

Pierdomenico Biasi

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.

34
papers

690
citations

17
h-index

25
g-index

36
ext. papers

761
ext. citations

5.6
avg, IF

3.77
L-index

#	Paper	IF	Citations
34	Engineering in direct synthesis of hydrogen peroxide: targets, reactors and guidelines for operational conditions. <i>Green Chemistry</i> , 2014 , 16, 2320	10	101
33	Pd-Au and Pd-Pt catalysts for the direct synthesis of hydrogen peroxide in absence of selectivity enhancers. <i>Applied Catalysis A: General</i> , 2013 , 468, 160-174	5.1	42
32	Continuous H ₂ O ₂ direct synthesis over PdAu catalysts. <i>Chemical Engineering Journal</i> , 2011 , 176-177, 172-177	14.7	41
31	Mass transfer and kinetics of H ₂ O ₂ direct synthesis in a batch slurry reactor. <i>Chemical Engineering Journal</i> , 2012 , 207-208, 539-551	14.7	40
30	Hydrogen Peroxide Direct Synthesis: Selectivity Enhancement in a Trickle Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10627-10632	3.9	39
29	Kinetics and Mechanism of H ₂ O ₂ Direct Synthesis over a Pd/C Catalyst in a Batch Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8903-8912	3.9	33
28	The effect of the metal precursor-reduction with hydrogen on a library of bimetallic Pd-Au and Pd-Pt catalysts for the direct synthesis of H ₂ O ₂ . <i>Catalysis Today</i> , 2015 , 248, 40-47	5.3	32
27	Direct Synthesis of Hydrogen Peroxide in a Trickle Bed Reactor: Comparison of Pd-Based Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 8883-8890	3.9	32
26	Optimal conditions for hemicelluloses extraction from Eucalyptus globulus wood: hydrothermal treatment in a semi-continuous reactor. <i>Fuel Processing Technology</i> , 2016 , 148, 350-360	7.2	32
25	Direct synthesis of hydrogen peroxide in water in a continuous trickle bed reactor optimized to maximize productivity. <i>Green Chemistry</i> , 2013 , 15, 2502	10	30
24	Hemicellulose extraction by hot pressurized water pretreatment at 160 °C for 10 different woods: Yield and molecular weight. <i>Journal of Supercritical Fluids</i> , 2018 , 133, 716-725	4.2	26
23	Bromide and Acids: A Comprehensive Study on Their Role on the Hydrogen Peroxide Direct Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13367-13378	3.9	23
22	Revealing the role of bromide in the H ₂ O ₂ direct synthesis with the catalyst wet pretreatment method (CWPM). <i>AIChE Journal</i> , 2017 , 63, 32-42	3.6	20
21	Hydrothermal extraction of hemicellulose: from lab to pilot scale. <i>Bioresource Technology</i> , 2018 , 247, 980-991	11	18
20	Reactivity Aspects of SBA15-Based Doped Supported Catalysts: H ₂ O ₂ Direct Synthesis and Disproportionation Reactions. <i>Topics in Catalysis</i> , 2013 , 56, 540-549	2.3	18
19	The influence of catalyst amount and Pd loading on the H ₂ O ₂ synthesis from hydrogen and oxygen. <i>Catalysis Science and Technology</i> , 2015 , 5, 3545-3555	5.5	17
18	Residence time and axial dispersion of liquids in Trickle Bed Reactors at laboratory scale. <i>Chemical Engineering Journal</i> , 2014 , 250, 99-111	14.7	17

17	H ₂ solubility in methanol in the presence of CO ₂ and O ₂ . <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 1-9	2.9	15
16	Direct synthesis of H ₂ O ₂ over Pd supported on rare earths promoted zirconia. <i>Catalysis Today</i> , 2015 , 256, 294-301	5.3	14
15	Effect of low hydrogen to palladium molar ratios in the direct synthesis of H ₂ O ₂ in water in a trickle bed reactor. <i>Catalysis Today</i> , 2015 , 248, 91-100	5.3	13
14	Application of the Catalyst Wet Pretreatment Method (CWPM) for catalytic direct synthesis of H ₂ O ₂ . <i>Catalysis Today</i> , 2015 , 246, 207-215	5.3	11
13	Role of a Functionalized Polymer (K2621) and an Inorganic Material (Sulphated Zirconia) as Supports in Hydrogen Peroxide Direct Synthesis in a Continuous Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15472-15480	3.9	11
12	Modeling of Direct Synthesis of Hydrogen Peroxide in a Packed-Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13366-13378	3.9	9
11	Taking advantage of hysteresis in methane partial oxidation over Pt on honeycomb monolith. <i>Chemical Engineering Science</i> , 2011 , 66, 6341-6349	4.4	9
10	The use of modelling to understand the mechanism of hydrogen peroxide direct synthesis from batch, semibatch and continuous reactor points of view. <i>Reaction Chemistry and Engineering</i> , 2016 , 1, 300-312	4.9	8
9	Product distribution analysis of the hydrogen peroxide direct synthesis in an isothermal batch reactor. <i>Catalysis Today</i> , 2015 , 248, 108-114	5.3	7
8	Hydrogen peroxide obtained via direct synthesis as alternative raw material for ultrapurification process to produce electronic grade chemical. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1136-1148	3.5	6
7	Influence of Metal Precursors and Reduction Protocols on the Chloride-Free Preparation of Catalysts for the Direct Synthesis of Hydrogen Peroxide without Selectivity Enhancers. <i>ChemCatChem</i> , 2016 , 8, 1564-1574	5.2	6
6	Liquid Holdup by Gravimetric Recirculation Continuous Measurement Method. Application to Trickle Bed Reactors under Pressure at Laboratory Scale. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13294-13300	3.9	5
5	Optimized H ₂ O ₂ production in a trickled bed reactor, using water and methanol enriched with selectivity promoters. <i>Chemical Engineering Science</i> , 2015 , 123, 334-340	4.4	4
4	TiO ₂ nanoparticles vs. TiO ₂ nanowires as support in hydrogen peroxide direct synthesis: the influence of N and Au doping. <i>RSC Advances</i> , 2016 , 6, 103311-103319	3.7	4
3	Continuous H ₂ O ₂ direct synthesis process: an analysis of the process conditions that make the difference. <i>Green Processing and Synthesis</i> , 2016 , 5,	3.9	3
2	Is selective hydrogenation of molecular oxygen to H ₂ O ₂ affected by strong metal-support interactions on Pd/TiO ₂ catalysts? A case study using commercially available TiO ₂ . <i>Comptes Rendus Chimie</i> , 2016 , 19, 1011-1020	2.7	2
1	Chapter 6. Processing of Lignocellulosic Biomass Derived Monomers using High-pressure CO ₂ and CO ₂ -H ₂ O Mixtures. <i>RSC Green Chemistry</i> , 115-136	0.9	1