Ignacio V MeliÃ;n-Cabrera

List of Publications by Year in descending order

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79 papers

3,708 citations

172207 29 h-index 60 g-index

87 all docs 87 docs citations

87 times ranked 4274 citing authors

#	Article	lF	Citations
1	Corrigendum to "On the drug adsorption capacity of SBA-15 obtained from various detemplation protocols―[Mater. Lett. 131 (2014) 186–189]. Materials Letters, 2022, 309, 131425.	1.3	О
2	Selectivity-induced conversion model explaining the coke-catalysed O2-mediated styrene synthesis over wide-pore aluminas. Molecular Catalysis, 2022, 524, 112301.	1.0	0
3	A Simplified Kinetic Model for the Enantioselective Hydrogenation of 1-Phenyl-1,2-Propanedione over Ir/TiO ₂ in the Presence of a Chiral Additive. Industrial & Engineering Chemistry Research, 2022, 61, 6052-6056.	1.8	O
4	A note on the acid strength of porous materials assessed by thermal methods. Microporous and Mesoporous Materials, 2021, 310, 110638.	2.2	5
5	On the geometric trajectories of pores during the thermal sintering of relevant catalyst supports. Scripta Materialia, 2021, 194, 113679.	2.6	6
6	The Brunauer–Emmett–Teller model on alumino-silicate mesoporous materials. How far is it from the true surface area?. Microporous and Mesoporous Materials, 2021, 319, 111065.	2.2	11
7	Complex Crystallization Kinetics of a Mg–Al Hydrotalcite and Their Practical Implications from the Process Point of View. Industrial & Engineering Chemistry Research, 2021, 60, 11848-11854.	1.8	1
8	Catalytic Materials: Concepts to Understand the Pathway to Implementation. Industrial & Engineering Chemistry Research, 2021, 60, 18545-18559.	1.8	25
9	Solvent Additive-Induced Deactivation of the Cu–ZnO(Al2O3)-Catalyzed γ-Butyrolactone Hydrogenolysis: A Rare Deactivation Process. Industrial & Engineering Chemistry Research, 2021, 60, 15999-16010.	1.8	4
10	Temperature control in DRIFT cells used for in situ and operando studies: where do we stand today?. Physical Chemistry Chemical Physics, 2020, 22, 26088-26092.	1.3	3
11	Process Intensification of Mesoporous Material's Synthesis by Microwave-Assisted Surfactant Removal. ACS Sustainable Chemistry and Engineering, 2020, 8, 16814-16822.	3.2	5
12	Reactant Additive-Triggered Deactivation of Pd∫î³-Alumina-Catalyzed Hydrogenation Reactions. A Reactivity and Adsorption Study. Industrial & Engineering Chemistry Research, 2020, 59, 17762-17768.	1.8	2
13	Pd-modified beta zeolite for modulated hydro-cracking of low-density polyethylene into a paraffinic-rich hydrocarbon fuel. Applied Catalysis B: Environmental, 2020, 277, 119070.	10.8	37
14	Fundamental Catalysis and Engineering Challenges in Energy Harvesting. Industrial & Engineering Chemistry Research, 2019, 58, 17615-17620.	1.8	1
15	Improved Catalytic Technology for Waste Plastic Processing: Toward Novel Remediation and Emission Control Measures. ACS Sustainable Chemistry and Engineering, 2019, 7, 129-133.	3.2	7
16	Recovering waste plastics using shape-selective nano-scale reactors as catalysts. Nature Sustainability, 2019, 2, 39-42.	11.5	53
17	Novel reactivation allows effective reuse of Nafion $\hat{A}^{@}$ super-acid nano-catalyst. Applied Catalysis A: General, 2019, 569, 134-140.	2.2	5
18	Operando Study Reveals the Superior Cracking Activity and Stability of Hierarchical ZSMâ€5 Catalyst for the Cracking of Lowâ€Density Polyethylene. ChemSusChem, 2019, 12, 633-638.	3.6	23

