

Antoninho Valentini

List of Publications by Year in descending order

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73
papers

1,618
citations

257450

24
h-index

315739

38
g-index

73
all docs

73
docs citations

73
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly stable dealuminated zeolite support for the production of hydrogen by dry reforming of methane. <i>Applied Catalysis A: General</i> , 2009, 355, 156-168.	4.3	94
2	Adsorption of phosphate using mesoporous spheres containing iron and aluminum oxide. <i>Chemical Engineering Journal</i> , 2012, 210, 143-149.	12.7	79
3	Mesoporous MAI ₂ O ₄ (M = Cu, Ni, Fe or Mg) spinels: Characterisation and application in the catalytic dehydrogenation of ethylbenzene in the presence of CO ₂ . <i>Applied Catalysis A: General</i> , 2010, 382, 148-157.	4.3	74
4	Synthesis of mesoporous Al ₂ O ₃ microspheres using the biopolymer chitosan as a template: A novel active catalyst system for CO ₂ reforming of methane. <i>Materials Letters</i> , 2005, 59, 3963-3967.	2.6	61
5	Influence of noble metals on the structural and catalytic properties of Ce-doped SnO ₂ systems. <i>Sensors and Actuators B: Chemical</i> , 2004, 97, 31-38.	7.8	60
6	Analysis of coke deposition and study of the structural features of MAI ₂ O ₄ catalysts for the dry reforming of methane. <i>Catalysis Communications</i> , 2009, 11, 11-14.	3.3	59
7	Role of vanadium in Ni:Al ₂ O ₃ catalysts for carbon dioxide reforming of methane. <i>Applied Catalysis A: General</i> , 2003, 255, 211-220.	4.3	56
8	Application of silica gel organofunctionalized with 3(1-imidazolyl)propyl in an on-line preconcentration system for the determination of copper by FAAS. <i>Talanta</i> , 2004, 64, 181-189.	5.5	53
9	Ethylbenzene to chemicals: Catalytic conversion of ethylbenzene into styrene over metal-containing MCM-41. <i>Journal of Molecular Catalysis A</i> , 2010, 315, 86-98.	4.8	53
10	Selective synthesis of vinyl ketone over SnO ₂ nanoparticle catalysts doped with rare earths. <i>Journal of Molecular Catalysis A</i> , 2004, 207, 91-96.	4.8	52
11	Synthesis of hybrid mesoporous spheres using the chitosan as template. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 860-866.	3.1	45
12	Hydrogen Production from Ethanol Steam Reforming Over Ni/CeO ₂ Nanocomposite Catalysts. <i>Catalysis Letters</i> , 2007, 119, 228-236.	2.6	44
13	The influence of cation segregation on the methanol decomposition on nanostructured SnO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2002, 86, 185-192.	7.8	43
14	Non-toxic Fe-based catalysts for styrene synthesis. <i>Catalysis Today</i> , 2003, 85, 49-57.	4.4	42
15	Ultrafast sonochemistry-based approach to coat TiO ₂ commercial particles for sunscreen formulation. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 340-348.	8.2	38
16	Catalytic properties of cobalt and nickel ferrites dispersed in mesoporous silicon oxide for ethylbenzene dehydrogenation with CO ₂ . <i>Catalysis Science and Technology</i> , 2011, 1, 1383.	4.1	36
17	Ni:CeO ₂ nanocomposite catalysts prepared by polymeric precursor method. <i>Applied Catalysis A: General</i> , 2006, 310, 174-182.	4.3	34
18	Role of Cu, Ni and Co metals in the acidic and redox properties of Mo catalysts supported on Al ₂ O ₃ spheres for glycerol conversion. <i>Catalysis Science and Technology</i> , 2016, 6, 4986-5002.	4.1	33

