Angela Millera

List of Publications by Citations

Source: https://exaly.com/author-pdf/9585455/angela-millera-publications-by-citations.pdf
Version: 2024-04-28

93 papers	2,444 citations	31 h-index	44 g-index
94 ext. papers	2,698 ext. citations	4.7 avg, IF	4.82 L-index

#	Paper	IF	Citations
93	Pyrolysis of eucalyptus at different heating rates: studies of char characterization and oxidative reactivity. *Journal of Analytical and Applied Pyrolysis*, **2005**, 74, 307-314	6	143
92	Characterization of Biomass Chars Formed under Different Devolatilization Conditions: Differences between Rice Husk and Eucalyptus. *Energy & Fuels*, **2008**, 22, 1275-1284	4.1	129
91	HCN oxidation in an O2/CO2 atmosphere: An experimental and kinetic modeling study. *Combustion and Flame*, **2010**, 157, 267-276	5.3	91
90	Nitric Oxide Reduction by Non-hydrocarbon Fuels. Implications for Reburning with Gasification Gases. *Energy & Fuels*, **2000**, 14, 828-838	4.1	77
89	Soot formation from C2H2 and C2H4 pyrolysis at different temperatures. *Journal of Analytical and Applied Pyrolysis*, **2007**, 79, 244-251	6	73
88	Formation of PAH and soot during acetylene pyrolysis at different gas residence times and reaction temperatures. *Energy*, **2012**, 43, 30-36	7.9	65
87	Quantification of polycyclic aromatic hydrocarbons (PAHs) found in gas and particle phases from pyrolytic processes using gas chromatography–mass spectrometry (GC–MS). *Fuel*, **2013**, 107, 246-253	7.1	61
86	Gas and soot products formed in the pyrolysis of acetylene mixed with methanol, ethanol, isopropanol or n-butanol. *Energy*, **2012**, 43, 37-46	7.9	57
85	Influence of the Temperature and Oxygen Concentration on NOx Reduction In The Natural Gas Reburning Process. *Industrial & Engineering Chemistry Research*, **1994**, 33, 2846-2852	3.9	54
84	Polycyclic Aromatic Hydrocarbon (PAH) and Soot Formation in the Pyrolysis of Acetylene and Ethylene: Effect of the Reaction Temperature. *Energy & Fuels*, **2012**, 26, 4823-4829	4.1	53
83	Polycyclic aromatic hydrocarbons (PAH), soot and light gases formed in the pyrolysis of acetylene at different temperatures: Effect of fuel concentration. *Journal of Analytical and Applied Pyrolysis*, **2013**, 103, 126-133	6	50
82	An experimental study of the soot formed in the pyrolysis of acetylene. *Journal of Analytical and Applied Pyrolysis*, **2005**, 74, 486-493	6	50
81	Thermal decomposition of lignocellulosic materials: influence of the chemical composition. *Thermochimica Acta*, **1989**, 143, 149-159	2.9	50
80	Kinetics of thermal decomposition of cellulose. *Thermochimica Acta*, **1987**, 120, 121-131	2.9	49
79	Temperature profiles and weight loss in the thermal decomposition of large spherical wood particles. *Industrial & Engineering Chemistry Research*, **1993**, 32, 1811-1817	3.9	48
78	An experimental and modeling study of the oxidation of acetylene in a flow reactor. *Combustion and Flame*, **2008**, 152, 377-386	5.3	47
77	Modeling Low-Temperature Gas Reburning. NOx Reduction Potential and Effects of Mixing. *Energy & Fuels*, **1998**, 12, 329-338	4.1	43

