

Sara Iborra

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8022998/sara-iborra-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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 | Synthesis of transportation fuels from biomass: chemistry, catalysts, and engineering. <i>Chemical Reviews</i> , 2006 , 106, 4044-98 | 68.1 | 5998 |
| 96 | Chemical routes for the transformation of biomass into chemicals. <i>Chemical Reviews</i> , 2007 , 107, 2411-5028 | 68.1 | 4659 |
| 95 | Conversion of biomass platform molecules into fuel additives and liquid hydrocarbon fuels. <i>Green Chemistry</i> , 2014 , 16, 516 | 10 | 983 |
| 94 | Heterogeneous catalysts for the one-pot synthesis of chemicals and fine chemicals. <i>Chemical Reviews</i> , 2011 , 111, 1072-133 | 68.1 | 621 |
| 93 | Converting carbohydrates to bulk chemicals and fine chemicals over heterogeneous catalysts. <i>Green Chemistry</i> , 2011 , 13, 520 | 10 | 484 |
| 92 | Biomass into chemicals: aerobic oxidation of 5-hydroxymethyl-2-furfural into 2,5-furandicarboxylic acid with gold nanoparticle catalysts. <i>ChemSusChem</i> , 2009 , 2, 1138-44 | 8.3 | 382 |
| 91 | 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> , 1995 , 151, 60-66 | 7.3 | 295 |
| 90 | Chemicals from biomass: Synthesis of glycerol carbonate by transesterification and carbonylation with urea with hydrotalcite catalysts. The role of acidBase pairs. <i>Journal of Catalysis</i> , 2010 , 269, 140-149 | 7.3 | 286 |
| 89 | Homogeneous and heterogeneous catalysts for multicomponent reactions. <i>RSC Advances</i> , 2012 , 2, 16-58 | 5.7 | 257 |
| 88 | Heterogeneous Catalysis for Tandem Reactions. <i>ACS Catalysis</i> , 2014 , 4, 870-891 | 13.1 | 250 |
| 87 | 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> , 2009 , 265, 109-116 | 7.3 | 206 |
| 86 | Activated hydrotalcites as catalysts for the synthesis of chalcones of pharmaceutical interest. <i>Journal of Catalysis</i> , 2004 , 221, 474-482 | 7.3 | 194 |
| 85 | Lewis and Brønsted basic active sites on solid catalysts and their role in the synthesis of monoglycerides. <i>Journal of Catalysis</i> , 2005 , 234, 340-347 | 7.3 | 180 |
| 84 | Modified faujasite zeolites as catalysts in organic reactions: Esterification of carboxylic acids in the presence of HY zeolites. <i>Journal of Catalysis</i> , 1989 , 120, 78-87 | 7.3 | 132 |
| 83 | Designing the adequate base solid catalyst with Lewis or Bronsted basic sites or with acidBase pairs. <i>Journal of Molecular Catalysis A</i> , 2002 , 182-183, 327-342 | | 120 |
| 82 | Photobiocatalytic chemistry of oxidoreductases using water as the electron donor. <i>Nature Communications</i> , 2014 , 5, 3145 | 17.4 | 115 |
| 81 | 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> , 2000 , 192, 441-447 | 7.3 | 94 |

