## Juan J Iruin

## List of Publications by Year in descending order

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91	1,955	24 h-index	38
papers	citations		g-index
91	91	91	1613 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Manganese oxide catalysts for secondary zinc air batteries: from electrocatalytic activity to bifunctional air electrode performance. Electrochimica Acta, 2016, 217, 80-91.	2.6	88
2	Microphase separation and hydrophobicity of urethane/siloxane copolymers with low siloxane content. Progress in Organic Coatings, 2014, 77, 798-802.	1.9	20
3	Preparation of superhydrophobic silica nanoparticles by microwave assisted sol–gel process. Journal of Sol-Gel Science and Technology, 2012, 61, 8-13.	1.1	13
4	Oxygen permeability through poly(ethylene-co-vinyl acetate)/clay nanocomposites prepared by microwave irradiation. Journal of Membrane Science, 2011, 373, 173-177.	4.1	13
5	Production of hydrophobic surfaces in biodegradable and biocompatible polymers using polymer solution electrospinning. Journal of Applied Polymer Science, 2011, 120, 1520-1524.	1.3	6
6	Silica nanoparticles obtained by microwave assisted sol–gel process: multivariate analysis of the size and conversion dependence. Journal of Sol-Gel Science and Technology, 2010, 53, 667-672.	1.1	14
7	Electrospinning of waterborne polyurethanes. Journal of Applied Polymer Science, 2010, 115, 1176-1179.	1.3	41
8	Pyrolysis analysis of different Cuban natural fibres by TGA and GC/FTIR. Biomass and Bioenergy, 2010, 34, 1573-1577.	2.9	12
9	Migration of antifog additives in agricultural films of lowâ€density polyethylene and ethyleneâ€vinyl acetate copolymers. Journal of Applied Polymer Science, 2009, 111, 2299-2307.	1.3	23
	acctate copolymers, journal of Applica Folymer oriented, 2005, 111, 2255 2007		
10	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 2922-2928.	10 Tf 50 3 1.3	387 Td (phenol 4
10	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock		**
	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 2922-2928.	1.3	4
11	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 2922-2928.  Electrospinning of poly (2-ethyl-2-oxazoline). Journal of Materials Science, 2009, 44, 3186-3191.  Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct	1.7	26
11 12	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 2922-2928.  Electrospinning of poly (2-ethyl-2-oxazoline). Journal of Materials Science, 2009, 44, 3186-3191.  Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct methanol fuel cell applications. Polymer Bulletin, 2009, 62, 813-827.  Diffusivity of ethylene and propylene in atactic and isotactic polypropylene: Morphology effects and	1.3 1.7 1.7	26
11 12 13	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 2922-2928.  Electrospinning of poly (2-ethyl-2-oxazoline). Journal of Materials Science, 2009, 44, 3186-3191.  Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct methanol fuel cell applications. Polymer Bulletin, 2009, 62, 813-827.  Diffusivity of ethylene and propylene in atactic and isotactic polypropylene: Morphology effects and free-volume simulations. Journal of Applied Polymer Science, 2007, 104, 3871-3878.  Origins of Product Heterogeneity in the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process. Industrial & Company of the Spheripol High Impact Polypropylene Process.	1.3 1.7 1.7	26 23 13
11 12 13	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 2922-2928.  Electrospinning of poly (2-ethyl-2-oxazoline). Journal of Materials Science, 2009, 44, 3186-3191.  Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct methanol fuel cell applications. Polymer Bulletin, 2009, 62, 813-827.  Diffusivity of ethylene and propylene in atactic and isotactic polypropylene: Morphology effects and free-volume simulations. Journal of Applied Polymer Science, 2007, 104, 3871-3878.  Origins of Product Heterogeneity in the Spheripol High Impact Polypropylene Process. Industrial & Engineering Chemistry Research, 2006, 45, 4178-4187.	1.3 1.7 1.7 1.3	26 23 13
11 12 13 14	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 2922-2928.  Electrospinning of poly (2-ethyl-2-oxazoline). Journal of Materials Science, 2009, 44, 3186-3191.  Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct methanol fuel cell applications. Polymer Bulletin, 2009, 62, 813-827.  Diffusivity of ethylene and propylene in atactic and isotactic polypropylene: Morphology effects and free-volume simulations. Journal of Applied Polymer Science, 2007, 104, 3871-3878.  Origins of Product Heterogeneity in the Spheripol High Impact Polypropylene Process. Industrial & Lamp; Engineering Chemistry Research, 2006, 45, 4178-4187.  Hybrid Proton-Conducting Membranes as Fuel Cells Solid Polyelectrolytes. Journal of Fuel Cell Science and Technology, 2006, 3, 308-311.  The phase behaviour of poly(styrene-co-methacrylic acid)/poly(2,6-dimethyl-1,4-phenylene oxide) by	1.3 1.7 1.7 1.3 1.8 0.8	26 23 13 24

