Jorge N Beltramini

List of Publications by Year
in descending order

83 papers	6,326 citations	117625 34 h-index	64796 79 g-index
88 all docs	88 docs citations	88 times ranked	7406 citing authors

#	Article	IF	Citations
1	Chemoselective catalytic conversion of glycerol as a biorenewable source to valuable commodity chemicals. Chemical Society Reviews, 2008, 37, 527-549.	38.1	1,493
2	Catalytic conversion of lignocellulosic biomass to fine chemicals and fuels. Chemical Society Reviews, 2011, 40, 5588.	38.1	1,174
3	Recent Advances in Catalysts for Methanol Synthesis via Hydrogenation of CO and CO2. Industrial & Engineering Chemistry Research, 2003, 42, 6518-6530.	3.7	465
4	A review of catalytic hydrogen production processes from biomass. Renewable and Sustainable Energy Reviews, 2010, 14, 166-182.	16.4	319
5	Transforming Triglycerides and Fatty Acids into Biofuels. ChemSusChem, 2009, 2, 1109-1119.	6.8	232
6	Effect of Pt and Pd promoter on Ni supported catalystsâ€"A TPR/TPO/TPD and microcalorimetry study. Journal of Catalysis, 2008, 258, 366-377.	6.2	162
7	Catalytic Deoxygenation of Stearic Acid in a Continuous Reactor over a Mesoporous Carbon-Supported Pd Catalyst. Energy & Fuels, 2009, 23, 3842-3845.	5.1	123
8	Effects of nano-confinement on the hydrogen desorption properties of MgH2. Nano Energy, 2013, 2, 98-104.	16.0	120
9	Mechanical depolymerisation of acidulated cellulose: understanding the solubility of high molecular weight oligomers. Green Chemistry, 2013, 15, 2761.	9.0	113
10	Temperature programmed analysis and its applications in catalytic systems. Catalysis Today, 1990, 7, 309-438.	4.4	112
11	Catalytic Deoxygenation of Stearic Acid and Palmitic Acid in Semibatch Mode. Catalysis Letters, 2009, 130, 48-51.	2.6	110
12	Diesel-like Hydrocarbons from Catalytic Deoxygenation of Stearic Acid over Supported Pd Nanoparticles on SBA-15 Catalysts. Catalysis Letters, 2010, 134, 250-257.	2.6	91
13	Direct Production of 5â€Hydroxymethylfurfural via Catalytic Conversion of Simple and Complex Sugars over Phosphated TiO₂. ChemSusChem, 2015, 8, 2907-2916.	6.8	85
14	Catalytic Conversion of Glucose to 5â€Hydroxymethylâ€furfural with a Phosphated TiO₂ Catalyst. ChemCatChem, 2015, 7, 781-790.	3.7	81
15	Conversion of cellulose to polyols over promoted nickel catalysts. Catalysis Science and Technology, 2012, 2, 1852.	4.1	79
16	Characterization of tungstophosphoric acid supported on MCM-41 mesoporous silica using n-hexane cracking, benzene adsorption, and X-ray diffraction. Applied Catalysis A: General, 2001, 207, 159-171.	4.3	74
17	High yield conversion of cellulosic biomass into 5-hydroxymethylfurfural and a study of the reaction kinetics of cellulose to HMF conversion in a biphasic system. Catalysis Science and Technology, 2016, 6, 6257-6266.	4.1	74
18	Hydrogen generation from liquid phase catalytic reforming of sugar solutions using metal-supported catalysts. International Journal of Hydrogen Energy, 2007, 32, 717-724.	7.1	72

