Blanka Wichterlova

List of Publications by Year
in descending order

147 papers	8,565 citations	29994 54 h-index	46693 89 g-index
149 all docs	149 docs citations	149 times ranked	4140 citing authors

#	Article	IF	Citations
1	Siting and Distribution of Framework Aluminium Atoms in Silicon-Rich Zeolites and Impact on Catalysis. Catalysis Reviews - Science and Engineering, 2012, 54, 135-223.	5.7	357
2	ACID-CATALYZED SYNTHESIS OF MONO- AND DIALKYL BENZENES OVER ZEOLITES: ACTIVE SITES, ZEOLITE TOPOLOGY, AND REACTION MECHANISMS. Catalysis Reviews - Science and Engineering, 2002, 44, 375-421.	5.7	354
3	Coordination of Cu Ions in High-Silica Zeolite Matrixes. Cu+ Photoluminescence, IR of NO Adsorbed on Cu2+, and Cu2+ ESR Study. The Journal of Physical Chemistry, 1995, 99, 16327-16337.	2.9	254
4	Aluminum Siting in Siliconâ€Rich Zeolite Frameworks: A Combined Highâ€Resolution ²⁷Alâ€...NMR Spectroscopy and Quantum Mechanicsâ€‰/â€‰Molecular Mechanics Study of ZSMâ€5. Angewandte Chemie - International Edition, 2007, 46, 7286-7289.	7.2	234
5	Co2+ ion siting in pentasil-containing zeolites, part 3.. Microporous and Mesoporous Materials, 2000, 35-36, 483-494.	2.2	213
6	Enhancement of decane-SCR-NO over Ag/alumina by hydrogen. Reaction kinetics and in situ FTIR and UVâ€“vis study. Journal of Catalysis, 2005, 232, 302-317.	3.1	196
7	Aluminium siting in the ZSM-5 framework by combination of high resolution 27Al NMR and DFT/MM calculations. Physical Chemistry Chemical Physics, 2009, 11, 1237-1247.	1.3	196
8	Synthesis of ZSM-5 Zeolites with Defined Distribution of Al Atoms in the Framework and Multinuclear MAS NMR Analysis of the Control of Al Distribution. Chemistry of Materials, 2012, 24, 3231-3239.	3.2	190
9	Determination and properties of acid sites in H-ferrierite. Microporous and Mesoporous Materials, 1998, 24, 223-233.	2.2	189
10	FTIR and 27Al MAS NMR analysis of the effect of framework Al- and Si-defects in micro- and micro-mesoporous H-ZSM-5 on conversion of methanol to hydrocarbons. Microporous and Mesoporous Materials, 2011, 143, 87-96.	2.2	186
11	Co2+ Ion Siting in Pentasil-Containing Zeolites. I. Co2+ Ion Sites and Their Occupation in Mordenite. A Visâ^'NIR Diffuse Reflectance Spectroscopy Study. Journal of Physical Chemistry B, 1999, 103, 1462-1476.	1.2	177
12	Effect of aluminium distribution in the framework of ZSM-5 on hydrocarbon transformation. Cracking of 1-butene. Journal of Catalysis, 2008, 254, 180-189.	3.1	161
13	Co2+ions as probes of Al distribution in the framework of zeolites. ZSM-5 study. Physical Chemistry Chemical Physics, 2002, 4, 5406-5413.	1.3	153
14	Reducibility and oxidation activity of Cu ions in zeolites. Applied Catalysis B: Environmental, 2001, 31, 13-25.	10.8	151
15	Activity of Co Ion Sites in ZSM-5, Ferrierite, and Mordenite in Selective Catalytic Reduction of NO with Methane. Journal of Catalysis, 2000, 194, 318-329.	3.1	149
16	Siting and Redox Behavior of Cu Ions in CuH-ZSM-5 Zeolites. Cu+ Photoluminescence Study. The Journal of Physical Chemistry, 1994, 98, 5721-5727.	2.9	138
17	On the Cu Site in ZSM-5 Active in Decomposition of NO: Luminescence, FTIR Study, and Redox Properties. Journal of Catalysis, 1997, 169, 194-202.	3.1	136
18	Cracking of pentenes to C2â€“C4 light olefins over zeolites and zeotypes. Applied Catalysis A: General, 2005, 287, 203-213.	2.2	132

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19	Analysis of Fe species in zeolites by UVâ€“VISâ€“NIR, IR spectra and voltammetry. Effect of preparation, Fe loading and zeolite type. Microporous and Mesoporous Materials, 2005, 80, 279-289.	2.2	130
