

Jaime S Valente

List of Publications by Citations

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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.

81
papers

2,890
citations

31
h-index

52
g-index

83
ext. papers

3,082
ext. citations

7
avg, IF

4.94
L-index

#	Paper	IF	Citations
81	Activation of MgAl Hydrotalcite Catalysts for Aldol Condensation Reactions. <i>Journal of Catalysis</i> , 1998 , 173, 115-121	7.3	261
80	Adsorption and photocatalytic degradation of phenol and 2,4 dichlorophenoxyacetic acid by MgAl layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 330-338	21.8	214
79	Basic Properties of the Mixed Oxides Obtained by Thermal Decomposition of Hydrotalcites Containing Different Metallic Compositions. <i>Journal of Catalysis</i> , 2000 , 189, 370-381	7.3	147
78	Highly efficient photocatalytic elimination of phenol and chlorinated phenols by CeO ₂ /MgAl layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2011 , 102, 276-285	21.8	120
77	Meerwein-Ponndorf-Verley reduction of carbonyl compounds catalysed by MgAl hydrotalcite. <i>Chemical Communications</i> , 1998 , 535-536	5.8	97
76	SO _x removal by calcined MgAlFe hydrotalcite-like materials: effect of the chemical composition and the cerium incorporation method. <i>Environmental Science & Technology</i> , 2005 , 39, 9715-20	10.3	87
75	Chemical, Structural, and Morphological Changes of a MoVTenb Catalyst during Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2014 , 4, 1292-1301	13.1	82
74	Crystallization of Sol-Gel Boehmite via Hydrothermal Annealing. <i>Journal of Solid State Chemistry</i> , 2002 , 166, 182-190	3.3	81
73	Method for Large-Scale Production of Multimetallic Layered Double Hydroxides: Formation Mechanism Discernment. <i>Chemistry of Materials</i> , 2009 , 21, 5809-5818	9.6	76
72	MgFe Hydrotalcite as a Catalyst for the Reduction of Aromatic Nitro Compounds with Hydrazine Hydrate. <i>Journal of Catalysis</i> , 2000 , 191, 467-473	7.3	73
71	Reduction of aromatic nitro compounds with hydrazine hydrate in the presence of the iron(III) oxide-MgO catalyst prepared from a MgFe hydrotalcite precursor. <i>Tetrahedron Letters</i> , 1998 , 39, 2573-2574	7.2	72
70	Calcined layered double hydroxides MgMeAl (Me: Cu, Fe, Ni, Zn) as bifunctional catalysts. <i>Catalysis Today</i> , 2010 , 150, 340-345	5.3	64
69	Cyanoethylation of alcohols by activated MgAl layered double hydroxides: Influence of rehydration conditions and Mg/Al molar ratio on Brønsted basicity. <i>Journal of Catalysis</i> , 2011 , 279, 196-204	7.3	62
68	Comprehending the Thermal Decomposition and Reconstruction Process of Sol-Gel MgAl Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 2089-2099	3.8	62
67	Physicochemical and Catalytic Properties of Sol-Gel Aluminas Aged under Hydrothermal Conditions. <i>Langmuir</i> , 2003 , 19, 3583-3588	4	62
66	Modified MgAl hydrotalcite: a highly active heterogeneous base catalyst for cyanoethylation of alcohols. <i>Chemical Communications</i> , 1998 , 1091-1092	5.8	60
65	Proposed General Sol-Gel Method to Prepare Multimetallic Layered Double Hydroxides: Synthesis, Characterization, and Envisaged Application. <i>Chemistry of Materials</i> , 2009 , 21, 5826-5835	9.6	59