#	Article	IF	Citations
19	Selective oxidation of biorenewable glycerol with molecular oxygen over Cu-containing layered double hydroxide-based catalysts. Catalysis Science and Technology, 2011, 1, 111.	4.1	69
20	Guaiacol hydrodeoxygenation reaction catalyzed by highly dispersed, single layered MoS₂/C. Catalysis Science and Technology, 2015, 5, 4422-4432.	4.1	67
21	An analysis of the Peclet and Damkohler numbers for dehydrogenation reactions using molecular sieve silica (MSS) membrane reactors. Catalysis Today, 2006, 116, 12-17.	4.4	66
22	Effect of the Pt oxidation state and Ce3+/Ce4+ ratio on the Pt/TiO2-CeO2 catalysts in the phenol degradation by catalytic wet air oxidation (CWAO). Catalysis Today, 2015, 250, 145-154.	4.4	62
23	Stability of bimetallic reforming catalysts. Journal of Catalysis, 1988, 112, 357-365.	6.2	60
24	Self-sustaining smouldering combustion of waste: A review on applications, key parameters and potential resource recovery. Fuel Processing Technology, 2020, 205, 106425.	7.2	56
25	Structure and catalytic properties of Sn-containing layered double hydroxides synthesized in the presence of dodecylsulfate and dodecylamine. Applied Clay Science, 2010, 48, 569-574.	5.2	54
26	Catalytic behaviour of TiO2â€“ZrO2 binary oxide synthesized by solâ€“gel process for glucose conversion to 5-hydroxymethylfurfural. RSC Advances, 2015, 5, 80346-80352.	3.6	46
27	Thermocatalytic cleavage of Câ€“C and Câ€“O bonds in model compounds and kraft lignin by NiMoS₂/C nanocatalysts. Sustainable Energy and Fuels, 2019, 3, 1317-1328.	4.9	42
28	Hydrogen production by aqueous phase reforming of sorbitol using bimetallic Niâ€“Pt catalysts: metal support interaction. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2009, 65, 83-88.	1.6	41
29	Heterogeneous Catalytic Conversion of Sugars Into 2,5-Furandicarboxylic Acid. Frontiers in Chemistry, 2020, 8, 659.	3.6	40
30	Enabling Process Intensification by 3â€‰D Printing of Catalytic Structures. ChemCatChem, 2017, 9, 4132-4138.	3.7	39
31	Cleaner hydrothermal hydrogenolysis of glycerol to 1,2-propanediol over Cu/oxide catalysts without addition of external hydrogen. Molecular Catalysis, 2017, 432, 274-284.	2.0	37
32	Catalytic nanoconfinement effect of in-situ synthesized Ni-containing mesoporous carbon scaffold (Ni-MCS) on the hydrogen storage properties of LiAlH 4. International Journal of Hydrogen Energy, 2014, 39, 18280-18290.	7.1	36
33	Evaluation of activity, selectivity and stability of catalysts for naphtha reforming. Journal of Chemical Technology and Biotechnology, 1980, 30, 374-383.	0.2	35
34	Recent advances in hybrid periodic mesostructured organosilica materials: opportunities from fundamental to biomedical applications. RSC Advances, 2015, 5, 79129-79151.	3.6	35
35	Nanoâ€•and Microscale Engineering of the Molybdenum Disulfideâ€Based Catalysts for Syngas to Ethanol Conversion. ChemCatChem, 2014, 6, 2394-2402.	3.7	33
36	Silver nanoparticles supported on zirconiaâ€“ceria for the catalytic wet air oxidation of methyl tert-butyl ether. RSC Advances, 2017, 7, 3599-3610.	3.6	33

