Teresa Blasco

List of Publications by Citations

90 papers	4,659 citations	32 h-index	67 g-index
96 ext. papers	4,997 ext. citations	6.9 avg, IF	5.18 L-index

#	Paper	IF	Citations
90	Synthesis, Characterization, and Catalytic Activity of Ti-MCM-41 Structures. *Journal of Catalysis*, **1995**, 156, 65-74	7.3	542
89	Direct Synthesis and Characterization of Hydrophobic Aluminum-Free TiBeta Zeolite. *Journal of Physical Chemistry B*, **1998**, 102, 75-88	3.4	331
88	Hydrothermal stabilization of ZSM-5 catalytic-cracking additives by phosphorus addition. *Journal of Catalysis*, **2006**, 237, 267-277	7.3	311
87	The state of Ti in titanoaluminosilicates isomorphous with zeolite .beta.. *Journal of the American Chemical Society*, **1993**, 115, 11806-11813	16.4	305
86	Selective and shape-selective Baeyer-Villiger oxidations of aromatic aldehydes and cyclic ketones with Sn-beta zeolites and H2O2. *Chemistry - A European Journal*, **2002**, 8, 4708-17	4.8	225
85	Supported heteropolyacid (HPW) catalysts for the continuous alkylation of isobutane with 2-butene: The benefit of using MCM-41 with larger pore diameters. *Journal of Catalysis*, **1998**, 177, 306-313	7.3	217
84	Preferential Location of Ge in the Double Four-Membered Ring Units of ITQ-7 Zeolite. *Journal of Physical Chemistry B*, **2002**, 106, 2634-2642	3.4	194
83	Vanadium Oxide Supported on Mesoporous MCM-41 as Selective Catalysts in the Oxidative Dehydrogenation of Alkanes. *Journal of Catalysis*, **2001**, 203, 443-452	7.3	181
82	Influence of the Acid-Base Character of Supported Vanadium Catalysts on Their Catalytic Properties for the Oxidative Dehydrogenation of n-Butane. *Journal of Catalysis*, **1995**, 157, 271-282	7.3	143
81	Changing the Si distribution in SAPO-11 by synthesis with surfactants improves the hydroisomerization/dewaxing properties. *Journal of Catalysis*, **2006**, 242, 153-161	7.3	125
80	Preferential location of Ge atoms in polymorph C of beta zeolite (ITQ-17) and their structure-directing effect: a computational, XRD, and NMR spectroscopic study. *Angewandte Chemie - International Edition*, **2002**, 41, 4722-6	16.4	123
79	Unseeded synthesis of Al-free Ti-□zeolite in fluoride medium: a hydrophobic selective oxidation catalyst. *Chemical Communications*, **1996**, 2367-2368	5.8	119
78	Preparation, Characterization, and Catalytic Properties of VAPO-5 for the Oxydehydrogenation of Propane. *Journal of Catalysis*, **1995**, 152, 1-17	7.3	103
77	Carbonylation of methanol on metal-acid zeolites: evidence for a mechanism involving a multisite active center. *Angewandte Chemie - International Edition*, **2007**, 46, 3938-41	16.4	102
76	Catalytic VOCs elimination over copper and cerium oxide modified mesoporous SBA-15 silica. *Applied Catalysis A: General*, **2013**, 453, 1-12	5.1	71
75	Coke characterisation in aged residue hydrotreating catalysts by solid-state 13C-NMR spectroscopy and temperature-programmed oxidation. *Applied Catalysis A: General*, **2001**, 218, 181-188	5.1	69
74	Influence of the alkyl chain length of HSO3-R-MCM-41 on the esterification of glycerol with fatty acids. *Microporous and Mesoporous Materials*, **2005**, 80, 33-42	5.3	65