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19	Mild Upgrading of Bioâ€Crude Pyrolysis Oil: A Concept Based on Bioâ€Based Alcohols with Selective Water Adsorption. Energy Technology, 2018, 6, 1209-1213.	1.8	2
20	Overcoming the Engineering Constraints for Scaling-Up the State-of-the-Art Catalyst for Tail-Gas N ₂ O Decomposition. Industrial & Engineering Chemistry Research, 2018, 57, 939-945.	1.8	8
21	An $\langle i \rangle$ in situ $\langle i \rangle$ reactivation study reveals the supreme stability of \hat{i}^3 -alumina for the oxidative dehydrogenation of ethylbenzene to styrene. Catalysis Science and Technology, 2018, 8, 3733-3736.	2.1	9
22	Advanced oxidation process for coke removal: A systematic study of hydrogen peroxide and OH-derived-Fenton radicals of a fouled zeolite. Applied Catalysis A: General, 2018, 562, 215-222.	2.2	20
23	Acidity and accessibility studies of desilicated ZSM-5 zeolites in terms of their effectiveness as catalysts in acid-catalyzed cracking processes. Catalysis Science and Technology, 2017, 7, 858-873.	2.1	78
24	Tail gas catalyzed N2O decomposition over Fe-beta zeolite. On the promoting role of framework connected AlO6 sites in the vicinity of Fe by controlled dealumination during exchange. Applied Catalysis B: Environmental, 2017, 203, 218-226.	10.8	21
25	Thermal stability of porous sol-gel phosphosilicates and their surface area stabilisation by lanthanum addition. Materials Letters, 2016, 178, 91-94.	1.3	1
26	On the thermal stabilization of carbon-supported SiO2 catalysts by phosphorus: Evaluation in the oxidative dehydrogenation of ethylbenzene to styrene and a comparison with relevant catalysts. Applied Catalysis A: General, 2016, 514, 173-181.	2.2	11
27	On the hydrothermal stability of MCM-41. Evidence of capillary tension-induced effects. Microporous and Mesoporous Materials, 2016, 220, 88-98.	2.2	17
28	Protocol optimization for the mild detemplation of mesoporous silica nanoparticles resulting in enhanced texture and colloidal stability. Microporous and Mesoporous Materials, 2016, 220, 110-119.	2.2	5
29	Fenton chemistry-based detemplation of an industrially relevant microcrystalline beta zeolite. Optimization and scaling-up studies. Microporous and Mesoporous Materials, 2015, 206, 58-66.	2.2	7
30	Silica promoted self-assembled mesoporous aluminas. Impact of the silica precursor on the structural, textural and acidic properties. Catalysis Today, 2015, 250, 115-122.	2.2	7
31	CO2 absorption into aqueous amine blended solutions containing monoethanolamine (MEA), N,N-dimethylethanolamine (DMEA), N,N-diethylethanolamine (DEEA) and 2-amino-2-methyl-1-propanol (AMP) for post-combustion capture processes. Chemical Engineering Science, 2015, 126, 446-454.	1.9	119
32	Modifying the Hierarchical Porosity of SBA-15 via Mild-Detemplation Followed by Secondary Treatments. Journal of Physical Chemistry C, 2014, 118, 28689-28698.	1.5	13
33	An efficient one pot conversion of glycerol to lactic acid using bimetallic gold-platinum catalysts on a nanocrystalline CeO2 support. Applied Catalysis B: Environmental, 2014, 147, 92-100.	10.8	178
34	Application of staged O2 feeding in the oxidative dehydrogenation of ethylbenzene to styrene over Al2O3 and P2O5/SiO2 catalysts. Applied Catalysis A: General, 2014, 476, 204-214.	2.2	18
35	Baseâ€Free, Oneâ€Pot Chemocatalytic Conversion of Glycerol to Methyl Lactate using Supported Gold Catalysts. ChemSusChem, 2014, 7, 1140-1147.	3.6	42
36	A hydrothermally stable transition alumina by condensation-enhanced self-assembly and pyrolysis crystallization: application in the steam reforming of methane. CrystEngComm, 2014, 16, 6775-6783.	1.3	6

