

# Sara Iborra

## 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.

97  
papers

17,550  
citations

41  
h-index

118  
g-index

118  
ext. papers

18,918  
ext. citations

9.5  
avg, IF

7  
L-index

#	Paper	IF	Citations
97	Stability of the Cellic CTec2 enzymatic preparation immobilized onto magnetic graphene oxide: Assessment of hydrolysis of pretreated sugarcane bagasse. <i>Industrial Crops and Products</i> , <b>2022</b> , 183, 114972	5.9	0
96	Biomass Processing via Base Catalysis <b>2021</b> , 57-80		
95	Magnetic graphene oxide as a platform for the immobilization of cellulases and xylanases: Ultrastructural characterization and assessment of lignocellulosic biomass hydrolysis. <i>Renewable Energy</i> , <b>2021</b> , 164, 491-501	8.1	21
94	Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 3353-3363	5.5	2
93	Synthesis of a hybrid Pd0/Pd-carbide/carbon catalyst material with high selectivity for hydrogenation reactions. <i>Journal of Catalysis</i> , <b>2020</b> , 389, 706-713	7.3	7
92	Production of chiral alcohols from racemic mixtures by integrated heterogeneous chemoenzymatic catalysis in fixed bed continuous operation. <i>Green Chemistry</i> , <b>2020</b> , 22, 2767-2777	10	11
91	Chemoenzymatic Synthesis of 5-Hydroxymethylfurfural (HMF)-Derived Plasticizers by Coupling HMF Reduction with Enzymatic Esterification. <i>ChemSusChem</i> , <b>2020</b> , 13, 1864-1875	8.3	13
90	Covalent Immobilization of Naringinase over Two-Dimensional 2D Zeolites and its Applications in a Continuous Process to Produce Citrus Flavonoids and for Debittering of Juices. <i>ChemCatChem</i> , <b>2020</b> , 12, 4502-4511	5.2	7
89	Transforming Methyl Levulinate into Biosurfactants and Biolubricants by Chemoselective Reductive Etherification with Fatty Alcohols. <i>ChemSusChem</i> , <b>2020</b> , 13, 707-714	8.3	11
88	Direct synthesis of the organic and Ge free Al containing BOG zeolite (ITQ-47) and its application for transformation of biomass derived molecules. <i>Chemical Science</i> , <b>2020</b> , 11, 12103-12108	9.4	2
87	Molecular Oxygen Lignin Depolymerization: An Insight into the Stability of Phenolic Monomers. <i>ChemSusChem</i> , <b>2020</b> , 13, 4743-4758	8.3	4
86	Selective synthesis of citrus flavonoids prunin and naringenin using heterogeneized biocatalyst on graphene oxide. <i>Green Chemistry</i> , <b>2019</b> , 21, 839-849	10	23
85	Chemicals from Biomass: Selective Synthesis of N-Substituted Furfuryl Amines by the One-Pot Direct Reductive Amination of Furanic Aldehydes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 6243-6250	8.3	34
84	Hydrothermal Synthesis of Ruthenium Nanoparticles with a Metallic Core and a Ruthenium Carbide Shell for Low-Temperature Activation of CO to Methane. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 19304-19311	16.4	47
83	Mutual Valorization of 5-Hydroxymethylfurfural and Glycerol into Valuable Diol Monomers with Solid Acid Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4239-4245	8.3	27
82	One-Pot Synthesis of Biomass-Derived Surfactants by Reacting Hydroxymethylfurfural, Glycerol, and Fatty Alcohols on Solid Acid Catalysts. <i>ChemSusChem</i> , <b>2018</b> , 11, 2870-2880	8.3	15
81	Polymers from biomass: one pot two-step synthesis of furilydenepropanenitrile derivatives with MIL-100(Fe) catalyst. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3008-3016	5.5	25

