

# Juan J Iruin

## List of Publications by Year in descending order

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91  
papers

1,955  
citations

257101

24  
h-index

315357

38  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manganese oxide catalysts for secondary zinc air batteries: from electrocatalytic activity to bifunctional air electrode performance. <i>Electrochimica Acta</i> , 2016, 217, 80-91.	2.6	88
2	Microphase separation and hydrophobicity of urethane/siloxane copolymers with low siloxane content. <i>Progress in Organic Coatings</i> , 2014, 77, 798-802.	1.9	20
3	Preparation of superhydrophobic silica nanoparticles by microwave assisted sol-gel process. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 61, 8-13.	1.1	13
4	Oxygen permeability through poly(ethylene-co-vinyl acetate)/clay nanocomposites prepared by microwave irradiation. <i>Journal of Membrane Science</i> , 2011, 373, 173-177.	4.1	13
5	Production of hydrophobic surfaces in biodegradable and biocompatible polymers using polymer solution electrospinning. <i>Journal of Applied Polymer Science</i> , 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. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 53, 667-672.	1.1	14
7	Electrospinning of waterborne polyurethanes. <i>Journal of Applied Polymer Science</i> , 2010, 115, 1176-1179.	1.3	41
8	Pyrolysis analysis of different Cuban natural fibres by TGA and GC/FTIR. <i>Biomass and Bioenergy</i> , 2010, 34, 1573-1577.	2.9	12
9	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.	1.3	23
10	Role of specific interactions on fiber formation in the electrospinning of poly(vinyl Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (phenol 2922-2928.	1.3	4
11	Electrospinning of poly (2-ethyl-2-oxazoline). <i>Journal of Materials Science</i> , 2009, 44, 3186-3191.	1.7	26
12	Proton-conducting membranes from phosphotungstic acid-doped sulfonated polyimide for direct methanol fuel cell applications. <i>Polymer Bulletin</i> , 2009, 62, 813-827.	1.7	23
13	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.	1.3	13
14	Origins of Product Heterogeneity in the Spheripol High Impact Polypropylene Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 4178-4187.	1.8	24
15	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
16	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.	1.8	21
17	Determination of the self-association and inter-association equilibrium constants of a carboxylic acid and its mixtures with pyridine derivatives. <i>Vibrational Spectroscopy</i> , 2006, 41, 21-27.	1.2	6
18	Transport properties of trogamid: Comparison of different experimental techniques. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2034-2042.	1.3	14

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19	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.	4.0	11
20	Infrared spectroscopic studies of the self-association of aromatic urethanes. <i>Vibrational Spectroscopy</i> , 2005, 39, 144-150.	1.2	3
21	Morphology of High Impact Polypropylene Particles. <i>Macromolecules</i> , 2005, 38, 2795-2801.	2.2	72
22	Antiplasticization of a polyamide: a positron annihilation lifetime spectroscopy study. <i>Polymer</i> , 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. <i>Polymer</i> , 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. <i>Polymer</i> , 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. <i>Journal of Applied Polymer Science</i> , 2003, 89, 2216-2223.	1.3	9
26	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.	1.8	11
27	Hydrogen-Bonding Interactions between Formic Acid and Pyridine. <i>Journal of Physical Chemistry A</i> , 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. <i>Polymer</i> , 2002, 43, 6205-6211.	1.8	15
29	Polymer-solvent interaction parameters in polymer solutions at high polymer concentrations. <i>Journal of Chromatography A</i> , 2002, 969, 245-254.	1.8	29
30	Free-volume evolution in the system polycarbonate-polycaprolactone studied by positron annihilation spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 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. <i>Polymer</i> , 2001, 42, 953-962.	1.8	23
32	Infrared spectroscopic studies of the urethane/ether inter-association. <i>Vibrational Spectroscopy</i> , 2001, 27, 183-191.	1.2	11
33	Miscibility windows of poly(vinyl methyl ether) with modified phenoxy resin. <i>European Polymer Journal</i> , 2001, 37, 1943-1950.	2.6	3
34	Infrared spectroscopic studies of the self-association of ethyl urethane. <i>Vibrational Spectroscopy</i> , 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. <i>Macromolecules</i> , 2000, 33, 9115-9121.	2.2	17
36	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.	0.4	27