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19	Solvent and acidification method effects in the performance of new sulfonated copolyimides membranes in PEM-fuel cells. Journal of Power Sources, 2005, 151, 63-68.	4.0	11
20	Infrared spectroscopic studies of the self-association of aromatic urethanes. Vibrational Spectroscopy, 2005, 39, 144-150.	1.2	3
21	Morphology of High Impact Polypropylene Particlesâ€. Macromolecules, 2005, 38, 2795-2801.	2.2	72
22	Antiplasticization of a polyamide: a positron annihilation lifetime spectroscopy study. Polymer, 2004, 45, 2949-2957.	1.8	29
23	Miscibility behaviour of amorphous poly(3-hydroxybutyrate) (a-PHB)/styrene–vinyl phenol copolymer (STY-co-VPH) blends applying an association model. Polymer, 2004, 45, 1477-1483.	1.8	11
24	Miscibility and carbon dioxide transport properties of poly(3-hydroxybutyrate) (iPHB) and its blends with different copolymers of styrene and vinyl phenol. Polymer, 2004, 45, 4139-4147.	1.8	5
25	Determination of the diffusion coefficients of organic solvents in polyepichlorohydrin: A comparative study of inverse gas chromatography and sorption methods. Journal of Applied Polymer Science, 2003, 89, 2216-2223.	1.3	9
26	Blends of bacterial poly(3-hydroxybutyrate) and a poly(epichlorohydrin-co-ethylene oxide) copolymer: thermal and CO2 transport properties. Polymer, 2003, 44, 7701-7708.	1.8	11
27	Hydrogen-Bonding Interactions between Formic Acid and Pyridine. Journal of Physical Chemistry A, 2002, 106, 4187-4191.	1.1	41
28	Miscibility and carbon dioxide transport properties of blends of bacterial poly(3-hydroxybutyrate) and a poly(vinylidene chloride-co-acrylonitrile) copolymer. Polymer, 2002, 43, 6205-6211.	1.8	15
29	Polymer–solvent interaction parameters in polymer solutions at high polymer concentrations. Journal of Chromatography A, 2002, 969, 245-254.	1.8	29
30	Free-volume evolution in the system polycarbonate–polycaprolaptone studied by positron annihilation spectroscopy. Journal of Non-Crystalline Solids, 2001, 287, 100-103.	1.5	3
31	Blends of bacterial poly(3-hydroxybutyrate) with synthetic poly(3-hydroxybutyrate) and poly(epichlorohydrin): transport properties of carbon dioxide and water vapour. Polymer, 2001, 42, 953-962.	1.8	23
32	Infrared spectroscopic studies of the urethane/ether inter-association. Vibrational Spectroscopy, 2001, 27, 183-191.	1.2	11
33	Miscibility windows of poly(vinyl methyl ether) with modified phenoxy resin. European Polymer Journal, 2001, 37, 1943-1950.	2.6	3
34	Infrared spectroscopic studies of the self-association of ethyl urethane. Vibrational Spectroscopy, 2000, 23, 187-197.	1.2	20
35	Comparison between Static (Sorption) and Dynamic (IGC) Methods in the Determination of Interaction Parameters in Polymer/Polymer Blends. Macromolecules, 2000, 33, 9115-9121.	2.2	17
36	Evaluation of the transport properties of Poly(3â€hydroxybutyrate) and its 3â€hydroxyvalerate copolymers for packaging applications. Macromolecular Symposia, 1999, 144, 427-438.	0.4	27