| | | | |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 80 | MgO nanoparticle-based multifunctional catalysts in the cascade reaction allows the green synthesis of anti-inflammatory agents. <i>Journal of Catalysis</i> , 2007 , 247, 223-230 | 7.3 | 87 |
| 79 | Acid-Base Bifunctional Catalysts for the Preparation of Fine Chemicals: Synthesis of Jasminaldehyde. <i>Journal of Catalysis</i> , 2001 , 197, 385-393 | 7.3 | 82 |
| 78 | 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> , 2010 , 271, 351-357 | 7.3 | 73 |
| 77 | One-step synthesis of citrionitril on hydrotalcite derived base catalysts. <i>Applied Catalysis A: General</i> , 1994 , 114, 215-225 | 5.1 | 73 |
| 76 | Chemicals from Biomass: Chemoselective Reductive Amination of Ethyl Levulinate with Amines. <i>ACS Catalysis</i> , 2015 , 5, 5812-5821 | 13.1 | 70 |
| 75 | One-pot synthesis of phenols from aromatic aldehydes by Baeyer-Villiger oxidation with H ₂ O ₂ using water-tolerant Lewis acids in molecular sieves. <i>Journal of Catalysis</i> , 2004 , 221, 67-76 | 7.3 | 68 |
| 74 | 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> , 2010 , 275, 236-242 | 7.3 | 67 |
| 73 | Optimization of Alkaline Earth Metal Oxide and Hydroxide Catalysts for Base-Catalyzed Reactions. <i>Advances in Catalysis</i> , 2006 , 49, 239-302 | 2.4 | 67 |
| 72 | Mono- and multisite solid catalysts in cascade reactions for chemical process intensification. <i>ChemSusChem</i> , 2009 , 2, 500-6 | 8.3 | 66 |
| 71 | Synthesis of high quality alkyl naphthenic kerosene by reacting an oil refinery with a biomass refinery stream. <i>Energy and Environmental Science</i> , 2015 , 8, 317-331 | 35.4 | 64 |
| 70 | 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> , 2012 , 292, 118-129 | 7.3 | 56 |
| 69 | 6-Endo-Dig vs. 5-Exo-Dig ring closure in o-hydroxyaryl phenylethynyl ketones. A new approach to the synthesis of flavones and aurones. <i>Journal of Organic Chemistry</i> , 1986 , 51, 4432-4436 | 4.2 | 56 |
| 68 | Synthesis of Pseudoionones by Acid and Base Solid Catalysts. <i>Catalysis Letters</i> , 2002 , 79, 157-163 | 2.8 | 55 |
| 67 | Gem-diamines as highly active organocatalysts for carbon-carbon bond formation. <i>Journal of Catalysis</i> , 2007 , 246, 136-146 | 7.3 | 54 |
| 66 | Nanoparticles of Pd on Hybrid Polyoxometalate-based Liquid Material: Synthesis, Characterization, and Catalytic Activity for Heck Reaction. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8828-8836 | 3.8 | 52 |
| 65 | 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> , 2007 , 349, 1949-1954 | 5.6 | 52 |
| 64 | From biomass to chemicals: synthesis of precursors of biodegradable surfactants from 5-hydroxymethylfurfural. <i>ChemSusChem</i> , 2013 , 6, 123-31 | 8.3 | 49 |
| 63 | New one-pot multistep process with multifunctional catalysts: decreasing the E factor in the synthesis of fine chemicals. <i>Green Chemistry</i> , 2010 , 12, 99-107 | 10 | 48 |

| | | | |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 62 | 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> , 2019 , 141, 19304-19311 | 16.4 | 47 |
| 61 | Biomass-derived chemicals: synthesis of biodegradable surfactant ether molecules from hydroxymethylfurfural. <i>ChemSusChem</i> , 2014 , 7, 210-20 | 8.3 | 46 |
| 60 | Multisite solid catalyst for cascade reactions: the direct synthesis of benzodiazepines from nitro compounds. <i>Chemistry - A European Journal</i> , 2009 , 15, 8834-41 | 4.8 | 45 |
| 59 | Synthesis of methylpseudoionones by activated hydrotalcites as solid base catalysts. <i>Green Chemistry</i> , 2002 , 4, 474-480 | 10 | 43 |
| 58 | A New Environmentally Benign Catalytic Process for the Asymmetric Synthesis of Lactones: Synthesis of the Flavouring γ -Decalactone Molecule. <i>Advanced Synthesis and Catalysis</i> , 2004 , 346, 257-262 ^{5.6} | 5.6 | 42 |
| 57 | One-Pot Selective Catalytic Synthesis of Pyrrolidone Derivatives from Ethyl Levulinate and Nitro Compounds. <i>ChemSusChem</i> , 2017 , 10, 119-128 | 8.3 | 41 |
| 56 | Heteropolycompounds as catalysts for biomass product transformations. <i>Catalysis Reviews - Science and Engineering</i> , 2016 , 58, 497-586 | 12.6 | 40 |
| 55 | Bifunctional acid-base ionic liquid organocatalysts with a controlled distance between acid and base sites. <i>Chemistry - A European Journal</i> , 2010 , 16, 1221-31 | 4.8 | 40 |
| 54 | Simple Quaternary Ammonium Cations-Templated Syntheses of Extra-Large Pore Germanosilicate Zeolites. <i>Chemistry of Materials</i> , 2016 , 28, 6455-6458 | 9.6 | 39 |
| 53 | A new, alternative, halogen-free synthesis for the fragrance compound Melonal using zeolites and mesoporous materials as oxidation catalysts. <i>Journal of Catalysis</i> , 2005 , 234, 96-100 | 7.3 | 38 |
| 52 | MCM-41 Heterogenized Chiral Amines as Base Catalysts for Enantioselective Michael Reaction. <i>Catalysis Letters</i> , 2002 , 82, 237-242 | 2.8 | 36 |
| 51 | Nanosized and delayered zeolitic materials for the liquid-phase Beckmann rearrangement of cyclododecanone oxime. <i>Journal of Catalysis</i> , 2007 , 250, 161-170 | 7.3 | 34 |
| 50 | 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> , 2019 , 7, 6243-6250 | 8.3 | 34 |
| 49 | Surfactants from biomass: a two-step cascade reaction for the synthesis of sorbitol fatty acid esters using solid acid catalysts. <i>ChemSusChem</i> , 2008 , 1, 85-90 | 8.3 | 31 |
| 48 | Synthesis of nonsteroidal drugs with anti-inflammatory and analgesic activities with zeolites and mesoporous molecular sieve catalysts. <i>Journal of Catalysis</i> , 2005 , 233, 308-316 | 7.3 | 30 |
| 47 | Mutual Valorization of 5-Hydroxymethylfurfural and Glycerol into Valuable Diol Monomers with Solid Acid Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4239-4245 | 8.3 | 27 |
| 46 | Polymers from biomass: one pot two-step synthesis of furilydenepropanenitrile derivatives with MIL-100(Fe) catalyst. <i>Catalysis Science and Technology</i> , 2017 , 7, 3008-3016 | 5.5 | 25 |
| 45 | Chemicals from biomass derived products: synthesis of polyoxyethyleneglycol esters from fatty acid methyl esters with solid basic catalysts. <i>Green Chemistry</i> , 2006 , 8, 524 | 10 | 25 |

| | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 44 | Selective synthesis of citrus flavonoids prunin and naringenin using heterogeneized biocatalyst on graphene oxide. <i>Green Chemistry</i> , 2019 , 21, 839-849 | 10 | 23 |
| 43 | Nanocrystalline CeO ₂ 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> , 2016 , 6, 4564-4575 | 13.1 | 23 |
| 42 | 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> , 2021 , 164, 491-501 | 8.1 | 21 |
| 41 | Gold Catalysis Opens Up a New Route for the Synthesis of Benzimidazolquinoxaline Derivatives from Biomass-Derived Products (Glycerol). <i>ChemCatChem</i> , 2013 , 5, 3866-3874 | 5.2 | 20 |
| 40 | 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> , 2016 , 4, 6152-6159 | 8.3 | 19 |
| 39 | Photosensitized Dehydrogenation of Flavanones to Flavones Using 2,4,6-Triphenylpyrylium Tetrafluoroborate (TPT). <i>Heterocycles</i> , 1989 , 29, 115 | 0.8 | 19 |
| 38 | New photochemical approaches to the synthesis of chromones. <i>Tetrahedron</i> , 1987 , 43, 143-148 | 2.4 | 18 |
| 37 | Transformation of Cellulose into Nonionic Surfactants Using a One-Pot Catalytic Process. <i>ChemSusChem</i> , 2016 , 9, 3492-3502 | 8.3 | 17 |
| 36 | Bifunctional acid/base ionic liquid for the one-pot synthesis of fine chemicals: Thioethers, 2H-chromenes and 2H-quinoline derivatives. <i>Applied Catalysis A: General</i> , 2014 , 481, 27-38 | 5.1 | 16 |
| 35 | Oligomerization of Alkenes 2006 , 125-140 | | 16 |
| 34 | Acid zeolites as catalysts in organic reactions: condensation of acetophenone with benzene derivatives. <i>Applied Catalysis A: General</i> , 1995 , 130, 5-12 | 5.1 | 16 |
| 33 | Mesoporous molecular sieve Sn-MCM-41 as Baeyer-Villiger oxidation catalyst for sterically demanding aromatic and α,β -unsaturated aldehydes. <i>Arkivoc</i> , 2005 , 2005, 124-132 | 0.9 | 16 |
| 32 | One-Pot Synthesis of Biomass-Derived Surfactants by Reacting Hydroxymethylfurfural, Glycerol, and Fatty Alcohols on Solid Acid Catalysts. <i>ChemSusChem</i> , 2018 , 11, 2870-2880 | 8.3 | 15 |
| 31 | Process Intensification with Bifunctional Heterogeneous Catalysts: Selective One-Pot Synthesis of 2'-Aminochalcones. <i>ACS Catalysis</i> , 2015 , 5, 157-166 | 13.1 | 14 |
| 30 | 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> , 2016 , 59, 1257-1265 | 2.3 | 14 |
| 29 | Postsynthesis-Treated Iron-Based Metal-Organic Frameworks as Selective Catalysts for the Sustainable Synthesis of Nitriles. <i>ChemSusChem</i> , 2015 , 8, 3270-82 | 8.3 | 14 |
| 28 | Biomass to fuels: A water-free process for biodiesel production with phosphazene catalysts. <i>Applied Catalysis A: General</i> , 2008 , 346, 52-57 | 5.1 | 14 |
| 27 | Aluminophosphates Oxynitrides as Base Catalysts for the Production of Dicyanomethylene Derivative Dyes. <i>Catalysis Letters</i> , 2001 , 74, 161-167 | 2.8 | 14 |

