

Jorge N Beltramini

List of Publications by Year in descending order

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83
papers

6,326
citations

117453

34
h-index

64668

79
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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. <i>Chemical Society Reviews</i> , 2008, 37, 527-549.	18.7	1,493
2	Catalytic conversion of lignocellulosic biomass to fine chemicals and fuels. <i>Chemical Society Reviews</i> , 2011, 40, 5588.	18.7	1,174
3	Recent Advances in Catalysts for Methanol Synthesis via Hydrogenation of CO and CO ₂ . <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 6518-6530.	1.8	465
4	A review of catalytic hydrogen production processes from biomass. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 166-182.	8.2	319
5	Transforming Triglycerides and Fatty Acids into Biofuels. <i>ChemSusChem</i> , 2009, 2, 1109-1119.	3.6	232
6	Effect of Pt and Pd promoter on Ni supported catalystsâ€™ A TPR/TPO/TPD and microcalorimetry study. <i>Journal of Catalysis</i> , 2008, 258, 366-377.	3.1	162
7	Catalytic Deoxygenation of Stearic Acid in a Continuous Reactor over a Mesoporous Carbon-Supported Pd Catalyst. <i>Energy & Fuels</i> , 2009, 23, 3842-3845.	2.5	123
8	Effects of nano-confinement on the hydrogen desorption properties of MgH ₂ . <i>Nano Energy</i> , 2013, 2, 98-104.	8.2	120
9	Mechanical depolymerisation of acidulated cellulose: understanding the solubility of high molecular weight oligomers. <i>Green Chemistry</i> , 2013, 15, 2761.	4.6	113
10	Temperature programmed analysis and its applications in catalytic systems. <i>Catalysis Today</i> , 1990, 7, 309-438.	2.2	112
11	Catalytic Deoxygenation of Stearic Acid and Palmitic Acid in Semibatch Mode. <i>Catalysis Letters</i> , 2009, 130, 48-51.	1.4	110
12	Diesel-like Hydrocarbons from Catalytic Deoxygenation of Stearic Acid over Supported Pd Nanoparticles on SBA-15 Catalysts. <i>Catalysis Letters</i> , 2010, 134, 250-257.	1.4	91
13	Direct Production of 5-Hydroxymethylfurfural via Catalytic Conversion of Simple and Complex Sugars over Phosphated TiO ₂ . <i>ChemSusChem</i> , 2015, 8, 2907-2916.	3.6	85
14	Catalytic Conversion of Glucose to 5-Hydroxymethylfurfural with a Phosphated TiO ₂ Catalyst. <i>ChemCatChem</i> , 2015, 7, 781-790.	1.8	81
15	Conversion of cellulose to polyols over promoted nickel catalysts. <i>Catalysis Science and Technology</i> , 2012, 2, 1852.	2.1	79
16	Characterization of tungstophosphoric acid supported on MCM-41 mesoporous silica using n-hexane cracking, benzene adsorption, and X-ray diffraction. <i>Applied Catalysis A: General</i> , 2001, 207, 159-171.	2.2	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. <i>Catalysis Science and Technology</i> , 2016, 6, 6257-6266.	2.1	74
18	Hydrogen generation from liquid phase catalytic reforming of sugar solutions using metal-supported catalysts. <i>International Journal of Hydrogen Energy</i> , 2007, 32, 717-724.	3.8	72