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37	Excess Specific Heats in Miscible Binary Blends with Specific Interactions. <i>Macromolecules</i> , 1999, 32, 2661-2668.	2.2	12
38	Carbon dioxide transport properties of composite membranes of a polyetherimide and a liquid crystal polymer. <i>European Polymer Journal</i> , 1998, 34, 1405-1413.	2.6	19
39	Miscibility and interactions in a mixture of poly(ethylene oxide) and an aromatic poly(ether amide). <i>Polymer</i> , 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 /Overlock 10 Tf 50	1.8	141
41	Interaction energies in polymer/polymer mixtures. <i>Polymer</i> , 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: A FTIR Study. <i>Macromolecules</i> , 1996, 29, 5605-5610.	2.2	89
43	Evidence of interchange reaction in a poly(ethylene 2,6-naphthalenedicarboxylate)/poly(bisphenol-A) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.0	7
44	Gas chromatographic measurements of solute diffusion in blends of phenoxy and poly(1,4-butylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.6	7
45	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.	1.8	82
46	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.	1.8	25
47	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.	0.9	5
48	Enthalpies of Mixing in Polymer Blends of Chlorinated Polymers: Application of a Group Contribution Method. <i>Macromolecules</i> , 1995, 28, 589-595.	2.2	6
49	Hydrogen Bonding in Blends of Phenoxy Resin and Poly(vinylpyrrolidone). <i>Macromolecules</i> , 1995, 28, 3707-3712.	2.2	49
50	Lattice Fluid Theory and Inverse Gas Chromatography in the Analysis of Polymer-Polymer Interactions. <i>Macromolecules</i> , 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. <i>Polymer</i> , 1994, 35, 2128-2132.	1.8	14
52	An extension of the Painter-Coleman miscibility guide to ternary polymer blends. <i>Polymer Engineering and Science</i> , 1994, 34, 1314-1318.	1.5	7
53	Influence of the chemical modification of phenoxy resin on its miscibility with poly(2-vinyl pyridine). <i>Polymer International</i> , 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. <i>European Polymer Journal</i> , 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. <i>Polymer</i> , 1994, 35, 3712-3718.	1.8	22
56	Probing Polymer-Polymer Interaction Parameters in Miscible Blends by Inverse Gas Chromatography: Solvent Effects. <i>Macromolecules</i> , 1994, 27, 1245-1248.	2.2	22
57	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.	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). <i>Polymer Journal</i> , 1994, 26, 1037-1046.	1.3	12
59	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.	2.6	24
60	Miscibility of poly(vinyl chloride)/poly(ethylene oxide) blends II. An inverse gas chromatography study. <i>European Polymer Journal</i> , 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. <i>Polymer</i> , 1993, 34, 38-42.	1.8	29
62	On the application of an association model to blends containing poly(hydroxy ether of bisphenol A). <i>Macromolecules</i> , 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	1.7	6
64	Inverse gas chromatography in the characterization of polymeric materials. <i>Journal of Chromatography A</i> , 1992, 607, 227-237.	1.8	36
65	Miscible blends of poly(ethylene oxide) and the poly(hydroxy ether) of bisphenol A (phenoxy). <i>Macromolecules</i> , 1991, 24, 5546-5551.	2.2	35
66	An attempt to predict phenoxy resin miscibility using a group contribution method. <i>Macromolecules</i> , 1991, 24, 6458-6463.	2.2	18
67	Solution crystallization and annealing of polyarylate. <i>European Polymer Journal</i> , 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). <i>Journal of Applied Polymer Science</i> , 1991, 42, 489-493.	1.3	34
69	Chemical modifications of phenoxy resin. Synthesis and <sup>1</sup> H NMR study of model compounds. <i>Magnetic Resonance in Chemistry</i> , 1991, 29, 1005-1011.	1.1	1
70	Polyarylate/polyamide 6 blends: A calorimetric study. <i>Polymer Bulletin</i> , 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. <i>Polymer</i> , 1989, 30, 1155-1159.	1.8	13
72	Ternary blends containing polyarylate, polycarbonate and poly(butylene terephthalate). <i>European Polymer Journal</i> , 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. <i>Journal of Applied Polymer Science</i> , 1989, 37, 3459-3470.	1.3	28
74	Crystallization and melting behaviour of poly(bisphenol A hydroxy ether)/poly(ethylene oxide) blends. <i>Polymer</i> , 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. <i>Polymer</i> , 1989, 30, 1493-1497.	1.8	13
76	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.	2.4	5
77	Miscibility and phase separation in poly(vinyl methyl ether)/poly(bisphenol A hydroxy ether) blends. <i>Macromolecules</i> , 1987, 20, 3038-3042.	2.2	39
78	Glass transition temperatures of plasticized polyarylate. <i>Polymer Bulletin</i> , 1987, 18, 149.	1.7	6
79	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.	2.0	27
80	Ternary polymer mixtures: Polyarylate/phenoxy/poly(butylene terephthalate). <i>Journal of Applied Polymer Science</i> , 1986, 32, 5945-5955.	1.3	45
81	Ester exchange reactions in polyarylate/poly(ethylene terephthalate) blends. <i>Polymer</i> , 1986, 27, 2013-2018.	1.8	47
82	Chromatographic determination of polymer solubility parameters. <i>Polymer Bulletin</i> , 1985, 13, 463-467.	1.7	12
83	Solution properties of polyarylate in good and theta-solvents. <i>European Polymer Journal</i> , 1985, 21, 711-715.	2.6	8
84	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1984, 185, 1761-1766.	1.1	46
85	Gas chromatographic determination of the interaction parameter of poly(ethylene oxide)/poly(methyl Tj ETQq1 1 0.784314 ggBT /Ov	1.5	15
86	Binary blends containing a commercial polyarylate. <i>Polymer Engineering and Science</i> , 1984, 24, 608-611.	1.5	34
87	Determination of the interaction parameter $\chi_1^*$ of poly(ethylene oxide) by gas-liquid chromatography below the melting temperature. <i>Polymer</i> , 1983, 24, 417-422.	1.8	19
88	On the unperturbed dimensions of polyisoprene chains. <i>European Polymer Journal</i> , 1982, 18, 19-23.	2.6	8
89	Thermodynamics of the mixture poly(ethylene oxide)/ toluene. <i>Polymer Bulletin</i> , 1981, 4, 25-32.	1.7	7
90	Solvent influence on the viscosity-temperature relationship for dilute polybutadiene solutions. <i>European Polymer Journal</i> , 1980, 16, 165-167.	2.6	5

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