Pedro Lozano

List of Publications by Year
in descending order

115 papers	5,158 citations	76326 40 h-index	95266 68 g-index
131 all docs	131 docs citations	131 times ranked	3534 citing authors

#	Article	IF	Citations
1	Understanding Structureâ˘'Stability Relationships ofCandidaantarticaLipase B in Ionic Liquids. Biomacromolecules, 2005, 6, 1457-1464.	5.4	301
2	Stabilization of ?-chymotrypsin by ionic liquids in transesterification reactions. Biotechnology and Bioengineering, 2001, 75, 563-569.	3.3	233
3	Over-stabilization of Candida antarctica lipase B by ionic liquids in ester synthesis. Biotechnology Letters, 2001, 23, 1529-1533.	2.2	223
4	Continuous green biocatalytic processes using ionic liquids and supercritical carbon dioxide. Chemical Communications, 2002, , 692-693.	4.1	212
5	Fluorescence and CD spectroscopic analysis of the ?-chymotrypsin stabilization by the ionic liquid, 1-ethyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]amide. Biotechnology and Bioengineering, 2004, 88, 916-924.	3.3	190
6	Enzymes in neoteric solvents: From one-phase to multiphase systems. Green Chemistry, 2010, 12, 555.	9.0	172
7	Lipase Catalysis in Ionic Liquids and Supercritical Carbon Dioxide at 150 Â°C. Biotechnology Progress, 2003, 19, 380-382.	2.6	136
8	Criteria to Design Green Enzymatic Processes in Ionic Liquid/Supercritical Carbon Dioxide Systems. Biotechnology Progress, 2004, 20, 661-669.	2.6	134
9	Bioreactors Based on Monolith-Supported Ionic Liquid Phase for Enzyme Catalysis in Supercritical Carbon Dioxide. Advanced Synthesis and Catalysis, 2007, 349, 1077-1084.	4.3	128
10	A quantitative high-performance liquid chromatographic method to analyse commercial saffron (Crocus sativus L.) products.. Journal of Chromatography A, 1999, 830, 477-483.	3.7	120
11	Enzymatic ester synthesis in ionic liquids. Journal of Molecular Catalysis B: Enzymatic, 2003, 21, 9-13.	1.8	114
12	A non-destructive method to determine the safranal content of saffron (Crocus sativus L.) by supercritical carbon dioxide extraction combined with high-performance liquid chromatography and gas chromatography. Journal of Proteomics, 2000, 43, 367-378.	2.4	105
13	On the nature of ionic liquids and their effects on lipases that catalyze ester synthesis. Journal of Biotechnology, 2009, 140, 234-241.	3.8	104
14	Ionic liquids and continuous flow processes: a good marriage to design sustainable processes. Green Chemistry, 2015, 17, 2693-2713.	9.0	98
15	Effect of polyols on Î±-chymotrypsin thermostability: a mechanistic analysis of the enzyme stabilization. Journal of Biotechnology, 1994, 35, 9-18.	3.8	88
16	Towards continuous sustainable processes for enzymatic synthesis of biodiesel in hydrophobic ionic liquids/supercritical carbon dioxide biphasic systems. Fuel, 2011, 90, 3461-3467.	6.4	87
17	Membrane reactor with immobilized Candida antarctica lipase B for ester synthesis in supercritical carbon dioxide. Journal of Supercritical Fluids, 2004, 29, 121-128.	3.2	85
18	An efficient activity ionic liquid-enzyme system for biodiesel production. Green Chemistry, 2011, 13, 444.	9.0	78