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19	Catalytic activity of nanometric pure and rare earth-doped SnO ₂ samples. <i>Materials Letters</i> , 2008, 62, 1677-1680.	2.6	31
20	Synthesis of Mesoporous Silica with Embedded Nickel Nanoparticles for Catalyst Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 89-94.	0.9	30
21	Influence of Rare Earth Doping on the Structural and Catalytic Properties of Nanostructured Tin Oxide. <i>Nanoscale Research Letters</i> , 2008, 3, .	5.7	30
22	Monitoring the conversion of soybean oil to methyl or ethyl esters using the refractive index with correlation gas chromatography. <i>Microchemical Journal</i> , 2013, 109, 46-50.	4.5	30
23	Synthesis of Ni nanoparticles in microporous and mesoporous Al and Mg oxides. <i>Microporous and Mesoporous Materials</i> , 2004, 68, 151-157.	4.4	27
24	CO ₂ mitigation by carbon nanotube formation during dry reforming of methane analyzed by factorial design combined with response surface methodology. <i>Chinese Journal of Catalysis</i> , 2014, 35, 514-523.	14.0	26
25	Carbon fiber/epoxy composites: effect of zinc sulphide coated carbon nanotube on thermal and mechanical properties. <i>Polymer Bulletin</i> , 2018, 75, 1619-1633.	3.3	26
26	From banana stem to conductive paper: A capacitive electrode and gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 459-467.	7.8	25
27	Oxidative dehydrogenation of ethylbenzene to styrene over the CoFe ₂ O ₄ @MCM-41 catalyst: preferential adsorption on the O ₂ ²⁻ Fe ³⁺ O ₂ ²⁻ sites located at octahedral positions. <i>Catalysis Science and Technology</i> , 2019, 9, 2469-2484.	4.1	25
28	Nanocasted oxides for oxidative dehydrogenation of ethylbenzene utilizing CO ₂ as soft oxidant. <i>Journal of Molecular Catalysis A</i> , 2011, 348, 1-13.	4.8	22
29	Simple synthesis of Al ₂ O ₃ sphere composite from hybrid process with improved thermal stability for catalytic applications. <i>Materials Chemistry and Physics</i> , 2015, 160, 119-130.	4.0	22
30	Nitrate photocatalytic reduction on TiO ₂ : Metal loaded, synthesis and anions effect. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103844.	6.7	22
31	EVALUATION OF THE PHOTOCATALYTIC ACTIVITY OF SiO ₂ @TiO ₂ HYBRID SPHERES IN THE DEGRADATION OF METHYLENE BLUE AND HYDROXYLATION OF BENZENE: KINETIC AND MECHANISTIC STUDY. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 1501-1518.	1.3	22
32	Effect of Ni loading and reaction temperature on the formation of carbon nanotubes from methane catalytic decomposition over Ni/SiO ₂ . <i>Journal of Materials Science</i> , 2007, 42, 914-922.	3.7	21
33	Synthesis of hybrid spheres for the dehydrogenation of ethylbenzene in the presence of CO ₂ . <i>Applied Catalysis A: General</i> , 2009, 362, 139-146.	4.3	20
34	Dehydrogenation of ethylbenzene in the presence of CO ₂ using a catalyst synthesized by polymeric precursor method. <i>Applied Catalysis A: General</i> , 2009, 366, 193-200.	4.3	16
35	Optimization Study in Biodiesel Production via Response Surface Methodology Using Dolomite as a Heterogeneous Catalyst. <i>Journal of Catalysis</i> , 2014, 2014, 1-11.	0.5	16
36	Role of tin on the electronic properties of Ni/Al ₂ O ₃ catalyst and its effect over the methane dry reforming reaction. <i>Applied Catalysis A: General</i> , 2021, 618, 118129.	4.3	16