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37	Excess Specific Heats in Miscible Binary Blends with Specific Interactions. Macromolecules, 1999, 32, 2661-2668.	2.2	12
38	Carbon dioxide transport properties of composite membranes of a polyetherimide and a liquid crystal polymer. European Polymer Journal, 1998, 34, 1405-1413.	2.6	19
39	Miscibility and interactions in a mixture of poly(ethylene oxide) and an aromatic poly(ether amide). Polymer, 1998, 39, 1035-1042.	1.8	19
40	Blends of amorphous and crystalline polylactides with poly(methyl methacrylate) and poly(methyl) Tj ETQq0 0 0	rgBT/Ove	rlock 10 Tf 50 141
41	Interaction energies in polymer/polymer mixtures. Polymer, 1997, 38, 4085-4090.	1.8	4
42	Association Equilibria and Miscibility Prediction in Blends of Poly(vinylphenol) with Poly(hydroxybutyrate) and Related Homo- and Copolymers:Â An FTIR Study. Macromolecules, 1996, 29, 5605-5610.	2.2	89
43	Evidence of interchange reaction in a poly(ethylene 2,6-naphthalenedicarboxylate)/poly(bisphenol-A) Tj ETQq $1\ 1$	0.784314 2.0	rgBT /Overloo
44	Gas chromatographic measurements of solute diffusion in blends of phenoxy and poly(1,4-butylene) Tj ETQq0 0	0 rgBT /0	verlock 10 Tf 5
45	Thermal and infra-red spectroscopic investigations of a miscible blend composed of poly(vinyl phenol) and poly(hydroxybutyrate). Polymer, 1995, 36, 3235-3237.	1.8	82
46	Molten polyarylateâ€"poly(butylene terephthalate) blends: kinetics and statistical analysis of the exchange reactions by 1H n.m.r Polymer, 1995, 36, 1357-1361.	1.8	25
47	Characterization of Acid-Base Properties of a Polyetherimide and Two Liquid Crystalline Polymers by Inverse Gas Chromatography. International Journal of Polymer Analysis and Characterization, 1995, 1, 349-363.	0.9	5
48	Enthalpies of Mixing in Polymer Blends of Chlorinated Polymers: Application of a Group Contribution Method. Macromolecules, 1995, 28, 589-595.	2.2	6
49	Hydrogen Bonding in Blends of Phenoxy Resin and Poly(vinylpyrrolidone). Macromolecules, 1995, 28, 3707-3712.	2.2	49
50	Lattice Fluid Theory and Inverse Gas Chromatography in the Analysis of Polymer-Polymer Interactions. Macromolecules, 1995, 28, 7188-7195.	2.2	16
51	Estimation of interaction parameters of a poly(hydroxy ether of bisphenol A)/poly(vinyl methyl ether) blend by inverse gas chromatography. Polymer, 1994, 35, 2128-2132.	1.8	14
52	An extension of the Painter-Coleman miscibility guide to ternary polymer blends. Polymer Engineering and Science, 1994, 34, 1314-1318.	1.5	7
53	Influence of the chemical modification of phenoxy resin on its miscibility with poly(2-vinyl pyridine). Polymer International, 1994, 33, 393-398.	1.6	5
54	Interchange reactions in poly(ethylene terephthalate)/poly(hydroxy ether of bisphenol A) blends: Effect on thermal behaviour. European Polymer Journal, 1994, 30, 901-904.	2.6	18

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55	On the application of an association model to blends of phenoxy and ether-containing polymers. Polymer, 1994, 35, 3712-3718.	1.8	22
56	Probing Polymer-Polymer Interaction Parameters in Miscible Blends by Inverse Gas Chromatography: Solvent Effects. Macromolecules, 1994, 27, 1245-1248.	2.2	22
57	A Study of Mixtures of Poly(hydroxy ether of bisphenol A) and Poly(.epsiloncaprolactone) by Inverse Gas Chromatography. Macromolecules, 1994, 27, 1395-1400.	2.2	19
58	Influence of the Blending Method and Poly(methyl methacrylate) Tacticity in Its Miscibility with Poly(hydroxy ether of bisphenol A, phenoxy). Polymer Journal, 1994, 26, 1037-1046.	1.3	12
59	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blendsâ€"I. Thermal properties and solid state 13C-NMR study. European Polymer Journal, 1993, 29, 1477-1481.	2.6	24
60	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blendsâ€"II. An inverse gas chromatography study. European Polymer Journal, 1993, 29, 1483-1487.	2.6	21
61	Phenoxy blends: an approach to the miscibility by FTi.r. and chemical modification of the interacting sites. Polymer, 1993, 34, 38-42.	1.8	29
62	On the application of an association model to blends containing poly(hydroxy ether of bisphenol A). Macromolecules, 1993, 26, 4586-4590.	2.2	9
63	Crystallization and melting behaviour of poly(butylene terephthalate) in poly(butylene) Tj ETQq1 1 0.784314 rgBT	Overlock	10 Tf 50 4
64	Inverse gas chromatography in the characterization of polymeric materials. Journal of Chromatography A, 1992, 607, 227-237.	1.8	36
65	Miscible blends of poly(ethylene oxide) and the poly(hydroxy ether) of bisphenol A (phenoxy). Macromolecules, 1991, 24, 5546-5551.	2.2	35
66	An attempt to predict phenoxy resin miscibility using a group contribution method. Macromolecules, 1991, 24, 6458-6463.	2.2	18
67	Solution crystallization and annealing of polyarylate. European Polymer Journal, 1991, 27, 965-968.	2.6	3
68	Poly(ethylene terephthalate)/polyarylate blends: Influence of interchange reactions on the melting behavior of poly(ethylene terephthalate). Journal of Applied Polymer Science, 1991, 42, 489-493.	1.3	34
69	Chemical modifications of phenoxy resin. Synthesis and 1H NMR study of model compounds. Magnetic Resonance in Chemistry, 1991, 29, 1005-1011.	1.1	1
70	Polyarylate/polyamide 6 blends: A calorimetric study. Polymer Bulletin, 1990, 24, 641-647.	1.7	7
71	Chromatographic studies of a poly(vinyl methyl ether)/phenoxy resin blend near the lower critical solution temperature. Polymer, 1989, 30, 1155-1159.	1.8	13
72	Ternary blends containing polyarylate, polycarbonate and poly(butylene terephthalate). European Polymer Journal, 1989, 25, 1169-1172.	2.6	18