20	Determination of the number and acid strength of acid sites in zeolites by ammonia adsorption. Applied Catalysis, 1988, 42, 239-246.	1.1	127
21	Effect of Alâ^'Siâ^'Al and Alâ^'Siâ^'Siâ^'Al Pairs in the ZSM-5 Zeolite Framework on the ²⁷Al NMR Spectra. A Combined High-Resolution ²⁷Al NMR and DFT/MM Study. Journal of Physical Chemistry C, 2009, 113, 1447-1458.	1.5	121
22	Co2+ ion siting in pentasil-containing zeolites. Microporous and Mesoporous Materials, 1999, 31, 75-87.	2.2	111
23	Identification of Cu Sites in ZSM-5 Active in NO Decomposition. The Journal of Physical Chemistry, 1995, 99, 1065-1067.	2.9	105
24	Redox catalysis over metallo-zeolites. Applied Catalysis B: Environmental, 2003, 41, 97-114.	10.8	105
25	Skeletal Tâ^'Oâ^'T Vibrations as a Tool for Characterization of Divalent Cation Complexation in Ferrierite. Journal of Physical Chemistry B, 1998, 102, 1077-1085.	1.2	102
26	Tailoring of the structure of Fe-cationic species in Fe-ZSM-5 by distribution of Al atoms in the framework for N2O decomposition and NH3-SCR-NOx. Journal of Catalysis, 2014, 312, 123-138.	3.1	99
27	Siting and Distribution of the Co Ions in Beta Zeolite: A UVâ€“Visâ€“NIR and FTIR Study. Journal of Catalysis, 2002, 211, 198-207.	3.1	97
28	State and coordination of metal ions in high silica zeolites Incorporation, development and rearrangement during preparation and catalysis. Microporous and Mesoporous Materials, 1998, 21, 525-532.	2.2	91
29	Nature of Active Sites in the Oxidation of Benzene to Phenol with NO over Hâ€“ZSM-5 with Low Fe Concentrations. Journal of Catalysis, 2002, 211, 109-118.	3.1	87
30	An in situ UVâ€“vis and FTIR spectroscopy study of the effect of H and CO during the selective catalytic reduction of nitrogen oxides over a silver alumina catalyst. Journal of Catalysis, 2005, 235, 195-200.	3.1	86
31	Al-rich beta zeolites. Distribution of Al atoms in the framework and related protonic and metal-ion species. Journal of Catalysis, 2016, 333, 102-114.	3.1	86
32	Spectroscopic studies of vanadium-substituted zeolitic silicates of MFI topology. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 1067-1078.	1.7	82
33	Effect of Broensted and Lewis sites in ferrierites on skeletal isomerization of n-butenes. Applied Catalysis A: General, 1999, 182, 297-308.	2.2	82
34	Co-beta zeolite highly active in propaneâ€“SCR-NOx in the presence of water vapor: effect of zeolite preparation and Al distribution in the framework. Journal of Catalysis, 2004, 227, 352-366.	3.1	82
35	Decisive role of transport rate of products for zeolite para-selectivity: Effect of coke deposition and external surface silylation on activity and selectivity of HZSM-5 in alkylation of toluene. Zeolites, 1996, 17, 265-271.	0.9	81
36	Role of Hydrated Cu Ion Complexes and Aluminum Distribution in the Framework on the Cu Ion Siting in ZSM-5. Journal of Physical Chemistry B, 1997, 101, 10233-10240.	1.2	81

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37	Geometry of the Cu+ 540 nm luminescence centres in zeolites. Physical Chemistry Chemical Physics, 1999, 1, 629-637.	1.3	81
38	Structure, Distribution, and Properties of Co Ions in Ferrierite Revealed by FTIR, UVâ€“Vis, and EXAFS. Journal of Catalysis, 2000, 194, 330-342.	3.1	81
39	Al distribution in ZSM-5 zeolites: an experimental study. Chemical Communications, 2001, , 970-971.	2.2	79
40	Bonding of Co Ions in ZSM-5, Ferrierite, and Mordenite:â€‰ An X-ray Absorption, UVâ^'Vis, and IR Study. Journal of Physical Chemistry B, 2002, 106, 2240-2248.	1.2	79
