

Inaki Gandarias

List of Publications by Year in descending order

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35
papers

2,520
citations

201674

27
h-index

414414

32
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36
all docs

36
docs citations

36
times ranked

2817
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous acid-catalysts for the production of furan-derived compounds (furfural and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 TTS	7.4	238
2	Hydrogenolysis of glycerol to propanediols over a Pt/ASA catalyst: The role of acid and metal sites on product selectivity and the reaction mechanism. Applied Catalysis B: Environmental, 2010, 97, 248-256.	20.2	198
3	Hydrodeoxygenation of the Angelica Lactone Dimer, a Cellulose-Based Feedstock: Simple, High-Yield Synthesis of Branched C ₇ -C ₁₀ Gasoline-Like Hydrocarbons. Angewandte Chemie - International Edition, 2014, 53, 1854-1857.	13.8	179
4	Liquid-phase glycerol hydrogenolysis by formic acid over Ni-Cu/Al ₂ O ₃ catalysts. Journal of Catalysis, 2012, 290, 79-89.	6.2	159
5	New approaches to the Pt/WO ₃ /Al ₂ O ₃ catalytic system behavior for the selective glycerol hydrogenolysis to 1,3-propanediol. Journal of Catalysis, 2015, 323, 65-75.	6.2	142
6	Glycerol hydrogenolysis into propanediols using in situ generated hydrogen - A critical review. European Journal of Lipid Science and Technology, 2013, 115, 9-27.	1.5	135
7	Eutectic mixtures of sugar alcohols for thermal energy storage in the 50-90°C temperature range. Solar Energy Materials and Solar Cells, 2015, 134, 215-226.	6.2	121
8	The role of tungsten oxide in the selective hydrogenolysis of glycerol to 1,3-propanediol over Pt/WO _x /Al ₂ O ₃ . Applied Catalysis B: Environmental, 2017, 204, 260-272.	20.2	119
9	Liquid-phase glycerol hydrogenolysis to 1,2-propanediol under nitrogen pressure using 2-propanol as hydrogen source. Journal of Catalysis, 2011, 282, 237-247.	6.2	115
10	A comparison of sol-gel and impregnated Pt or/and Ni based γ-alumina catalysts for bioglycerol aqueous phase reforming. Applied Catalysis B: Environmental, 2012, 125, 516-529.	20.2	97
11	Hydrogenolysis through catalytic transfer hydrogenation: Glycerol conversion to 1,2-propanediol. Catalysis Today, 2012, 195, 22-31.	4.4	91
12	One-Pot 2-Methyltetrahydrofuran Production from Levulinic Acid in Green Solvents Using Ni-Cu/Al ₂ O ₃ Catalysts. ChemSusChem, 2015, 8, 3483-3488.	6.8	81
13	Deactivation study of the Pt and/or Ni-based γ-Al ₂ O ₃ catalysts used in the aqueous phase reforming of glycerol for H ₂ production. Applied Catalysis A: General, 2014, 472, 80-91.	4.3	71
14	From biomass to fuels: Hydrotreating of oxygenated compounds. International Journal of Hydrogen Energy, 2008, 33, 3485-3488.	7.1	68
15	Oxidation of lignocellulosic platform molecules to value-added chemicals using heterogeneous catalytic technologies. Catalysis Science and Technology, 2020, 10, 2721-2757.	4.1	60
16	Unraveling the Role of Formic Acid and the Type of Solvent in the Catalytic Conversion of Lignin: A Holistic Approach. ChemSusChem, 2017, 10, 754-766.	6.8	59
17	Thermocatalytic conversion of lignin in an ethanol/formic acid medium with NiMo catalysts: Role of the metal and acid sites. Applied Catalysis B: Environmental, 2017, 217, 353-364.	20.2	58
18	Production of furfural from pentosan-rich biomass: Analysis of process parameters during simultaneous furfural stripping. Bioresource Technology, 2013, 143, 258-264.	9.6	57

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19	The Role of the Hydrogen Source on the Selective Production of γ -Valerolactone and 2-Methyltetrahydrofuran from Levulinic Acid. <i>ChemSusChem</i> , 2016, 9, 2488-2495.	6.8	56
20	Bioethanol/glycerol mixture steam reforming over Pt and PtNi supported on lanthana or ceria doped alumina catalysts. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8298-8309.	7.1	55
21	Structure-activity relationships of Ni-Cu/Al ₂ O ₃ catalysts for γ -valerolactone conversion to 2-methyltetrahydrofuran. <i>Applied Catalysis B: Environmental</i> , 2017, 210, 328-341.	20.2	54
22	Gas reactions under intrapore condensation regime within tailored metal-organic framework catalysts. <i>Nature Communications</i> , 2019, 10, 2076.	12.8	45
23	Physicochemical Study of Glycerol Hydrogenolysis Over a Ni-Cu/Al ₂ O ₃ Catalyst Using Formic Acid as the Hydrogen Source. <i>Topics in Catalysis</i> , 2013, 56, 995-1007.	2.8	41
24	Influence of the Support of Bimetallic Platinum Tungstate Catalysts on 1,3-Propanediol Formation from Glycerol. <i>ChemCatChem</i> , 2017, 9, 4508-4519.	3.7	38
25	Production of 2-methylfuran from biomass through an integrated biorefinery approach. <i>Fuel Processing Technology</i> , 2018, 178, 336-343.	7.2	32
26	Selective Oxidation of n-Butanol Using Gold-Palladium Supported Nanoparticles Under Base-Free Conditions. <i>ChemSusChem</i> , 2015, 8, 473-480.	6.8	28
27	The selective oxidation of n-butanol to butyraldehyde by oxygen using stable Pt-based nanoparticulate catalysts: an efficient route for upgrading aqueous biobutanol. <i>Catalysis Science and Technology</i> , 2016, 6, 4201-4209.	4.1	23
28	Process design and techno-economic analysis of gas and aqueous phase maleic anhydride production from biomass-derived furfural. <i>Biomass Conversion and Biorefinery</i> , 2020, 10, 1021-1033.	4.6	23
29	Solvent and catalyst effect in the formic acid aided lignin-to-liquids. <i>Bioresource Technology</i> , 2018, 270, 529-536.	9.6	18
30	Hydrotreating Catalytic Processes for Oxygen Removal in the Upgrading of Bio-Oils and Bio-Chemicals. , 2013, , .		11
31	Insights into the Nature of the Active Sites of Pt-WO _x /Al ₂ O ₃ Catalysts for Glycerol Hydrogenolysis into 1,3-Propanediol. <i>Catalysts</i> , 2021, 11, 1171.	3.5	8
32	Integrated Environmental and Exergoeconomic Analysis of Biomass-Derived Maleic Anhydride. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	6
33	2-Methyl Tetrahydrofuran (MTHF) and its Use as Biofuel. <i>Sustainable Chemistry Series</i> , 2018, , 137-155.	0.1	0
34	2-Methyl Furan and Derived Biofuels. <i>Sustainable Chemistry Series</i> , 2018, , 111-136.	0.1	0
35	INTRODUCING SUSTAINABILITY AND THE AGENDA 2030 IN ENGINEERING DEGREES THROUGH THE RESEARCH BASED LEARNING METHODOLOGY. , 2020, , .		0