

Teresa Blasco

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Zeolite-driven Ag species during redox treatments and catalytic implications for SCO of NH ₃ . <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27448-27458	13	1
89	Ce-promoted Fe-Cu-ZSM-5 catalyst: SCR-NO activity and hydrothermal stability. <i>Research on Chemical Intermediates</i> , 2021 , 47, 2901-2915	2.8	1
88	Effect of zeolite structure on the selective catalytic reduction of NO with ammonia over Mn-Fe supported on ZSM-5, BEA, MOR and FER. <i>Research on Chemical Intermediates</i> , 2021 , 47, 2003-2028	2.8	3
87	A Multi-Nuclear MAS-NMR Study on the Structural Properties of Silicalite-1 Zeolite Synthesized Using N- and P-Based Organic Structure Directing Agents. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6850	2.6	
86	AgY zeolite as catalyst for the selective catalytic oxidation of NH ₃ . <i>Microporous and Mesoporous Materials</i> , 2021 , 323, 111230	5.3	3
85	Partial oxidation of H ₂ S to sulfur on V-Cu-O mixed oxides bronzes. <i>Catalysis Today</i> , 2019 , 333, 237-244	5.3	7
84	Host-Guest and Guest-Guest Interactions of P- and N-Containing Structure Directing Agents Entrapped inside MFI-Type Zeolite by Multinuclear NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22324-22334	3.8	7
83	Use of Alkylarsonium Directing Agents for the Synthesis and Study of Zeolites. <i>Chemistry - A European Journal</i> , 2019 , 25, 16390-16396	4.8	5
82	Spectroscopic Evidence and Density Functional Theory (DFT) Analysis of Low-Temperature Oxidation of Cu ⁺ to Cu ²⁺ +NO _x in Cu-CHA Catalysts: Implications for the SCR-NO _x Reaction Mechanism. <i>ACS Catalysis</i> , 2019 , 9, 2725-2738	13.1	33
81	On the performance of Fe-Cu-ZSM-5 catalyst for the selective catalytic reduction of NO with NH ₃ : the influence of preparation method. <i>Research on Chemical Intermediates</i> , 2019 , 45, 1057-1072	2.8	4
80	Modeling of EPR Parameters for Cu(II): Application to the Selective Reduction of NO _x Catalyzed by Cu-Zeolites. <i>Topics in Catalysis</i> , 2018 , 61, 810-832	2.3	12
79	Inelastic Neutron Scattering Study of the Aluminum and Brønsted Site Location in Aluminosilicate LTA Zeolites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11450-11454	3.8	7
78	Characterization and NH ₃ -SCR reactivity of Cu-Fe-ZSM-5 catalysts prepared by solid state ion exchange: The metal exchange order effect. <i>Microporous and Mesoporous Materials</i> , 2018 , 260, 217-226	5.3	44
77	Selective catalytic reduction of nitric oxide with ammonia over Fe-Cu modified highly silicated zeolites. <i>Solid State Sciences</i> , 2018 , 84, 75-85	3.4	12
76	Evidence of a Cu ²⁺ -Alkane Interaction in Cu-Zeolite Catalysts Crucial for the Selective Catalytic Reduction of NO _x with Hydrocarbons. <i>ACS Catalysis</i> , 2017 , 7, 3501-3509	13.1	20
75	Partial oxidation of hydrogen sulfide to sulfur over vanadium oxides bronzes. <i>Catalysis Today</i> , 2016 , 259, 237-244	5.3	16
74	One-pot deposition of gold on hybrid TiO ₂ nanoparticles and catalytic application in the selective oxidation of benzyl alcohol. <i>Materials Chemistry and Physics</i> , 2015 , 149-150, 59-68	4.4	9