| | | | |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|
| 26 | Chemoenzymatic Synthesis of 5-Hydroxymethylfurfural (HMF)-Derived Plasticizers by Coupling HMF Reduction with Enzymatic Esterification. <i>ChemSusChem</i> , 2020 , 13, 1864-1875 | 8.3 | 13 |
| 25 | Application of the Photo-Fries Rearrangement of Aryl Dihydrocinnamates to the Synthesis of Flavonoids. <i>Heterocycles</i> , 1985 , 23, 1983 | 0.8 | 13 |
| 24 | Solid catalysts for multistep reactions: one-pot synthesis of 2,3-dihydro-1,5-benzothiazepines with solid acid and base catalysts. <i>ChemSusChem</i> , 2014 , 7, 1177-85 | 8.3 | 12 |
| 23 | Production of chiral alcohols from racemic mixtures by integrated heterogeneous chemoenzymatic catalysis in fixed bed continuous operation. <i>Green Chemistry</i> , 2020 , 22, 2767-2777 | 10 | 11 |
| 22 | Preparation of glycerol carbonate esters by using hybrid Nafion-silica catalyst. <i>ChemSusChem</i> , 2013 , 6, 1224-34 | 8.3 | 11 |
| 21 | 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> , 2011 , 13, 17255-61 | 3.6 | 11 |
| 20 | Hydride transfer reactions of benzylic alcohols catalyzed by acid faujasites. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 2010 , 110, 275-278 | | 11 |
| 19 | Transforming Methyl Levulinate into Biosurfactants and Biolubricants by Chemoselective Reductive Etherification with Fatty Alcohols. <i>ChemSusChem</i> , 2020 , 13, 707-714 | 8.3 | 11 |
| 18 | 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> , 2010 , 275, 78-83 | 7.3 | 10 |
| 17 | Polyoxyethylene esters of fatty acids: an alternative synthetic route for high selectivity of monoesters. <i>Catalysis Today</i> , 2004 , 97, 271-276 | 5.3 | 10 |
| 16 | Methanolysis of sunflower oil using gem-diamines as active organocatalysts for biodiesel production. <i>Applied Catalysis A: General</i> , 2010 , 382, 36-42 | 5.1 | 9 |
| 15 | Synthesis of a hybrid Pd ⁰ /Pd-carbide/carbon catalyst material with high selectivity for hydrogenation reactions. <i>Journal of Catalysis</i> , 2020 , 389, 706-713 | 7.3 | 7 |
| 14 | 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> , 2020 , 12, 4502-4511 | 5.2 | 7 |
| 13 | Zeolites as Catalysts for the Synthesis of Fine Chemicals 2010 , 775-826 | | 6 |
| 12 | Dual behaviour of sepiolites as single electron acceptors or Lewis acids: Reactivity of two p-acetoxystyrenes adsorbed on a iron(III)-exchanged sepiolite. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 2010 , 111, 126-128 | | 5 |
| 11 | Base-Type Catalysis 2006 , 171-205 | | 4 |
| 10 | Molecular Oxygen Lignin Depolymerization: An Insight into the Stability of Phenolic Monomers. <i>ChemSusChem</i> , 2020 , 13, 4743-4758 | 8.3 | 4 |
| 9 | MONO and Tridirectional 12-Membered Ring Zeolites as Acid Catalysts for Carbonyl Group Reactions. <i>Studies in Surface Science and Catalysis</i> , 1991 , 59, 557-564 | 1.8 | 3 |

| | | | |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|
| 8 | Nitration of Aromatic Compounds 2006 , 105-123 | | 2 |
| 7 | 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> , 2020 , 11, 12103-12108 | 9.4 | 2 |
| 6 | Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. <i>Catalysis Science and Technology</i> , 2021 , 11, 3353-3363 | 5.5 | 2 |
| 5 | Use of Mesoporous Molecular Sieves in the Production of Fine Chemicals: Preparation of Dihydroquinolinones of Pharmaceutical Interest From 2?-Aminochalcones. <i>ChemCatChem</i> , 2016 , 8, 1335-1345 | 5.3 | 1 |
| 4 | A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123 | 13.1 | 1 |
| 3 | 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> , 2022 , 183, 114972 | 5.9 | 0 |
| 2 | 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> , 1989 , 24, 429-430 | | |
| 1 | Biomass Processing via Base Catalysis 2021 , 57-80 | | |