41	Structure and critical function of Fe and acid sites in Fe-ZSM-5 in propane oxidative dehydrogenation with N2O and N2O decomposition. Journal of Catalysis, 2013, 299, 188-203.	3.1	77
42	Multinuclear MQMAS NMR Study of NH4/Na-Ferrierites. Journal of Physical Chemistry B, 1998, 102, 1372-1378.	1.2	72
43	Proton proximity â€“ New key parameter controlling adsorption, desorption and activity in propene oligomerization over H-ZSM-5 zeolites. Journal of Catalysis, 2016, 344, 157-172.	3.1	71
44	Incorporation of Al at ZSM-5 hydrothermal synthesis. Tuning of Al pairs in the framework. Microporous and Mesoporous Materials, 2015, 202, 138-146.	2.2	70
45	Oxidative dehydrogenation and ammoxidation of ethane and propane over pentasil ring Co-zeolites. Applied Catalysis A: General, 2002, 235, 181-191.	2.2	67
46	Oxidation of propane with oxygen and/or nitrous oxide over Fe-ZSM-5 with low iron concentrations. Applied Catalysis A: General, 2004, 264, 13-22.	2.2	66
47	Mechanism of n-Propyltoluene Formation in C3 Alkylation of Toluene: The Effect of Zeolite Structural Type. Journal of Catalysis, 1994, 146, 523-529.	3.1	65
48	High-temperature interaction of solid Cu chlorides and Cu oxides in mixtures with H-forms of ZSM-5 and Y zeolites. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1345-1351.	1.7	64
49	Exchange of Co(II) ions in H-BEA zeolites: identification of aluminum pairs in the zeolite framework. Microporous and Mesoporous Materials, 2001, 46, 265-275.	2.2	64
50	The effect of Al, Fe, and in substitution in the MFI silicate structure on the aromatic hydrocarbon transformation: Sîî—¸OHî—¸M site strength. Zeolites, 1994, 14, 147-153.	0.9	60
51	Coordination and properties of cobalt in the molecular sieves CoAPO-5 and -11. Microporous and Mesoporous Materials, 2000, 37, 117-127.	2.2	59
52	Structure of Alâ€“Lewis Site in Beta Zeolite Active in the Meerweinâ€“Ponndorfâ€“Verley Reduction of Ketone to Alcohol. Journal of Catalysis, 2002, 210, 171-182.	3.1	59
53	Effect of FeH-zeolite structure and Al-Lewis sites on N2O decomposition and NO/NO2-assisted reaction. Journal of Catalysis, 2006, 238, 293-300.	3.1	58
54	The decisive role of the distribution of Al in the framework of beta zeolites on the structure and activity of Co ion species in propaneâ€“SCRâ€“NOx in the presence of water vapour. Journal of Catalysis, 2010, 272, 44-54.	3.1	56

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55	Control of metal ion species in zeolites by distribution of aluminium in the framework: From structural analysis to performance under real conditions of SCR-NOx and NO, N2O decomposition. Applied Catalysis A: General, 2011, 391, 244-253.	2.2	56
56	Selective synthesis of cumene and p-cymene over Al and Fe silicates with large and medium pore structures. Microporous Materials, 1996, 6, 405-414.	1.6	55
57	Redox behaviour of Fe3+ impurities in Y zeolites. E.s.r. study. Zeolites, 1981, 1, 181-185.	0.9	54
58	High-temperature interaction of vanadium pentoxide with H-ZSM-5 zeolite: ESR and IR study. The Journal of Physical Chemistry, 1992, 96, 1805-1809.	2.9	53
59	Extent of monomolecular and bimolecular mechanism in n-butene skeletal isomerization to isobutene over molecular sieves. Applied Catalysis A: General, 1999, 179, 217-222.	2.2	53
60	Factors controlling iso-/n- andpara-selectivity in the alkylation of toluene with isopropanol on molecular sieves. Applied Catalysis A: General, 1994, 108, 187-204.	2.2	52
61	Effect of Metal Coordination on the Charge Distribution over the Cation Binding Sites of Zeolites. A Combined Experimental and Theoretical Study. Journal of Physical Chemistry B, 2001, 105, 8285-8290.	1.2	50
