Yvonne Traa

List of Publications by Year
in descending order

57 papers	1,623 citations	304602 22 h-index	302012 39 g-index
70 all docs	70 docs citations	70 times ranked	1716 citing authors

#	Article	IF	Citations
1	Effect of aluminum and sodium on the sorption of water and methanol in microporous MFI-type zeolites and mesoporous SBA-15 materials. Adsorption, 2021, 27, 49-68.	1.4	20
2	The Ensemble Effect in Bifunctional Catalysis: Influence of Zinc as Promoter for Pdâ€Hâ€ZSMâ€5 Catalysts during the Dehydroalkylation of Toluene with Ethane. Chemie-Ingenieur-Technik, 2021, 93, 1024-1027.	0.4	1
3	Direct Proof of Volatile and Adsorbed Hydrocarbons on Solid Catalysts by Complementary NMR MethodsÂ. Chemie-Ingenieur-Technik, 2021, 93, 1020-1023.	0.4	0
4	Mechanisms and Intermediates in the True Liquid Crystal Templating Synthesis of Mesoporous Silica Materials. Journal of Physical Chemistry B, 2021, 125, 3197-3207.	1.2	12
5	Elucidation of the versatile BrÃ¸nsted acidity of nanosized ZSM-5 materials. Microporous and Mesoporous Materials, 2021, 317, 110978.	2.2	4
6	Efficient and Spatially Controlled Functionalization of SBAâ€15 and Initial Results in Asymmetric Rhâ€Catalyzed 1,2â€Additions under Confinement. ChemCatChem, 2021, 13, 2407-2419.	1.8	12
7	Influence of the Template Removal Method on the Mechanical Stability of SBAâ€15. ChemistryOpen, 2021, 10, 1123-1128.	0.9	1
8	New two-step pathway for the production of acrylonitrile from propionic acid. Catalysis Communications, 2020, 136, 105891.	1.6	1
9	Synthesis of Acrylonitrile from Renewable Lactic Acid. ChemSusChem, 2019, 12, 1653-1663.	3.6	15
10	Is the CO2 methanation on highly loaded Ni-Al2O3 catalysts really structure-sensitive?. Applied Catalysis B: Environmental, 2019, 247, 200-219.	10.8	109
11	Model based analysis of the effect of 2-ethylphenol addition to n-decane in fluid catalytic cracking over a series of zeolites. Chemical Engineering Journal, 2019, 377, 120090.	6.6	5
12	Experimental approach for identifying hotspots in lab-scale fixed-bed reactors exemplified by the Sabatier reaction. Reaction Kinetics, Mechanisms and Catalysis, 2018, 125, 157-170.	0.8	5
13	The influence of porosity and active sites of zeolites Y and beta on the co-cracking of n-decane and 2-ethylphenol. Applied Catalysis A: General, 2018, 553, 91-106.	2.2	10
14	Co-catalytic cracking of n-decane and 2-ethylphenol over a variety of deactivated zeolites for the conversion of fossil- and bio-based feeds in Co-FCC. Microporous and Mesoporous Materials, 2017, 254, 59-68.	2.2	7
15	Selective hydrogenation of 3-Hexyn-1-ol with Pd nanoparticles synthesized via microemulsions. Applied Catalysis A: General, 2017, 539, 19-28.	2.2	6
16	Deactivation behavior of alkali-metal zeolites in the dehydration of lactic acid to acrylic acid. Journal of Catalysis, 2015, 329, 413-424.	3.1	41
17	BrÃ¸nsted sites and structural stabilization effect of acidic low-silica zeolite A prepared by partial ammonium exchange. Microporous and Mesoporous Materials, 2015, 212, 110-116.	2.2	31
18	Direct liquefaction of lower-rank coals and biocoals with magnetically separable catalysts as a sustainable route to fuels. Fuel, 2015, 151, 102-109.	3.4	48

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19	An alternative method for the production of second-generation biofuels. Green Chemistry, 2014, 16, 3710-3714.	4.6	15
20	Production of High-Octane Fuel Components by Dehydroalkylation of Benzene with Mixtures of Ethane and Propane. Energy & Fuels, 2014, 28, 3352-3356.	2.5	2
21	Efficient Direct Brown Coal Liquefaction with Sulfided Co/SiO2 Catalysts. Energy & Fuels, 2013, 27, 5589-5592.	2.5	17
22	Influence of acid sites on the propene selectivity during propane dehydrogenation on zeolite Pt/Zn,Na-MCM-22. Microporous and Mesoporous Materials, 2012, 164, 145-147.	2.2	13
23	Technische Chemie 2009. Nachrichten Aus Der Chemie, 2010, 58, 350-361.	0.0	0
24	Is a renaissance of coal imminent?â€”challenges for catalysis. Chemical Communications, 2010, 46, 2175-2187.	2.2	59
25	Isotopic studies on the dehydroalkylation of toluene with ethane. Journal of Molecular Catalysis A, 2009, 314, 95-101.	4.8	4
26	Selectivity Enhancement to the Exclusive Formation of Ethyltoluenes and Hydrogen During Dehydroalkylation of Toluene with Ethane. Catalysis Letters, 2008, 122, 91-97.	1.4	4
27	Influence of aluminum content, crystallinity and crystallite size of zeolite Pd/H-ZSM-5 on the catalytic performance in the dehydroalkylation of toluene with ethane. Microporous and Mesoporous Materials, 2008, 109, 278-286.	2.2	18
28	Dehydroalkylation of toluene with ethane in a packed-bed membrane reactor with a bifunctional catalyst and a hydrogen-selective membrane. Chemical Communications, 2008, , 2382.	2.2	3
29	Dehydroalkylation of toluene with ethane on zeolites MCM-22 and ZSM-5. Studies in Surface Science and Catalysis, 2008, 174, 1119-1122.	1.5	0
30	Influence of Pressure during the Alkylation of Toluene with Ethane. Industrial & Engineering Chemistry Research, 2007, 46, 395-399.	1.8	8
31	Synthesis of large crystals of all-silica zeolite ferrierite. Microporous and Mesoporous Materials, 2007, 104, 179-184.	2.2	30
32	Characterization of the Pore Size of Molecular Sieves Using Molecular Probes. , 2006, , 103-154.		8
33	Internal Concentration Gradients of Guest Molecules in Nanoporous Host Materials:Â Measurement and Microscopic Analysis. Journal of Physical Chemistry B, 2006, 110, 23821-23828.	1.2	59
34	Unprecedented Insight into Diffusion by Monitoring the Concentration of Guest Molecules in Nanoporous Host Materials. Angewandte Chemie - International Edition, 2006, 45, 7846-7849.	7.2	107
35	Catalytic cracking of n-octane on small-pore zeolites. Microporous and Mesoporous Materials, 2005, 83, 345-356.	2.2	54
36	Direct alkylation of toluene with ethane on bifunctional zeolite catalysts. Applied Catalysis A: General, 2005, 294, 273-278.	2.2	20

