

Susana Valencia

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.

75
papers

5,853
citations

36
h-index

76
g-index

78
ext. papers

6,407
ext. citations

8.1
avg. IF

5.34
L-index

#	Paper	IF	Citations
75	ITQ-69: A Germanium-Containing Zeolite and its Synthesis, Structure Determination, and Adsorption Properties. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 11745-11750	16.4	1
74	ITQ-69: A Germanium-Containing Zeolite and its Synthesis, Structure Determination, and Adsorption Properties. <i>Angewandte Chemie</i> , 2021 , 133, 11851-11856	3.6	0
73	Capturing renewable isobutanol from model vapor mixtures using an all-silica beta zeolite. <i>Chemical Engineering Journal</i> , 2021 , 412, 128658	14.7	3
72	Multiscale exploration of hydrocarbon adsorption and hopping through ZSM-5 channels - from Monte Carlo modelling to experiment. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 2981-2990	3.6	1
71	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	
70	Unusually Low Heat of Adsorption of CO on AlPO and SAPO Molecular Sieves. <i>Frontiers in Chemistry</i> , 2020 , 8, 588712	5	4
69	Insights into Adsorption of Linear, Monobranched, and Dibranched Alkanes on Pure Silica STW Zeolite as a Promising Material for Their Separation. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26821-26829	3.8	5
68	Zeolites and Other Adsorbents. <i>Green Energy and Technology</i> , 2019 , 173-208	0.6	9
67	Adsorption of Alkanes in Zeolites LTA and FAU: Quasi-Equilibrated Thermodesorption Supported by Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29665-29678	3.8	6
66	Synthesis and structure determination via ultra-fast electron diffraction of the new microporous zeolitic germanosilicate ITQ-62. <i>Chemical Communications</i> , 2018 , 54, 2122-2125	5.8	16
65	A highly stable and hierarchical tetrathiafulvalene-based metal-organic framework with improved performance as a solid catalyst. <i>Chemical Science</i> , 2018 , 9, 2413-2418	9.4	37
64	Estimating CO ₂ /N ₂ Permeability through Si/Al = 5 Small-Pore Zeolites/PTMSP Mixed Matrix Membranes: Influence of Temperature and Topology. <i>Membranes</i> , 2018 , 8,	3.8	4
63	Study of Short-Chain Alcohol and Alcohol-Water Adsorption in MEL and MFI Zeolites. <i>Langmuir</i> , 2018 , 34, 12739-12750	4	10
62	Gas confinement in compartmentalized coordination polymers for highly selective sorption. <i>Chemical Science</i> , 2017 , 8, 3109-3120	9.4	11
61	Intensified Biobutanol Recovery by using Zeolites with Complementary Selectivity. <i>ChemSusChem</i> , 2017 , 10, 2968-2977	8.3	23
60	Control of zeolite framework flexibility and pore topology for separation of ethane and ethylene. <i>Science</i> , 2017 , 358, 1068-1071	33.3	195
59	Inelastic Neutron Scattering Study on the Location of Brønsted Acid Sites in High Silica LTA Zeolite. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24904-24909	3.8	16