#	ARTICLE	IF	CITATIONS
37	Kinetics of deactivation of bifunctional Pt/Al2O3ï£¿Cl catalysts by coking. AICHE Journal, 1991, 37, 845-854.	3.6	31
38	Valorization of native sugarcane bagasse lignin to bio-aromatic esters/monomers <i>via</i> a one pot oxidationâ€"hydrogenation process. Green Chemistry, 2019, 21, 861-873.	9.0	31
39	Porous MgH2/C composite with fast hydrogen storage kinetics. International Journal of Hydrogen Energy, 2012, 37, 8370-8378.	7.1	30
40	Nanoconfined Synthesis of Nitrogen-Rich Metal-Free Mesoporous Carbon Nitride Electrocatalyst for the Oxygen Evolution Reaction. ACS Applied Energy Materials, 2020, 3, 1439-1447.	5.1	29
41	Low-temperature hydrogen desorption from Mg(BH4)2 catalysed by ultrafine Ni nanoparticles in a mesoporous carbon matrix. International Journal of Hydrogen Energy, 2016, 41, 20573-20582.	7.1	26
42	Effect of the preparation technique on the catalytic properties of mesoporous V-HMS for the oxidation of toluene. Microporous and Mesoporous Materials, 2006, 88, 91-100.	4.4	24
43	Degradation of methyl tert-butyl ether by catalytic wet air oxidation over Rh/TiO2â€"CeO2 catalysts. Catalysis Today, 2013, 212, 2-9.	4.4	21
44	Highly active and robust Niâ€"MoS₂supported on mesoporous carbon: a nanocatalyst for hydrodeoxygenation reactions. RSC Advances, 2019, 9, 17194-17202.	3.6	21
45	Transfer Hydrogenation of Celluloseâ€based Oligomers over Carbonâ€supported Ruthenium Catalyst in a Fixedâ€bed Reactor. ChemCatChem, 2014, 6, 1349-1356.	3.7	19
46	Optimum Chlorine on Naphtha Reforming Catalyst Regarding Deactivation by Coke Formation. Studies in Surface Science and Catalysis, 1980, , 571-576.	1.5	18
47	Microwave-assisted catalytic conversion of glucose to 5-hydroxymethylfurfural using â€œthree dimensionalâ€• graphene oxide hybrid catalysts. RSC Advances, 2020, 10, 11727-11736.	3.6	18
48	Surface engineering of carbon supported CoMoSâ€" an effective nanocatalyst for selective deoxygenation of lignin derived phenolics to arenes. Applied Catalysis A: General, 2020, 606, 117811.	4.3	17
49	Câ€"H bond cyanation of arenes using N,N-dimethylformamide and NH₄HCO₃ as a CN source over a hydroxyapatite supported copper catalyst. Catalysis Science and Technology, 2016, 6, 8055-8062.	4.1	15
50	TiNâ€Cu Heterogeneous Nanocatalysts for Effective Depolymerisation of Oxidised Lignin. ChemistrySelect, 2018, 3, 3379-3385.	1.5	14
51	Structural features of cotton gin trash derived carbon material as a catalyst for the dehydration of fructose to 5-hydroxymethylfurfural. Fuel, 2021, 306, 121670.	6.4	14
52	Hydrothermal liquefaction of sugarcane bagasse to bio-oils: Effect of liquefaction solvents on bio-oil stability. Fuel, 2022, 312, 122793.	6.4	14
53	Role of sulfur in catalytic reforming of hydrocarbons on platinum-rhenium/alumina. Industrial & Engineering Chemistry Research, 1990, 29, 1801-1807.	3.7	12
54	Thermocatalytic Hydrodeoxygenation and Depolymerization of Waste Lignin to Oxygenates and Biofuels in a Continuous Flow Reactor at Atmospheric Pressure. ACS Sustainable Chemistry and Engineering, 2020, 8, 13195-13205.	6.7	12

