

Almerinda Di Benedetto

List of Publications by Year in descending order

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57
papers

2,074
citations

201575

27
h-index

243529

44
g-index

57
all docs

57
docs citations

57
times ranked

1139
citing authors

#	ARTICLE	IF	CITATIONS
1	On the flammable behavior of non-traditional dusts: Dimensionless numbers evaluation for nylon 6,6 short fibers. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 78, 104815.	1.7	6
2	On the pyrotechnic ignitors role in dust explosion testing: Comparison between 20%L and 1m ³ explosion vessels. <i>Process Safety Progress</i> , 2021, 40, 289-295.	0.4	13
3	Effect of turbulence spatial distribution on the deflagration index: Comparison between 20L and 1m ³ vessels. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 71, 104484.	1.7	15
4	The Issue of Solid-Solid Contact in Catalytic Soot Oxidation and the Benefits of Catalyst Nanostructuring to Regeneration of Catalytic Diesel Particulate Filters. , 2021, , 155-187.		1
5	CFD Simulation of the Dispersion of Binary Dust Mixtures in the 20L Vessel. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 67, 104231.	1.7	20
6	CFD simulations of dust dispersion in the 1m ³ explosion vessel. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 68, 104274.	1.7	11
7	Ignition mechanism of flammable dust and dust mixtures: An insight through thermogravimetric/differential scanning calorimetry analysis. <i>AIChE Journal</i> , 2020, 66, e16256.	1.8	8
8	Synergistic behavior of flammable dust mixtures: A novel classification. <i>Journal of Hazardous Materials</i> , 2020, 397, 122784.	6.5	14
9	Using CFD Simulation as a Tool to Identify Optimal Operating Conditions for Regeneration of a Catalytic Diesel Particulate Filter. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3453.	1.3	29
10	Study of the explosible properties of textile dusts. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 54, 110-122.	1.7	20
11	Combined effects of soot load and catalyst activity on the regeneration dynamics of catalytic diesel particulate filters. <i>AIChE Journal</i> , 2018, 64, 1714-1722.	1.8	62
12	Volatile point of dust mixtures and hybrid mixtures. <i>Journal of Loss Prevention in the Process Industries</i> , 2018, 56, 370-377.	1.7	19
13	Ceria-coated diesel particulate filters for continuous regeneration. <i>AIChE Journal</i> , 2017, 63, 3442-3449.	1.8	76
14	Explosion behavior of ammonia and ammonia/methane in oxygen-enriched air. <i>Process Safety Progress</i> , 2017, 36, 368-371.	0.4	8
15	Operating Map for Regeneration of a Catalytic Diesel Particulate Filter. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11052-11061.	1.8	52
16	Catalytic diesel particulate filters with highly dispersed ceria: Effect of the soot-catalyst contact on the regeneration performance. <i>Applied Catalysis B: Environmental</i> , 2016, 197, 116-124.	10.8	112
17	Explosion of lycopodium-nicotinic acid-methane complex hybrid mixtures. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 505-508.	1.7	18
18	Theoretical analysis of anomalous explosion behavior for H ₂ /CO/O ₂ /N ₂ and CH ₄ /O ₂ /N ₂ /CO ₂ mixtures in the light of combustion-induced rapid phase transition. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8239-8247.	3.8	15

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19	Modeling and simulation of soot combustion dynamics in a catalytic diesel particulate filter. <i>Chemical Engineering Science</i> , 2015, 137, 69-78.	1.9	87
20	CuO/CeO ₂ based monoliths for CO preferential oxidation in H ₂ -rich streams. <i>Chemical Engineering Journal</i> , 2015, 279, 983-993.	6.6	32
21	On the explosion and flammability behavior of mixtures of combustible dusts. <i>Chemical Engineering Research and Design</i> , 2015, 94, 410-419.	2.7	37
22	A fan-equipped reactor for dust explosion tests. <i>AIChE Journal</i> , 2015, 61, 1572-1580.	1.8	7
23	Effect of the nozzle type on the integrity of dust particles in standard explosion tests. <i>Powder Technology</i> , 2015, 279, 203-208.	2.1	58
24	CFD modeling and simulation of turbulent fluid flow and dust dispersion in the 20-L explosion vessel equipped with the perforated annular nozzle. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 38, 204-213.	1.7	30
25	Start-up behavior of a LaMnO ₃ partially coated monolithic combustor at high pressure. <i>Catalysis Today</i> , 2015, 242, 200-210.	2.2	23
26	High pressure methane catalytic combustion over novel partially coated LaMnO ₃ -based monoliths. <i>Chemical Engineering Journal</i> , 2015, 259, 381-390.	6.6	48
27	Transient behavior of structured LaMnO ₃ catalyst during methane combustion at high pressure. <i>Chemical Engineering Science</i> , 2014, 116, 350-358.	1.9	35
28	The effect of the hydrogen presence on combustion-induced rapid phase transition of CO/O ₂ /N ₂ mixtures. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 16463-16470.	3.8	17
29	The thermal/thermodynamic theory of flammability: The adiabatic flammability limits. <i>Chemical Engineering Science</i> , 2013, 99, 265-273.	1.9	27
30	Modelling of the effect of size on flocculent dust explosions. <i>Journal of Loss Prevention in the Process Industries</i> , 2013, 26, 1634-1638.	1.7	19
31	High pressure kinetics of CH ₄ , CO and H ₂ combustion over LaMnO ₃ catalyst. <i>Applied Catalysis B: Environmental</i> , 2013, 134-135, 110-122.	10.8	25
32	Reconsidering the flammability diagram for CH ₄ /O ₂ /N ₂ and CH ₄ /O ₂ /CO ₂ mixtures in light of combustion-induced Rapid Phase Transition. <i>Chemical Engineering Science</i> , 2012, 84, 142-147.	1.9	53
33	Analysis of an Explosion in a Wool-Processing Plant. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7713-7718.	1.8	12
34	High-Pressure Methane Combustion over a Perovskite Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7547-7558.	1.8	37
35	Combined Effect of Ignition Energy and Initial Turbulence on the Explosion Behavior of Lean Gas/Dust-Air Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7663-7670.	1.8	61
36	Explosions of Syngas/CO ₂ Mixtures in Oxygen-Enriched Air. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 7671-7678.	1.8	56

