

Katia Barbera

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8651895/publications.pdf>

Version: 2024-02-01

23
papers

2,261
citations

430874

18
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization and activity pattern of Cu-ZnO/ZrO ₂ catalysts in the hydrogenation of carbon dioxide to methanol. <i>Journal of Catalysis</i> , 2007, 249, 185-194.	6.2	468
2	Solid-state interactions, adsorption sites and functionality of Cu-ZnO/ZrO ₂ catalysts in the CO ₂ hydrogenation to CH ₃ OH. <i>Applied Catalysis A: General</i> , 2008, 350, 16-23.	4.3	367
3	Structure-deactivation relationship for ZSM-5 catalysts governed by framework defects. <i>Journal of Catalysis</i> , 2011, 280, 196-205.	6.2	265
4	Catalyst deactivation by coke formation in microporous and desilicated zeolite H-ZSM-5 during the conversion of methanol to hydrocarbons. <i>Journal of Catalysis</i> , 2013, 307, 62-73.	6.2	169
5	Conversion of methanol over 10-ring zeolites with differing volumes at channel intersections: comparison of TNU-9, IM-5, ZSM-11 and ZSM-5. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2539-2549.	2.8	137
6	Synthesis, Characterization, and Activity Pattern of Ni-Al Hydrotalcite Catalysts in CO ₂ Methanation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 8299-8308.	3.7	133
7	Basic evidences for methanol-synthesis catalyst design. <i>Catalysis Today</i> , 2009, 143, 80-85.	4.4	119
8	How defects and crystal morphology control the effects of desilication. <i>Catalysis Today</i> , 2011, 168, 38-47.	4.4	103
9	The role of acid sites induced by defects in the etherification of HMF on Silicalite-1 catalysts. <i>Journal of Catalysis</i> , 2015, 330, 558-568.	6.2	72
10	Disruptive catalysis by zeolites. <i>Catalysis Science and Technology</i> , 2016, 6, 2485-2501.	4.1	68
11	The role of oxide location in HMF etherification with ethanol over sulfated ZrO ₂ supported on SBA-15. <i>Journal of Catalysis</i> , 2015, 323, 19-32.	6.2	59
12	Operando Raman spectroscopy applying novel fluidized bed micro-reactor technology. <i>Catalysis Today</i> , 2013, 205, 128-133.	4.4	45
13	Low-temperature graphitization of amorphous carbon nanospheres. <i>Chinese Journal of Catalysis</i> , 2014, 35, 869-876.	14.0	43
14	Comparison of H ⁺ and NH ₄ ⁺ forms of zeolites as acid catalysts for HMF etherification. <i>Catalysis Today</i> , 2018, 304, 97-102.	4.4	36
15	On the nature of the active sites in the selective oxidative esterification of furfural on Au/ZrO ₂ catalysts. <i>Catalysis Today</i> , 2016, 278, 56-65.	4.4	31
16	Role of internal coke for deactivation of ZSM-5 catalysts after low temperature removal of coke with NO ₂ . <i>Catalysis Science and Technology</i> , 2012, 2, 1196.	4.1	30
17	Carbon growth evidences as a result of benzene pyrolysis. <i>Carbon</i> , 2013, 59, 296-307.	10.3	30
18	Onion-Like Graphene Carbon Nanospheres as Stable Catalysts for Carbon Monoxide and Methane Chlorination. <i>ChemCatChem</i> , 2015, 7, 3036-3046.	3.7	19

#	ARTICLE	IF	CITATIONS
19	HMF etherification using NH ₄ -exchanged zeolites. <i>New Journal of Chemistry</i> , 2016, 40, 4300-4306.	2.8	18
20	By-product co-feeding reveals insights into the role of zinc on methanol synthesis catalysts. <i>Catalysis Communications</i> , 2012, 21, 63-67.	3.3	15
21	Role of size and pretreatment of Pd particles on their behaviour in the direct synthesis of H ₂ O ₂ . <i>Journal of Energy Chemistry</i> , 2016, 25, 297-305.	12.9	13
22	Etherification of HMF to biodiesel additives: The role of NH ₄ ⁺ confinement in Beta zeolites. <i>Journal of Energy Chemistry</i> , 2019, 36, 114-121.	12.9	13
23	Role of Phosphate Species and Speciation Kinetics in Detergency Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4173-4180.	3.7	8