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37	Coke formation in the oxidative dehydrogenation of ethylbenzene to styrene by TEOM. Catalysis Science and Technology, 2014, 4, 3879-3890.	2.1	11
38	Exploratory Catalyst Screening Studies on the Base Free Conversion of Glycerol to Lactic Acid and Glyceric Acid in Water Using Bimetallic Au–Pt Nanoparticles on Acidic Zeolites. Topics in Catalysis, 2014, 57, 1445-1453.	1.3	29
39	Hot-spots during the calcination of MCM-41: A SAXS comparative analysis of a soft mesophase. Materials Letters, 2014, 118, 51-54.	1.3	6
40	Making coke a more efficient catalyst in the oxidative dehydrogenation of ethylbenzene using wide-pore transitional aluminas. Journal of Molecular Catalysis A, 2014, 381, 179-187.	4.8	29
41	On the drug adsorption capacity of SBA-15 obtained from various detemplation protocols. Materials Letters, 2014, 131, 186-189.	1.3	10
42	On the stability of conventional and nano-structured carbon-based catalysts in the oxidative dehydrogenation of ethylbenzene under industrially relevant conditions. Carbon, 2014, 77, 329-340.	5.4	24
43	Thermal detemplation of SBA-15 mesophases. Effect of the activation protocol on the framework contraction. Microporous and Mesoporous Materials, 2013, 176, 103-111.	2.2	14
44	Detemplation of soft mesoporous silica nanoparticles with structural preservation. Journal of Materials Chemistry A, 2013 , 1 , 4747 .	5.2	17
45	Condensation-Enhanced Self-Assembly as a Route to High Surface Area α-Aluminas. Chemistry of Materials, 2013, 25, 3971-3978.	3.2	25
46	Oxidative dehydrogenation of ethylbenzene to styrene over alumina: effect of calcination. Catalysis Science and Technology, 2013, 3, 519-526.	2.1	28
47	Direct activation of microcrystalline zeolites. Microporous and Mesoporous Materials, 2013, 171, 208-214.	2.2	9
48	Stabilization of Self-Assembled Alumina Mesophases. Chemistry of Materials, 2013, 25, 848-855.	3.2	40
49	Catalyst studies on the ring opening of tetrahydrofuran–dimethanol to 1,2,6-hexanetriol. Catalysis Today, 2013, 210, 106-116.	2.2	67
50	Catalytic hydrotreatment of fast pyrolysis oil using bimetallic Ni–Cu catalysts on various supports. Applied Catalysis A: General, 2012, 449, 121-130.	2.2	121
51	The oxidative esterification of glycerol to methyl glycerate in methanol using gold on oxidic supports: an insight in product selectivity. Green Chemistry, 2012, 14, 2031.	4.6	21
52	From 5-Hydroxymethylfurfural (HMF) to Polymer Precursors: Catalyst Screening Studies on the Conversion of 1,2,6-hexanetriol to 1,6-hexanediol. Topics in Catalysis, 2012, 55, 612-619.	1.3	100
53	Caprolactam from Renewable Resources: Catalytic Conversion of 5â€Hydroxymethylfurfural into Caprolactone. Angewandte Chemie - International Edition, 2011, 50, 7083-7087.	7.2	409
54	Catalyst studies on the hydrotreatment of fast pyrolysis oil. Applied Catalysis B: Environmental, 2010, 99, 298-306.	10.8	162