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37	Combustion-Induced Rapid-Phase Transition (cRPT) in CH ₄ /CO ₂ /O ₂ -Enriched Mixtures. Energy & Fuels, 2012, 26, 4799-4803.	2.5	10
38	Sensitivity to the Presence of the Combustion Submodel for Large Eddy Simulation of Transient Premixed Flame-Vortex Interactions. Industrial & Engineering Chemistry Research, 2012, 51, 7704-7712.	1.8	47
39	Effect of diluents on rapid phase transition of water induced by combustion. AIChE Journal, 2012, 58, 2810-2819.	1.8	41
40	Large Eddy Simulation of transient premixed flame-vortex interactions in gas explosions. Chemical Engineering Science, 2012, 71, 539-551.	1.9	93
41	Bifurcation analysis of the effect of hydrogen addition on the dynamic behavior of lean premixed pre-vaporized ethanol combustion. International Journal of Hydrogen Energy, 2012, 37, 6922-6932.	3.8	28
42	Explosion behavior of hydrogen-methane/air mixtures. Journal of Loss Prevention in the Process Industries, 2012, 25, 443-447.	1.7	161
43	Anomalous behavior during explosions of CH ₄ in oxygen-enriched air. Combustion and Flame, 2011, 158, 2214-2219.	2.8	53
44	Sub-grid scale combustion models for large eddy simulation of unsteady premixed flame propagation around obstacles. Journal of Hazardous Materials, 2010, 180, 71-78.	6.5	86
45	Effect of geometry on the thermal behavior of catalytic micro-combustors. Catalysis Today, 2010, 155, 116-122.	2.2	39
46	Prevention and mitigation of dust and hybrid mixture explosions. Process Safety Progress, 2010, 29, 17-21.	0.4	55
47	Steady-State Multiplicity in Catalytic Microcombustors. Industrial & Engineering Chemistry Research, 2010, 49, 2130-2134.	1.8	4
48	Using Large Eddy Simulation for understanding vented gas explosions in the presence of obstacles. Journal of Hazardous Materials, 2009, 169, 435-442.	6.5	121
49	A novel catalytic-homogenous micro-combustor. Catalysis Today, 2009, 147, S156-S161.	2.2	34
50	The design of duct venting of gas explosions. Process Safety Progress, 2008, 27, 164-172.	0.4	11
51	Effect of the Re number on heat and mass transport in a catalytic monolith. Catalysis Today, 2006, 117, 498-505.	2.2	6
52	The effect of support morphology on the reaction of oxidative dehydrogenation of ethane to ethylene at short contact times. Catalysis Today, 2005, 105, 551-559.	2.2	24
53	The mitigation of pressure piling by divergent connections. Process Safety Progress, 2005, 24, 310-315.	0.4	10
54	Modeling ethane oxy-dehydrogenation over monolithic combustion catalysts. AIChE Journal, 2004, 50, 2233-2245.	1.8	14

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55	Temperature excursions during the transient behaviour of high temperature catalytic combustion monoliths. <i>Catalysis Today</i> , 2003, 83, 171-182.	2.2	11
56	Heat and mass fluxes in presence of superficial reaction in a not completely developed laminar flow. <i>Chemical Engineering Science</i> , 2003, 58, 1079-1086.	1.9	13
57	Modelling attrition of limestone during calcination and sulfation in a fluidized bed reactor. <i>Powder Technology</i> , 1998, 95, 119-128.	2.1	50