76	Evaluation of the use of different hydrocarbon fuels for gas reburning. *Fuel*, **1997**, 76, 1401-1407	7.1	42
75	SO_2 effects on CO oxidation in a CO_2 atmosphere, characteristic of oxy-fuel conditions. *Combustion and Flame*, **2011**, 158, 48-56	5.3	41
74	Gas and soot products formed in the pyrolysis of acetylene–ethanol blends under flow reactor conditions. *Fuel Processing Technology*, **2009**, 90, 496-503	7.2	40
73	Pyrolysis of Ethanol: Gas and Soot Products Formed. *Industrial & Engineering Chemistry Research*, **2011**, 50, 4412-4419	3.9	39
72	Influence of Different Operation Conditions on Soot Formation from C_2H_2 Pyrolysis. *Industrial & Engineering Chemistry Research*, **2007**, 46, 7550-7560	3.9	39
71	Experimental Study of the Influence of the Operating Variables on Natural Gas Reburning Efficiency. *Industrial & Engineering Chemistry Research*, **1995**, 34, 4531-4539	3.9	38
70	Kinetics of weight loss by thermal decomposition of xylan and lignin. Influence of experimental conditions. *Thermochimica Acta*, **1989**, 143, 137-148	2.9	38
69	Interactions between Nitric Oxide and Urea under Flow Reactor Conditions. *Energy & Fuels*, **1998**, 12, 1001-1007	4.1	37
68	High Pressure Oxidation of Dimethoxymethane. *Energy & Fuels*, **2015**, 29, 3507-3517	4.1	34
67	Novel aspects in the pyrolysis and oxidation of 2,5-dimethylfuran. *Proceedings of the Combustion Institute*, **2015**, 35, 1717-1725	5.9	34
66	An experimental parametric study of gas reburning under conditions of interest for oxy-fuel combustion. *Fuel Processing Technology*, **2011**, 92, 582-589	7.2	32
65	Oxidation of Acetylene–Ethanol Mixtures and Their Interaction with NO. *Energy & Fuels*, **2008**, 22, 3814-3823	4.1	32
64	Kinetics of weight loss by thermal decomposition of different lignocellulosic materials. Relation between the results obtained from isothermal and dynamic experiments. *Thermochimica Acta*, **1990**, 165, 103-112	2.9	32
63	Sooting propensity of dimethyl carbonate, soot reactivity and characterization. *Fuel*, **2016**, 183, 64-72	7.1	31
62	CS_2 and COS conversion under different combustion conditions. *Combustion and Flame*, **2015**, 162, 2119-2127	5.3	30
61	Experimental and computational study of methane mixtures pyrolysis in a flow reactor under atmospheric pressure. *Energy*, **2012**, 43, 103-110	7.9	30
60	Theoretical study of the influence of mixing in the SNCR process. Comparison with pilot scale data. *Chemical Engineering Science*, **2000**, 55, 5321-5332	4.4	26
59	Dimethoxymethane Oxidation in a Flow Reactor. *Combustion Science and Technology*, **2016**, 188, 719-729	1.5	25

58	Experimental study on the effect of different CO2 concentrations on soot and gas products from ethylene thermal decomposition. *Fuel*, **2012**, 91, 307-312	7.1	25
57	Experimental and Kinetic Study at High Temperatures of the NO Reduction over Eucalyptus Char Produced at Different Heating Rates. *Energy & Fuels*, **2011**, 25, 1024-1033	4.1	25
56	Influence of water vapor addition on soot oxidation at high temperature. *Energy*, **2012**, 43, 55-63	7.9	24
55	High-Pressure Study of Methyl Formate Oxidation and Its Interaction with NO. *Energy & Fuels*, **2014**, 28, 6107-6115	4.1	23
54	2-methylfuran pyrolysis: Gas-phase modelling and soot formation. *Combustion and Flame*, **2018**, 188, 376-387	5.3	22
53	Kinetics of thermal decomposition of cellulose. *Thermochimica Acta*, **1987**, 120, 133-141	2.9	22
52	Influence of the Temperature and 2,5-Dimethylfuran Concentration on Its Sooting Tendency. *Combustion Science and Technology*, **2016**, 188, 651-666	1.5	22
51	Effect of Ethanol, Dimethylether, and Oxygen, When Mixed with Acetylene, on the Formation of Soot and Gas Products. *Industrial & Engineering Chemistry Research*, **2010**, 49, 6772-6779	3.9	21
50	Simplified Kinetic Model of the Chemistry in the Reburning Zone Using Natural Gas. *Industrial & Engineering Chemistry Research*, **1995**, 34, 4540-4548	3.9	21
49	Impact of nitrogen oxides (NO, NO2, N2O) on the formation of soot. *Combustion and Flame*, **2014**, 161, 280-287	5.3	19
48	A STUDY OF PYRROLE OXIDATION UNDER FLOW REACTOR CONDITIONS. *Combustion Science and Technology*, **2001**, 172, 123-139	1.5	19
47	Interaction between 2,5-Dimethylfuran and Nitric Oxide: Experimental and Modeling Study. *Energy & Fuels*, **2014**, 28, 4193-4198	4.1	18
46	Influence of the concentration of ethanol and the interaction of compounds in the pyrolysis of acetylene and ethanol mixtures. *Fuel*, **2011**, 90, 844-849	7.1	18
45	Effect of Recirculation Gases on Soot Formed from Ethylene Pyrolysis. *Combustion Science and Technology*, **2012**, 184, 980-994	1.5	18
44	Impact of New Findings Concerning Urea Thermal Decomposition on the Modeling of the Urea-SNCR Process. *Energy & Fuels*, **2000**, 14, 509-510	4.1	18
43	Effect of operating conditions on NO reduction by acetylene�thanol mixtures. *Fuel Processing Technology*, **2010**, 91, 1204-1211	7.2	17
42	Dilution and Stoichiometry Effects on Gas Reburning: An Experimental Study. *Industrial & Engineering Chemistry Research*, **1997**, 36, 2440-2444	3.9	17
41	Influence of the Oxygen Presence on Polycyclic Aromatic Hydrocarbon (PAH) Formation from Acetylene Pyrolysis under Sooting Conditions. *Energy & Fuels*, **2013**, 27, 7081-7088	4.1	16