80	One-Pot Selective Catalytic Synthesis of Pyrrolidone Derivatives from Ethyl Levulinate and Nitro Compounds. <i>ChemSusChem</i> , <b>2017</b> , 10, 119-128	8.3	41
79	Transformation of Cellulose into Nonionic Surfactants Using a One-Pot Catalytic Process. <i>ChemSusChem</i> , <b>2016</b> , 9, 3492-3502	8.3	17
78	Chemicals from Biomass: Synthesis of Biologically Active Furanochalcones by Claisen-Schmidt Condensation of Biomass-Derived 5-hydroxymethylfurfural (HMF) with Acetophenones. <i>Topics in Catalysis</i> , <b>2016</b> , 59, 1257-1265	2.3	14
77	Two-Dimensional ITQ-2 Zeolite for Biomass Transformation: Synthesis of Alkyl 5-Benzyl-2-furoates as Intermediates for Fine Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 6152-6159	8.3	19
76	Heteropolycompounds as catalysts for biomass product transformations. <i>Catalysis Reviews - Science and Engineering</i> , <b>2016</b> , 58, 497-586	12.6	40
75	Nanocrystalline CeO <sub>2</sub> as a Highly Active and Selective Catalyst for the Dehydration of Aldoximes to Nitriles and One-Pot Synthesis of Amides and Esters. <i>ACS Catalysis</i> , <b>2016</b> , 6, 4564-4575	13.1	23
74	Use of Mesoporous Molecular Sieves in the Production of Fine Chemicals: Preparation of Dihydroquinolinones of Pharmaceutical Interest From 2?-Aminochalcones. <i>ChemCatChem</i> , <b>2016</b> , 8, 1335-1345	5.3	1
73	Simple Quaternary Ammonium Cations-Templated Syntheses of Extra-Large Pore Germanosilicate Zeolites. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6455-6458	9.6	39
72	Chemicals from Biomass: Chemoselective Reductive Amination of Ethyl Levulinate with Amines. <i>ACS Catalysis</i> , <b>2015</b> , 5, 5812-5821	13.1	70
71	Process Intensification with Bifunctional Heterogeneous Catalysts: Selective One-Pot Synthesis of 2?-Aminochalcones. <i>ACS Catalysis</i> , <b>2015</b> , 5, 157-166	13.1	14
70	Synthesis of high quality alkyl naphthenic kerosene by reacting an oil refinery with a biomass refinery stream. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 317-331	35.4	64
69	Postsynthesis-Treated Iron-Based Metal-Organic Frameworks as Selective Catalysts for the Sustainable Synthesis of Nitriles. <i>ChemSusChem</i> , <b>2015</b> , 8, 3270-82	8.3	14
68	Solid catalysts for multistep reactions: one-pot synthesis of 2,3-dihydro-1,5-benzothiazepines with solid acid and base catalysts. <i>ChemSusChem</i> , <b>2014</b> , 7, 1177-85	8.3	12
67	Heterogeneous Catalysis for Tandem Reactions. <i>ACS Catalysis</i> , <b>2014</b> , 4, 870-891	13.1	250
66	Photobiocatalytic chemistry of oxidoreductases using water as the electron donor. <i>Nature Communications</i> , <b>2014</b> , 5, 3145	17.4	115
65	Conversion of biomass platform molecules into fuel additives and liquid hydrocarbon fuels. <i>Green Chemistry</i> , <b>2014</b> , 16, 516	10	983
64	Biomass-derived chemicals: synthesis of biodegradable surfactant ether molecules from hydroxymethylfurfural. <i>ChemSusChem</i> , <b>2014</b> , 7, 210-20	8.3	46
63	Bifunctional acidBase ionic liquid for the one-pot synthesis of fine chemicals: Thioethers, 2H-chromenes and 2H-quinoline derivatives. <i>Applied Catalysis A: General</i> , <b>2014</b> , 481, 27-38	5.1	16