62	Acid and redox activity of template-free Al-rich H-BEA* and Fe-BEA* zeolites. Journal of Catalysis, 2014, 318, 22-33.	3.1	50
63	Structural Analysis of Potential Active Sites in Metallo-Zeolites for Selective Catalytic Reduction of NOx. An Attempt for the Structure Versus Activity Relationship. Topics in Catalysis, 2004, 28, 131-140.	1.3	48
64	Solid-state incorporation of Mn2+ions in H-ZSM-5 zeolite. Journal of the Chemical Society, Faraday Transactions, 1990, 86, 3033-3037.	1.7	44
65	A comparison of the ethylation of ethylbenzene and toluene on acid, cationic and silylated ZSM-5 zeolites. Catalysis Letters, 1992, 16, 421-429.	1.4	44
66	Preparation and Characterisation of Ag/Alumina Catalysts for the Removal of NOxEmissions Under Oxygen Rich Conditions. Topics in Catalysis, 2004, 30/31, 91-95.	1.3	44
67	Effect of the particle size and surface area of tungstated zirconia on the WOx nuclearity and n-heptane isomerization over Pt/WO3â€“ZrO2. Applied Catalysis A: General, 2011, 397, 82-93.	2.2	44
68	Siting of the Cu+ ions in dehydrated ion exchanged synthetic and natural chabasites: a Cu+ photoluminescence study. Microporous and Mesoporous Materials, 1999, 32, 63-74.	2.2	43
69	Cu-ZSM-5 zeolite highly active in reduction of NO with decane under water vapor presence. Applied Catalysis B: Environmental, 2005, 60, 201-210.	10.8	43
70	Enhancement of propene oligomerization and aromatization by proximate protons in zeolites; FTIR study of the reaction pathway in ZSM-5. Catalysis Science and Technology, 2019, 9, 4262-4275.	2.1	43
71	Quantum-chemical study of the physical characteristics of Al3+, AlOH2+, and Al(OH)2+ zeolites. The Journal of Physical Chemistry, 1981, 85, 1951-1956.	2.9	41
72	Cu ion siting in high silica zeolites. Spectroscopy and redox properties. Catalysis Today, 1997, 38, 199-203.	2.2	39

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73	Critical evaluation of the role of the distribution of Al atoms in the framework for the activity of metallo-zeolites in redox N2O/NOx reactions. Applied Catalysis A: General, 2014, 474, 178-185.	2.2	39
74	ESR study of Fe3+-zeolites. Reaction Kinetics and Catalysis Letters, 1980, 13, 197-201.	0.6	38
75	Chromium ions in zeolites. Part 4.â€"X-ray photoelectron spectroscopic study of chromium valence states in the surface layers of CrY zeolites. Journal of the Chemical Society Faraday Transactions I, 1984, 80, 2639.	1.0	37
76	Metal ligand complexes in CoHâ€"BEA relevant to ethane ammoxidation to acetonitrile: an FTIR study. Applied Catalysis A: General, 1999, 188, 175-186.	2.2	37
77	Acidic and catalytic properties of Mo/MCM-22 in methane aromatization: an FTIR study. Applied Catalysis A: General, 2003, 253, 271-282.	2.2	36
78	Effect of water vapour and ammonia on the solid-solid interaction of Cu oxide with Y-type zeolite: preparation of catalyst for reduction of nitric oxide with ammonia at low temperature.. Applied Catalysis A: General, 1993, 103, 269-280.	2.2	35
79	Tailoring of Fe-ferrierite for N2O decomposition: On the decisive role of framework Al distribution for catalytic activity of Fe species in Fe-ferrierite. Microporous and Mesoporous Materials, 2011, 146, 172-183.	2.2	35
80	Monitoring of skeletal Tâ€"Oâ€"T vibrations of metal ion exchanged zeolites. Microporous and Mesoporous Materials, 1998, 25, 225-228.	2.2	34
81	Catalytic activity of Cu-MeAlPO-11 in NO decomposition. Applied Catalysis B: Environmental, 1998, 15, 233-240.	10.8	32
82	Alkylation of toluene with ethene over H-ZSM-5 zeolites. Applied Catalysis A: General, 1991, 79, 215-226.	2.2	31
