

Cristina Martinez

List of Publications by Year in descending order

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59
papers

4,488
citations

126907

33
h-index

123424

61
g-index

64
all docs

64
docs citations

64
times ranked

3861
citing authors

#	ARTICLE	IF	CITATIONS
1	Inorganic molecular sieves: Preparation, modification and industrial application in catalytic processes. Coordination Chemistry Reviews, 2011, 255, 1558-1580.	18.8	583
2	High-throughput synthesis and catalytic properties of a molecular sieve with 18- and 10-member rings. Nature, 2006, 443, 842-845.	27.8	473
3	Multipore Zeolites: Synthesis and Catalytic Applications. Angewandte Chemie - International Edition, 2015, 54, 3560-3579.	13.8	296
4	Synthesis Strategies for Preparing Useful Small Pore Zeolites and Zeotypes for Gas Separations and Catalysis. Chemistry of Materials, 2014, 26, 246-258.	6.7	267
5	Enzyme-like Specificity in Zeolites: A Unique Site Position in Mordenite for Selective Carbonylation of Methanol and Dimethyl Ether with CO. Journal of the American Chemical Society, 2008, 130, 16316-16323.	13.7	266
6	Structure and catalytic properties of the most complex intergrown zeolite ITQ-39 determined by electron crystallography. Nature Chemistry, 2012, 4, 188-194.	13.6	178
7	Mechanistic differences between methanol and dimethyl ether carbonylation in side pockets and large channels of mordenite. Physical Chemistry Chemical Physics, 2011, 13, 2603.	2.8	151
8	Acidic Cs ⁺ , NH ₄ ⁺ , and K ⁺ Salts of 12-Tungstophosphoric Acid as Solid Catalysts for Isobutane/2-butene Alkylation. Journal of Catalysis, 1996, 164, 422-432.	6.2	132
9	Isobutane/2-butene alkylation on ultrastable Y zeolites: Influence of zeolite unit cell size. Journal of Catalysis, 1994, 146, 185-192.	6.2	120
10	A comparative study of O ₄ ZrO ₂ and zeolite beta as catalysts for the isomerization of n-butane and the alkylation of isobutane with 2-butene. Applied Catalysis A: General, 1994, 111, 175-189.	4.3	110
11	Influence of Process Variables on the Continuous Alkylation of Isobutane with 2-Butene on Superacid Sulfated Zirconia Catalysts. Journal of Catalysis, 1994, 149, 52-60.	6.2	108
12	Activation and conversion of alkanes in the confined space of zeolite-type materials. Chemical Society Reviews, 2021, 50, 8511-8595.	38.1	87
13	Designing MEL-based catalysts with improved catalyst life for C_3 alkylation. Journal of Catalysis, 2013, 300, 183-196.	6.2	83
14	On the mechanism of sulfur removal during catalytic cracking. Applied Catalysis A: General, 2001, 208, 135-152.	4.3	82
15	High-silica nanocrystalline Beta zeolites: efficient synthesis and catalytic application. Chemical Science, 2016, 7, 102-108.	7.4	82
16	Synthesis methodology, stability, acidity, and catalytic behavior of the 18Å–10 member ring pores ITQ-33 zeolite. Journal of Catalysis, 2008, 254, 101-109.	6.2	78
17	Isobutane/2-butene alkylation on MCM-22 catalyst. Influence of zeolite structure and acidity on activity and selectivity. Catalysis Letters, 1994, 28, 187-201.	2.6	77
18	Direct Dual-Template Synthesis of MWW Zeolite Monolayers. Angewandte Chemie - International Edition, 2015, 54, 13724-13728.	13.8	77

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19	Influence of layer structure preservation on the catalytic properties of the pillared zeolite MCM-36. <i>Journal of Catalysis</i> , 2010, 272, 298-308.	6.2	72
20	The effect of sulfation conditions and activation temperature of sulfate-doped ZrO ₂ , TiO ₂ and SnO ₂ catalysts during isobutane/2-butene alkylation. <i>Applied Catalysis A: General</i> , 1996, 144, 249-268.	4.3	70
21	Discovery of a new catalytically active and selective zeolite (ITQ-30) by high-throughput synthesis techniques. <i>Journal of Catalysis</i> , 2006, 241, 312-318.	6.2	67
22	Stabilized hierarchical USY zeolite catalysts for simultaneous increase in diesel and LPG olefinicity during catalytic cracking. <i>Catalysis Science and Technology</i> , 2013, 3, 972.	4.1	64
23	The role of extraframework aluminum species in USY catalysts during isobutane/2-butene alkylation. <i>Applied Catalysis A: General</i> , 1996, 134, 169-182.	4.3	59
24	Non-oxidative dehydroaromatization of methane: an effective reaction-regeneration cyclic operation for catalyst life extension. <i>Catalysis Science and Technology</i> , 2015, 5, 3806-3821.	4.1	55
25	The benefit of multipore zeolites: Catalytic behaviour of zeolites with intersecting channels of different sizes for alkylation reactions. <i>Journal of Catalysis</i> , 2009, 268, 9-17.	6.2	54
26	The Use of ITQ-7 as a FCC Zeolitic Additive. <i>Journal of Catalysis</i> , 2001, 197, 151-159.	6.2	50
27	New materials as FCC active matrix components for maximizing diesel (light cycle oil, LCO) and minimizing its aromatic content. <i>Catalysis Today</i> , 2007, 127, 3-16.	4.4	46
28	Direct Synthesis of Nano-Ferrierite along the 10-Ring Channel Direction Boosts Their Catalytic Behavior. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3459-3463.	13.8	46
29	Efficient Oligomerization of Pentene into Liquid Fuels on Nanocrystalline Beta Zeolites. <i>ACS Catalysis</i> , 2017, 7, 6170-6178.	11.2	43
30	A fluoride-catalyzed sol-gel route to catalytically active non-ordered mesoporous silica materials in the absence of surfactants. <i>Journal of Materials Chemistry</i> , 2005, 15, 1742.	6.7	39
31	Simple organic structure directing agents for synthesizing nanocrystalline zeolites. <i>Chemical Science</i> , 2017, 8, 8138-8149.	7.4	38
32	One-pot synthesis of nano-crystalline MCM-22. <i>Microporous and Mesoporous Materials</i> , 2016, 220, 28-38.	4.4	36
33	A new continuous laboratory reactor for the study of catalytic cracking. <i>Applied Catalysis A: General</i> , 2002, 232, 247-263.	4.3	33
34	Structure-reactivity relationship for aromatics transalkylation and isomerization process with TNU-9, MCM-22 and ZSM-5 zeolites, and their industrial implications. <i>Applied Catalysis A: General</i> , 2011, 393, 257-268.	4.3	31
35	Propene Production by Butene Cracking. Descriptors for Zeolite Catalysts. <i>ACS Catalysis</i> , 2020, 10, 11878-11891.	11.2	31
36	Synthesis and catalytic properties of thermally and hydrothermally stable, high-surface-area SiO ₂ -CeO ₂ mesostructured composite materials and their application for the removal of sulfur compounds from gasoline. <i>Journal of Catalysis</i> , 2004, 224, 441-448.	6.2	30