#	ARTICLE	IF	CITATIONS
19	A clean enzymatic process for producing flavour esters by direct esterification in switchable ionic liquid/solid phases. Green Chemistry, 2012, 14, 3026.	9.0	75
20	Ionic liquids improve citronellyl ester synthesis catalyzed by immobilized Candida antarctica lipase B in solvent-free media. Green Chemistry, 2007, 9, 780.	9.0	73
21	On the importance of the supporting material for activity of immobilized Candida antarctica lipase B in ionic liquid/hexane and ionic liquid/supercritical carbon dioxide biphasic media. Journal of Supercritical Fluids, 2007, 40, 93-100.	3.2	72
22	Dynamic structureâ€“function relationships in enzyme stabilization by ionic liquids. Biocatalysis and Biotransformation, 2005, 23, 169-176.	2.0	70
23	Active membranes coated with immobilized Candida antarctica lipase B: preparation and application for continuous butyl butyrate synthesis in organic media. Journal of Membrane Science, 2002, 201, 55-64.	8.2	69
24	How to produce biodiesel easily using a green biocatalytic approach in sponge-like ionic liquids. Energy and Environmental Science, 2013, 6, 1328.	30.8	69
25	Chemoenzymatic dynamic kinetic resolution of rac-1-phenylethanol in ionic liquids and ionic liquids/supercritical carbon dioxide systems. Biotechnology Letters, 2006, 28, 1559-1565.	2.2	68
26	A recyclable enzymatic biodiesel production process in ionic liquids. Bioresource Technology, 2011, 102, 6336-6339.	9.6	68
27	Sponge-like ionic liquids: a new platform for green biocatalytic chemical processes. Green Chemistry, 2015, 17, 3706-3717.	9.0	67
28	Immobilised Lipase on Structured Supports Containing Covalently Attached Ionic Liquids for the Continuous Synthesis of Biodiesel in scCO₂. ChemSusChem, 2012, 5, 790-798.	6.8	64
29	Supercritical Synthesis of Biodiesel. Molecules, 2012, 17, 8696-8719.	3.8	63
30	Synthesis of glycidyl esters catalyzed by lipases in ionic liquids and supercritical carbon dioxide. Journal of Molecular Catalysis A, 2004, 214, 113-119.	4.8	61
31	Supported Ionic Liquid-Like Phases (SILLPs) for enzymatic processes: Continuous KR and DKR in SILLPâ€“scCO2 systems. Green Chemistry, 2010, 12, 1803.	9.0	60
32	Stabilizing immobilized cellulase by ionic liquids for saccharification of cellulose solutions in 1-butyl-3-methylimidazolium chloride. Green Chemistry, 2011, 13, 1406.	9.0	60
33	Long term continuous chemoenzymatic dynamic kinetic resolution of rac-1-phenylethanol using ionic liquids and supercritical carbon dioxide. Green Chemistry, 2009, 11, 538.	9.0	59
34	Dynamic Structure/Function Relationships in the alpha-Chymotrypsin Deactivation Process by Heat and pH. FEBS Journal, 1997, 248, 80-85.	0.2	55
35	Ionic liquids as an enabling tool to integrate reaction and separation processes. Green Chemistry, 2019, 21, 6527-6544.	9.0	55
36	Kinetic resolution of rac-2-pentanol catalyzed by Candida antarctica lipase B in the ionic liquid, 1-butyl-3-methylimidazolium bis[(trifluoromethyl)sulfonyl]amide. Biotechnology Letters, 2004, 26, 301-306.	2.2	54

#	Article	IF	Citations
37	Oneâ€Phase Ionic Liquid Reaction Medium for Biocatalytic Production of Biodiesel. ChemSusChem, 2010, 3, 1359-1363.	6.8	53
38	Pectic enzymes in fresh fruit processing: optimization of enzymic peeling of oranges. Process Biochemistry, 1997, 32, 43-49.	3.7	51
39	A cyclic process for full enzymatic saccharification of pretreated cellulose with full recovery and reuse of the ionic liquid 1-butyl-3-methylimidazolium chloride. Green Chemistry, 2012, 14, 2631.	9.0	49
40	New water soluble Pd-imidate complexes as highly efficient catalysts for the synthesis of C5-arylated pyrimidine nucleosides. RSC Advances, 2014, 4, 17567-17572.	3.6	44
41	A new way to conduct enzymatic synthesis in an active membrane using ionic liquids as catalyst support. Catalysis Today, 2005, 104, 313-317.	4.4	38
42	Enzymatic membrane reactor for full saccharification of ionic liquid-pretreated microcrystalline cellulose. Bioresource Technology, 2014, 151, 159-165.	9.6	38
43	Stability of immobilized ?-chymotrypsin in supercritical carbon dioxide. Biotechnology Letters, 1996, 18, 1345-1350.	2.2	37
44	N-Heterocyclic-Carbene Complexes Readily Prepared from Di-Î¼-hydroxopalladacycles Catalyze the Suzuki Arylation of 9-Bromophenanthrene. Organometallics, 2015, 34, 522-533.	2.3	37
45	Active biopolymers in green non-conventional media: a sustainable tool for developing clean chemical processes. Chemical Communications, 2015, 51, 17361-17374.	4.1	37
46	Highly selective biocatalytic synthesis of monoacylglycerides in sponge-like ionic liquids. Green Chemistry, 2017, 19, 390-396.	9.0	37
47	Efficient and selective enzymatic synthesis of N-acetyl-lactosamine in ionic liquid: a rational explanation. RSC Advances, 2012, 2, 6306.	3.6	34
48	Green biocatalytic synthesis of biodiesel from microalgae in one-pot systems based on sponge-like ionic liquids. Catalysis Today, 2020, 346, 87-92.	4.4	34
49	Preparation of hybrid membranes for enzymatic reaction. Separation and Purification Technology, 2001, 25, 229-233.	7.9	33
50	A cross-flow reactor with immobilized pectolytic enzymes for juice clarification. Biotechnology Letters, 1987, 9, 875-880.	2.2	31
51	Tuning lipase B from Candida antarctica Câ€“C bond promiscuous activity by immobilization on poly-styrene-divinylbenzene beads. RSC Advances, 2014, 4, 6219.	3.6	31
52	Clean Enzymatic Preparation of Oxygenated Biofuels from Vegetable and Waste Cooking Oils by Using Spongelike Ionic Liquids Technology. ACS Sustainable Chemistry and Engineering, 2016, 4, 6125-6132.	6.7	30
53	Gold nanoparticles immobilized onto supported ionic liquid-like phases for microwave phenylethanol oxidation in water. Catalysis Today, 2015, 255, 97-101.	4.4	28
54	(Bio)Catalytic Continuous Flow Processes in scCO2 and/or ILs: Towards Sustainable (Bio)Catalytic Synthetic Platforms. Current Organic Synthesis, 2011, 8, 810-823.	1.3	28