73	Ammonia-Containing Species Formed in Cu-Chabazite As Per In Situ EPR, Solid-State NMR, and DFT Calculations. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1011-7	6.4	59
72	Study of propane oxidation on Cu-zeolite catalysts by in-situ EPR and IR spectroscopies. <i>Catalysis Today</i> , 2014 , 227, 123-129	5.3	24
71	Understanding effects of activation-treatments in K-free and K-MoVSbO bronze catalysts for propane partial oxidation. <i>Catalysis Today</i> , 2014 , 238, 41-48	5.3	12
70	Silica supported copper and cerium oxide catalysts for ethyl acetate oxidation. <i>Journal of Colloid and Interface Science</i> , 2013 , 404, 155-60	9.3	17
69	Gold(III) stabilized over ionic liquids grafted on MCM-41 for highly efficient three-component coupling reactions. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 16927-34	3.6	40
68	Catalytic VOCs elimination over copper and cerium oxide modified mesoporous SBA-15 silica. <i>Applied Catalysis A: General</i> , 2013 , 453, 1-12	5.1	71
67	Pore topology control of supported on mesoporous silicas copper and cerium oxide catalysts for ethyl acetate oxidation. <i>Microporous and Mesoporous Materials</i> , 2013 , 180, 156-161	5.3	17
66	Identification of Active Surface Species for Friedel-Crafts Acylation and Koch Carbonylation Reactions by in situ Solid-State NMR Spectroscopy. <i>Angewandte Chemie</i> , 2013 , 125, 5242-5245	3.6	10
65	Evolution of Mineralogical Phases by ²⁷ Al and ²⁹ Si NMR in MK-Ca(OH) ₂ System Cured at 60°C. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2306-2310	3.8	18
64	Identification of active surface species for Friedel-Crafts acylation and Koch carbonylation reactions by in situ solid-state NMR spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5138-41	16.4	19
63	Structural Characterization of Zeolites by Advanced Solid State NMR Spectroscopic Methods. <i>Annual Reports on NMR Spectroscopy</i> , 2012 , 77, 259-351	1.7	31
62	Insights into reaction mechanisms in heterogeneous catalysis revealed by in situ NMR spectroscopy. <i>Chemical Society Reviews</i> , 2010 , 39, 4685-702	58.5	64
61	Modelling active sites for the Beckmann rearrangement reaction in boron-containing zeolites and their interaction with probe molecules. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6396-403	3.6	22
60	In situ multinuclear solid-state NMR spectroscopy study of Beckmann rearrangement of cyclododecanone oxime in ionic liquids: The nature of catalytic sites. <i>Journal of Catalysis</i> , 2010 , 275, 78-83	7.3	10
59	Layering of ferrierite sheets by using large co-structure directing agents: Zeolite synthesis using 1-benzyl-1-methylpyrrolidinium and tetraethylammonium. <i>Microporous and Mesoporous Materials</i> , 2010 , 132, 375-383	5.3	9
58	Electrical conductivity of a MoVTaNbO catalyst in propene oxidation measured in operando conditions. <i>Catalysis Today</i> , 2010 , 155, 311-318	5.3	14
57	Influence of Activated Art Paper Sludge-Lime Ratio on Hydration Kinetics and Mechanical Behavior in Mixtures Cured at 20°C. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 3014-3021	3.8	15
56	Investigation on the Beckmann rearrangement reaction catalyzed by porous solids: MAS NMR and theoretical calculations. <i>Solid State Nuclear Magnetic Resonance</i> , 2009 , 35, 120-9	3.1	16

