

Maria Luisa Botero

List of Publications by Year in descending order

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papers

973
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471509

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times ranked

839
citing authors

#	ARTICLE	IF	CITATIONS
1	Pentanol/diesel fuel blends: Assessment of inhalation cancer risk and ozone formation potential from carbonyl emissions emitted by an automotive diesel engine. <i>Fuel</i> , 2022, 321, 124054.	6.4	6
2	On the thermophoretic sampling and TEM-based characterisation of soot particles in flames. <i>Carbon</i> , 2021, 171, 711-722.	10.3	31
3	An assessment on how different collection methods impact thermal properties, surface functional groups, nanostructure and morphology of diesel particulate matter. <i>Combustion and Flame</i> , 2021, 225, 74-85.	5.2	5
4	Mechanical Properties of Soot Particles: The Impact of Crosslinked Polycyclic Aromatic Hydrocarbons. <i>Combustion Science and Technology</i> , 2021, 193, 643-663.	2.3	14
5	The impact of cyclic fuels on the formation and structure of soot. <i>Combustion and Flame</i> , 2020, 219, 1-12.	5.2	25
6	A virtual laboratory to support chemical reaction engineering courses using real-life problems and industrial software. <i>Education for Chemical Engineers</i> , 2020, 33, 36-44.	4.8	27
7	Experimental and numerical study of the evolution of soot primary particles in a diffusion flame. <i>Proceedings of the Combustion Institute</i> , 2019, 37, 2047-2055.	3.9	39
8	Evolution of the soot particle size distribution along the centreline of an n-heptane/toluene co-flow diffusion flame. <i>Combustion and Flame</i> , 2019, 209, 256-266.	5.2	17
9	Polymorphism of nanocrystalline TiO ₂ prepared in a stagnation flame: formation of the TiO ₂ -II phase. <i>Chemical Science</i> , 2019, 10, 1342-1350.	7.4	40
10	Detailed characterisation of TiO ₂ nano-aggregate morphology using TEM image analysis. <i>Journal of Aerosol Science</i> , 2019, 133, 96-112.	3.8	16
11	Size spectra and source apportionment of fine particulates in tropical urban environment during southwest monsoon season. <i>Environmental Pollution</i> , 2019, 244, 477-485.	7.5	10
12	Internal structure of soot particles in a diffusion flame. <i>Carbon</i> , 2019, 141, 635-642.	10.3	94
13	Co ₃ O ₄ and Fe _x Co ₃ “ _x ”O ₄ Nanoparticles/Films Synthesized in a Vapor-Fed Flame Aerosol Reactor for Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2018, 1, 655-665.	5.1	20
14	Sooting characteristics of polyoxymethylene dimethyl ether blends with diesel in a diffusion flame. <i>Fuel</i> , 2018, 224, 499-506.	6.4	62
15	Flexoelectricity and the Formation of Carbon Nanoparticles in Flames. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22210-22215.	3.1	23
16	Experimental and numerical study of palm oil and castor oil biodiesel droplet evaporation. <i>CTyF - Ciencia, Tecnología Y Futuro</i> , 2017, 6, 83-94.	0.5	0
17	Cambridge weblabs: A process control system using industrial standard SIMATIC PCS 7. <i>Education for Chemical Engineers</i> , 2016, 16, 1-8.	4.8	12
18	Sooting tendency and particle size distributions of n-heptane/toluene mixtures burned in a wick-fed diffusion flame. <i>Fuel</i> , 2016, 169, 111-119.	6.4	55

#	ARTICLE	IF	CITATIONS
19	PAH structure analysis of soot in a non-premixed flame using high-resolution transmission electron microscopy and optical band gap analysis. <i>Combustion and Flame</i> , 2016, 164, 250-258.	5.2	69
20	HRTEM evaluation of soot particles produced by the non-premixed combustion of liquid fuels. <i>Carbon</i> , 2016, 96, 459-473.	10.3	139
21	Sooting tendency of surrogates for the aromatic fractions of diesel and gasoline in a wick-fed diffusion flame. <i>Fuel</i> , 2015, 153, 31-39.	6.4	52
22	Sooting tendency of paraffin components of diesel and gasoline in diffusion flames. <i>Fuel</i> , 2014, 126, 8-15.	6.4	60
23	An improved methodology for determining threshold sooting indices from smoke point lamps. <i>Fuel</i> , 2013, 111, 120-130.	6.4	52
24	Synergistic combustion of droplets of ethanol, diesel and biodiesel mixtures. <i>Fuel</i> , 2012, 94, 342-347.	6.4	105