#	Article	IF	Citations
55	Kinetic and operational study of a cross-flow reactor with immobilized pectolytic enzymes. Enzyme and Microbial Technology, 1990, 12, 499-505.	3.2	27
56	Microwave-Assisted Selective Oxidation of 1-Phenyl Ethanol in Water Catalyzed by Metal Nanoparticles Immobilized onto Supported Ionic Liquidlike Phases. ACS Catalysis, 2015, 5, 4743-4750.	11.2	27
57	Effect of water-miscible aprotic solvents on kyotorphin synthesis catalyzed by immobilized ?-chymotrypsin. Biotechnology Letters, 1995, 17, 603-608.	2.2	26
58	Green bioprocesses in sponge-like ionic liquids. Catalysis Today, 2015, 255, 54-59.	4.4	26
59	An efficient microwave-assisted enzymatic resolution of alcohols using a lipase immobilised on supported ionic liquid-like phases (SILLPs). RSC Advances, 2013, 3, 13123.	3.6	24
60	Pdâ€“imidate complexes as recyclable catalysts for the synthesis of C5-alkenylated pyrimidine nucleosides via Heck cross-coupling reaction. RSC Advances, 2015, 5, 24558-24563.	3.6	24
61	Biocatalytic synthesis of panthenyl monoacyl esters in ionic liquids and deep eutectic solvents. Green Chemistry, 2019, 21, 3353-3361.	9.0	24
62	Influence of Water-Miscible Aprotic Solvents on Î±-Chymotrypsin Stability. Biotechnology Progress, 1996, 12, 488-493.	2.6	23
63	Achieving Chemo-, Regio-, and Stereoselectivity in Palladium-Catalyzed Reaction of Î³-Borylated Allylic Acetates. Organic Letters, 2011, 13, 4132-4135.	4.6	23
64	Multifunctional Polymers Based on Ionic Liquid and Rose Bengal Fragments for the Conversion of CO₂ to Carbonates. ACS Sustainable Chemistry and Engineering, 2021, 9, 2309-2318.	6.7	23
65	Clean Enzymatic Production of Flavor Esters in Spongelike Ionic Liquids. ACS Sustainable Chemistry and Engineering, 2019, 7, 13307-13314.	6.7	22
66	Flow Biocatalytic Processes in Ionic Liquids and Supercritical Fluids. Mini-Reviews in Organic Chemistry, 2017, 14, 65-74.	1.3	20
67	[Pd(Phbz)(X)(PPh3)] palladacycles promote the base-free homocoupling of arylboronic acids in air at room temperature. RSC Advances, 2014, 4, 55305-55312.	3.6	18
68	Influence of polyhydroxylic cosolvents on papain thermostability. Enzyme and Microbial Technology, 1993, 15, 868-873.	3.2	17
69	Designing enzymatic kyotorphin synthesis in organic media with low water content. Enzyme and Microbial Technology, 2000, 26, 608-613.	3.2	17
70	Dimethyl carbonate as a non-innocent benign solvent for the multistep continuous flow synthesis of amino alcohols. Reaction Chemistry and Engineering, 2018, 3, 572-578.	3.7	17
71	?-Chymotrypsin in Plastein Synthesis Influence of Water Activity. Annals of the New York Academy of Sciences, 1992, 672, 409-414.	3.8	17
72	Glycosylated Î±-chymotrypsin as a catalyst for kyotorphin synthesis in water-organic media. Biotechnology Letters, 1999, 21, 595-599.	2.2	15

