# JÃ©rÃ´me Yon

List of Publications by Year
in descending order



| 66 | 1,767 | 257450 24 | 289244 40 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 67 | 67 | 67 | 1227 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Droplet size and morphology characterization for dense sprays by image processing: application to the Diesel spray. Experiments in Fluids, 2005, 39, 977-994. | 2.4 | 127 |
| 2 | Examination of wavelength dependent soot optical properties ofÂdiesel and diesel/rapeseed methyl ester mixture by extinction spectra analysis and LII measurements. Applied Physics B: Lasers and Optics, 2011, 104, 253-271. | 2.2 | 100 |
| 3 | Review of recent literature on the light absorption properties of black carbon: Refractive index, mass absorption cross section, and absorption function. Aerosol Science and Technology, 2020, 54, 33-51. | 3.1 | 96 |
| 4 | Comparison of methods to derive morphological parameters of multi-fractal samples of particle aggregates from TEM images. Journal of Aerosol Science, 2012, 47, 12-26. | 3.8 | 86 |
| 5 | Automated Determination of Aggregate Primary Particle Size Distribution by TEM Image Analysis: Application to Soot. Aerosol Science and Technology, 2014, 48, 831-841. | 3.1 | 86 |
| 6 | On the radiative properties of soot aggregates part 1: Necking and overlapping. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 162, 197-206. | 2.3 | 78 |
| 7 | Soot optical properties determined by analyzing extinction spectra in the visible near-UV: Toward an optical speciation according to constituents and structure. Journal of Aerosol Science, 2016, 101, 118-132. | 3.8 | 71 |
| 8 | Effects of multiple scattering on radiative properties of soot fractal aggregates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 374-381. | 2.3 | 66 |
| 9 | On the radiative properties of soot aggregates â€“ Part 2: Effects of coating. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 172, 134-145. | 2.3 | 62 |
| 10 | Influence of Sampling and Storage Protocol on Fractal Morphology of Soot Studied by Transmission Electron Microscopy. Aerosol Science and Technology, 2010, 44, 1005-1017. | 3.1 | 57 |
| 11 | Light scattering and absorption by fractal aggregates including soot. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 217, 459-473. | 2.3 | 53 |
| 12 | A simple semi-empirical model for effective density measurements of fractal aggregates. Journal of Aerosol Science, 2015, 87, 28-37. | 3.8 | 50 |
| 13 | The MERMOSE project: Characterization of particulate matter emissions of a commercial aircraft engine. Journal of Aerosol Science, 2017, 105, 48-63. | 3.8 | 45 |
| 14 | FracVAL: An improved tunable algorithm of clusterâ€“cluster aggregation for generation of fractal structures formed by polydisperse primary particles. Computer Physics Communications, 2019, 239, 225-237. | 7.5 | 45 |
| 15 | Revealing soot maturity based on multi-wavelength absorption/emission measurements in laminar axisymmetric coflow ethylene diffusion flames. Combustion and Flame, 2021, 227, 147-161. | 5.2 | 45 |
| 16 | Characterization of Soot Particles in the Plumes of Over-Ventilated Diffusion Flames. Combustion Science and Technology, 2008, 180, 674-698. | 2.3 | 34 |
| 17 | Numerical investigation of the possibility to determine the primary particle size of fractal aggregates by measuring light depolarization. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 126, 130-139. | 2.3 | 34 |
| 18 | First in-flight synchrotron X-ray absorption and photoemission study of carbon soot nanoparticles. Scientific Reports, 2016, 6, 36495. | 3.3 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Extension of RDGâ€FA for Scattering Prediction of Aggregates of Soot Taking into Account Interactions of Large Monomers. Particle and Particle Systems Characterization, 2008, 25, 54-67. | 2.3 | 30 |
| 20 | True density of combustion emitted particles: A comparison of results highlighting the influence of the organic contents. Journal of Aerosol Science, 2019, 134, 1-13. | 3.8 | 30 |
| 21 | Measurement of aggregates' size distribution by angular light scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 126, 140-149. | 2.3 | 29 |
