

Maria Jos Climent

List of Publications by Citations

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77 papers	5,556 citations	34 h-index	74 g-index
92 ext. papers	6,035 ext. citations	8.1 avg, IF	5.97 L-index

#	Paper	IF	Citations
77	Conversion of biomass platform molecules into fuel additives and liquid hydrocarbon fuels. <i>Green Chemistry</i> , 2014 , 16, 516	10	983
76	Heterogeneous catalysts for the one-pot synthesis of chemicals and fine chemicals. <i>Chemical Reviews</i> , 2011 , 111, 1072-133	68.1	621
75	Converting carbohydrates to bulk chemicals and fine chemicals over heterogeneous catalysts. <i>Green Chemistry</i> , 2011 , 13, 520	10	484
74	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
73	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
72	Homogeneous and heterogeneous catalysts for multicomponent reactions. <i>RSC Advances</i> , 2012 , 2, 16-58	3.7	257
71	Heterogeneous Catalysis for Tandem Reactions. <i>ACS Catalysis</i> , 2014 , 4, 870-891	13.1	250
70	Activated hydrotalcites as catalysts for the synthesis of chalcones of pharmaceutical interest. <i>Journal of Catalysis</i> , 2004 , 221, 474-482	7.3	194
69	Design of synthetic zeolites as catalysts in organic reactions. <i>Applied Catalysis</i> , 1989 , 49, 109-123		142
68	Synthesis of hyacinth, vanilla, and blossom orange fragrances: the benefit of using zeolites and delaminated zeolites as catalysts. <i>Applied Catalysis A: General</i> , 2004 , 263, 155-161	5.1	116
67	Use of delaminated zeolites (ITQ-2) and mesoporous molecular sieves in the production of fine chemicals: Preparation of dimethylacetals and tetrahydropyranlation of alcohols and phenols. <i>Journal of Catalysis</i> , 2000 , 192, 441-447	7.3	94
66	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
65	Design of a solid catalyst for the synthesis of a molecule with blossom orange scent. <i>Green Chemistry</i> , 2002 , 4, 565-569	10	86
64	AcidBase Bifunctional Catalysts for the Preparation of Fine Chemicals: Synthesis of Jasminaldehyde. <i>Journal of Catalysis</i> , 2001 , 197, 385-393	7.3	82
63	Chemicals from Biomass: Chemoselective Reductive Amination of Ethyl Levulinate with Amines. <i>ACS Catalysis</i> , 2015 , 5, 5812-5821	13.1	70
62	Mono- and multisite solid catalysts in cascade reactions for chemical process intensification. <i>ChemSusChem</i> , 2009 , 2, 500-6	8.3	66
61	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

60	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
59	Synthesis of Pseudoionones by Acid and Base Solid Catalysts. <i>Catalysis Letters</i> , 2002 , 79, 157-163	2.8	55
58	Formation and hydrolysis of acetals catalysed by acid Faujasites. <i>Applied Catalysis</i> , 1990 , 59, 333-340		55
57	Gem-diamines as highly active organocatalysts for carbon-carbon bond formation. <i>Journal of Catalysis</i> , 2007 , 246, 136-146	7.3	54
56	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
55	From biomass to chemicals: synthesis of precursors of biodegradable surfactants from 5-hydroxymethylfurfural. <i>ChemSusChem</i> , 2013 , 6, 123-31	8.3	49
54	Zeolites for the Production of Fine Chemicals: Synthesis of the Fructose Fragrance. <i>Journal of Catalysis</i> , 2000 , 196, 345-351	7.3	49
53	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
52	Biomass-derived chemicals: synthesis of biodegradable surfactant ether molecules from hydroxymethylfurfural. <i>ChemSusChem</i> , 2014 , 7, 210-20	8.3	46
51	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
50	Synthesis of methylpseudoionones by activated hydrotalcites as solid base catalysts. <i>Green Chemistry</i> , 2002 , 4, 474-480	10	43
49	One-Pot Selective Catalytic Synthesis of Pyrrolidone Derivatives from Ethyl Levulinate and Nitro Compounds. <i>ChemSusChem</i> , 2017 , 10, 119-128	8.3	41
48	Heteropolycompounds as catalysts for biomass product transformations. <i>Catalysis Reviews - Science and Engineering</i> , 2016 , 58, 497-586	12.6	40
47	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
46	Photosensitization of thymine nucleobase by benzophenone derivatives as models for photoinduced DNA damage: Paterno-Büchi vs energy and electron transfer processes. <i>Chemical Research in Toxicology</i> , 2004 , 17, 857-62	4	39
45	Zeolites in organic reactions: Condensation of formaldehyde with benzene in the presence of HY zeolites. <i>Applied Catalysis</i> , 1989 , 51, 113-125		38
44	Zeolites as catalysts in organic reactions. Claisen-Schmidt condensation of acetophenone with benzaldehyde. <i>Catalysis Letters</i> , 1990 , 4, 85-91	2.8	34
43	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