73	Insights into reaction mechanisms in heterogeneous catalysis revealed by in situ NMR spectroscopy. *Chemical Society Reviews*, **2010**, 39, 4685-702	58.5	64
72	Distribution of Fluorine and Germanium in a New Zeolite Structure ITQ-13 Studied by 19F Nuclear Magnetic Resonance. *Chemistry of Materials*, **2003**, 15, 3961-3963	9.6	61
71	Ammonia-Containing Species Formed in Cu-Chabazite As Per In Situ EPR, Solid-State NMR, and DFT Calculations. *Journal of Physical Chemistry Letters*, **2015**, 6, 1011-7	6.4	59
70	Establishing a molecular mechanism for the Beckmann rearrangement of oximes over microporous molecular sieves. *Angewandte Chemie - International Edition*, **2005**, 44, 2370-3	16.4	55
69	Synthesis, characterization, and framework heteroatom localization in ITQ-21. *Journal of the American Chemical Society*, **2004**, 126, 13414-23	16.4	54
68	Characterization and NH3-SCR reactivity of Cu-Fe-ZSM-5 catalysts prepared by solid state ion exchange: The metal exchange order effect. *Microporous and Mesoporous Materials*, **2018**, 260, 217-226	5.3	44
67	Insight into the active sites for the Beckmann rearrangement on porous solids by in situ infrared spectroscopy. *Journal of Catalysis*, **2006**, 243, 270-277	7.3	44
66	Gold(III) stabilized over ionic liquids grafted on MCM-41 for highly efficient three-component coupling reactions. *Physical Chemistry Chemical Physics*, **2013**, 15, 16927-34	3.6	40
65	Selective oxidation of propane to acrylic acid on K-doped MoVSbO catalysts: catalyst characterization and catalytic performance. *Journal of Catalysis*, **2004**, 228, 362-373	7.3	39
64	Investigation on the nature of the adsorption sites of pyrrole in alkali-exchanged zeolite y by nuclear magnetic resonance in combination with infrared spectroscopy. *Journal of the American Chemical Society*, **2002**, 124, 3443-56	16.4	39
63	Cooperative Structure-Directing Effect of Fluorine-Containing Organic Molecules and Fluoride Anions in the Synthesis of Zeolites. *Chemistry of Materials*, **2005**, 17, 4374-4385	9.6	33
62	Sol–gel synthesis of mesostructured aluminas from chemically modified aluminum sec-butoxide using non-ionic surfactant templating. *Microporous and Mesoporous Materials*, **2005**, 80, 173-182	5.3	33
61	Pyrrole as an NMR probe molecule to characterise zeolite basicity. *Chemical Communications*, **2000**, 491-492	5.2	33
60	Spectroscopic Evidence and Density Functional Theory (DFT) Analysis of Low-Temperature Oxidation of Cu+ to Cu2+NOx in Cu-CHA Catalysts: Implications for the SCR-NOx Reaction Mechanism. *ACS Catalysis*, **2019**, 9, 2725-2738	13.1	33
59	An NMR study on the adsorption and reactivity of chloroform over alkali exchanged zeolites X and Y. *Physical Chemistry Chemical Physics*, **1999**, 1, 4529-4535	3.6	32
58	Structural Characterization of Zeolites by Advanced Solid State NMR Spectroscopic Methods. *Annual Reports on NMR Spectroscopy*, **2012**, 77, 259-351	1.7	31
57	X-Ray photoelectron spectroscopy of Ti-Beta zeolite. *Microporous Materials*, **1994**, 3, 259-263		29
56	Structure-directing role of molecules containing benzyl rings in the synthesis of a large-pore aluminophosphate molecular sieve: an experimental and computational study. *Journal of Physical Chemistry B*, **2005**, 109, 21539-48	3.4	27

55	Characterization of zeolite basicity using probe molecules by means of infrared and solid state NMR spectroscopies. *Catalysis Today*, **2009**, 143, 293-301	5.3	25
54	Preparation, characterization and reactivity of V- and/or Co-containing AlPO-18 materials (VCoAPO-18) in the oxidative dehydrogenation of ethane. *Microporous and Mesoporous Materials*, **2004**, 67, 215-227	5.3	25
53	Magnetic resonance studies on V-containing, and V,Mg-containing AFI aluminophosphates. *Microporous and Mesoporous Materials*, **2000**, 39, 219-228	5.3	25
52	Characterization of Ga-substituted zeolite Beta by X-ray absorption spectroscopy. *Journal of Materials Chemistry*, **2000**, 10, 1383-1387		25
51	Study of propane oxidation on Cu-zeolite catalysts by in-situ EPR and IR spectroscopies. *Catalysis Today*, **2014**, 227, 123-129	5.3	24
50	NMR spectroscopy and theoretical calculations demonstrate the nature and location of active sites for the Beckmann rearrangement reaction in microporous materials. *Journal of Catalysis*, **2007**, 249, 116-119	7.3	24
49	Fluorine-containing organic molecules as structure directing agents in the synthesis of crystalline microporous materials. Part I: Synthesis of AlPO4-5 and SAPO-5 from fluorobenzyl-pyrrolidine. *Microporous and Mesoporous Materials*, **2005**, 78, 189-197	5.3	23
48	Modelling active sites for the Beckmann rearrangement reaction in boron-containing zeolites and their interaction with probe molecules. *Physical Chemistry Chemical Physics*, **2010**, 12, 6396-403	3.6	22
47	Carbonylation of Methanol on Metal‐Acid Zeolites: Evidence for a Mechanism Involving a Multisite Active Center. *Angewandte Chemie*, **2007**, 119, 4012-4015	3.6	21
46	Evidence of a Cu2+–Alkane Interaction in Cu-Zeolite Catalysts Crucial for the Selective Catalytic Reduction of NOx with Hydrocarbons. *ACS Catalysis*, **2017**, 7, 3501-3509	13.1	20
45	Magic angle spinning NMR investigations on amorphous aluminophosphate oxynitrides. *Physical Chemistry Chemical Physics*, **1999**, 1, 4493-4499	3.6	20
44	Crystallization kinetics of SAPO-37. *Zeolites*, **1992**, 12, 386-394		20
43	Identification of active surface species for Friedel-Crafts acylation and Koch carbonylation reactions by in situ solid-state NMR spectroscopy. *Angewandte Chemie - International Edition*, **2013**, 52, 5138-41	16.4	19
42	Evolution of Mineralogical Phases by 27Al and 29Si NMR in MK-Ca(OH)2 System Cured at 60°C. *Journal of the American Ceramic Society*, **2013**, 96, 2306-2310	3.8	18
41	Silica supported copper and cerium oxide catalysts for ethyl acetate oxidation. *Journal of Colloid and Interface Science*, **2013**, 404, 155-60	9.3	17
40	Pore topology control of supported on mesoporous silicas copper and cerium oxide catalysts for ethyl acetate oxidation. *Microporous and Mesoporous Materials*, **2013**, 180, 156-161	5.3	17
39	(S)-(−)-N-benzylpyrrolidine-2-methanol: A new and efficient structure directing agent for the synthesis of crystalline microporous aluminophosphates with AFI-type structure. *Microporous and Mesoporous Materials*, **2007**, 100, 55-62	5.3	17
38	Preferential Location of Ge Atoms in Polymorph C of Beta Zeolite (ITQ-17) and Their Structure-Directing Effect: A Computational, XRD, and NMR Spectroscopic Study. *Angewandte Chemie*, **2002**, 114, 4916-4920	3.6	17