#	Article	IF	Citations
73	Title is missing!. Biotechnology Letters, 2000, 22, 771-775.	2.2	15
74	Ester synthesis from trimethylammonium alcohols in dry organic media catalyzed by immobilizedCandida antarctica lipase B. Biotechnology and Bioengineering, 2003, 82, 352-358.	3.3	15
75	Polyhydric alcohol protective effect on Rhizomucor miehei lipase deactivation enhanced by pressure and temperature treatment. Bioprocess and Biosystems Engineering, 2005, 27, 375-380.	3.4	15
76	Ultrasound-assisted enzymatic synthesis of xylitol fatty acid esters in solvent-free conditions. Ultrasonics Sonochemistry, 2021, 75, 105606.	8.2	15
77	Characteristics of the immobilized pectin lyase activity from a commercial pectolytic enzyme preparation. Acta Biotechnologica, 1990, 10, 531-539.	0.9	14
78	Kinetic analysis of deactivation of immobilized ?-chymotrypsin by water-miscible organic solvent in kyotorphin synthesis. Biotechnology and Bioengineering, 1999, 65, 170-175.	3.3	14
79	Chemo-enzymatic production of omega-3 monoacylglycerides using sponge-like ionic liquids and supercritical carbon dioxide. Green Chemistry, 2020, 22, 5701-5710.	9.0	14
80	Sustainable chemo-enzymatic synthesis of glycerol carbonate (meth)acrylate from glycidol and carbon dioxide enabled by ionic liquid technologies. Green Chemistry, 2021, 23, 4191-4200.	9.0	12
81	A practical experiment on enzyme immobilization and characterization of the immobilized derivatives. Biochemical Education, 1995, 23, 213-216.	0.1	11
82	A Continuous Reactor for the (Chemo)enzymatic Dynamic Kinetic Resolution of Rac-1-Phenylethanol in Ionic Liquid/Supercritical Carbon Dioxide Biphasic Systems. International Journal of Chemical Reactor Engineering, 2007, 5, .	1.1	11
83	Supramolecular Interactions Based on Ionic Liquids for Tuning of the Catalytic Efficiency of (<scp>l</scp>)-Proline. ACS Sustainable Chemistry and Engineering, 2016, 4, 6062-6071.	6.7	11
84	New porous monolithic membranes based on supported ionic liquid-like phases for oil/water separation and homogenous catalyst immobilisation. Chemical Communications, 2018, 54, 2385-2388.	4.1	11
85	A Green Approach for Producing Solvent-free Anisyl Acetate by Enzymecatalyzed Direct Esterification in Sponge-like Ionic Liquids Under Conventional and Microwave Heating. Current Green Chemistry, 2013, 1, 145-154.	1.1	11
86	Quadrol-Pd(<scp>ii</scp>) complexes: phosphine-free precatalysts for the room-temperature Suzukiâ€"Miyaura synthesis of nucleoside analogues in aqueous media. Dalton Transactions, 2022, 51, 2370-2384.	3.3	11
87	One-step synthesis of Gly-Gly-PheNH2 from N-unprotected amino acid derivatives by papain in one-phase liquid media. Biotechnology Letters, 1992, 14, 933-936.	2.2	10
88	Î±-chymotrypsin in plastein synthesis. Applied Biochemistry and Biotechnology, 1992, 33, 51-65.	2.9	10
89	Macroporous polymers tailored as supports for large biomolecules: Ionic liquids as porogenic solvents and as surface modifiers. Reactive and Functional Polymers, 2014, 85, 20-27.	4.1	10
90	Title is missing!. Biotechnology Letters, 1997, 19, 1005-1009.	2.2	9

