

Jaime S Valente

List of Publications by Year in descending order

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82
papers

3,377
citations

126708

33
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149479

56
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83
all docs

83
docs citations

83
times ranked

3351
citing authors

#	ARTICLE	IF	CITATIONS
1	Activation of Mg-Al Hydrotalcite Catalysts for Aldol Condensation Reactions. <i>Journal of Catalysis</i> , 1998, 173, 115-121.	3.1	313
2	Adsorption and photocatalytic degradation of phenol and 2,4 dichlorophenoxyacetic acid by Mg-Zn-Al layered double hydroxides. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 330-338.	10.8	232
3	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.	3.1	173
4	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.	10.8	132
5	Meerwein-Ponndorf-Verley reduction of carbonyl compounds catalysed by Mg-Al hydrotalcite. <i>Chemical Communications</i> , 1998, , 535-536.	2.2	103
6	Chemical, Structural, and Morphological Changes of a MoVTeNb Catalyst during Oxidative Dehydrogenation of Ethane. <i>ACS Catalysis</i> , 2014, 4, 1292-1301.	5.5	103
7	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, 9715-9720.	4.6	94
8	Crystallization of Sol-Gel Boehmite via Hydrothermal Annealing. <i>Journal of Solid State Chemistry</i> , 2002, 166, 182-190.	1.4	91
9	Method for Large-Scale Production of Multimetallic Layered Double Hydroxides: Formation Mechanism Discernment. <i>Chemistry of Materials</i> , 2009, 21, 5809-5818.	3.2	86
10	Reduction of aromatic nitro compounds with hydrazine hydrate in the presence of the iron(III) oxide-MgO catalyst prepared from a Mg-Fe hydrotalcite precursor. <i>Tetrahedron Letters</i> , 1998, 39, 2573-2574.	0.7	81
11	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.	1.5	81
12	Mg-Fe Hydrotalcite as a Catalyst for the Reduction of Aromatic Nitro Compounds with Hydrazine Hydrate. <i>Journal of Catalysis</i> , 2000, 191, 467-473.	3.1	79
13	Calcined layered double hydroxides Mg-Me-Al (Me: Cu, Fe, Ni, Zn) as bifunctional catalysts. <i>Catalysis Today</i> , 2010, 150, 340-345.	2.2	78
14	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.	3.2	73
15	Cyanoethylation of alcohols by activated Mg-Al layered double hydroxides: Influence of rehydration conditions and Mg/Al molar ratio on Brønsted basicity. <i>Journal of Catalysis</i> , 2011, 279, 196-204.	3.1	73
16	Physicochemical and Catalytic Properties of Sol-Gel Aluminas Aged under Hydrothermal Conditions. <i>Langmuir</i> , 2003, 19, 3583-3588.	1.6	66
17	Kinetic modeling of the oxidative dehydrogenation of ethane to ethylene over a MoVTeNbO catalytic system. <i>Chemical Engineering Journal</i> , 2014, 252, 75-88.	6.6	66
18	Modified Mg-Al hydrotalcite: a highly active heterogeneous base catalyst for cyanoethylation of alcohols. <i>Chemical Communications</i> , 1998, , 1091-1092.	2.2	62