62	From biomass to chemicals: synthesis of precursors of biodegradable surfactants from 5-hydroxymethylfurfural. <i>ChemSusChem</i> , <b>2013</b> , 6, 123-31	8.3	49
61	Preparation of glycerol carbonate esters by using hybrid Nafion-silica catalyst. <i>ChemSusChem</i> , <b>2013</b> , 6, 1224-34	8.3	11
60	Gold Catalysis Opens Up a New Route for the Synthesis of Benzimidazolquinoxaline Derivatives from Biomass-Derived Products (Glycerol). <i>ChemCatChem</i> , <b>2013</b> , 5, 3866-3874	5.2	20
59	Homogeneous and heterogeneous catalysts for multicomponent reactions. <i>RSC Advances</i> , <b>2012</b> , 2, 16-58,7	3.7	257
58	Biomass into chemicals: One-pot two- and three-step synthesis of quinoxalines from biomass-derived glycols and 1,2-dinitrobenzene derivatives using supported gold nanoparticles as catalysts. <i>Journal of Catalysis</i> , <b>2012</b> , 292, 118-129	7.3	56
57	A recyclable bifunctional acid-base organocatalyst with ionic liquid character. The role of site separation and spatial configuration on different condensation reactions. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 17255-61	3.6	11
56	Converting carbohydrates to bulk chemicals and fine chemicals over heterogeneous catalysts. <i>Green Chemistry</i> , <b>2011</b> , 13, 520	10	484
55	Heterogeneous catalysts for the one-pot synthesis of chemicals and fine chemicals. <i>Chemical Reviews</i> , <b>2011</b> , 111, 1072-133	68.1	621
54	New one-pot multistep process with multifunctional catalysts: decreasing the E factor in the synthesis of fine chemicals. <i>Green Chemistry</i> , <b>2010</b> , 12, 99-107	10	48
53	Gold catalysts and solid catalysts for biomass transformations: Valorization of glycerol and glycerol/water mixtures through formation of cyclic acetals. <i>Journal of Catalysis</i> , <b>2010</b> , 271, 351-357	7.3	73
52	Nanoparticles of Pd on Hybrid Polyoxometalate/Ionic Liquid Material: Synthesis, Characterization, and Catalytic Activity for Heck Reaction. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 8828-8836	3.8	52
51	Zeolites as Catalysts for the Synthesis of Fine Chemicals <b>2010</b> , 775-826		6
50	Chemicals from biomass: Synthesis of glycerol carbonate by transesterification and carbonylation with urea with hydrotalcite catalysts. The role of acid-base pairs. <i>Journal of Catalysis</i> , <b>2010</b> , 269, 140-149	7.3	286
49	In situ multinuclear solid-state NMR spectroscopy study of Beckmann rearrangement of cyclododecanone oxime in ionic liquids: The nature of catalytic sites. <i>Journal of Catalysis</i> , <b>2010</b> , 275, 78-83	7.3	10
48	Chemicals from biomass: Etherification of 5-hydroxymethyl-2-furfural (HMF) into 5,5'-(oxy-bis(methylene))bis-2-furfural (OBMF) with solid catalysts. <i>Journal of Catalysis</i> , <b>2010</b> , 275, 236-242	7.3	67
47	Bifunctional acid-base ionic liquid organocatalysts with a controlled distance between acid and base sites. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 1221-31	4.8	40
46	Methanolysis of sunflower oil using gem-diamines as active organocatalysts for biodiesel production. <i>Applied Catalysis A: General</i> , <b>2010</b> , 382, 36-42	5.1	9
45	Hydride transfer reactions of benzylic alcohols catalyzed by acid faujasites. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , <b>2010</b> , 110, 275-278		11