83	Title is missing!. Topics in Catalysis, 2002, 18, 283-290.	1.3	31
84	Nature of active sites in decane-SCR-NOx and NO decomposition over Cu-ZSM-5 zeolites. Applied Catalysis A: General, 2006, 307, 156-164.	2.2	31
85	Unprecedented propaneâ€"SCR-NO x activity over template-free synthesized Al-rich Co-BEA âˆ— zeolite. Journal of Catalysis, 2015, 332, 201-211.	3.1	31
86	Analysis of the structural parameters controlling the temperature window of the process of SCR-NO by low paraffins over metal-exchanged zeolites. Catalysis Today, 2002, 75, 347-351.	2.2	30
87	Cu-ZSM-5 zeolite highly active in reduction of NO with decane. Applied Catalysis B: Environmental, 2005, 60, 147-153.	10.8	30
88	Catalytic Activity of Cu-Beta Zeolite in NO Decomposition: Effect of Copper and Aluminium Distribution. Journal of Catalysis, 2001, 200, 160-170.	3.1	29
89	Differences in the structure of copper active sites for decomposition and selective reduction of nitric oxide with hydrocarbons and ammonia. Catalysis Today, 1996, 29, 149-153.	2.2	28
90	Quantitative analysis of aluminium and iron in the framework of zeolites. Microporous and Mesoporous Materials, 2001, 42, 97-102.	2.2	26

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91	Kinetic experiments and modeling of NO oxidation and SCR of NOx with decane over Cu- and Fe-MFI catalysts. Applied Catalysis B: Environmental, 2007, 70, 53-57.	10.8	26
92	Aluminum Siting in the ZSM-22 and Theta-1 Zeolites Revisited: A QM/MM Study. Collection of Czechoslovak Chemical Communications, 2008, 73, 909-920.	1.0	26
93	Properties of different Fe (III) species introduced into NH4-Y zeolites. Zeolites, 1982, 2, 17-22.	0.9	25
94	Kinetik der Oxidation des Methylalkohols zu Formaldehyd an einem Oxidkatalysator. Collection of Czechoslovak Chemical Communications, 1966, 31, 674-688.	1.0	24
95	Selective catalytic reduction of NOx by hydrocarbons enhanced by hydrogen peroxide over silver/alumina catalysts. Chemical Communications, 2005, , 4810.	2.2	22
96	The effect of dehydroxylation of HNaY zeolites on the interaction with ethylene and propylene. Collection of Czechoslovak Chemical Communications, 1980, 45, 2290-2299.	1.0	21
97	NO Oxidation Kinetics on Iron Zeolites: Influence of Framework Type and Iron Speciation. Topics in Catalysis, 2004, 30/31, 333-339.	1.3	20
98	Activation of the carbon-halogen bond in polyhalomethanes by copper(I) complexes. Journal of Molecular Catalysis, 1987, 42, 51-55.	1.2	18
99	The Coordination ofCo²⁺Cations inXandYZeolites. Zeitschrift Fur Physikalische Chemie, 1974, 88, 180-192.	1.4	17
100	Chromium ions within zeolites. Part 1.â€”Infrared, electron spin resonance and temperature-programmed reduction studies of the valence states of chromium ions. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 1573.	1.0	17
101	Isomorphous Substitution of Si for Al, Ga, Fe, In and B in Molecular Sieves of MFI Structure. A Quantum Chemical, Ammonia Desorption and Catalytic Activity Study of Framework Si-OH-M Acid Site Strength. Collection of Czechoslovak Chemical Communications, 1993, 58, 2474-2488.	1.0	17
102	Preparation of Fe3+HNaY zeolites followed by ESR spectra of the Fe3+ ion. Collection of Czechoslovak Chemical Communications, 1980, 45, 2143-2146.	1.0	16
103	X-ray photoelectron spectroscopic study of FeHNaY zeolites. Journal of the Chemical Society Faraday Transactions I, 1981, 77, 1179.	1.0	15
104	Structure of defects in Î³-irradiated ZSM-5 and Y zeolites: an e.s.r. study. Zeolites, 1988, 8, 117-121.	0.9	15