| 22 | A semi-automatic analysis tool for the determination of primary particle size, overlap coefficient and specific surface area of nanoparticles aggregates. Journal of Aerosol Science, 2018, 126, 122-132. | 3.8 | 29 |
| 23 | Behaviour of aeronautical polymer composite to flame: A comparative study of thermoset- and thermoplastic-based laminate. Polymer Degradation and Stability, 2018, 152, 105-115. | 5.8 | 28 |
| 24 | Impact of the primary particle polydispersity on the radiative properties of soot aggregates. Proceedings of the Combustion Institute, 2019, 37, 1151-1159. | 3.9 | 24 |
| 25 | Monte Carlo Aggregation Code (MCAC) Part 2: Application to soot agglomeration, highlighting the importance of primary particles. Journal of Colloid and Interface Science, 2020, 575, 274-285. | 9.4 | 24 |
| 26 | Original use of a direct injection high efficiency nebulizer for the standardization of liquid fuels spray flames. Review of Scientific Instruments, 2009, 80, 105105. | 1.3 | 21 |
| 27 | Increase in thermophoretic velocity of carbon aggregates as a function of particle size. Journal of Aerosol Science, 2014, 76, 87-97. | 3.8 | 21 |
| 28 | Monte Carlo Aggregation Code (MCAC) Part 1: Fundamentals. Journal of Colloid and Interface Science, 2020, 569, 184-194. | 9.4 | 20 |
| 29 | Impact of necking and overlapping on radiative properties of coated soot aggregates. Aerosol Science and Technology, 2017, 51, 532-542. | 3.1 | 16 |
| 30 | Influence of primary particle polydispersity and overlapping on soot morphological parameters derived from numerical TEM images. Powder Technology, 2018, 330, 67-79. | 4.2 | 16 |
| 31 | Investigation of soot oxidation by coupling LII, SAXS and scattering measurements. Combustion and Flame, 2018, 190, 441-453. | 5.2 | 16 |
| 32 | Specific surface area of combustion emitted particles: Impact of primary particle diameter and organic content. Journal of Aerosol Science, 2019, 137, 105436. | 3.8 | 16 |
| 33 | Impact of Organic Coating on Soot Angular and Spectral Scattering Properties. Environmental Science & Technology, 2019, 53, 6383-6391. | 10.0 | 16 |
| 34 | A novel approach for in-situ soot size distribution measurement based on spectrally resolved light scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 225, 58-68. | 2.3 | 16 |
| 35 | Influence of soot aggregate size and internal multiple scattering on LII signal and the absorption function variation with wavelength determined by the TEW-LII method. Applied Physics B: Lasers and Optics, 2015, 119, 643-655. | 2.2 | 15 |
| 36 | Impact of the competition between aggregation and surface growth on the morphology of soot particles formed in an ethylene laminar premixed flame. Journal of Aerosol Science, 2021, 152, 105690. | 3.8 | 15 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | Impact of the maturation process on soot particle aggregation kinetics and morphology. Carbon, 2021, 182, 837-846. | 10.3 | 15 |
| 38 | Physicochemical properties of aerosol released in the case of a fire involving materials used in the nuclear industry. Journal of Hazardous Materials, 2015, 283, 340-349. | 12.4 | 14 |
| 39 | From monomers to agglomerates: A generalized model for characterizing the morphology of fractal-like clusters. Journal of Aerosol Science, 2021, 151, 105628. | 3.8 | 13 |
| 40 | Time-dependent smoke yield and mass loss of pool fires in a reduced-scale mechanically ventilated compartment. Fire Safety Journal, 2016, 81, 32-43. | 3.1 | 12 |
| 41 | Experimental investigation of a low Reynolds number flame jet impinging flat plates. International Journal of Heat and Mass Transfer, 2020, 156, 119856. | 4.8 | 12 |
| 42 | Toxicological impact of organic ultrafine particles (UFPs) in human bronchial epithelial BEAS-2B cells at air-liquid interface. Toxicology in Vitro, 2022, 78, 105258. | 2.4 | 12 |
| 43 | Clogging of Industrial High Efficiency Particulate Air (HEPA) Filters in Case of Fire: From Analytical to Large-Scale Experiments. Aerosol Science and Technology, 2014, 48, 939-947. | 3.1 | 11 |
| 44 | On the use of PIV, LII, PAH-PLIF and OH-PLIF for the study of soot formation and flame structure in a swirl stratified premixed ethylene/air flame. Proceedings of the Combustion Institute, 2021, 38, 1851-1858. | 3.9 | 11 |