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19	Selective oxidation of biorenewable glycerol with molecular oxygen over Cu-containing layered double hydroxide-based catalysts. <i>Catalysis Science and Technology</i> , 2011, 1, 111.	2.1	69
20	Guaiacol hydrodeoxygenation reaction catalyzed by highly dispersed, single layered MoS ₂ /C. <i>Catalysis Science and Technology</i> , 2015, 5, 4422-4432.	2.1	67
21	An analysis of the Peclet and Damkohler numbers for dehydrogenation reactions using molecular sieve silica (MSS) membrane reactors. <i>Catalysis Today</i> , 2006, 116, 12-17.	2.2	66
22	Effect of the Pt oxidation state and Ce ³⁺ /Ce ⁴⁺ ratio on the Pt/TiO ₂ -CeO ₂ catalysts in the phenol degradation by catalytic wet air oxidation (CWAO). <i>Catalysis Today</i> , 2015, 250, 145-154.	2.2	62
23	Stability of bimetallic reforming catalysts. <i>Journal of Catalysis</i> , 1988, 112, 357-365.	3.1	60
24	Self-sustaining smouldering combustion of waste: A review on applications, key parameters and potential resource recovery. <i>Fuel Processing Technology</i> , 2020, 205, 106425.	3.7	56
25	Structure and catalytic properties of Sn-containing layered double hydroxides synthesized in the presence of dodecylsulfate and dodecylamine. <i>Applied Clay Science</i> , 2010, 48, 569-574.	2.6	54
26	Catalytic behaviour of TiO ₂ -ZrO ₂ binary oxide synthesized by sol-gel process for glucose conversion to 5-hydroxymethylfurfural. <i>RSC Advances</i> , 2015, 5, 80346-80352.	1.7	46
27	Thermocatalytic cleavage of C-C and C-O bonds in model compounds and kraft lignin by NiMoS ₂ /C nanocatalysts. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1317-1328.	2.5	42
28	Hydrogen production by aqueous phase reforming of sorbitol using bimetallic Ni-Pt catalysts: metal support interaction. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009, 65, 83-88.	1.6	41
29	Heterogeneous Catalytic Conversion of Sugars Into 2,5-Furandicarboxylic Acid. <i>Frontiers in Chemistry</i> , 2020, 8, 659.	1.8	40
30	Enabling Process Intensification by 3D Printing of Catalytic Structures. <i>ChemCatChem</i> , 2017, 9, 4132-4138.	1.8	39
31	Cleaner hydrothermal hydrogenolysis of glycerol to 1,2-propanediol over Cu/oxide catalysts without addition of external hydrogen. <i>Molecular Catalysis</i> , 2017, 432, 274-284.	1.0	37
32	Catalytic nanoconfinement effect of in-situ synthesized Ni-containing mesoporous carbon scaffold (Ni-MCS) on the hydrogen storage properties of LiAlH ₄ . <i>International Journal of Hydrogen Energy</i> , 2014, 39, 18280-18290.	3.8	36
33	Evaluation of activity, selectivity and stability of catalysts for naphtha reforming. <i>Journal of Chemical Technology and Biotechnology</i> , 1980, 30, 374-383.	0.2	35
34	Recent advances in hybrid periodic mesostructured organosilica materials: opportunities from fundamental to biomedical applications. <i>RSC Advances</i> , 2015, 5, 79129-79151.	1.7	35
35	Nano- and Microscale Engineering of the Molybdenum Disulfide-Based Catalysts for Syngas to Ethanol Conversion. <i>ChemCatChem</i> , 2014, 6, 2394-2402.	1.8	33
36	Silver nanoparticles supported on zirconia-ceria for the catalytic wet air oxidation of methyl tert-butyl ether. <i>RSC Advances</i> , 2017, 7, 3599-3610.	1.7	33