55	Characterization of zeolite basicity using probe molecules by means of infrared and solid state NMR spectroscopies. <i>Catalysis Today</i> , 2009 , 143, 293-301	5.3	25
54	Study of the Beckmann rearrangement of acetophenone oxime over porous solids by means of solid state NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5134-41	3.6	16
53	On the Use of CHClF ₂ as a Probe of Basic Sites in Zeolites: The Host-Guest Interactions Investigated by Multinuclear NMR. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 16961-16967	3.8	8
52	Characterization of LTA- and CHA- type zeolites by means of solid state NMR. <i>Studies in Surface Science and Catalysis</i> , 2008 , 174, 989-992	1.8	
51	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. <i>Microporous and Mesoporous Materials</i> , 2008 , 114, 312-321	5.3	7
50	Carbonylation of methanol on metal-acid zeolites: evidence for a mechanism involving a multisite active center. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3938-41	16.4	102
49	Carbonylation of Methanol on Metal-Acid Zeolites: Evidence for a Mechanism Involving a Multisite Active Center. <i>Angewandte Chemie</i> , 2007 , 119, 4012-4015	3.6	21
48	(S)-(1N-benzylpyrrolidine-2-methanol: A new and efficient structure directing agent for the synthesis of crystalline microporous aluminophosphates with AFI-type structure. <i>Microporous and Mesoporous Materials</i> , 2007 , 100, 55-62	5.3	17
47	NMR spectroscopy and theoretical calculations demonstrate the nature and location of active sites for the Beckmann rearrangement reaction in microporous materials. <i>Journal of Catalysis</i> , 2007 , 249, 116-119	7.3	24
46	Hydrothermal stabilization of ZSM-5 catalytic-cracking additives by phosphorus addition. <i>Journal of Catalysis</i> , 2006 , 237, 267-277	7.3	311
45	Changing the Si distribution in SAPO-11 by synthesis with surfactants improves the hydroisomerization/dewaxing properties. <i>Journal of Catalysis</i> , 2006 , 242, 153-161	7.3	125
44	Insight into the active sites for the Beckmann rearrangement on porous solids by in situ infrared spectroscopy. <i>Journal of Catalysis</i> , 2006 , 243, 270-277	7.3	44
43	Evolution of ordinary Portland cement hydration with admixtures by spectroscopic techniques. <i>Advances in Cement Research</i> , 2006 , 18, 111-117	1.8	3
42	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. <i>Microporous and Mesoporous Materials</i> , 2006 , 88, 235-245	5.3	8
41	Influence of the alkyl chain length of HSO ₃ -R-MCM-41 on the esterification of glycerol with fatty acids. <i>Microporous and Mesoporous Materials</i> , 2005 , 80, 33-42	5.3	65
40	Structure-directing role of molecules containing benzyl rings in the synthesis of a large-pore aluminophosphate molecular sieve: an experimental and computational study. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21539-48	3.4	27
39	Cooperative Structure-Directing Effect of Fluorine-Containing Organic Molecules and Fluoride Anions in the Synthesis of Zeolites. <i>Chemistry of Materials</i> , 2005 , 17, 4374-4385	9.6	33
38	Fluorine-containing organic molecules as structure directing agents in the synthesis of crystalline microporous materials. Part I: Synthesis of AlPO ₄ -5 and SAPO-5 from fluorobenzyl-pyrrolidine. <i>Microporous and Mesoporous Materials</i> , 2005 , 78, 189-197	5.3	23

37	Sol-gel synthesis of mesostructured aluminas from chemically modified aluminum sec-butoxide using non-ionic surfactant templating. <i>Microporous and Mesoporous Materials</i> , 2005 , 80, 173-182	5.3	33
36	Establishing a molecular mechanism for the Beckmann rearrangement of oximes over microporous molecular sieves. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2370-3	16.4	55
35	Establishing a Molecular Mechanism for the Beckmann Rearrangement of Oximes over Microporous Molecular Sieves. <i>Angewandte Chemie</i> , 2005 , 117, 2422-2425	3.6	10
34	The investigation of beta polymorphs by ¹⁹ F nuclear magnetic resonance. <i>Studies in Surface Science and Catalysis</i> , 2004 , 154, 1289-1294	1.8	7
33	Selective oxidation of propane to acrylic acid on K-doped MoVSbO catalysts: catalyst characterization and catalytic performance. <i>Journal of Catalysis</i> , 2004 , 228, 362-373	7.3	39
32	Preparation, characterization and reactivity of V- and/or Co-containing AlPO-18 materials (VCoAPO-18) in the oxidative dehydrogenation of ethane. <i>Microporous and Mesoporous Materials</i> , 2004 , 67, 215-227	5.3	25
31	Synthesis, characterization, and framework heteroatom localization in ITQ-21. <i>Journal of the American Chemical Society</i> , 2004 , 126, 13414-23	16.4	54
30	Nuclear magnetic resonance investigation on the adsorption of pyrrole over alkali-exchanged zeolites X. <i>Studies in Surface Science and Catalysis</i> , 2004 , 154, 1769-1776	1.8	5
29	Distribution of Fluorine and Germanium in a New Zeolite Structure ITQ-13 Studied by ¹⁹ F Nuclear Magnetic Resonance. <i>Chemistry of Materials</i> , 2003 , 15, 3961-3963	9.6	61
28	Selective and shape-selective Baeyer-Villiger oxidations of aromatic aldehydes and cyclic ketones with Sn-beta zeolites and H ₂ O ₂ . <i>Chemistry - A European Journal</i> , 2002 , 8, 4708-17	4.8	225
27	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. <i>Angewandte Chemie</i> , 2002 , 114, 4916-4920	3.6	17
26	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. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4722-6	16.4	123
25	Investigation on the nature of the adsorption sites of pyrrole in alkali-exchanged zeolite y by nuclear magnetic resonance in combination with infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2002 , 124, 3443-56	16.4	39
24	Preferential Location of Ge in the Double Four-Membered Ring Units of ITQ-7 Zeolite. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2634-2642	3.4	194
23	Coke characterisation in aged residue hydrotreating catalysts by solid-state ¹³ C-NMR spectroscopy and temperature-programmed oxidation. <i>Applied Catalysis A: General</i> , 2001 , 218, 181-188	5.1	69
22	Vanadium Oxide Supported on Mesoporous MCM-41 as Selective Catalysts in the Oxidative Dehydrogenation of Alkanes. <i>Journal of Catalysis</i> , 2001 , 203, 443-452	7.3	181
21	Magnetic resonance studies on V-containing, and V,Mg-containing AFI aluminophosphates. <i>Microporous and Mesoporous Materials</i> , 2000 , 39, 219-228	5.3	25
20	On the nature of V and Mg ions in V, Mg-containing AlPO ₄ -5 catalysts. <i>Journal of Molecular Catalysis A</i> , 2000 , 162, 267-273		11