| 45 | Design and performance of a new device for the study of thermophoresis: The radial flow thermophoretic analyser. Journal of Aerosol Science, 2013, 61, 1-12. | 3.8 | 10 |
| 46 | Analysis of the Soot Particle Size Distribution in a Laminar Premixed Flame: A Hybrid Stochastic/Fixed-Sectional Approach. Flow, Turbulence and Combustion, 2020, 104, 753-775. | 2.6 | 10 |
| 47 | Development of a standardized in vitro approach to evaluate microphysical, chemical, and toxicological properties of combustion-derived fine and ultrafine particles. Journal of Environmental Sciences, 2022, 113, 104-117. | 6.1 | 10 |
| 48 | In-situ characterization of nanoparticle beams focused with an aerodynamic lens by Laser-Induced Breakdown Detection. Scientific Reports, 2015, 5, 15696. | 3.3 | 9 |
| 49 | Horizontal Planar Angular Light Scattering (HPALS) characterization of soot produced in a laminar axisymmetric coflow ethylene diffusion flame. Combustion and Flame, 2021, 232, 111539. | 5.2 | 9 |
| 50 | Influence of the dry aerosol particle size distribution and morphology on the cloud condensation nuclei activation. An experimental and theoretical investigation. Atmospheric Chemistry and Physics, 2020, 20, 4209-4225. | 4.9 | 8 |
| 51 | Spectral Study of the Smoke Optical Density in Non-flaming Condition. Procedia Engineering, 2013, 62, 821-828. | 1.2 | 7 |
| 52 | Chemical discrimination of the particulate and gas phases of miniCAST exhausts using a two-filter collection method. Atmospheric Measurement Techniques, 2020, 13, 951-967. | 3.1 | 7 |
| 53 | Black carbon aerosol number and mass concentration measurements by picosecond short-range elastic backscatter lidar. Scientific Reports, 2022, 12, 8443. | 3.3 | 7 |
| 54 | Contribution to the study of particle resuspension kinetics during thermal degradation of polymers. Journal of Hazardous Materials, 2013, 250-251, 298-307. | 12.4 | 6 |

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|---|---|---|---|
| 55 | Spectrally resolved light extinction enhancement of coated soot particles. Atmospheric Environment, 2018, 186, 89-101. | 4.1 | 6 |
| 56 | Morphological and radiative characteristics of soot aggregates: Experimental and numerical research. Scientific Reports, 2020, 10, 411. | 3.3 | 6 |
| 57 | Soot and velocity mapping and 2D soot sheet dimensions in a buoyant wall-fire. Proceedings of the Combustion Institute, 2017, 36, 3219-3226. | 3.9 | 5 |
| 58 | Assessing the limits of Rayleighâ€“Debyeâ€“Gans theory: Phasor analysis of a bisphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 264, 107550. | 2.3 | 5 |
| 59 | Application of planar auto-compensating laser-induced incandescence to low-sooting turbulent flames and investigation of the detection gate width effect. Aerosol Science and Technology, 2021, 55, 1215-1229. | 3.1 | 5 |
| 60 | A STATISTICAL MORPHOLOGICAL DETERMINATION OF THE GROWTH RATE OF THE INTERFACIAL DISTURBANCE OF AN EXCITED RAYLEIGH JET;. Journal of Flow Visualization and Image Processing, 2004, 11, 239-256. | 0.5 | 2 |
| 61 | Measurement of the Mass Specific Extinction Coefficient of Acetylene, Toluene and Polymethyl Methacrylate Soot Particles in Visible and Near-Infrared Wavelengths. Fire Safety Science, 2008, 9, 231-240. | 0.3 | 2 |
| 62 | A semi-empirical correction for the Rayleigh-Debye-Gans approximation for fractal aggregates based on phasor analysis: Application to soot particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 283, 108143. | 2.3 | 2 |
| 63 | Comprehensive characterization of sooting butane jet flames, Part 2: Temperature and soot particle size. Combustion and Flame, 2021, 233, 111596. | 5.2 | 1 |
| 64 | Feasibility of Particle Imaging Velocimetry in Cone Calorimeter experiments. Fire Safety Science, 2014, 11, 152-164. | 0.3 | 1 |
| 65 | Soot Volume Fraction Measurements by Auto-Compensating Laser-Induced Incandescence in Diffusion Flames Generated by Ethylene Pool Fire. Frontiers in Mechanical Engineering, 2021, 7, . | 1.8 | 1 |
| 66 | Comparison and Assessment of Particle Mass Concentration Measurements in Fire Smokes with a Microbalance, Opacimeter and PPS Devices. , 2017, , 735-742. | | 0 |