105	Theoretical Model of the n-Propylbenzene Formation in the Benzene Isopropylation over Zeolites. An Anti-Markovnikov-Type Proton Addition Promoted by the Steric Effect of MFI and MEL Zeolite Channels. Journal of Physical Chemistry B, 1998, 102, 7169-7175.	1.2	15
106	Nature of active sites on an Fe-Mo catalyst for methanol oxidation. Journal of Catalysis, 1968, 11, 182.	3.1	14
107	On the necessity of a basic revision of the redox properties of H-zeolites. Studies in Surface Science and Catalysis, 2002, 142, 533-540.	1.5	14
108	Fe ions in the cationic sites and in the skeleton of faujasites. A quantum chemical study. Zeolites, 1982, 2, 252-256.	0.9	13

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109	Experimental and theoretical description of transition metal ion structures in zeolites relevant to deNOx catalysis. Studies in Surface Science and Catalysis, 2000, 130, 1463-1468.	1.5	12
110	Effect of hydrothermal treatment on the properties of Fe(III)NH4î—¸Y zeolites. Zeolites, 1985, 5, 21-25.	0.9	11
111	Esca Study of Incorporation of Copper into Y Zeolite. Studies in Surface Science and Catalysis, 1991, 69, 269-276.	1.5	11
112	The Effect of Extra-Framework Aluminum in Dealuminated ZSM-5 Zeolites on the Transformation of Aromatic Hydrocarbons. Collection of Czechoslovak Chemical Communications, 1995, 60, 412-420.	1.0	11
113	Siting and Reactivity of the Co Ions in Ferrierite in Selective Catalytic Reduction of NO with CH4. Collection of Czechoslovak Chemical Communications, 1998, 63, 1781-1792.	1.0	11
114	Oxidation of propane with oxygen, nitrous oxide and oxygen/nitrous oxide mixture over Co- and Fe-zeolites. Catalysis Today, 2005, 100, 315-319.	2.2	11
115	Single Metal Ions in Host Zeolite Matrices. Structure-Activity-Selectivity-Relationships. , 2001, , 31-53.		11
116	Chromium ions within zeolites. Part 3.â€"The influence of the valence state of chromium on the catalytic activity of Cr zeolites in ethylene polymerization. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 1591.	1.0	9
117	Quantum chemical study of the stabilization process of faujasites. Reaction Kinetics and Catalysis Letters, 1982, 18, 51-53.	0.6	8
118	Chromium ions within zeolites. Part 2.â€"A quantum-chemical study of the properties of chromium ions in faujasites. Journal of the Chemical Society Faraday Transactions I, 1983, 79, 1585.	1.0	7
119	Interaction of water with CoNaX zeolites. Collection of Czechoslovak Chemical Communications, 1977, 42, 2033-2044.	1.0	7
120	Structure and Shape-Selective Properties of MFI Type Ferrisilicates. A Comparison with Aluminosilicate Analogues. Collection of Czechoslovak Chemical Communications, 1992, 57, 799-808.	1.0	7
121	Kinetic and Theoretical Study of the Effect of Molecular Sieve Structure on the Selectivity to Propylbenzenes in Alkylation of Benzene with Isopropyl Alcohol. Collection of Czechoslovak Chemical Communications, 1998, 63, 1769-1780.	1.0	7
122	Kinetic Experiments and Modeling of a Complex DeNOxSystem:Â Decane Selective Catalytic Reduction of NOxin the Gas Phase and over an Fe-MFI Type Zeolite Catalyst. Industrial & Engineering Chemistry Research, 2005, 44, 4523-4533.	1.8	6
123	Molecular orbital study of the catalytic oxidation of propylene on silver. Reaction Kinetics and Catalysis Letters, 1976, 5, 131-134.	0.6	5
124	Spectroscopic Study of the Vanadium-Phosphate Catalyst Used in the Selective Oxidation of n-Butane to Maleic Anhydride. Applied Catalysis, 1988, 36, 119-125.	1.1	5
125	The Influence of Cations on the Alkylation of Toluene with Ethylene over Modified ZSM-5 Zeolites. Studies in Surface Science and Catalysis, 1991, 65, 387-395.	1.5	5