#	Article	IF	Citations
55	Prediction of catalyst stability in naphtha reforming. Journal of Chemical Technology and Biotechnology, 2007, 32, 445-453.	0.2	11
56	Effect of HCOOK/Ethanol on Fe/HUSY, Ni/HUSY, and Niâ€“Fe/HUSY Catalysts on Lignin Depolymerization to Benzyl Alcohols and Bioaromatics. ACS Omega, 2019, 4, 16980-16993.	3.5	10
57	Catalytic functionalities of nano Ru catalysts supported on TiO2â€“ZrO2 mixed oxide for vapor phase hydrogenolysis of glycerol to propanediols. Applied Petrochemical Research, 2016, 6, 73-87.	1.3	9
58	Catalytic Wet Air Oxidation (CWAO) of Phenol in a Fixed Bed Reactor Using Supported Ru and Ruâ€Au Catalysts: Effect of Gold and Ce Loading. ChemistrySelect, 2019, 4, 1275-1284.	1.5	8
59	Microwave aided conversion of cellulose to glucose using polyoxometalate as catalyst. RSC Advances, 2021, 11, 34558-34563.	3.6	8
60	Catalytic deoxygenation of stearic acid over palladium supported on acid modified mesoporous silica. Studies in Surface Science and Catalysis, 2008, 174, 1339-1342.	1.5	7
61	The selective cleavage of lignin aliphatic Câ€“O linkages by solvent-assisted fast pyrolysis (SAFP). Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2019, 94, 297-307.	1.6	7
62	External Solventâ€Free Catalytic Hydrodeoxygenation of Softwood Lignin to Aromatics over Carbonâ€“ZrO₂ Supported Ni/MoS₂ Catalysts. Advanced Sustainable Systems, 2021, 5, 2000243.	5.3	7
63	Deactivation of the Metal and Acid Functions of Pt/Al2O3-Cl Reforming Catalyst by Coke Formation. Studies in Surface Science and Catalysis, 1991, , 119-126.	1.5	6
64	Effect of gold addition by the recharge method on silver supported catalysts in the catalytic wet air oxidation (CWAO) of phenol. RSC Advances, 2019, 9, 11123-11134.	3.6	6
65	The catalytic activity of KMoCo carbon spheres for higher alcohols synthesis from syngas. Applied Catalysis A: General, 2020, 605, 117803.	4.3	6
66	A magnetic zeolitic nanocomposite from occlusion of silica-coated iron species by crystalline titanosilicate-1. Materials Letters, 2010, 64, 2752-2754.	2.6	5
67	Catalytic conversion of municipal waste plastic into gasoline-range products over mesoporous materials. Particuology: Science and Technology of Particles, 2006, 4, 80-82.	0.4	4
68	One step liquefaction of hardwood lignin to oligomers soluble in polymerizable solvents. Industrial Crops and Products, 2021, 162, 113259.	5.2	4
69	Conversion of pilot plant derived 2G ethanol cellulosic stillage to value-added chemicals. Industrial Crops and Products, 2021, 171, 113839.	5.2	4
70	Oxidation of Toluene in Waste Gas Streams Using Mesoporous Ti-Hexagonal Mesoporous Silica. Journal of Environmental Engineering, ASCE, 2004, 130, 356-359.	1.4	3
71	Microporous silica membranes: fundamentals and applications in membrane reactors for hydrogen separation. , 2013, , 337-369.		3
72	Alkali Promoted Cu-Cr-O Catalyst for the Dehydrocyclization of Crude Glycerol and 1,2-Propanediamine: Effect of Thermal Treatment on the Activity and Product Selectivity. Current Catalysis, 2017, 6, 135-143.	0.5	3

#	Article	IF	Citations
73	Improvement in the performance of naphtha reforming catalysts by the addition of pentasil zeolite. Studies in Surface Science and Catalysis, 1996, 100, 465-475.	1.5	2
74	Preparation and Characterization of Mesoporous Ni/Zr-laponite for the Catalytic Deoxygenation of Vegetable Oils into Liquid Hydrocarbons. , 2006, , .		2
75	Effect of Promoter on Mesoporous Supports for Increased H/sub 2/ Production from Sugar Reforming. , 2006, , .		2
76	Role of promoters and catalyst supports for selective synthesis of higher alcohols over molybdenum carbides. Canadian Journal of Chemical Engineering, 2019, 97, 2077-2085.	1.7	2
77	Transforming Cotton Gin Trash to Engineered Functional Carbon Structures. Advanced Sustainable Systems, 2021, 5, 2100061.	5.3	2
78	Closing the loop: Valorizing pyrolyzed waste tyre residue into functional carbon materials, SiO_2 with exceptionally high silanol groups, and Zn salt. Waste Management, 2022, 140, 110-120.	7.4	2
79	Catalytic properties of heteropolyacids supported on MCM-41 mesoporous silica for hydrocarbon cracking reactions. Studies in Surface Science and Catalysis, 2003, 146, 653-656.	1.5	1
80	Improved performance of naphtha reforming process by the use of metal zeolite composite catalysts. Studies in Surface Science and Catalysis, 2008, 174, 1235-1238.	1.5	1
81	Synthesis and Hydrogen Storage Properties of Magnesium Nanoparticles with Core/Shell Structure. Materials Science Forum, 2012, 736, 120-126.	0.3	1
82	Synthesis, characterization and catalytic activity of Titania and Vanadium grafted and substituted on mesoporous silicas. Studies in Surface Science and Catalysis, 2007, 165, 135-138.	1.5	0
83	Nanostructured $NiMoS_2$/Carbon Catalysts for Syngas Conversion to Higher Alcohols. Journal of Nanoscience and Nanotechnology, 2020, 20, 5260-5266.	0.9	0