37	Synthesis of SiVPI-5 with enhanced activity in acid catalysed reactions. *Journal of the Chemical Society Chemical Communications*, **1995**, 731-732		17
36	Partial oxidation of hydrogen sulfide to sulfur over vanadium oxides bronzes. *Catalysis Today*, **2016**, 259, 237-244	5.3	16
35	Investigation on the Beckmann rearrangement reaction catalyzed by porous solids: MAS NMR and theoretical calculations. *Solid State Nuclear Magnetic Resonance*, **2009**, 35, 120-9	3.1	16
34	Study of the Beckmann rearrangement of acetophenone oxime over porous solids by means of solid state NMR spectroscopy. *Physical Chemistry Chemical Physics*, **2009**, 11, 5134-41	3.6	16
33	Influence of Activated Art Paper Sludge-Lime Ratio on Hydration Kinetics and Mechanical Behavior in Mixtures Cured at 20 °C. *Journal of the American Ceramic Society*, **2009**, 92, 3014-3021	3.8	15
32	Nuclear magnetic resonance studies on supported vanadium oxide catalysts. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **1996**, 115, 187-193	5.1	15
31	Electrical conductivity of a MoVTeNbO catalyst in propene oxidation measured in operando conditions. *Catalysis Today*, **2010**, 155, 311-318	5.3	14
30	Modeling of EPR Parameters for Cu(II): Application to the Selective Reduction of NOx Catalyzed by Cu-Zeolites. *Topics in Catalysis*, **2018**, 61, 810-832	2.3	12
29	Selective catalytic reduction of nitric oxide with ammonia over Fe-Cu modified highly silicated zeolites. *Solid State Sciences*, **2018**, 84, 75-85	3.4	12
28	Understanding effects of activation-treatments in K-free and K-MoVSbO bronze catalysts for propane partial oxidation. *Catalysis Today*, **2014**, 238, 41-48	5.3	12
27	On the nature of V and Mg ions in V, Mg-containing AlPO4-5 catalysts. *Journal of Molecular Catalysis A*, **2000**, 162, 267-273		11
26	Identification of Active Surface Species for Friedel–Crafts Acylation and Koch Carbonylation Reactions by in situ Solid-State NMR Spectroscopy. *Angewandte Chemie*, **2013**, 125, 5242-5245	3.6	10
25	In situ multinuclear solid-state NMR spectroscopy study of Beckmann rearrangement of cyclododecanone oxime in ionic liquids: The nature of catalytic sites. *Journal of Catalysis*, **2010**, 275, 78-83	7.3	10
24	Establishing a Molecular Mechanism for the Beckmann Rearrangement of Oximes over Microporous Molecular Sieves. *Angewandte Chemie*, **2005**, 117, 2422-2425	3.6	10
23	One-pot deposition of gold on hybrid TiO2 nanoparticles and catalytic application in the selective oxidation of benzyl alcohol. *Materials Chemistry and Physics*, **2015**, 149-150, 59-68	4.4	9
22	Layering of ferrierite sheets by using large co-structure directing agents: Zeolite synthesis using 1-benzyl-1-methylpyrrolidinium and tetraethylammonium. *Microporous and Mesoporous Materials*, **2010**, 132, 375-383	5.3	9
21	A solid-state NMR study of the molecular sieve VPI-5 synthesized in the presence of a CTABr surfactant. *Solid State Nuclear Magnetic Resonance*, **1997**, 8, 185-94	3.1	8
20	On the Use of CHClF2 as a Probe of Basic Sites in Zeolites: The Host–Guest Interactions Investigated by Multinuclear NMR. *Journal of Physical Chemistry C*, **2008**, 112, 16961-16967	3.8	8