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55	Insights in the hydrotreatment of fast pyrolysis oil using a ruthenium on carbon catalyst. Energy and Environmental Science, 2010, 3, 962.	15.6	149
56	Fenton detemplation of ordered (meso)porous materials. Studies in Surface Science and Catalysis, 2007, 170, 648-654.	1.5	5
57	Biomass to Fuels. Chemical Engineering Research and Design, 2007, 85, 466-472.	2.7	112
58	Alkaline leaching for synthesis of improved Fe-ZSM5 catalysts. Catalysis Communications, 2006, 7, 100-103.	1.6	20
59	Tooling up Heterogeneous Catalysis through Fenton's Chemistry. Detemplation and functionalization of micro- And mesoporous materials Studies in Surface Science and Catalysis, 2006, 162, 37-46.	1.5	1
60	Utilizing full-exchange capacity of zeolites by alkaline leaching: Preparation of Fe-ZSM5 and application in N2O decomposition. Journal of Catalysis, 2006, 238, 250-259.	3.1	108
61	Synergy of FexCe1â^'xO2 mixed oxides for N2O decomposition. Journal of Catalysis, 2006, 239, 340-346.	3.1	177
62	Oxidation of o-xylene on mesoporous Ti-phosphate-supported VOx catalysts and promoter effect of K+ on selectivity. Catalysis Today, 2005, 99, 179-186.	2.2	12
63	Innovations in the synthesis of Fe-(exchanged)-zeolites. Catalysis Today, 2005, 110, 255-263.	2.2	27
64	Synergy between metals in bimetallic zeolite supported catalyst for NO-promoted N2O decomposition. Catalysis Letters, 2005, 99, 41-44.	1.4	37
65	Ion exchanged Fe-FER through H2O2-assisted decomplexation of organic salts. Chemical Communications, 2005, , 1525-1527.	2.2	11
66	Room temperature detemplation of zeolites through H2O2-mediated oxidation. Chemical Communications, 2005, , 2744.	2.2	12
67	One-pot catalyst preparation: combined detemplating and Fe ion-exchange of BEA through Fenton's chemistry. Chemical Communications, 2005, , 2178-2180.	2.2	30
68	Highly active and stable ion-exchanged Fe–Ferrierite catalyst for N2O decomposition under nitric acid tail gas conditions. Catalysis Communications, 2005, 6, 301-305.	1.6	49
69	Production of hydrogen from methanol over Cu/ZnO catalysts promoted by ZrO2 and Al2O3. Journal of Catalysis, 2003, 219, 389-403.	3.1	364
70	Production of hydrogen from methanol over binary Cu/ZnO catalysts. Applied Catalysis A: General, 2003, 253, 201-211.	2.2	98
71	Bulk and Surface Structures of Palladium-Modified Copperâ ² Zinc OxidesexHydroxycarbonate Precursors. Chemistry of Materials, 2002, 14, 1863-1872.	3.2	6
72	Thermal decomposition of a hydrotalcite-containing Cu–Zn–Al precursor: thermal methods combined with an in situ DRIFT study. Physical Chemistry Chemical Physics, 2002, 4, 3122-3127.	1.3	47

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73	Liquid phase hydrogenation of crotonaldehyde over bimetallic Rh-Sn/SiO2 catalysts. Applied Catalysis A: General, 2002, 233, 183-196.	2.2	47
74	Interfacial Properties of an Ir/TiO2 System and Their Relevance in Crotonaldehyde Hydrogenation. Journal of Catalysis, 2002, 208, 229-237.	3.1	67
7 5	Reverse Topotactic Transformation of a Cu?Zn?Al Catalyst during Wet Pd Impregnation: Relevance for the Performance in Methanol Synthesis from CO2/H2 Mixtures. Journal of Catalysis, 2002, 210, 273-284.	3.1	119
76	Pd-Modified Cu?Zn Catalysts for Methanol Synthesis from CO2/H2 Mixtures: Catalytic Structures and Performance. Journal of Catalysis, 2002, 210, 285-294.	3.1	116
77	Title is missing!. Catalysis Letters, 2002, 79, 165-170.	1.4	56
78	Title is missing!. Catalysis Letters, 2002, 84, 153-161.	1.4	17
79	CO2 hydrogenation over Pd-modified methanol synthesis catalysts. Catalysis Today, 1998, 45, 251-256.	2.2	60