64	Synthesis and catalytic properties of nanostructured aluminas obtained by sol-gel method. <i>Applied Catalysis A: General</i> , 2004 , 264, 175-181	5.1	57
63	Photocatalytic degradation of phenol by semiconducting mixed oxides derived from Zn(Ga)Al layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2015 , 163, 352-360	21.8	52
62	Kinetic modeling of the oxidative dehydrogenation of ethane to ethylene over a MoVTenbO catalytic system. <i>Chemical Engineering Journal</i> , 2014 , 252, 75-88	14.7	48
61	Preparation and Characterization of Sol-Gel MgAl Hydrotalcites with Nanocapsular Morphology. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 642-651	3.8	48
60	Hydrogen Transfer Reduction of 4-tert-Butylcyclohexanone and Aldol Condensation of Benzaldehyde with Acetophenone on Basic Solids. <i>Journal of Catalysis</i> , 2002 , 208, 30-37	7.3	45
59	Photocatalytically enhanced Cr(VI) removal by mixed oxides derived from MeAl (Me:Mg and/or Zn) layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 546-551	21.8	44
58	Thermal decomposition kinetics of MgAl layered double hydroxides. <i>Materials Chemistry and Physics</i> , 2012 , 133, 621-629	4.4	43
57	Low Concentration Fe-Doped Alumina Catalysts Using Sol-Gel and Impregnation Methods: The Synthesis, Characterization and Catalytic Performance during the Combustion of Trichloroethylene. <i>Materials</i> , 2014 , 7, 2062-2086	3.5	41
56	Kinetic Study of Oxidative Dehydrogenation of Ethane over MoVTenb Mixed-Oxide Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 1775-1786	3.9	40
55	Thermokinetic study of the rehydration process of a calcined MgAl-layered double hydroxide. <i>Langmuir</i> , 2010 , 26, 4074-9	4	36
54	Dependence of chemical composition of calcined hydrotalcite-like compounds for SOx reduction. <i>Catalysis Today</i> , 2010 , 150, 332-339	5.3	36
53	A Simple Environmentally Friendly Method to Prepare Versatile Hydrotalcite-like Compounds. <i>Chemistry of Materials</i> , 2008 , 20, 1230-1232	9.6	36
52	Isophorone Isomerization as Model Reaction for the Characterization of Solid Bases: Application to the Determination of the Number of Sites. <i>Journal of Catalysis</i> , 2002 , 211, 144-149	7.3	35
51	Hydrated lime as an effective heterogeneous catalyst for the transesterification of castor oil and methanol. <i>Fuel</i> , 2013 , 110, 54-62	7.1	32
50	4-Chlorophenol Oxidation Photocatalyzed by a Calcined MgAlZn Layered Double Hydroxide in a Co-current Downflow Bubble Column. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11544-11552	3.9	29
49	Active sulfated alumina catalysts obtained by hydrothermal treatment. <i>Journal of Catalysis</i> , 2003 , 220, 317-325	7.3	27
48	Fractal Geometry Approach to Describe Mesostructured Boehmite and Gamma-Alumina Nanorods. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 1544-1551	2.3	26
47	Direct synthesis of calcium diglyceroxide from hydrated lime and glycerol and its evaluation in the transesterification reaction. <i>Fuel</i> , 2014 , 138, 126-133	7.1	24