126	Zeolite Silylation for the Enhancement of para-Selectivity in Toluene Alkylation with Ethylene. Collection of Czechoslovak Chemical Communications, 1997, 62, 337-346.	1.0	5

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127	Contribution of Fe and Protonic Sites in Calcined and Steamed ZSM-5 Zeolites to Oxidation of Benzene with N2O to Phenol and Selective Catalytic Reduction of NO with Propane to Nitrogen. Collection of Czechoslovak Chemical Communications, 2003, 68, 1805-1818.	1.0	5
128	Factors influencing deactivation of zeolites in methanol transformation. Catalysis Today, 1988, 3, 373-378.	2.2	4
129	The effect of dealumination on the Al distribution in pentasil ring zeolites. Studies in Surface Science and Catalysis, 2002, 142, 1817-1824.	1.5	4
130	Analysis of the State and Size of Silver on Alumina in Effective Removal of NO_{<I>x</I>} from Oxygen Rich Exhaust Gas. Journal of Nanoscience and Nanotechnology, 2006, 6, 1076-1083.	0.9	4
131	Aluminum siting in the framework of silicon rich zeolites. A ZSM-5 study. Studies in Surface Science and Catalysis, 2008, , 781-786.	1.5	4
132	Equilibrium data for the transformation of alcohols and acetylene into hydrocarbons. Applied Catalysis, 1985, 16, 389-400.	1.1	3
133	Occurrence of Fe species in Fe-zeolites active in propane oxidation with N2O to propene and propanal. Studies in Surface Science and Catalysis, 2005, 158, 1977-1984.	1.5	3
134	Behaviour of CoNaA zeolites in interaction with water. Collection of Czechoslovak Chemical Communications, 1980, 45, 9-16.	1.0	3
135	The Effect of Acidity of Al and Fe Silicates with MFI Structure on Benzene and Toluene Alkylation with Isopropyl Alcohol. Collection of Czechoslovak Chemical Communications, 1996, 61, 1115-1130.	1.0	3
136	Influence of Mo ions and OH groups on l-butene isomerization. Reaction Kinetics and Catalysis Letters, 1984, 25, 59-63.	0.6	1
137	D2î—¸H2 equilibration over Î³-irradiated zeolites. Zeolites, 1987, 7, 490-492.	0.9	1
138	Analysis of Al Siting and Distribution in the Framework of ZSM-5 Zeolite. Studies in Surface Science and Catalysis, 2007, 172, 325-328.	1.5	1
139	Exafs Study of Fe/ZSM-5 Prepared by Chemical Vapour Deposition and Co/FER, MOR, MFI Prepared by Ion Exchange. , 2001, , 85-94.		1
140	The Effect of Acid Sites in Skeletal Isomerization of N-Butenes over Ferrierites and Coalpo-11. , 1998, , 391-396.		1
141	A quantum chemical study of butene reactions on molybdate catalysts. Collection of Czechoslovak Chemical Communications, 1980, 45, 2589-2604.	1.0	1
142	Electronic spectral study of the interaction of CoNaX zeolite with C1â"C5 hydrocarbons. Reaction Kinetics and Catalysis Letters, 1976, 5, 367-372.	0.6	0
143	Modification of Fe species in FeNaY zeolite by NaCl treatment. Reaction Kinetics and Catalysis Letters, 1982, 21, 273-276.	0.6	0
144	Acid-Catalyzed Synthesis of Mono- and Dialkyl Benzenes over Zeolites: Active Sites, Zeolite Topology, and Reaction Mechanisms. ChemInform, 2003, 34, no.	0.1	0

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145	Ag Active Sites, Surface intermediates and Hydrogen Function at Decane-SCR-NOx over Ag/Alumina. Studies in Surface Science and Catalysis, 2007, , 501-504.	1.5	0
146	Kinetics of Oxidative Dehydrogenation of Isobutyric Acid Over K2HPMo12O40 Catalyst. Collection of Czechoslovak Chemical Communications, 2001, 66, 575-587.	1.0	0
147	Influence of preparation conditions on physicochemical properties and catalytic activity of stabilized zeolites. Collection of Czechoslovak Chemical Communications, 1980, 45, 2042-2048.	1.0	0