19	Characterization of Ga-substituted zeolite Beta by X-ray absorption spectroscopy. <i>Journal of Materials Chemistry</i> , 2000 , 10, 1383-1387		25
18	Pyrrole as an NMR probe molecule to characterise zeolite basicity. <i>Chemical Communications</i> , 2000 , 491-492		33
17	Magic angle spinning NMR investigations on amorphous aluminophosphate oxynitrides. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4493-4499	3.6	20
16	An NMR study on the adsorption and reactivity of chloroform over alkali exchanged zeolites X and Y. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 4529-4535	3.6	32
15	Supported heteropolyacid (HPW) catalysts for the continuous alkylation of isobutane with 2-butene: The benefit of using MCM-41 with larger pore diameters. <i>Journal of Catalysis</i> , 1998 , 177, 306-313	7.3	217
14	Direct Synthesis and Characterization of Hydrophobic Aluminum-Free TiBeta Zeolite. <i>Journal of Physical Chemistry B</i> , 1998 , 102, 75-88	3.4	331
13	Oxidative Dehydrogenation of Ethane on Vanadium-Containing Aluminophosphates with AFI Structure. <i>Collection of Czechoslovak Chemical Communications</i> , 1998 , 63, 1869-1883		7
12	A solid-state NMR study of the molecular sieve VPI-5 synthesized in the presence of a CTABr surfactant. <i>Solid State Nuclear Magnetic Resonance</i> , 1997 , 8, 185-94	3.1	8
11	Unseeded synthesis of Al-free Ti-zeolite in fluoride medium: a hydrophobic selective oxidation catalyst. <i>Chemical Communications</i> , 1996 , 2367-2368	5.8	119
10	Nuclear magnetic resonance studies on supported vanadium oxide catalysts. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996 , 115, 187-193	5.1	15
9	Preparation, Characterization, and Catalytic Properties of VAPO-5 for the Oxydehydrogenation of Propane. <i>Journal of Catalysis</i> , 1995 , 152, 1-17	7.3	103
8	Synthesis, Characterization, and Catalytic Activity of Ti-MCM-41 Structures. <i>Journal of Catalysis</i> , 1995 , 156, 65-74	7.3	542
7	Influence of the Acid-Base Character of Supported Vanadium Catalysts on Their Catalytic Properties for the Oxidative Dehydrogenation of n-Butane. <i>Journal of Catalysis</i> , 1995 , 157, 271-282	7.3	143
6	Synthesis of SiVPI-5 with enhanced activity in acid catalysed reactions. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 731-732		17
5	X-Ray photoelectron spectroscopy of Ti-Beta zeolite. <i>Microporous Materials</i> , 1994 , 3, 259-263		29
4	The state of Ti in titanoaluminosilicates isomorphous with zeolite .beta.. <i>Journal of the American Chemical Society</i> , 1993 , 115, 11806-11813	16.4	305
3	Crystallization kinetics of SAPO-37. <i>Zeolites</i> , 1992 , 12, 386-394		20
2	EPR study of the surface reactivity and reducibility under vacuum of a RhCl ₃ /SrTiO ₃ catalyst precursor. <i>Vacuum</i> , 1987 , 37, 469-471	3.7	1

- 1 Paramagnetic oxygen complexes on RhCl₃/TiO₂ catalyst precursors. *Journal of Molecular Structure*, **1986**, 143, 255-258 3.4 4