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37	Improved THETA-1 for Light Olefins Oligomerization to Diesel: Influence of Textural and Acidic Properties. Topics in Catalysis, 2014, 57, 668-682.	2.8	29
38	Control of the Reaction Mechanism of Alkylaromatics Transalkylation by Means of Molecular Confinement Effects Associated to Zeolite Channel Architecture. ACS Catalysis, 2019, 9, 5935-5946.	11.2	29
39	Superparamagnetic particles in ZSM-5 type ferrisilicates. Journal of Materials Research, 1997, 12, 1519-1529.	2.6	25
40	Dilution effect of the feed on yield of olefins during catalytic cracking of vacuum gas oil. Applied Catalysis A: General, 2002, 230, 111-125.	4.3	24
41	Iron oxide particles in large pore zeolites. Journal of Magnetism and Magnetic Materials, 1996, 157-158, 272-273.	2.3	22
42	ZSM-5/SBA-15 versus Al-SBA-15 as supports for the hydrocracking/hydroisomerization of alkanes. Catalysis Today, 2018, 306, 121-127.	4.4	21
43	Influencing the activity and selectivity of alkylaromatic catalytic transformations by varying the degree of delamination in MWW zeolites. Catalysis Science and Technology, 2016, 6, 3166-3181.	4.1	18
44	Increasing the stability of the Ge-containing extra-large pore ITQ-33 zeolite by post-synthetic acid treatments. Microporous and Mesoporous Materials, 2018, 267, 35-42.	4.4	18
45	Influence of boron promotion on the physico-chemical properties and catalytic behavior of Zn/ZSM-5 in the aromatization of n-hexane. Catalysis Today, 2021, 366, 97-102.	4.4	16
46	CO ₂ hydrogenation using bifunctional catalysts based on K-promoted iron oxide and zeolite: influence of the zeolite structure and crystal size. Catalysis Science and Technology, 2020, 10, 5648-5658.	4.1	15
47	Nanosized MCM-22 zeolite using simple non-surfactant organic growth modifiers: synthesis and catalytic applications. Chemical Communications, 2018, 54, 9989-9992.	4.1	14
48	A Career in Catalysis: Avelino Corma. ACS Catalysis, 2022, 12, 7054-7123.	11.2	14
49	Zeolite supported magnetic clusters. Journal of Magnetism and Magnetic Materials, 1995, 140-144, 363-364.	2.3	13
50	One-pot co-crystallization of beta and pentasil nanozeolites for the direct conversion of a heavy reformat fraction into xylenes. Applied Catalysis A: General, 2019, 581, 11-22.	4.3	12
51	Zeolites. , 2013, , 103-131.		11
52	Methanolysis of sunflower oil using gem-diamines as active organocatalysts for biodiesel production. Applied Catalysis A: General, 2010, 382, 36-42.	4.3	10
53	ITQ-39 zeolite, an efficient catalyst for the conversion of low value naphtha fractions into diesel fuel: The role of pore size on molecular diffusion and reactivity. Journal of Catalysis, 2016, 333, 127-138.	6.2	10
54	Direct Synthesis of Nano Ferriferite along the 10 Å Ring Channel Direction Boosts Their Catalytic Behavior. Angewandte Chemie, 2018, 130, 3517-3521.	2.0	9

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55	Zeolite ITQ-21 as catalyst for the alkylation of benzene with propylene. Studies in Surface Science and Catalysis, 2008, , 1087-1090.	1.5	5
56	Influence of Preparation Conditions on the Catalytic Performance of Mo/H-ZSM-5 for Methane Dehydroaromatization. Applied Sciences (Switzerland), 2021, 11, 5465.	2.5	4
57	Ge-Based Hybrid Composites from Ge-Rich Zeolites as Highly Conductive and Stable Electronic Materials. Chemistry of Materials, 2019, 31, 7723-7731.	6.7	3
58	Synthesis methodology, acidity and catalytic behaviour of the 18 Å– 10 member ring pores ITQ-33 zeolite. Studies in Surface Science and Catalysis, 2008, 174, 155-160.	1.5	2
59	Discovery of a new catalytically active and selective zeolite (ITQ-30) by high-throughput synthesis techniques. Studies in Surface Science and Catalysis, 2007, , 322-329.	1.5	1