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37	S�ntese, caracteriza�o e estudo das propriedades catal�ticas e magn�ticas de nanopart�culas de Ni dispersas em matriz mesoporosa de SiO ₂ . <i>Quimica Nova</i> , 2002, 25, 935-942.	0.3	14
38	Adsorbent 2D and 3D carbon matrices with protected magnetic iron nanoparticles. <i>Nanoscale</i> , 2015, 7, 17441-17449.	5.6	14
39	Structural, Electronic, and Optical Properties of Bulk Boric Acid <i>2A</i> and <i>3T</i> Polymorphs: Experiment and Density Functional Theory Calculations. <i>Crystal Growth and Design</i> , 2016, 16, 6631-6640.	3.0	13
40	Cu, Fe, or Ni doped molybdenum oxide supported on Al ₂ O ₃ for the oxidative dehydrogenation of ethylbenzene. <i>Chinese Journal of Catalysis</i> , 2015, 36, 712-720.	14.0	12
41	Synthesis of Cu ^x /M _x O _y /Al ₂ O ₃ (M = Fe, Zn, W or Sb) catalysts for the conversion of glycerol to acetol: effect of texture and acidity of the supports. <i>RSC Advances</i> , 2015, 5, 93394-93402.	3.6	12
42	Magnetic composites based on hybrid spheres of aluminum oxide and superparamagnetic nanoparticles of iron oxides. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 633-637.	2.3	11
43	Modifications of an HY zeolite for n-octane hydroconversion. <i>Applied Catalysis A: General</i> , 2011, 403, 65-74.	4.3	11
44	Fotoluminesc�ncia e adsor�o de CO ₂ em nanopart�culas de CaTiO ₃ dopadas com lant�nio. <i>Quimica Nova</i> , 2004, 27, 862-865.	0.3	10
45	Structural characterization of highly stable Pt ^o /Ni supported zeolites and its catalytic performance for methane reforming with CO ₂ . <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 205-208.	1.5	10
46	Synthesis and characterization of iron oxide nanoparticles dispersed in mesoporous aluminum oxide or silicon oxide. <i>Journal of Materials Science</i> , 2011, 46, 766-773.	3.7	10
47	Biogas reforming over Ni catalysts dispersed in different mixed oxides containing Zn ²⁺ , Al ³⁺ and Zr ⁴⁺ cations. <i>Materials Research Bulletin</i> , 2018, 102, 186-195.	5.2	10
48	Evaluation of hair fiber hydration by differential scanning calorimetry, gas chromatography, and sensory analysis. <i>Journal of Cosmetic Science</i> , 2003, 54, 527-35.	0.1	10
49	Synthesis of copper on iron/aluminum oxide mesoporous spheres and application on denitrification reaction. <i>Chemical Engineering Journal</i> , 2014, 255, 290-296.	12.7	8
50	CO ₂ role on the glycerol conversion over catalyst containing CaO-SiO ₂ doped with Ag and Pt. <i>Catalysis Today</i> , 2020, 344, 199-211.	4.4	8
51	Vanadium effect over γ -Al ₂ O ₃ -supported Ni catalysts for valorization of glycerol. <i>Fuel Processing Technology</i> , 2021, 216, 106773.	7.2	8
52	Processo alternativo para remo�o de cobre (II) e n�quel (II) de solu�es aquosas utilizando c�psulas de quitosana - �cool Polivin�lico. <i>Quimica Nova</i> , 2000, 23, 12.	0.3	7
53	Estudo microestrutural do catalisador Ni/ γ -Al ₂ O ₃ : efeito da adi�o de CeO ₂ na reforma do metano com di�xido de carbono. <i>Quimica Nova</i> , 2003, 26, 648-654.	0.3	7
54	Correlation between the basicity of Cu ^o /M _x O _y /Al ₂ O ₃ (M = Ba, Mg, K or La) oxide and the catalytic performance in the glycerol conversion from adsorption microcalorimetry characterization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 65-74.	3.6	7