46	Understanding the kinetic behavior of a MoVTeNb mixed oxide in the oxydehydrogenation of ethane. <i>Fuel</i> , 2014 , 138, 15-26	7.1	24
45	Synthesis and characterization of functionalized alumina catalysts with thiol and sulfonic groups and their performance in producing 5-hydroxymethylfurfural from fructose. <i>Fuel</i> , 2017 , 198, 134-144	7.1	24
44	Long-term evaluation of NiMo/alumina-carbon black composite catalysts in hydroconversion of Mexican 538°C+ vacuum residue. <i>Catalysis Today</i> , 2005 , 109, 69-75	5.3	23
43	Selective Isobutene Oligomerization by Mesoporous MSU-SBEA Catalysts. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5809-5816	3.8	22
42	Sulfur reduction in cracked naphtha by a commercial additive: effect of feed and catalyst properties. <i>Applied Catalysis B: Environmental</i> , 2001 , 34, 137-148	21.8	22
41	CO ₂ capture at low temperatures (30-80 °C) and in the presence of water vapor over a thermally activated Mg-Al layered double hydroxide. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 12243-50	2.8	21
40	Physicochemical Study of Nanocapsular Layered Double Hydroxides Evolution. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5547-5555	3.8	20
39	Influence of Mg/Al Ratio on the Thermokinetic Rehydration of Calcined Mg/Al Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8485-8492	3.8	19
38	Novel SO _x removal catalysts for the FCC process: Manufacture method, characterization, and pilot-scale testing. <i>Energy and Environmental Science</i> , 2011 , 4, 4096	35.4	19
37	Phosphating alumina: A way to tailor its surface properties. <i>Microporous and Mesoporous Materials</i> , 2006 , 94, 277-282	5.3	19
36	Isophorone Isomerization as Model Reaction for the Characterization of Solid Bases: Application to the Determination of the Number of Sites. <i>Journal of Catalysis</i> , 2002 , 211, 144-149	7.3	17
35	Y zeolite depolymerization-crystallization: Simultaneous formation of hierarchical porosity and Na dislodging. <i>Microporous and Mesoporous Materials</i> , 2011 , 143, 375-382	5.3	16
34	Crystallization of faujasite Y from seeds dispersed on mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2010 , 132, 363-374	5.3	15
33	New synthesis technique of supported ZSM-5 using organo-alumino-silicic gels. <i>Microporous and Mesoporous Materials</i> , 2007 , 100, 70-76	5.3	15
32	Synthesis and characterization of nanocapsules with shells made up of Al ₁₃ tridecamers. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 22222-7	3.4	15
31	Green synthesis of hydrocalumite-type compounds and their evaluation in the transesterification of castor bean oil and methanol. <i>Fuel</i> , 2013 , 110, 23-31	7.1	14
30	Commercial Hydrated Lime as a Cost-Effective Solid Base for the Transesterification of Wasted Soybean Oil with Methanol for Biodiesel Production. <i>Energy & Fuels</i> , 2011 , 25, 3275-3282	4.1	14
29	Thermochemical and Cyclability Analyses of the CO ₂ Absorption Process on a Ca/Al Layered Double Hydroxide. <i>Journal of Environmental Engineering, ASCE</i> , 2011 , 137, 1058-1065	2	14