42	Zeolites as catalysts in organic reactions: Condensation of aldehydes with benzene derivatives. <i>Journal of Catalysis</i> , 1991 , 130, 138-146	7.3	33
41	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
40	Intramolecular interactions in the triplet excited states of benzophenone-thymine dyads. <i>Chemistry - A European Journal</i> , 2005 , 12, 553-61	4.8	29
39	Gas chromatographic-mass spectrometric study of photodegradation of carbamate pesticides. <i>Journal of Chromatography A</i> , 1996 , 738, 225-31	4.5	29
38	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
37	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
36	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
35	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
34	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
33	The long-lived triplet excited state of an elongated ketoprofen derivative and its interactions with amino acids and nucleosides. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8277-82	3.4	20
32	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
31	Transformation of Cellulose into Nonionic Surfactants Using a One-Pot Catalytic Process. <i>ChemSusChem</i> , 2016 , 9, 3492-3502	8.3	17
30	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> , 2014 , 481, 27-38	5.1	16
29	Model studies on a carprofen derivative as dual photosensitizer for thymine dimerization and (6-4) photoproduct repair. <i>ChemBioChem</i> , 2007 , 8, 402-7	3.8	16
28	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
27	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
26	Process Intensification with Bifunctional Heterogeneous Catalysts: Selective One-Pot Synthesis of 2'-Aminochalcones. <i>ACS Catalysis</i> , 2015 , 5, 157-166	13.1	14
25	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

24	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
23	Aluminophosphates Oxynitrides as Base Catalysts for the Production of Dicyanomethylene Derivative Dyes. <i>Catalysis Letters</i> , 2001 , 74, 161-167	2.8	14
22	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
21	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
20	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
19	Preparation of glycerol carbonate esters by using hybrid Nafion-silica catalyst. <i>ChemSusChem</i> , 2013 , 6, 1224-34	8.3	11
18	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
17	Hydride transfer reactions of benzylic alcohols catalyzed by acid faujasites. <i>Recueil Des Travaux Chimiques Des Pays-Bas</i> , 2010 , 110, 275-278		11
16	Photogeneration of 2-deoxyribonolactone in benzophenone-purine dyads. Formation of ketyl-C1' biradicals. <i>Organic Letters</i> , 2008 , 10, 4409-12	6.2	11
15	Transforming Methyl Levulinate into Biosurfactants and Biolubricants by Chemoselective Reductive Etherification with Fatty Alcohols. <i>ChemSusChem</i> , 2020 , 13, 707-714	8.3	11
14	Synthesis of a hybrid Pd0/Pd-carbide/carbon catalyst material with high selectivity for hydrogenation reactions. <i>Journal of Catalysis</i> , 2020 , 389, 706-713	7.3	7
13	Covalent Immobilization of Naringinase over Two-Dimensional 2D Zeolites and its Applications in a Continuous Process to Produce Citrus Flavonoids and for Debitting of Juices. <i>ChemCatChem</i> , 2020 , 12, 4502-4511	5.2	7
12	Zeolites as Catalysts for the Synthesis of Fine Chemicals 2010 , 775-826		6
11	Stereo-differentiation in the excited state behaviour of naphthalene-thymine dyads. <i>Chemical Communications</i> , 2005 , 2572-4	5.8	6
10	Singlet excited-state interactions in naphthalene-thymine dyads. <i>ChemPhysChem</i> , 2004 , 5, 1704-9	3.2	6
9	Novel photoreactions of chromene derivatives. The photolysis of 4-acetoxy-2-chromene.. <i>Tetrahedron</i> , 1987 , 43, 999-1002	2.4	6
8	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
7	Erratum to Gas chromatographic-mass spectrometric study of photodegradation of carbamate pesticides[J. Chromatogr. A, 738 (1996) 225-31]. <i>Journal of Chromatography A</i> , 1997 , 761, 341	4.5	2

- 6 Photochemistry of a naphthalene-thymine dyad in the presence of acetone. *Tetrahedron*, **2006**, 62, 1372-1377 2
- 5 Photolysis of 4-acetoxychromene adsorbed onto an Fe³⁺ - exchanged sepiolite. *Journal of Photochemistry and Photobiology A: Chemistry*, **1991**, 59, 379-383 4.7 2
- 4 Bimetallic CuFe nanoparticles as active and stable catalysts for chemoselective hydrogenation of biomass-derived platform molecules. *Catalysis Science and Technology*, **2021**, 11, 3353-3363 5.5 2
- 3 Use of Mesoporous Molecular Sieves in the Production of Fine Chemicals: Preparation of Dihydroquinolinones of Pharmaceutical Interest From 2?-Aminochalcones. *ChemCatChem*, **2016**, 8, 1335-1345 5.3 1
- 2 A Career in Catalysis: Avelino Corma. *ACS Catalysis*, 7054-7123 13.1 1
- 1 Biomass Processing via Base Catalysis **2021**, 57-80