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55	Copper promoter effect on acid–base and redox sites of Fe/Al ₂ O ₃ catalysts and their role in ethanol–acetone mixture conversion. <i>Catalysis Science and Technology</i> , 2018, 8, 443-458.	4.1	6
56	Photocatalysis and Photodegradation of Pollutants. , 2019, , 449-488.		6
57	Application of Al ₂ O ₃ /AlNbO ₄ in the oxidation of aniline to azoxybenzene. <i>Chemical Papers</i> , 2020, 74, 543-553.	2.2	6
58	Influence of the starting materials on the catalytic properties of iron oxides. <i>Reaction Kinetics and Catalysis Letters</i> , 2002, 75, 135-140.	0.6	4
59	Gas-phase selective conjugate addition of methanol to acetone for methyl vinyl ketone over SnO ₂ nanoparticle catalysts. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 607-613.	0.6	4
60	Gas-Phase Conversion of Glycerol to Acetol: Influence of Support Acidity on the Catalytic Stability and Copper Surface Properties on the Activity. <i>Journal of the Brazilian Chemical Society</i> , 2016, , .	0.6	4
61	Changing the gap type of solid state boric acid by heating: a dispersion-corrected density functional study of I [±] -, I ²⁻ -, and I ³⁻ -metaboric acid polymorphs. <i>New Journal of Chemistry</i> , 2017, 41, 15533-15544.	2.8	4
62	Processing effects of nanometric rare earth-doped tin oxides on the synthesis of methyl vinyl ketone. <i>Reaction Kinetics and Catalysis Letters</i> , 2004, 81, 211-217.	0.6	3
63	N-octane catalytic isomerization with aluminium and aluminiumlanthanum pillared nontronite. <i>Ceramica</i> , 2015, 61, 420-427.	0.8	3
64	Flexible cellulose-carbon nanotube paper substrate decorated with PZT: sensor properties. <i>MRS Advances</i> , 2018, 3, 31-36.	0.9	3
65	Nanopart�culas catalisadoras suportadas por materiais cer�micos. <i>Ceramica</i> , 2002, 48, 163-171.	0.8	2
66	Synthesis of Metal-Oxide Matrix with Embedded Nickel Nanoparticles by a Bottom-up Chemical Process. <i>Journal of Nanoscience and Nanotechnology</i> , 2003, 3, 516-520.	0.9	2
67	NON-CRYSTALLINE COPPER OXIDE HIGHLY DISPERSED ON MESOPOROUS ALUMINA: SYNTHESIS, CHARACTERIZATION AND CATALYTIC ACTIVITY IN GLYCEROL CONVERSION TO ACETOL. <i>Quimica Nova</i> , 2016, , .	0.3	2
68	Application of Ni:SiO ₂ /SiO ₂ Nanocomposite to Control the Carbon Deposition on the Carbon Dioxide Reforming of Methane. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 491-494.	0.9	2
69	Vibrational spectroscopy and phonon–related properties of monoclinic GABA, a non–proteinogenic inhibitory neurotransmitter amino acid. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1294-1307.	2.5	1
70	Synthesis and Photocatalytic Performance of Macroporous Spheres of Silica Coated with Titanium Dioxide. <i>Revista Virtual De Quimica</i> , 2015, 7, 2291-2310.	0.4	1
71	Natureza do coque formado sobre a mordenita durante a transalquila�o de benzeno. <i>Quimica Nova</i> , 2003, 26, 305-308.	0.3	0
72	EFFECT OF CARBON DIOXIDE ON THE STABILITY OF THE Ca ₂ Fe ₂ O ₅ PHASE APPLIED IN THE PHOTOCATALYTIC DEGRADATION PROCESS OF METHYLENE BLUE. <i>Quimica Nova</i> , 2015, , .	0.3	0

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73	Furfural Hydrodeoxygenation over a Ruthenium-Based Bifunctional Catalyst in the Presence of a Direct Source of H ₂ . Journal of the Brazilian Chemical Society, 0, , .	0.6	0