

# 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  | Flamelet LES of swirl-stabilized oxy-fuel flames using directly coupled multi-step solid fuel kinetics. <i>Combustion and Flame</i> , 2022, 241, 112062.                                                                            | 5.2  | 6         |
| 2  | Carrier-phase DNS of detailed NO <sub>x</sub> formation in early-stage pulverized coal combustion with fuel-bound nitrogen. <i>Fuel</i> , 2021, 291, 119998.                                                                        | 6.4  | 13        |
| 3  | Advanced modeling approaches for CFD simulations of coal combustion and gasification. <i>Progress in Energy and Combustion Science</i> , 2021, 86, 100938.                                                                          | 31.2 | 45        |
| 4  | A Predictive Physico-chemical Model of Biochar Oxidation. <i>Energy &amp; Fuels</i> , 2021, 35, 14894-14912.                                                                                                                        | 5.1  | 7         |
| 5  | Experimental and modeling assessment of sulfur release from coal under low and high heating rates. <i>Proceedings of the Combustion Institute</i> , 2021, 38, 4053-4061.                                                            | 3.9  | 11        |
| 6  | Investigation of Turbulent Pulverized Solid Fuel Combustion with Detailed Homogeneous and Heterogeneous Kinetics. <i>Energy &amp; Fuels</i> , 2021, 35, 7077-7091.                                                                  | 5.1  | 5         |
| 7  | Development and Application of an Efficient Chemical Reactor Network Model for Oxy-fuel Combustion. <i>Energy &amp; Fuels</i> , 2021, 35, 7121-7132.                                                                                | 5.1  | 10        |
| 8  | An experimental and numerical study on the combustion of lignites from different geographic origins. <i>Fuel</i> , 2020, 278, 118320.                                                                                               | 6.4  | 7         |
| 9  | Can Small Polyaromatics Describe Their Larger Counterparts for Local Reactions? A Computational Study on the H-Abstraction Reaction by an H-Atom from Polyaromatics. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9626-9637. | 2.5  | 8         |
| 10 | Flamelet tabulation methods for SO <sub>x</sub> formation in pulverized solid fuel combustion. <i>Combustion and Flame</i> , 2020, 218, 150-167.                                                                                    | 5.2  | 4         |
| 11 | Flamelet tabulation methods for solid fuel combustion with fuel-bound nitrogen. <i>Combustion and Flame</i> , 2019, 209, 155-166.                                                                                                   | 5.2  | 17        |
| 12 | Liquefaction of almond husk for assessment as feedstock to obtain valuable bio-oils. <i>Pure and Applied Chemistry</i> , 2019, 91, 1177-1190.                                                                                       | 1.9  | 4         |
| 13 | Detailed simulations for flamelet modelling of SO <sub>x</sub> formation from coal. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2019, 19, e201900367.                                                                 | 0.2  | 0         |
| 14 | A predictive model of biochar formation and characterization. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 134, 326-335.                                                                                              | 5.5  | 69        |
| 15 | Mathematical Modeling of Fast Biomass Pyrolysis and Bio-Oil Formation. Note I: Kinetic Mechanism of Biomass Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2867-2881.                                       | 6.7  | 154       |
| 16 | Mathematical Modeling of Fast Biomass Pyrolysis and Bio-Oil Formation. Note II: Secondary Gas-Phase Reactions and Bio-Oil Formation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2882-2896.                         | 6.7  | 79        |
| 17 | A computational framework for the pyrolysis of anisotropic biomass particles. <i>Chemical Engineering Journal</i> , 2017, 321, 458-473.                                                                                             | 12.7 | 55        |
| 18 | Algae characterization and multistep pyrolysis mechanism. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 128, 423-436.                                                                                                  | 5.5  | 80        |

| #  | ARTICLE                                                                                                                                 | IF  | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Detailed kinetic mechanism of gas-phase reactions of volatiles released from biomass pyrolysis. Biomass and Bioenergy, 2016, 93, 60-71. | 5.7 | 73        |
| 20 | Extractives Extend the Applicability of Multistep Kinetic Scheme of Biomass Pyrolysis. Energy & Fuels, 2015, 29, 6544-6555.             | 5.1 | 118       |