.4	8
67	Solution properties of polyarylate in good and theta-solvents. <i>European Polymer Journal</i> , 1985, 21, 711-715.	5.4	8
68	Thermodynamics of the mixture poly(ethylene oxide)/ toluene. <i>Polymer Bulletin</i> , 1981, 4, 25-32.	3.3	7
69	Polyarylate/polyamide 6 blends: A calorimetric study. <i>Polymer Bulletin</i> , 1990, 24, 641-647.	3.3	7
70	An extension of the Painter-Coleman miscibility guide to ternary polymer blends. <i>Polymer Engineering and Science</i> , 1994, 34, 1314-1318.	3.1	7
71	Evidence of interchange reaction in a poly(ethylene 2,6-naphthalenedicarboxylate)/poly(bisphenol-A) Tj ETQq1 1 0.784314 rgBT /Over	3.9	7
72	Gas chromatographic measurements of solute diffusion in blends of phenoxy and poly(1,4-butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	5.4	7

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73	The Unperturbed Dimension-Temperature Coefficient for trans-Polyisoprene. <i>Macromolecules</i> , 1980, 13, 190-191.	4.8	6
74	Glass transition temperatures of plasticized polyarylate. <i>Polymer Bulletin</i> , 1987, 18, 149.	3.3	6
75	Crystallization and melting behaviour of poly(butylene terephthalate) in poly(butylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6	3.3	6
76	Enthalpies of Mixing in Polymer Blends of Chlorinated Polymers: Application of a Group Contribution Method. <i>Macromolecules</i> , 1995, 28, 589-595.	4.8	6
77	Determination of the self-association and inter-association equilibrium constants of a carboxylic acid and its mixtures with pyridine derivates. <i>Vibrational Spectroscopy</i> , 2006, 41, 21-27.	2.2	6
78	Production of hydrophobic surfaces in biodegradable and biocompatible polymers using polymer solution electrospinning. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1520-1524.	2.6	6
79	Solvent influence on the viscosity-temperature relationship for dilute polybutadiene solutions. <i>European Polymer Journal</i> , 1980, 16, 165-167.	5.4	5
80	Glass transition temperatures in blends of polyarylate and a styrene/acrylonitrile copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1989, 27, 1951-1953.	2.1	5
81	Influence of the chemical modification of phenoxy resin on its miscibility with poly(2-vinyl pyridine). <i>Polymer International</i> , 1994, 33, 393-398.	3.1	5
82	Characterization of Acid-Base Properties of a Polyetherimide and Two Liquid Crystalline Polymers by Inverse Gas Chromatography. <i>International Journal of Polymer Analysis and Characterization</i> , 1995, 1, 349-363.	1.9	5
83	Miscibility and carbon dioxide transport properties of poly(3-hydroxybutyrate) (iPHB) and its blends with different copolymers of styrene and vinyl phenol. <i>Polymer</i> , 2004, 45, 4139-4147.	3.8	5
84	Interaction energies in polymer/polymer mixtures. <i>Polymer</i> , 1997, 38, 4085-4090.	3.8	4
85	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 2922-2928.	2.6	4
86	Solution crystallization and annealing of polyarylate. <i>European Polymer Journal</i> , 1991, 27, 965-968.	5.4	3
87	Free-volume evolution in the system polycarbonate $\epsilon$ polycaprolactone studied by positron annihilation spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2001, 287, 100-103.	3.1	3
88	Miscibility windows of poly(vinyl methyl ether) with modified phenoxy resin. <i>European Polymer Journal</i> , 2001, 37, 1943-1950.	5.4	3
89	Infrared spectroscopic studies of the self-association of aromatic urethanes. <i>Vibrational Spectroscopy</i> , 2005, 39, 144-150.	2.2	3
90	Hybrid Proton-Conducting Membranes as Fuel Cells Solid Polyelectrolytes. <i>Journal of Fuel Cell Science and Technology</i> , 2006, 3, 308-311.	0.8	2

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91	Chemical modifications of phenoxy resin. Synthesis and $^1\text{H}$ NMR study of model compounds. Magnetic Resonance in Chemistry, 1991, 29, 1005-1011.	1.9	1