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37	Kinetics of deactivation of bifunctional Pt/Al ₂ O ₃ -Cl catalysts by coking. <i>AIChE Journal</i> , 1991, 37, 845-854.	1.8	31
38	Valorization of native sugarcane bagasse lignin to bio-aromatic esters/monomers via a one pot oxidation-hydrogenation process. <i>Green Chemistry</i> , 2019, 21, 861-873.	4.6	31
39	Porous MgH ₂ /C composite with fast hydrogen storage kinetics. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8370-8378.	3.8	30
40	Nanoconfined Synthesis of Nitrogen-Rich Metal-Free Mesoporous Carbon Nitride Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 1439-1447.	2.5	29
41	Low-temperature hydrogen desorption from Mg(BH ₄) ₂ catalysed by ultrafine Ni nanoparticles in a mesoporous carbon matrix. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20573-20582.	3.8	26
42	Effect of the preparation technique on the catalytic properties of mesoporous V-HMS for the oxidation of toluene. <i>Microporous and Mesoporous Materials</i> , 2006, 88, 91-100.	2.2	24
43	Degradation of methyl tert-butyl ether by catalytic wet air oxidation over Rh/TiO ₂ -CeO ₂ catalysts. <i>Catalysis Today</i> , 2013, 212, 2-9.	2.2	21
44	Highly active and robust Ni-MoS ₂ supported on mesoporous carbon: a nanocatalyst for hydrodeoxygenation reactions. <i>RSC Advances</i> , 2019, 9, 17194-17202.	1.7	21
45	Transfer Hydrogenation of Cellulose-based Oligomers over Carbon-supported Ruthenium Catalyst in a Fixed-bed Reactor. <i>ChemCatChem</i> , 2014, 6, 1349-1356.	1.8	19
46	Optimum Chlorine on Naphtha Reforming Catalyst Regarding Deactivation by Coke Formation. <i>Studies in Surface Science and Catalysis</i> , 1980, , 571-576.	1.5	18
47	Microwave-assisted catalytic conversion of glucose to 5-hydroxymethylfurfural using three dimensional graphene oxide hybrid catalysts. <i>RSC Advances</i> , 2020, 10, 11727-11736.	1.7	18
48	Surface engineering of carbon supported CoMoS an effective nanocatalyst for selective deoxygenation of lignin derived phenolics to arenes. <i>Applied Catalysis A: General</i> , 2020, 606, 117811.	2.2	17
49	C-H bond cyanation of arenes using N,N-dimethylformamide and NH ₄ HCO ₃ as a CN source over a hydroxyapatite supported copper catalyst. <i>Catalysis Science and Technology</i> , 2016, 6, 8055-8062.	2.1	15
50	Ti-Cu Heterogeneous Nanocatalysts for Effective Depolymerisation of Oxidised Lignin. <i>ChemistrySelect</i> , 2018, 3, 3379-3385.	0.7	14
51	Structural features of cotton gin trash derived carbon material as a catalyst for the dehydration of fructose to 5-hydroxymethylfurfural. <i>Fuel</i> , 2021, 306, 121670.	3.4	14
52	Hydrothermal liquefaction of sugarcane bagasse to bio-oils: Effect of liquefaction solvents on bio-oil stability. <i>Fuel</i> , 2022, 312, 122793.	3.4	14
53	Role of sulfur in catalytic reforming of hydrocarbons on platinum-rhenium/alumina. <i>Industrial & Engineering Chemistry Research</i> , 1990, 29, 1801-1807.	1.8	12
54	Thermocatalytic Hydrodeoxygenation and Depolymerization of Waste Lignin to Oxygenates and Biofuels in a Continuous Flow Reactor at Atmospheric Pressure. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 13195-13205.	3.2	12