44	Dual behaviour of sepiolites as single electron acceptors or Lewis acids: Reactivity of two p- <i>tert</i> -butylacetoxystyrenes adsorbed on a iron(III)-exchanged sepiolite. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , <b>2010</b> , 111, 126-128		5
43	Biomass into chemicals: One pot-base free oxidative esterification of 5-hydroxymethyl-2-furfural into 2,5-dimethylfuroate with gold on nanoparticulated ceria. <i>Journal of Catalysis</i> , <b>2009</b> , 265, 109-116	7.3	206
42	Multisite solid catalyst for cascade reactions: the direct synthesis of benzodiazepines from nitro compounds. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 8834-41	4.8	45
41	Mono- and multisite solid catalysts in cascade reactions for chemical process intensification. <i>ChemSusChem</i> , <b>2009</b> , 2, 500-6	8.3	66
40	Biomass into chemicals: aerobic oxidation of 5-hydroxymethyl-2-furfural into 2,5-furandicarboxylic acid with gold nanoparticle catalysts. <i>ChemSusChem</i> , <b>2009</b> , 2, 1138-44	8.3	382
39	Surfactants from biomass: a two-step cascade reaction for the synthesis of sorbitol fatty acid esters using solid acid catalysts. <i>ChemSusChem</i> , <b>2008</b> , 1, 85-90	8.3	31
38	Biomass to fuels: A water-free process for biodiesel production with phosphazene catalysts. <i>Applied Catalysis A: General</i> , <b>2008</b> , 346, 52-57	5.1	14
37	Heterogeneous Palladium Catalysts for a New One-Pot Chemical Route in the Synthesis of Fragrances Based on the Heck Reaction. <i>Advanced Synthesis and Catalysis</i> , <b>2007</b> , 349, 1949-1954	5.6	52
36	Nanosized and delayered zeolitic materials for the liquid-phase Beckmann rearrangement of cyclododecanone oxime. <i>Journal of Catalysis</i> , <b>2007</b> , 250, 161-170	7.3	34
35	Gem-diamines as highly active organocatalysts for carbon-carbon bond formation. <i>Journal of Catalysis</i> , <b>2007</b> , 246, 136-146	7.3	54
34	MgO nanoparticle-based multifunctional catalysts in the cascade reaction allows the green synthesis of anti-inflammatory agents. <i>Journal of Catalysis</i> , <b>2007</b> , 247, 223-230	7.3	87
33	Chemical routes for the transformation of biomass into chemicals. <i>Chemical Reviews</i> , <b>2007</b> , 107, 2411-5028	8.1	4659
32	Oligomerization of Alkenes <b>2006</b> , 125-140		16
31	Optimization of Alkaline Earth Metal Oxide and Hydroxide Catalysts for Base-Catalyzed Reactions. <i>Advances in Catalysis</i> , <b>2006</b> , 49, 239-302	2.4	67
30	Chemicals from biomass derived products: synthesis of polyoxyethyleneglycol esters from fatty acid methyl esters with solid basic catalysts. <i>Green Chemistry</i> , <b>2006</b> , 8, 524	10	25
29	Base-Type Catalysis <b>2006</b> , 171-205		4
28	Nitration of Aromatic Compounds <b>2006</b> , 105-123		2
27	Synthesis of transportation fuels from biomass: chemistry, catalysts, and engineering. <i>Chemical Reviews</i> , <b>2006</b> , 106, 4044-98	68.1	5998