40	Gas and soot formed in the dimethoxymethane pyrolysis. Soot characterization. *Fuel Processing Technology*, **2018**, 179, 369-377	7.2	15
39	Oxidation of methyl formate and its interaction with nitric oxide. *Combustion and Flame*, **2013**, 160, 853-860	5.9	15
38	A study of dimethyl carbonate conversion and its impact to minimize soot and NO emissions. *Proceedings of the Combustion Institute*, **2017**, 36, 3985-3993	5.9	15
37	Oxidation of Acetylene Soot: Influence of Oxygen Concentration. *Energy & Fuels*, **2007**, 21, 3208-3215	4.1	15
36	Experimental and Kinetic Study of the Interaction of a Commercial Soot with NO at High Temperature. *Combustion Science and Technology*, **2012**, 184, 1191-1206	1.5	14
35	An Augmented Reduced Mechanism for Methane Combustion. *Energy & Fuels*, **2004**, 18, 619-627	4.1	14
34	Experimental study and modelling of the burnout zone in the natural gas reburning process. *Chemical Engineering Science*, **1995**, 50, 2579-2587	4.4	14
33	Impact of SO2 on the formation of soot from ethylene pyrolysis. *Fuel*, **2015**, 159, 550-558	7.1	13
32	Interactions of HCN with NO in a CO2 Atmosphere Representative of Oxy-fuel Combustion Conditions. *Energy & Fuels*, **2015**, 29, 6593-6597	4.1	13
31	Acetylene soot reaction with NO in the presence of CO. *Journal of Hazardous Materials*, **2009**, 166, 1389-94	12.8	13
30	Influence of the NO Concentration and the Presence of Oxygen in the Acetylene Soot Reaction with NO. *Energy & Fuels*, **2008**, 22, 284-290	4.1	11
29	Thermal decomposition of lignocellulosic materials: comparison of the results obtained in different experimental systems. *Thermochimica Acta*, **1991**, 190, 163-173	2.9	11
28	Product distribution in the flash pyrolysis of lignocellulosic materials in a fluidized bed. *Fuel*, **1988**, 67, 1586-1588	7.1	11
27	Characterization of Soot. *Green Energy and Technology*, **2013**, 333-362	0.6	11
26	Oxidation Kinetics of Eucalyptus Chars Produced at Low and High Heating Rates. *Energy & Fuels*, **2008**, 22, 2084-2090	4.1	10
25	Influence of Reactant Mixing in a Laminar Flow Reactor:□The Case of Gas Reburning. 1. Experimental Study. *Industrial & Engineering Chemistry Research*, **2007**, 46, 3520-3527	3.9	10
24	Experimental Study of the Pyrolysis of NH3 under Flow Reactor Conditions. *Energy & Fuels*, **2021**, 35, 7193-7200	4.1	10
23	2-methylfuran Oxidation in the Absence and Presence of NO. *Flow, Turbulence and Combustion*, **2016**, 96, 343-362	2.5	9