58	Isostructural compartmentalized spin-crossover coordination polymers for gas confinement. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 808-813	6.8	8
57	Permselectivity improvement in membranes for CO ₂ /N ₂ separation. <i>Separation and Purification Technology</i> , 2016 , 157, 102-111	8.3	28
56	Mixed Matrix Membranes for O ₂ /N ₂ Separation: The Influence of Temperature. <i>Membranes</i> , 2016 , 6,	3.8	22
55	Critical Role of Dynamic Flexibility in Ge-Containing Zeolites: Impact on Diffusion. <i>Chemistry - A European Journal</i> , 2016 , 22, 10036-43	4.8	19
54	Synthesis of furan derivatives via cascade-type reactions catalyzed by solid acids. <i>Catalysis Today</i> , 2015 , 257, 305-317	5.3	6
53	Highly fluorescent C-dots obtained by pyrolysis of quaternary ammonium ions trapped in all-silica ITQ-29 zeolite. <i>Nanoscale</i> , 2015 , 7, 1744-52	7.7	34
52	LTA/Poly(1-trimethylsilyl-1-propyne) Mixed-Matrix Membranes for High-Temperature CO ₂ /N ₂ Separation. <i>Chemical Engineering and Technology</i> , 2015 , 38, 658-666	2	34
51	Tuning the Adsorption Properties of Zeolites as Adsorbents for CO ₂ Separation: Best Compromise between the Working Capacity and Selectivity. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 9860-9874	3.9	36
50	Cation Gating and Relocation during the Highly Selective Trapdoor Adsorption of CO ₂ on Univalent Cation Forms of Zeolite Rho. <i>Chemistry of Materials</i> , 2014 , 26, 2052-2061	9.6	68
49	The impact of zeolite pore structure on the catalytic behavior of CuZnAl/zeolite hybrid catalysts for the direct DME synthesis. <i>Applied Catalysis A: General</i> , 2013 , 468, 102-111	5.1	47
48	Synthesis of a novel zeolite through a pressure-induced reconstructive phase transition process. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10458-62	16.4	36
47	Synthesis of a Novel Zeolite through a Pressure-Induced Reconstructive Phase Transition Process. <i>Angewandte Chemie</i> , 2013 , 125, 10652-10656	3.6	13
46	Oriented CoSAPO-5 membranes by microwave-enhanced growth on TiO ₂ -coated porous alumina. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2470-3	16.4	24
45	Zeolite Rho: a highly selective adsorbent for CO ₂ /CH ₄ separation induced by a structural phase modification. <i>Chemical Communications</i> , 2012 , 48, 215-7	5.8	118
44	Preparation and characterization of ITQ-29/polysulfone mixed-matrix membranes for gas separation: Effect of zeolite composition and crystal size. <i>Chemical Engineering Science</i> , 2012 , 73, 116-122	4.4	37
43	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	5.1	26
42	New insights on CO ₂ -methane separation using LTA zeolites with different Si/Al ratios and a first comparison with MOFs. <i>Langmuir</i> , 2010 , 26, 1910-7	4	201
41	Analysis of the ITQ-12 Zeolite Performance in Propane/Propylene Separations Using a Combination of Experiments and Molecular Simulations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14907-14914	3.8	42

40	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	7.3	52
39	Natural gas treating by selective adsorption: Material science and chemical engineering interplay. <i>Chemical Engineering Journal</i> , 2009 , 155, 553-566	14.7	320
38	Water Resistant, Catalytically Active Nb and Ta Isolated Lewis Acid Sites, Homogeneously Distributed by Direct Synthesis in a Beta Zeolite. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11306-11315 ^{3.8}	3.8	99
37	Reactivity in the confined spaces of zeolites: the interplay between spectroscopy and theory to develop structure-activity relationships for catalysis. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2876-2884 ^{3.6}	3.6	74
36	A New United Atom Force Field for Adsorption of Alkenes in Zeolites. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 2492-2498	3.8	55
35	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	
34	Charge matching between the occluded organic cations and zeolite framework as structure directing effect in zeolite synthesis. <i>Studies in Surface Science and Catalysis</i> , 2008 , 174, 249-252	1.8	7
33	Preparation of ITQ-29 (Al-free zeolite A) membranes. <i>Microporous and Mesoporous Materials</i> , 2008 , 110, 303-309	5.3	35
32	Catalytic behavior of hybrid Co/SiO ₂ -(medium-pore) zeolite catalysts during the one-stage conversion of syngas to gasoline. <i>Applied Catalysis A: General</i> , 2008 , 346, 117-125	5.1	50
31	Titanium-containing zeolites and microporous molecular sieves as photovoltaic solar cells. <i>ChemPhysChem</i> , 2007 , 8, 1115-9	3.2	54
30	A new photochemical based route for the preparation of organic structure directing agents useful for zeolite synthesis. <i>Studies in Surface Science and Catalysis</i> , 2007 , 170, 330-337	1.8	2
29	Pure silica ITQ-32 zeolite allows separation of linear olefins from paraffins. <i>Chemical Communications</i> , 2007 , 1233-5	5.8	76
28	Direct synthesis of a 9 ¹⁰ member ring zeolite (Al-ITQ-13): A highly shape-selective catalyst for catalytic cracking. <i>Journal of Catalysis</i> , 2006 , 238, 79-87	7.3	65
27	Synthesis and structure of the bidimensional zeolite ITQ-32 with small and large pores. <i>Journal of the American Chemical Society</i> , 2005 , 127, 11560-1	16.4	63
26	A new synthesis method for the preparation of ITQ-7 zeolites and the characterisation of the resulting materials. <i>Comptes Rendus Chimie</i> , 2005 , 8, 369-378	2.7	18
25	Uniform catalytic site in Sn-beta-zeolite determined using X-ray absorption fine structure. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12924-32	16.4	119
24	Determination of the catalytically active oxidation Lewis acid sites in Sn-beta zeolites, and their optimisation by the combination of theoretical and experimental studies. <i>Journal of Catalysis</i> , 2005 , 234, 111-118	7.3	237
23	Supramolecular self-assembled molecules as organic directing agent for synthesis of zeolites. <i>Nature</i> , 2004 , 431, 287-90	50.4	453