26	Synthesis of nonsteroidal drugs with anti-inflammatory and analgesic activities with zeolites and mesoporous molecular sieve catalysts. <i>Journal of Catalysis</i> , <b>2005</b> , 233, 308-316	7.3	30
25	A new, alternative, halogen-free synthesis for the fragrance compound Melonal using zeolites and mesoporous materials as oxidation catalysts. <i>Journal of Catalysis</i> , <b>2005</b> , 234, 96-100	7.3	38
24	Lewis and Brønsted basic active sites on solid catalysts and their role in the synthesis of monoglycerides. <i>Journal of Catalysis</i> , <b>2005</b> , 234, 340-347	7.3	180
23	Mesoporous molecular sieve Sn-MCM-41 as Baeyer-Villiger oxidation catalyst for sterically demanding aromatic and $\alpha,\beta$ -unsaturated aldehydes. <i>Arkivoc</i> , <b>2005</b> , 2005, 124-132	0.9	16
22	One-pot synthesis of phenols from aromatic aldehydes by Baeyer-Villiger oxidation with H <sub>2</sub> O <sub>2</sub> using water-tolerant Lewis acids in molecular sieves. <i>Journal of Catalysis</i> , <b>2004</b> , 221, 67-76	7.3	68
21	Activated hydrotalcites as catalysts for the synthesis of chalcones of pharmaceutical interest. <i>Journal of Catalysis</i> , <b>2004</b> , 221, 474-482	7.3	194
20	A New Environmentally Benign Catalytic Process for the Asymmetric Synthesis of Lactones: Synthesis of the Flavouring $\beta$ -Decalactone Molecule. <i>Advanced Synthesis and Catalysis</i> , <b>2004</b> , 346, 257-262 <sup>5.6</sup>		42
19	Polyoxyethylene esters of fatty acids: an alternative synthetic route for high selectivity of monoesters. <i>Catalysis Today</i> , <b>2004</b> , 97, 271-276	5.3	10
18	Designing the adequate base solid catalyst with Lewis or Bronsted basic sites or with acid-base pairs. <i>Journal of Molecular Catalysis A</i> , <b>2002</b> , 182-183, 327-342		120
17	Synthesis of Pseudoionones by Acid and Base Solid Catalysts. <i>Catalysis Letters</i> , <b>2002</b> , 79, 157-163	2.8	55
16	MCM-41 Heterogenized Chiral Amines as Base Catalysts for Enantioselective Michael Reaction. <i>Catalysis Letters</i> , <b>2002</b> , 82, 237-242	2.8	36
15	Synthesis of methylpseudoionones by activated hydrotalcites as solid base catalysts. <i>Green Chemistry</i> , <b>2002</b> , 4, 474-480	10	43
14	Acid-Base Bifunctional Catalysts for the Preparation of Fine Chemicals: Synthesis of Jasminaldehyde. <i>Journal of Catalysis</i> , <b>2001</b> , 197, 385-393	7.3	82
13	Aluminophosphates Oxynitrides as Base Catalysts for the Production of Dicyanomethylene Derivative Dyes. <i>Catalysis Letters</i> , <b>2001</b> , 74, 161-167	2.8	14
12	Use of delaminated zeolites (ITQ-2) and mesoporous molecular sieves in the production of fine chemicals: Preparation of dimethylacetals and tetrahydropyranylation of alcohols and phenols. <i>Journal of Catalysis</i> , <b>2000</b> , 192, 441-447	7.3	94
11	Acid zeolites as catalysts in organic reactions: condensation of acetophenone with benzene derivatives. <i>Applied Catalysis A: General</i> , <b>1995</b> , 130, 5-12	5.1	16
10	Base Catalysis for Fine Chemicals Production: Claisen-Schmidt Condensation on Zeolites and Hydrotalcites for the Production of Chalcones and Flavanones of Pharmaceutical Interest. <i>Journal of Catalysis</i> , <b>1995</b> , 151, 60-66	7.3	295
9	One-step synthesis of citrionitril on hydrotalcite derived base catalysts. <i>Applied Catalysis A: General</i> , <b>1994</b> , 114, 215-225	5.1	73

8	MONO and Tridirectional 12-Membered Ring Zeolites as Acid Catalysts for Carbonyl Group Reactions. <i>Studies in Surface Science and Catalysis</i> , <b>1991</b> , 59, 557-564	1.8	3
7	Modified faujasite zeolites as catalysts in organic reactions: Esterification of carboxylic acids in the presence of HY zeolites. <i>Journal of Catalysis</i> , <b>1989</b> , 120, 78-87	7.3	132
6	Intermolecular reactions of radical cations in the gas phase. Mass spectral evidence for an ion-molecule process leading to the dimerization of auronones. <i>Organic Mass Spectrometry</i> , <b>1989</b> , 24, 429-430		
5	Photosensitized Dehydrogenation of Flavanones to Flavones Using 2,4,6-Triphenylpyrylium Tetrafluoroborate (TPT). <i>Heterocycles</i> , <b>1989</b> , 29, 115	0.8	19
4	New photochemical approaches to the synthesis of chromones. <i>Tetrahedron</i> , <b>1987</b> , 43, 143-148	2.4	18
3	6-Endo-Dig vs. 5-Exo-Dig ring closure in o-hydroxyaryl phenylethynyl ketones. A new approach to the synthesis of flavones and auronones. <i>Journal of Organic Chemistry</i> , <b>1986</b> , 51, 4432-4436	4.2	56
2	Application of the Photo-Fries Rearrangement of Aryl Dihydrocinnamates to the Synthesis of Flavonoids. <i>Heterocycles</i> , <b>1985</b> , 23, 1983	0.8	13
1	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123	13.1	1