19	Fluorine-containing organic molecules as structure-directing agents in the synthesis of crystalline microporous materials. Part II: Synthesis of all-silica zeolites from fluorine-containing derivatives of 1-benzyl-1-methyl-hexamethylenammonium cations. *Microporous and Mesoporous Materials*, **2006**, 89, 235-245	5.3	8
18	Inelastic Neutron Scattering Study of the Aluminum and Brønsted Site Location in Aluminosilicate LTA Zeolites. *Journal of Physical Chemistry C*, **2018**, 122, 11450-11454	3.8	7
17	Partial oxidation of H2S to sulfur on V-Cu-O mixed oxides bronzes. *Catalysis Today*, **2019**, 333, 237-244	5.3	7
16	Host–Guest and Guest–Guest Interactions of P- and N-Containing Structure Directing Agents Entrapped inside MFI-Type Zeolite by Multinuclear NMR Spectroscopy. *Journal of Physical Chemistry C*, **2019**, 123, 22324-22334	3.8	7
15	Fluorine-containing organic molecules as structure directing agents in the synthesis of crystalline microporous materials. Part III: Synthesis of all-silica zeolites from fluorine-containing derivatives of 1-benzyl-1-methylpyrrolidinium. *Microporous and Mesoporous Materials*, **2008**, 114, 312-321	5.3	7
14	The investigation of beta polymorphs by 19F nuclear magnetic resonance. *Studies in Surface Science and Catalysis*, **2004**, 154, 1289-1294	1.8	7
13	Oxidative Dehydrogenation of Ethane on Vanadium-Containing Aluminophosphates with AFI Structure. *Collection of Czechoslovak Chemical Communications*, **1998**, 63, 1869-1883		7
12	Use of Alkylarsonium Directing Agents for the Synthesis and Study of Zeolites. *Chemistry - A European Journal*, **2019**, 25, 16390-16396	4.8	5
11	Nuclear magnetic resonance investigation on the adsorption of pyrrole over alkali-exchanged zeolites X. *Studies in Surface Science and Catalysis*, **2004**, 154, 1769-1776	1.8	5
10	Paramagnetic oxygen complexes on RhCl3/TiO2 catalyst precursors. *Journal of Molecular Structure*, **1986**, 143, 255-258	3.4	4
9	On the performance of Fe-Cu-ZSM-5 catalyst for the selective catalytic reduction of NO with NH3: the influence of preparation method. *Research on Chemical Intermediates*, **2019**, 45, 1057-1072	2.8	4
8	Evolution of ordinary Portland cement hydration with admixtures by spectroscopic techniques. *Advances in Cement Research*, **2006**, 18, 111-117	1.8	3
7	Effect of zeolite structure on the selective catalytic reduction of NO with ammonia over Mn-Fe supported on ZSM-5, BEA, MOR and FER. *Research on Chemical Intermediates*, **2021**, 47, 2003-2028	2.8	3
6	AgY zeolite as catalyst for the selective catalytic oxidation of NH3. *Microporous and Mesoporous Materials*, **2021**, 323, 111230	5.3	3
5	EPR study of the surface reactivity and reducibility under vacuum of a RhCl3/SrTiO3 catalyst precursor. *Vacuum*, **1987**, 37, 469-471	3.7	1
4	Zeolite-driven Ag species during redox treatments and catalytic implications for SCO of NH3. *Journal of Materials Chemistry A*, **2021**, 9, 27448-27458	13	1
3	Ce-promoted Fe–Cu–ZSM-5 catalyst: SCR-NO activity and hydrothermal stability. *Research on Chemical Intermediates*, **2021**, 47, 2901-2915	2.8	1
2	Characterization of LTA- and CHA- type zeolites by means of solid state NMR. *Studies in Surface Science and Catalysis*, **2008**, 174, 989-992	1.8	

1 A Multi-Nuclear MAS-NMR Study on the Structural Properties of Silicalite-1 Zeolite Synthesized Using N- and P-Based Organic Structure Directing Agents. *Applied Sciences (Switzerland)*, **2021**, 11, 6850 2.6