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19	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.	10.8	62
20	Synthesis and catalytic properties of nanostructured aluminas obtained by sol-gel method. <i>Applied Catalysis A: General</i> , 2004, 264, 175-181.	2.2	61
21	Preparation and Characterization of Sol-Gel MgAl Hydrotalcites with Nanocapsular Morphology. <i>Journal of Physical Chemistry C</i> , 2007, 111, 642-651.	1.5	57
22	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.	3.1	55
23	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.	1.3	52
24	Thermal decomposition kinetics of MgAl layered double hydroxides. <i>Materials Chemistry and Physics</i> , 2012, 133, 621-629.	2.0	51
25	Kinetic Study of Oxidative Dehydrogenation of Ethane over MoVTeNb Mixed-Oxide Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1775-1786.	1.8	51
26	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.	10.8	50
27	A Simple Environmentally Friendly Method to Prepare Versatile Hydrotalcite-like Compounds. <i>Chemistry of Materials</i> , 2008, 20, 1230-1232.	3.2	41
28	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.	3.1	38
29	Dependence of chemical composition of calcined hydrotalcite-like compounds for SO _x reduction. <i>Catalysis Today</i> , 2010, 150, 332-339.	2.2	38
30	Thermokinetic Study of the Rehydration Process of a Calcined MgAl-Layered Double Hydroxide. <i>Langmuir</i> , 2010, 26, 4074-4079.	1.6	38
31	Hydrated lime as an effective heterogeneous catalyst for the transesterification of castor oil and methanol. <i>Fuel</i> , 2013, 110, 54-62.	3.4	35
32	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.	3.4	35
33	Active sulfated alumina catalysts obtained by hydrothermal treatment. <i>Journal of Catalysis</i> , 2003, 220, 317-325.	3.1	33
34	Direct synthesis of calcium diglyceroxide from hydrated lime and glycerol and its evaluation in the transesterification reaction. <i>Fuel</i> , 2014, 138, 126-133.	3.4	32
35	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.	2.2	30
36	4-Chlorophenol Oxidation Photocatalyzed by a Calcined Mg-Al-Zn Layered Double Hydroxide in a Co-current Downflow Bubble Column. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11544-11552.	1.8	30

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37	Fractal Geometry Approach to Describe Mesoporous Boehmite and Gamma-Alumina Nanorods. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1544-1551.	1.0	29
38	Selective Isobutene Oligomerization by Mesoporous MSU-S/BEA Catalysts. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5809-5816.	1.5	28
39	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.	10.8	25
40	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.	3.1	25
41	Physicochemical Study of Nanocapsular Layered Double Hydroxides Evolution. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5547-5555.	1.5	25
42	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, 12243-12250.	1.1	25
43	Novel SOx removal catalysts for the FCC process: Manufacture method, characterization, and pilot-scale testing. <i>Energy and Environmental Science</i> , 2011, 4, 4096.	15.6	24
44	Understanding the kinetic behavior of a Mo-V-Te-Nb mixed oxide in the oxydehydrogenation of ethane. <i>Fuel</i> , 2014, 138, 15-26.	3.4	24
45	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.	1.5	22
46	Effect of highly reactive sulfur species on sulfur reduction in cracking gasoline. <i>Applied Catalysis B: Environmental</i> , 2003, 42, 145-154.	10.8	19
47	Phosphating alumina: A way to tailor its surface properties. <i>Microporous and Mesoporous Materials</i> , 2006, 94, 277-282.	2.2	19
48	Y zeolite depolymerization-recrystallization: Simultaneous formation of hierarchical porosity and Na dislodging. <i>Microporous and Mesoporous Materials</i> , 2011, 143, 375-382.	2.2	17
49	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.	2.1	17
50	Synthesis and Characterization of Nanocapsules with Shells Made up of Al ₁₃ Tridecamers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 22222-22227.	1.2	16
51	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.	2.5	16
52	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.	3.4	16
53	Title is missing!. <i>Hyperfine Interactions</i> , 2000, 131, 43-50.	0.2	15
54	New synthesis technique of supported ZSM-5 using organo-alumino-silicic gels. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 70-76.	2.2	15

