

Antonio Tregrossi

List of Publications by Year in descending order

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55
papers

2,434
citations

159525

30
h-index

197736

49
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55
all docs

55
docs citations

55
times ranked

1473
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-property relationship in nanostructures of young and mature soot in premixed flames. Proceedings of the Combustion Institute, 2009, 32, 697-704.	2.4	240
2	Infrared spectroscopy of some carbon-based materials relevant in combustion: Qualitative and quantitative analysis of hydrogen. Carbon, 2014, 74, 127-138.	5.4	124
3	Soot nanostructure evolution in premixed flames by High Resolution Electron Transmission Microscopy (HRTEM). Proceedings of the Combustion Institute, 2015, 35, 1895-1902.	2.4	120
4	Analysis of process parameters for steady operations in methane mild combustion technology. Proceedings of the Combustion Institute, 2005, 30, 2605-2612.	2.4	102
5	The combustion of benzene in rich premixed flames at atmospheric pressure. Combustion and Flame, 1999, 117, 553-561.	2.8	93
6	The effect of temperature on soot properties in premixed methane flames. Combustion and Flame, 2010, 157, 1959-1965.	2.8	93
7	The effect of temperature on soot inception in premixed ethylene flames. Proceedings of the Combustion Institute, 1996, 26, 2327-2333.	0.3	89
8	Probing structures of soot formed in premixed flames of methane, ethylene and benzene. Proceedings of the Combustion Institute, 2013, 34, 1885-1892.	2.4	80
9	Mass spectrometric analysis of large PAH in a fuel-rich ethylene flame. Proceedings of the Combustion Institute, 2007, 31, 547-553.	2.4	78
10	Spectroscopic and compositional signatures of pah-loaded mixtures in the soot inception region of a premixed ethylene flame. Proceedings of the Combustion Institute, 1998, 27, 1481-1487.	0.3	74
11	Aromatic structures of carbonaceous materials and soot inferred by spectroscopic analysis. Carbon, 2004, 42, 1583-1589.	5.4	70
12	Hydrogen-enriched methane Mild Combustion in a well stirred reactor. Experimental Thermal and Fluid Science, 2007, 31, 469-475.	1.5	69
13	Dehydrogenation and growth of soot in premixed flames. Proceedings of the Combustion Institute, 2015, 35, 1803-1809.	2.4	64
14	Fluorescence Spectroscopy of Complex Aromatic Mixtures. Analytical Chemistry, 2004, 76, 2138-2143.	3.2	56
15	Structural Characterization of Large Polycyclic Aromatic Hydrocarbons. Part 1: The Case of Coal Tar Pitch and Naphthalene-Derived Pitch. Energy & Fuels, 2015, 29, 5714-5722.	2.5	55
16	Experimental and kinetic modeling study of sooting atmospheric-pressure cyclohexane flame. Proceedings of the Combustion Institute, 2009, 32, 585-591.	2.4	51
17	Effect of after-treatment systems on particulate matter emissions in diesel engine exhaust. Experimental Thermal and Fluid Science, 2020, 116, 110107.	1.5	51
18	Structural Characterization of Large Polycyclic Aromatic Hydrocarbons. Part 2: Solvent-Separated Fractions of Coal Tar Pitch and Naphthalene-Derived Pitch. Energy & Fuels, 2016, 30, 2574-2583.	2.5	47

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19	Optical properties of organic carbon and soot produced in an inverse diffusion flame. Carbon, 2017, 124, 372-379.	5.4	47
20	HRTEM and EELS investigations of flame-formed soot nanostructure. Fuel, 2018, 225, 218-224.	3.4	47
21	Effect of Fuel/Air Ratio and Aromaticity on Sooting Behavior of Premixed Heptane Flames. Energy & Fuels, 2007, 21, 2655-2662.	2.5	45
22	Effect of fuel/air ratio and aromaticity on the molecular weight distribution of soot in premixed n-heptane flames. Proceedings of the Combustion Institute, 2009, 32, 803-810.	2.4	45
23	Fluorescence spectroscopy of aromatic species produced in rich premixed ethylene flames. Chemosphere, 2001, 42, 835-841.	4.2	43
24	Comparative analysis of the structure of carbon materials relevant in combustion. Chemosphere, 2003, 51, 1063-1069.	4.2	41
25	Formation of low- and high-molecular-weight hydrocarbon species in sooting ethylene flames. Combustion Science and Technology, 2002, 174, 309-324.	1.2	40
26	Investigation on chemical and structural properties of coal- and petroleum-derived pitches and implications on physico-chemical properties (solubility, softening and coking). Fuel, 2019, 245, 478-487.	3.4	37
27	The relation between ultraviolet-excited fluorescence spectroscopy and aromatic species formed in rich laminar ethylene flames. Combustion and Flame, 2001, 125, 1225-1229.	2.8	36
28	Correlations of the Spectroscopic Properties with the Chemical Composition of Flame-Formed Aromatic Mixtures. Combustion Science and Technology, 2000, 153, 19-32.	1.2	35
29	DYNAMIC BEHAVIOR OF METHANE OXIDATION IN PREMIXED FLOW REACTOR. Combustion Science and Technology, 2004, 176, 769-783.	1.2	34
30	Distribution of Soot Molecular Weight/Size along Premixed Flames as Inferred by Size Exclusion Chromatography. Energy & Fuels, 2007, 21, 136-140.	2.5	31
31	Experimental and modeling study on the molecular weight distribution and properties of carbon particles in premixed sooting flames. Proceedings of the Combustion Institute, 2011, 33, 633-640.	2.4	31
32	The effect of temperature on the condensed phases formed in fuel-rich premixed benzene flames. Combustion and Flame, 2012, 159, 2233-2242.	2.8	31
33	Laser-induced structural modifications of differently aged soot investigated by HRTEM. Combustion and Flame, 2019, 204, 13-22.	2.8	31
34	Study on the contribution of different molecular weight species to the absorption UV-Visible spectra of flame-formed carbon species. Proceedings of the Combustion Institute, 2013, 34, 3661-3668.	2.4	30
35	Size Exclusion Chromatography of Particulate Produced in Fuel-Rich Combustion of Different Fuels. Energy & Fuels, 2003, 17, 565-570.	2.5	29
36	Spectral Analysis in the UV-Visible Range for Revealing the Molecular Form of Combustion-Generated Carbonaceous Species. Combustion Science and Technology, 2012, 184, 1219-1231.	1.2	27