#	Article	IF	Citations
91	Enzymatic Catalysis in Ionic Liquids and Supercritical Carbon Dioxide. ACS Symposium Series, 2003, , 239-250.	0.5	9
92	Imine-Palladacycles as Phosphine-Free Precatalysts for Low-Temperature Suzukiâ€"Miyaura Synthesis of Nucleoside Analogues in Aqueous Media. Organometallics, 2020, 39, 4479-4490.	2.3	9
93	Supported ionic liquid-like phases as efficient solid ionic solvents for the immobilisation of alcohol dehydrogenases towards the development of stereoselective bioreductions. Green Chemistry, 2021, 23, 5609-5617.	9.0	9
94	Dynamic Kinetic Resolution of Sec-Alcohols in Ionic Liquids/Supercritical Carbon Dioxide Biphasic Systems. International Journal of Chemical Reactor Engineering, 2009, 7, .	1.1	8
95	Ionic Liquids for Clean Biocatalytic Processes. Current Green Chemistry, 2018, 4, .	1.1	8
96	?-Chymotrypsin in Plastein Synthesis Influence of Water Activity. Annals of the New York Academy of Sciences, 1992, 672, 409-414.	3.8	7
97	Synthesis of L-tyrosine glyceryl ester catalyzed by Î±-chymotrypsin in water-miscible organic solvents: A possible sun-tan accelerator product. Biotechnology Letters, 1993, 15, 1223-1228.	2.2	7
98	Immobilization of Enzymes for Use in Ionic Liquids. Methods in Biotechnology, 2006, , 257-268.	0.2	7
99	Effect of alkali halides on Î±-chymotrypsin activity in the plastein reaction. Journal of the Science of Food and Agriculture, 1993, 62, 245-252.	3.5	6
100	Electrochemical Oscillatory Baffled Reactors Fabricated with Additive Manufacturing for Efficient Continuous-Flow Oxidations. ACS Sustainable Chemistry and Engineering, 2022, 10, 2388-2396.	6.7	6
101	The Suitability of Lipases for the Synthesis of Bioactive Compounds with Cosmeceutical Applications. Mini-Reviews in Organic Chemistry, 2021, 18, 515-528.	1.3	5
102	Food Protein Nutrient Improvement by Protease at Reduced Water Activity. Journal of Food Science, 1994, 59, 876-880.	3.1	4
103	Enzyme Catalysis in Ionic Liquids and Supercritical Carbon Dioxide. ACS Symposium Series, 2010, , 181-196.	0.5	3
104	A sustainable process for enzymatic saccharification of ionic liquid-pretreated cellulosic materials. Green Processing and Synthesis, 2014, 3, .	3.4	3
105	Peptide Synthesis by Papain in Alkali Halide Media. Biocatalysis and Biotransformation, 1996, 13, 255-269.	2.0	2
106	Stability of immobilized enzyme-polyelectrolyte complex against irreversible inactivation by organic solvents. Progress in Biotechnology, 1998, 15, 417-422.	0.2	2
107	From Coordination Complexes to Potential Heterogeneous Catalysts via Solidâ€State Thermal Decomposition: Precursor, Atmosphere and Temperature as Tuning Variables. ChemistrySelect, 2019, 4, 8365-8371.	1.5	2
108	Immobilization of Enzymes for Use in Supercritical Fluids. Methods in Biotechnology, 2006, , 269-282.	0.2	1

#	Article	IF	Citations
109	Toward Green Processes for Fine Chemicals Synthesis: Biocatalysis in Ionic Liquidâ€"Supercritical Carbon Dioxide Biphasic Systems. ACS Symposium Series, 2007, , 209-223.	0.5	1
110	Enzymatic Membrane Reactor for Resolution of Ketoprofen in Ionic Liquids and Supercritical Carbon Dioxide. ACS Symposium Series, 2010, , 25-34.	0.5	1
111	Unraveling the Metabolic Hallmarks for the Optimization of Protein Intake in Pre-Dialysis Chronic Kidney Disease Patients. Nutrients, 2022, 14, 1182.	4.1	1
112	(Bio)Catalytic Continuous Flow Processes in scCO2 and/or ILs: Towards Sustainable (Bio)Catalytic Synthetic Platforms. Current Organic Synthesis, 2011, 8, 810-823.	1.3	0
113	Inside Cover: Immobilised Lipase on Structured Supports Containing Covalently Attached Ionic Liquids for the Continuous Synthesis of Biodiesel in scCO2 (ChemSusChem 4/2012). ChemSusChem, 2012, 5, 602-602.	6.8	0
114	Ionic Liquids in Clean and Sustainable Biocatalytic Organic Reactions. , 2019, , 1-13.		0
115	Kinetic analysis of deactivation of immobilized Î±-chymotrypsin by water-miscible organic solvent in kyotorphin synthesis. Biotechnology and Bioengineering, 1999, 65, 170.	3.3	0