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55	Crystallization of faujasite Y from seeds dispersed on mesoporous materials. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 363-374.	2.2	15
56	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.	0.7	15
57	Innovative method for hydrocalumite-like compounds' preparation and their evaluation in the transesterification reaction. <i>Applied Clay Science</i> , 2015, 114, 509-516.	2.6	15
58	Structural Evolution of Phosphated Alumina during Sol-Gel Synthesis. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17435-17439.	1.2	14
59	On the role of oxidation states in the electronic structure via the formation of oxygen vacancies of a doped MoVTaNbO _x in propylene oxidation. <i>Applied Surface Science</i> , 2022, 573, 151428.	3.1	13
60	Quantitative relationships between boehmite and γ -alumina crystallite sizes. <i>Journal of Materials Research</i> , 2004, 19, 1499-1503.	1.2	12
61	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.	1.5	12
62	Synthesis of silicalite-1 from organo-silicic gels. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 359-364.	5.0	12
63	Zinc-aluminates for an in situ sulfur reduction in cracked gasoline. <i>Applied Catalysis B: Environmental</i> , 2008, 81, 1-13.	10.8	12
64	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.	1.5	12
65	Manganese cryptomelane-type oxides: A thermo-kinetic and morphological study. <i>Applied Surface Science</i> , 2008, 254, 3006-3013.	3.1	11
66	Sulfated Nanocapsular Aluminas: Controlling their Brønsted and Lewis Acidity. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16476-16484.	1.5	11
67	Discerning the Metal Doping Effect on Surface Redox and Acidic Properties in a MoVTaNbO _x for Propene Oxidation. <i>ACS Omega</i> , 2021, 6, 15279-15291.	1.6	10
68	Selective Vanillin Hydrodeoxygenation on Synthetic Takovite Derived NiAlO _x Mixed Oxide. <i>Topics in Catalysis</i> , 2020, 63, 428-436.	1.3	9
69	Synthesis and characterization of SnO _x /Al ₂ O ₃ derived gel catalysts. <i>Reaction Kinetics and Catalysis Letters</i> , 1996, 59, 247-251.	0.6	7
70	Electrochemical characterization of carbon paste electrodes modified with MgZnGa and ZnGaAl hydrocalcite-like compounds. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 3145-3152.	1.2	6
71	Synthesis and morphological modification of semiconducting Mg(Zn)Al(Ga)-LDH/ITO thin films. <i>Materials Chemistry and Physics</i> , 2014, 147, 339-348.	2.0	6
72	Dibenzothiophene Hydrodesulfurization over P-CoMo on Sol-Gel Alumina Modified by La Addition. Effect of Rare-Earth Content. <i>Catalysts</i> , 2019, 9, 359.	1.6	6

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73	On the simultaneous effect of temperature, pressure, water content and spaceâ€time on acrylic acid production from propane. <i>Fuel</i> , 2020, 282, 118852.	3.4	6
74	Metal solution precursors: their role during the synthesis of MoVTeNb mixed oxide catalysts. <i>Catalysis Science and Technology</i> , 2018, 8, 3123-3132.	2.1	5
75	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.	0.6	4
76	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.	1.2	4
77	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.	1.5	4
78	Upcycling of Municipal Glass and Aluminum Wastes for Synthesis of Hierarchical ZSMâ€5. <i>Clean - Soil, Air, Water</i> , 2022, 50, 2100209.	0.7	2
79	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.	1.5	1
80	Manufacture Process Scale-Up and Industrial Testing of Novel Catalysts for SO _x -Emissions Control in FCC Units. <i>Catalysis Letters</i> , 2019, 149, 272-282.	1.4	1
81	Comparative Electrochemical Study of MgZnGa and ZnGaAl Hydrotalcites. <i>ECS Transactions</i> , 2011, 36, 247-256.	0.3	0
82	EFEECTO DEL DOBLE PROCESO DE DESPOLIMERIZACION-RECRISTALIZACIO EN LAS PROPIEDADES FISICOQUIMICAS DE LA FAUJASITA / EFEITO DO PROCESSO DE DESPOLIMERIZAÃƒfO-CRISTALIZAÃƒfO DUPLA SOBRE AS PROPIEDADES FÃSICO-QUÃMICA DO FAUJASITA. <i>Brazilian Journal of Development</i> , 2020, 6, 75485-75495.	0.0	0