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37	Hydrogenative regeneration of a Pt/La-Y zeolite catalyst deactivated in the isobutane/n-butene alkylation. Applied Catalysis A: General, 2005, 281, 215-223.	2.2	39
38	X-ray mapping as a tool to characterize mixtures of large zeolite ZSM-5 crystals with amorphous impurities. Microporous and Mesoporous Materials, 2004, 75, 69-71.	2.2	4
39	Regeneration of zeolite catalysts deactivated in isobutane/butene alkylation: an in situ FTIR investigation at elevated H2 pressure. Catalysis Communications, 2004, 5, 239-241.	1.6	29
40	Preparation of a high-quality synthetic steamcracker feedstock from methylcyclohexane on acidic zeolite H-ZSM-5: influence of the hydrogen partial pressure. Applied Catalysis B: Environmental, 2003, 41, 193-205.	10.8	17
41	Hydroconversion of methylcyclohexane on TEOS-modified H-ZSM-5 zeolite catalysts: Production of a high-quality synthetic steamcracker feedstock. Microporous and Mesoporous Materials, 2003, 59, 1-12.	2.2	16
42	Nanocrystalline zeolite A: synthesis, ion exchange and dealumination. Microporous and Mesoporous Materials, 2003, 60, 69-78.	2.2	71
43	Controlled co-crystallization of zeolites A and X. Journal of Materials Chemistry, 2002, 12, 496-499.	6.7	17
44	Producing a high-quality synthetic steamcracker feedstock from different aromatic model components of pyrolysis gasoline on bifunctional zeolite catalysts. Catalysis Today, 2002, 75, 133-139.	2.2	17
45	Gallium-containing zeolites â€“ valuable catalysts for the conversion of cycloalkanes into a premium synthetic steamcracker feedstock. Catalysis Communications, 2001, 2, 23-29.	1.6	24
46	Influence of the aluminum content of zeolite H-ZSM-5 on the conversion of methylcyclohexane into a high-quality synthetic steamcracker feedstock. Catalysis Communications, 2001, 2, 69-74.	1.6	26
47	An EPR study on the enantioselective aziridination properties of a CuNaY zeolite. Physical Chemistry Chemical Physics, 2001, 3, 1073-1080.	1.3	45
48	Novel zeolite catalysis to create value from surplus aromatics: preparation of C2+-n-alkanes, a high-quality synthetic steamcracker feedstock. Applied Catalysis A: General, 2001, 222, 277-297.	2.2	41
49	Haag-Dessau Catalysts for Ring Opening of Cycloalkanes. Angewandte Chemie - International Edition, 2001, 40, 1243-1246.	7.2	39
50	Direct conversion of aromatics into a synthetic steamcracker feed using bifunctional zeolite catalysts. Chemical Communications, 2000, , 1133-1134.	2.2	28
51	Preparation of synthetic steamcracker feed from cycloalkanes (or aromatics) on zeolite catalysts. Chemical Communications, 2000, , 403-404.	2.2	28
52	Zeolite-based materials for the selective catalytic reduction of NOx with hydrocarbons. Microporous and Mesoporous Materials, 1999, 30, 3-41.	2.2	329
53	Kinetics of the Methanation of Carbon Dioxide over Ruthenium on Titania. Chemical Engineering and Technology, 1999, 22, 291-293.	0.9	23
54	Abatement of N2O in the selective catalytic reduction of NOx on platinum zeolite catalysts upon promotion with vanadium. Chemical Communications, 1999, , 2187-2188.	2.2	6

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55	Oscillation of NOx Concentration in the Selective Catalytic Reduction of Nitrogen Oxides on Platinum-Containing Zeolite Catalysts. Angewandte Chemie International Edition in English, 1997, 36, 2113-2114.	4.4	7
56	Oszillation der NOxâ€Konzentration bei der selektiven katalytischen Reduktion von Stickstoffoxiden an platinhaltigen Zeolithâ€Katalysatoren. Angewandte Chemie, 1997, 109, 2207-2208.	1.6	0
57	Rapid Aging as a Key to Understand Deactivation of Ni/Al2O3 Catalysts Applied for the CO2 Methanation. Catalysis Letters, 0, , 1.	1.4	2