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37	Optical band gap analysis of soot and organic carbon in premixed ethylene flames: Comparison of in-situ and ex-situ absorption measurements. <i>Carbon</i> , 2020, 158, 89-96.	5.4	26
38	Similarities and dissimilarities in n-hexane and benzene sooting premixed flames. <i>Proceedings of the Combustion Institute</i> , 2007, 31, 585-591.	2.4	24
39	The formation of aromatic carbon in sooting ethylene flames. <i>Proceedings of the Combustion Institute</i> , 1994, 25, 679-685.	0.3	19
40	Spectral Signatures of Carbon Particulate Evolution in Methane Flames. <i>Combustion Science and Technology</i> , 2010, 182, 683-691.	1.2	19
41	SPECTRAL PROPERTIES OF SOOT IN THE UV-VISIBLE RANGE. <i>Combustion Science and Technology</i> , 2007, 179, 371-385.	1.2	17
42	Sooting structure of a premixed toluene-doped methane flame. <i>Combustion and Flame</i> , 2018, 190, 252-259.	2.8	16
43	PAHs and fullerenes as structural and compositional motifs tracing and distinguishing organic carbon from soot. <i>Fuel</i> , 2022, 309, 122356.	3.4	16
44	Depletion of Fuel Aromatic Components and Formation of Aromatic Species in a Spray Flame as Characterized by Fluorescence Spectroscopy. <i>Energy & Fuels</i> , 2001, 15, 987-995.	2.5	14
45	Monitoring of fuel consumption and aromatics formation in a kerosene spray flame as characterized by fluorescence spectroscopy. <i>Chemosphere</i> , 2003, 51, 1097-1102.	4.2	13
46	The Effect of Temperature on Soot Properties in Premixed Ethylene Flames. <i>Combustion Science and Technology</i> , 2019, 191, 1558-1570.	1.2	11
47	Thermophoretic sampling of large PAH (C ₂₂ H ₂₄) formed in flames. <i>Fuel</i> , 2020, 263, 116722.	3.4	11
48	Spectroscopic behavior of oxygenated combustion by-products. <i>Chemosphere</i> , 2003, 51, 1071-1077.	4.2	10
49	On-line fast analysis of light hydrocarbons, PAH and radicals by molecular-beam time of flight mass spectrometry. <i>Chemosphere</i> , 2021, 276, 130174.	4.2	6
50	Ensemble and time resolved light scattering measurements in isothermal and burning heavy oil sprays. <i>Proceedings of the Combustion Institute</i> , 1992, 24, 1549-1555.	0.3	5
51	DILUTION EFFECTS IN NATURAL GAS MILD COMBUSTION. <i>Clean Air</i> , 2006, 7, 127-139.	0.0	4
52	Light Absorption Coefficient and Hydrogen Content as Key Properties for Inferring Structural Features of Soot. <i>Combustion Science and Technology</i> , 2014, 186, 634-643.	1.2	2
53	Study on the separation and thin film deposition of tarry aromatics mixtures (soot extract and) Tj ETQq1 1 0.784314 rgBT /Oyerlock 10	3.4	2
54	Soot and PAH Formation in Rapeseed Oil Spray Combustion. <i>Clean Air</i> , 2002, 3, 53-68.	0.0	2

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55	The Angular Polarization Ratio for the Characterization of Small Droplets in Oil Sprays. Particle and Particle Systems Characterization, 1993, 10, 19-25.	1.2	1