22	Water-resistant solid Lewis acid catalysts: Meerwein-Ponndorf-Verley and Oppenauer reactions catalyzed by tin-beta zeolite. <i>Journal of Catalysis</i> , 2003 , 215, 294-304	7.3	345
21	A zeolite with interconnected 8-, 10- and 12-ring pores and its unique catalytic selectivity. <i>Nature Materials</i> , 2003 , 2, 493-7	27	226
20	Computational and Experimental Approach to the Role of Structure-Directing Agents in the Synthesis of Zeolites: The Case of Cyclohexyl Alkyl Pyrrolidinium Salts in the Synthesis of β -EU-1, ZSM-11, and ZSM-12 Zeolites. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5432-5440	3.4	72
19	IM-5: A Highly Thermal and Hydrothermal Shape-Selective Cracking Zeolite. <i>Journal of Catalysis</i> , 2002 , 206, 125-133	7.3	55
18	Al-free Sn-Beta zeolite as a catalyst for the selective reduction of carbonyl compounds (Meerwein-Ponndorf-Verley reaction). <i>Journal of the American Chemical Society</i> , 2002 , 124, 3194-5	16.4	335
17	Pure Polymorph C of Zeolite Beta Synthesized by Using Framework Isomorphous Substitution as a Structure-Directing Mechanism. <i>Angewandte Chemie</i> , 2001 , 113, 2337-2340	3.6	56
16	Pure Polymorph C of Zeolite Beta Synthesized by Using Framework Isomorphous Substitution as a Structure-Directing Mechanism. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2277-2280	16.4	233
15	Sn-zeolite beta as a heterogeneous chemoselective catalyst for Baeyer-Villiger oxidations. <i>Nature</i> , 2001 , 412, 423-5	50.4	765
14	Synthesis of pure polymorph C of Beta zeolite in a fluoride-free system. <i>Chemical Communications</i> , 2001 , 1486-1487	5.8	73
13	On the researching of a new zeolite structure for the selective catalytic reduction of NO: The possibilities of Cu-exchanged IM5. <i>Journal of Molecular Catalysis A</i> , 2000 , 162, 175-189		44
12	Selective hydration of dihydromyrcene to dihydromyrcenol over H-beta zeolite.: Influence of the microstructural properties and process variables. <i>Applied Catalysis A: General</i> , 2000 , 203, 251-258	5.1	23
11	Determination of the Pore Topology of Zeolite IM-5 by Means of Catalytic Test Reactions and Hydrocarbon Adsorption Measurements. <i>Journal of Catalysis</i> , 2000 , 189, 382-394	7.3	60
10	Acylation of Toluene with Acetic Anhydride over Beta Zeolites: Influence of Reaction Conditions and Physicochemical Properties of the Catalyst. <i>Journal of Catalysis</i> , 2000 , 195, 161-168	7.3	89
9	Electrochemical characterization of two different framework Ti(IV) species in Ti/Beta zeolites in contact with solvents. <i>Topics in Catalysis</i> , 2000 , 11/12, 401-407	2.3	8
8	Spontaneous nucleation and growth of pure silica zeolite-free of connectivity defects. <i>Chemical Communications</i> , 1996 , 2365	5.8	230
7	Synthesis and catalytic activity of aluminium-free zeolite Ti-oxidation catalysts. <i>Chemical Communications</i> , 1996 , 1339-1340	5.8	101
6	Large pore ti-beta zeolite with very low aluminium content: An active and selective catalyst for oxidations using hydrogen peroxide. <i>Industrial Chemistry Library</i> , 1996 , 8, 391-404		2
5	Influence of the solvent on the titanium beta catalyzed oxidation of phenylethylenes without carbon-carbon double bond cleavage. <i>Applied Catalysis A: General</i> , 1995 , 128, L7-L11	5.1	12

4	A new highly efficient method for the synthesis of Ti-Beta zeolite oxidation catalyst. <i>Applied Catalysis A: General</i> , 1995 , 133, L185-L189	5.1	34
3	Oxidation of Olefins with Hydrogen Peroxide and tert-Butyl Hydroperoxide on Ti-Beta Catalyst. <i>Journal of Catalysis</i> , 1995 , 152, 18-24	7.3	162
2	Influence of the Synthesis Procedure and Chemical Composition on the Activity of Titanium in Ti-Beta Catalysts. <i>Studies in Surface Science and Catalysis</i> , 1994 , 82, 531-540	1.8	8
1	A Career in Catalysis: Avelino Corma. <i>ACS Catalysis</i> , 7054-7123	13.1	1