

# Paulo Debiagi

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

768  
citations

840776

11  
h-index

794594

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

722  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical Modeling of Fast Biomass Pyrolysis and Bio-Oil Formation. Note I: Kinetic Mechanism of Biomass Pyrolysis. ACS Sustainable Chemistry and Engineering, 2017, 5, 2867-2881.	6.7	154
2	Extractives Extend the Applicability of Multistep Kinetic Scheme of Biomass Pyrolysis. Energy & Fuels, 2015, 29, 6544-6555.	5.1	118
3	Algae characterization and multistep pyrolysis mechanism. Journal of Analytical and Applied Pyrolysis, 2017, 128, 423-436.	5.5	80
4	Mathematical Modeling of Fast Biomass Pyrolysis and Bio-Oil Formation. Note II: Secondary Gas-Phase Reactions and Bio-Oil Formation. ACS Sustainable Chemistry and Engineering, 2017, 5, 2882-2896.	6.7	79
5	Detailed kinetic mechanism of gas-phase reactions of volatiles released from biomass pyrolysis. Biomass and Bioenergy, 2016, 93, 60-71.	5.7	73
6	A predictive model of biochar formation and characterization. Journal of Analytical and Applied Pyrolysis, 2018, 134, 326-335.	5.5	69
7	A computational framework for the pyrolysis of anisotropic biomass particles. Chemical Engineering Journal, 2017, 321, 458-473.	12.7	55
8	Advanced modeling approaches for CFD simulations of coal combustion and gasification. Progress in Energy and Combustion Science, 2021, 86, 100938.	31.2	45
9	Flamelet tabulation methods for solid fuel combustion with fuel-bound nitrogen. Combustion and Flame, 2019, 209, 155-166.	5.2	17
10	Carrier-phase DNS of detailed NO <sub>x</sub> formation in early-stage pulverized coal combustion with fuel-bound nitrogen. Fuel, 2021, 291, 119998.	6.4	13
11	Experimental and modeling assessment of sulfur release from coal under low and high heating rates. Proceedings of the Combustion Institute, 2021, 38, 4053-4061.	3.9	11
12	Development and Application of an Efficient Chemical Reactor Network Model for Oxy-fuel Combustion. Energy & Fuels, 2021, 35, 7121-7132.	5.1	10
13	Can Small Polyaromatics Describe Their Larger Counterparts for Local Reactions? A Computational Study on the H-Abstraction Reaction by an H-Atom from Polyaromatics. Journal of Physical Chemistry A, 2020, 124, 9626-9637.	2.5	8
14	An experimental and numerical study on the combustion of lignites from different geographic origins. Fuel, 2020, 278, 118320.	6.4	7
15	A Predictive Physico-chemical Model of Biochar Oxidation. Energy & Fuels, 2021, 35, 14894-14912.	5.1	7
16	Flamelet LES of swirl-stabilized oxy-fuel flames using directly coupled multi-step solid fuel kinetics. Combustion and Flame, 2022, 241, 112062.	5.2	6
17	Investigation of Turbulent Pulverized Solid Fuel Combustion with Detailed Homogeneous and Heterogeneous Kinetics. Energy & Fuels, 2021, 35, 7077-7091.	5.1	5
18	Liquefaction of almond husk for assessment as feedstock to obtain valuable bio-oils. Pure and Applied Chemistry, 2019, 91, 1177-1190.	1.9	4

#	ARTICLE	IF	CITATIONS
19	Flamelet tabulation methods for SO <sub>x</sub> formation in pulverized solid fuel combustion. Combustion and Flame, 2020, 218, 150-167.	5.2	4
20	Detailed simulations for flamelet modelling of SO <sub>x</sub> formation from coal. Proceedings in Applied Mathematics and Mechanics, 2019, 19, e201900367.	0.2	0