28	Effect of highly reactive sulfur species on sulfur reduction in cracking gasoline. <i>Applied Catalysis B: Environmental</i> , 2003 , 42, 145-154	21.8	14
27	Structural evolution of phosphated alumina during sol-gel synthesis. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 17435-9	3.4	13
26	Innovative method for hydrocalumite-like compounds preparation and their evaluation in the transesterification reaction. <i>Applied Clay Science</i> , 2015 , 114, 509-516	5.2	12
25	Sulfate Ions and Boehmite Crystallization in a Sol Made with Aluminum Tri-sec-butoxide and 2-Propanol. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 103-107	3.8	11
24	Zinc-aluminates for an in situ sulfur reduction in cracked gasoline. <i>Applied Catalysis B: Environmental</i> , 2008 , 81, 1-13	21.8	11
23	Quantitative relationships between boehmite and alumina crystallite sizes. <i>Journal of Materials Research</i> , 2004 , 19, 1499-1503	2.5	11
22	Mössbauer Spectroscopic Study of Iron Containing Hydrotalcite Catalysts for the Reduction of Aromatic Nitro Compounds. <i>Hyperfine Interactions</i> , 2000 , 131, 43-50	0.8	11
21	Controlling the redox properties of nickel in NiO/ZrO ₂ catalysts synthesized by sol-gel. <i>Catalysis Science and Technology</i> , 2018 , 8, 4070-4082	5.5	10
20	Manganese cryptomelane-type oxides: A thermo-kinetic and morphological study. <i>Applied Surface Science</i> , 2008 , 254, 3006-3013	6.7	10
19	Synthesis of silicalite-1 from organo-silicic gels. <i>Journal of Colloid and Interface Science</i> , 2008 , 323, 359-64	9.3	10
18	Theoretical Study of the Catalytic Performance of Activated Layered Double Hydroxides in the Cyanoethylation of Alcohols. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8777-8784	3.8	9
17	Sulfated Nanocapsular Aluminas: Controlling their Brønsted and Lewis Acidity. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16476-16484	3.8	9
16	Synthesis and characterization of SnO _x /Al ₂ O ₃ derived gel catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1996 , 59, 247-251		7
15	Discerning the Metal Doping Effect on Surface Redox and Acidic Properties in a MoVTeNbO for Propa(e)ne Oxidation. <i>ACS Omega</i> , 2021 , 6, 15279-15291	3.9	6
14	Synthesis and morphological modification of semiconducting Mg(Zn)Al(Ga)LDH/ITO thin films. <i>Materials Chemistry and Physics</i> , 2014 , 147, 339-348	4.4	5
13	Electrochemical characterization of carbon paste electrodes modified with MgZnGa and ZnGaAl hydrotalcite-like compounds. <i>Journal of Solid State Electrochemistry</i> , 2013 , 17, 3145-3152	2.6	5
12	On the influence of particle shape and process conditions in the pressure drop and hydrodynamics in a wall-effect fixed bed. <i>Chemical Engineering Communications</i> , 2018 , 205, 1323-1341	2.2	4
11	On the simultaneous effect of temperature, pressure, water content and space-time on acrylic acid production from propane. <i>Fuel</i> , 2020 , 282, 118852	7.1	4

10	Selective Vanillin Hydrodeoxygenation on Synthetic Takovite Derived NiAlOx Mixed Oxide. <i>Topics in Catalysis</i> , 2020 , 63, 428-436	2.3	3
9	Dynamic water vapor sorption on Mg(Ga ³⁺)O mixed oxides: Analysis of the LDH thermal regeneration process. <i>Thermochimica Acta</i> , 2013 , 553, 49-53	2.9	3
8	Effect of tetrabutyltin on the acidity and reducibility of platinum-tin alumina supported sol-gel catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1997 , 61, 49-55		3
7	Dibenzothiophene Hydrodesulfurization over P-CoMo on Sol-Gel Alumina Modified by La Addition. Effect of Rare-Earth Content. <i>Catalysts</i> , 2019 , 9, 359	4	2
6	On the role of oxidation states in the electronic structure via the formation of oxygen vacancies of a doped MoVTeNbOx in propylene oxidation. <i>Applied Surface Science</i> , 2022 , 573, 151428	6.7	2
5	Metal solution precursors: their role during the synthesis of MoVTeNb mixed oxide catalysts. <i>Catalysis Science and Technology</i> , 2018 , 8, 3123-3132	5.5	2
4	On the effect of a high reactive sulfur species on sulfur reduction in gasoline. <i>Studies in Surface Science and Catalysis</i> , 2004 , 149, 355-367	1.8	1
3	Manufacture Process Scale-Up and Industrial Testing of Novel Catalysts for SOx-Emissions Control in FCC Units. <i>Catalysis Letters</i> , 2019 , 149, 272-282	2.8	1
2	Upcycling of Municipal Glass and Aluminum Wastes for Synthesis of Hierarchical ZSM-5. <i>Clean - Soil, Air, Water</i> , 2100209	1.6	
1	EFEITO DEL DOBLE PROCESO DE DESPOLIMERIZACION-RECRISTALIZACION EN LAS PROPIEDADES FISICOQUIMICAS DE LA FAUJASITA / EFEITO DO PROCESSO DE DESPOLIMERIZACAO-CRISTALIZACAO DUPLA SOBRE AS PROPIEDADES FISICO-QUIMICAS DO FAUJASITA. <i>Brazilian Journal of Development</i> , 2020 , 6, 75485-75495	0	