22	Influence of dimethyl ether addition on the oxidation of acetylene in the absence and presence of NO. *Fuel*, **2016**, 183, 1-8	7.1	9
21	The inhibiting effect of NO addition on dimethyl ether high-pressure oxidation. *Combustion and Flame*, **2018**, 197, 1-10	5.3	9
20	CH3SH conversion in a tubular flow reactor. Experiments and kinetic modelling. *Combustion and Flame*, **2019**, 203, 23-30	5.3	8
19	An experimental and modeling study of the influence of flue gases recirculated on ethylene conversion. *Combustion and Flame*, **2014**, 161, 2288-2296	5.3	8
18	Thermal decomposition of a wood particle. Temperature profiles on the solid surface. *Thermochimica Acta*, **1992**, 197, 431-442	2.9	8
17	High-pressure ethanol oxidation and its interaction with NO. *Fuel*, **2018**, 223, 394-400	7.1	7
16	Ethanol as a Fuel Additive: High-Pressure Oxidation of Its Mixtures with Acetylene. *Energy & Fuels*, **2018**, 32, 10078-10087	4.1	6
15	Reactivity and Physicochemical Properties of the Soot Produced in the Pyrolysis of 2,5-Dimethylfuran and 2-Methylfuran. *Energy & Fuels*, **2019**, 33, 9851-9858	4.1	6
14	Effect of the Presence of Hydrogen Sulfide on the Formation of Light Gases, Soot, and PAH during the Pyrolysis of Ethylene. *Energy & Fuels*, **2016**, 30, 9745-9751	4.1	6
13	Characterization and reactivity with NO/O2 of the soot formed in the pyrolysis of acetylene�thanol mixtures. *Journal of Analytical and Applied Pyrolysis*, **2012**, 94, 68-74	6	5
12	Oxidation behavior of particulate matter sampled from the combustion zone of a domestic pellet-fired boiler. *Fuel Processing Technology*, **2013**, 116, 201-208	7.2	4
11	Effect of CO2 atmosphere and presence of NOx (NO and NO2) on the moist oxidation of CO. *Fuel*, **2019**, 236, 615-621	7.1	4
10	A Comparison of Acetylene Soot and Two Different Carbon Blacks: Reactivity to Oxygen and NO. *International Journal of Chemical Reactor Engineering*, **2007**, 5,	1.2	3
9	An Experimental and Computational Fluid Dynamics (CFD) Simulation Study of Reburning under Laboratory Turbulent Mixing Conditions. *Energy & Fuels*, **2005**, 19, 833-841	4.1	3
8	An Approach to the Analysis of Mixing in Reactive Systems. *Chemical Engineering and Technology*, **2002**, 25, 417-419	2	2
7	Experimental study and modeling of the influence of the inlet no concentration in the natural gas reburning process. *Coal Science and Technology*, **1995**, 24, 1771-1774		2
6	Joint quantification of PAH and oxy-PAH from standard reference materials (urban dust and diesel particulate matter) and diesel soot surrogate by GC-MS. *International Journal of Environmental Analytical Chemistry*, **2019**, 1-13	1.8	2
5	Influence of Reactant Mixing in a Laminar Flow Reactor: The Case of Gas Reburning. 2. Modelling Study. *Industrial & Engineering Chemistry Research*, **2007**, 46, 3528-3537	3.9	1

4	Tubular Flow Reactors. *Green Energy and Technology*, **2013**, 211-230	0.6	1
3	Experimental and simulation study of the high pressure oxidation of dimethyl carbonate. *Fuel*, **2022**, 309, 122154	7.1	0
2	Angular and radial temperature profiles in the thermal decomposition of wood. *Thermochimica Acta*, **1992**, 200, 401-411	2.9	
1	Formation and Characterization of Polyaromatic Hydrocarbons. *Green Energy and Technology*, **2013**, 283-302	0.6	