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55	Prediction of catalyst stability in naphtha reforming. <i>Journal of Chemical Technology and Biotechnology</i> , 2007, 32, 445-453.	0.2	11
56	Effect of HCOOK/Ethanol on Fe/HUSY, Ni/HUSY, and Ni-Fe/HUSY Catalysts on Lignin Depolymerization to Benzyl Alcohols and Bioaromatics. <i>ACS Omega</i> , 2019, 4, 16980-16993.	1.6	10
57	Catalytic functionalities of nano Ru catalysts supported on TiO ₂ -ZrO ₂ mixed oxide for vapor phase hydrogenolysis of glycerol to propanediols. <i>Applied Petrochemical Research</i> , 2016, 6, 73-87.	1.3	9
58	Catalytic Wet Air Oxidation (CWAO) of Phenol in a Fixed Bed Reactor Using Supported Ru and Ru-Au Catalysts: Effect of Gold and Ce Loading. <i>ChemistrySelect</i> , 2019, 4, 1275-1284.	0.7	8
59	Microwave aided conversion of cellulose to glucose using polyoxometalate as catalyst. <i>RSC Advances</i> , 2021, 11, 34558-34563.	1.7	8
60	Catalytic deoxygenation of stearic acid over palladium supported on acid modified mesoporous silica. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 1339-1342.	1.5	7
61	The selective cleavage of lignin aliphatic C-O linkages by solvent-assisted fast pyrolysis (SAFP). <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2019, 94, 297-307.	0.9	7
62	External Solvent-Free Catalytic Hydrodeoxygenation of Softwood Lignin to Aromatics over Carbon-ZrO ₂ Supported Ni/MoS ₂ Catalysts. <i>Advanced Sustainable Systems</i> , 2021, 5, 2000243.	2.7	7
63	Deactivation of the Metal and Acid Functions of Pt/Al ₂ O ₃ -Cl Reforming Catalyst by Coke Formation. <i>Studies in Surface Science and Catalysis</i> , 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. <i>RSC Advances</i> , 2019, 9, 11123-11134.	1.7	6
65	The catalytic activity of KMoCo carbon spheres for higher alcohols synthesis from syngas. <i>Applied Catalysis A: General</i> , 2020, 605, 117803.	2.2	6
66	A magnetic zeolitic nanocomposite from occlusion of silica-coated iron species by crystalline titanasilicate-1. <i>Materials Letters</i> , 2010, 64, 2752-2754.	1.3	5
67	Catalytic conversion of municipal waste plastic into gasoline-range products over mesoporous materials. <i>Particuology: Science and Technology of Particles</i> , 2006, 4, 80-82.	0.4	4
68	One step liquefaction of hardwood lignin to oligomers soluble in polymerizable solvents. <i>Industrial Crops and Products</i> , 2021, 162, 113259.	2.5	4
69	Conversion of pilot plant derived 2G ethanol cellulosic stillage to value-added chemicals. <i>Industrial Crops and Products</i> , 2021, 171, 113839.	2.5	4
70	Oxidation of Toluene in Waste Gas Streams Using Mesoporous Ti-Hexagonal Mesoporous Silica. <i>Journal of Environmental Engineering, ASCE</i> , 2004, 130, 356-359.	0.7	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. <i>Current Catalysis</i> , 2017, 6, 135-143.	0.5	3

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73	Improvement in the performance of naphtha reforming catalysts by the addition of pentasil zeolite. <i>Studies in Surface Science and Catalysis</i> , 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 ₂ Production from Sugar Reforming. , 2006, , .		2
76	Role of promoters and catalyst supports for selective synthesis of higher alcohols over molybdenum carbides. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 2077-2085.	0.9	2
77	Transforming Cotton Gin Trash to Engineered Functional Carbon Structures. <i>Advanced Sustainable Systems</i> , 2021, 5, 2100061.	2.7	2
78	Closing the loop: Valorizing pyrolyzed waste tyre residue into functional carbon materials, SiO ₂ with exceptionally high silanol groups, and Zn salt. <i>Waste Management</i> , 2022, 140, 110-120.	3.7	2
79	Catalytic properties of heteropolyacids supported on MCM-41 mesoporous silica for hydrocarbon cracking reactions. <i>Studies in Surface Science and Catalysis</i> , 2003, 146, 653-656.	1.5	1
80	Improved performance of naphtha reforming process by the use of metal zeolite composite catalysts. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 1235-1238.	1.5	1
81	Synthesis and Hydrogen Storage Properties of Magnesium Nanoparticles with Core/Shell Structure. <i>Materials Science Forum</i> , 2012, 736, 120-126.	0.3	1
82	Synthesis, characterization and catalytic activity of Titania and Vanadium grafted and substituted on mesoporous silicas. <i>Studies in Surface Science and Catalysis</i> , 2007, 165, 135-138.	1.5	0
83	Nanostructured NiMoS ₂ /Carbon Catalysts for Syngas Conversion to Higher Alcohols. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5260-5266.	0.9	0