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73	Phenoxy resin: Characterization, solution properties, and inverse gas chromatography investigation of its potential miscibility with other polymers. Journal of Applied Polymer Science, 1989, 37, 3459-3470.	1.3	28
74	Crystallization and melting behaviour of poly(bisphenol A hydroxy ether)/poly(ethylene oxide) blends. Polymer, 1989, 30, 1160-1165.	1.8	34
75	Determination of the interaction parameter g by inverse gas chromatography: an additional experimental test of the classic lattice model. Polymer, 1989, 30, 1493-1497.	1.8	13
76	Glass transition temperatures in blends of polyarylate and a styrene/acrylonitrile copolymer. Journal of Polymer Science, Part B: Polymer Physics, 1989, 27, 1951-1953.	2.4	5
77	Miscibility and phase separation in poly(vinyl methyl ether)/poly(bisphenol A hydroxy ether) blends. Macromolecules, 1987, 20, 3038-3042.	2.2	39
78	Glass transition temperatures of plasticized polyarylate. Polymer Bulletin, 1987, 18, 149.	1.7	6
79	Miscibility and thermal decomposition in phenoxy/poly(ethylene terephthalate) and phenoxy/poly(butylene terephthalate) blends. Materials Chemistry and Physics, 1987, 18, 147-154.	2.0	27
80	Ternary polymer mixtures: Polyarylate/phenoxy/poly(butylene terephthalate). Journal of Applied Polymer Science, 1986, 32, 5945-5955.	1,3	45
81	Ester exchange reactions in polyarylate/poly(ethylene terephthalate) blends. Polymer, 1986, 27, 2013-2018.	1.8	47
82	Chromatographic determination of polymer solubility parameters. Polymer Bulletin, 1985, 13, 463-467.	1.7	12
83	Solution properties of polyarylate in good and theta-solvents. European Polymer Journal, 1985, 21, 711-715.	2.6	8
84	Title is missing!. Die Makromolekulare Chemie, 1984, 185, 1761-1766.	1.1	46
85	Gas chromatographic determination of the interaction parameter of poly(ethylene oxide)/poly(methyl) Tj ETQq1 1	0.78431 1.5	4 ggBT /Ovei
86	Binary blends containing a commercial polyarylate. Polymer Engineering and Science, 1984, 24, 608-611.	1,5	34
87	Determination of the interaction parameter χ of poly(ethylene oxide) by gas-liquid chromatography below the melting temperature. Polymer, 1983, 24, 417-422.	1.8	19
88	On the unperturbed dimensions of polyisoprene chains. European Polymer Journal, 1982, 18, 19-23.	2.6	8
89	Thermodynamics of the mixture poly(ethylene oxide)/ toluene. Polymer Bulletin, 1981, 4, 25-32.	1.7	7
90	Solvent influence on the viscosity-temperature relationship for dilute polybutadiene solutions. European Polymer Journal, 1980, 16, 165-167.	2.6	5

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91	The Unperturbed Dimension-Temperature Coefficient for trans-Polyisoprene. Macromolecules, 1980, 13, 190-191.	2.2	6