

Patrick Rairoux

List of Publications by Year in descending order

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23
papers

538
citations

687363

13
h-index

642732

23
g-index

28
all docs

28
docs citations

28
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	Laboratory evaluation of the scattering matrix of ragweed, ash, birch and pine pollen towards pollen classification. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1021-1032.	3.1	6
2	High-resolution dual comb spectroscopy using a free-running, bidirectional ring titanium sapphire laser. <i>Optics Express</i> , 2022, 30, 21148.	3.4	5
3	(UV, VIS) Laboratory evaluation of the lidar depolarization ratio of freshly emitted soot aggregates from pool fire in ambient air at exact backscattering angle. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 260, 107451.	2.3	4
4	Origins and Spatial Distribution of Non-Pure Sulfate Particles (NSPs) in the Stratosphere Detected by the Balloon-Borne Light Optical Aerosols Counter (LOAC). <i>Atmosphere</i> , 2020, 11, 1031.	2.3	8
5	Laboratory evaluation of the (VIS, IR) scattering matrix of complex-shaped ragweed pollen particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020, 254, 107223.	2.3	9
6	Towards DCS in the UV Spectral Range for Remote Sensing of Atmospheric Trace Gases. <i>Remote Sensing</i> , 2020, 12, 3444.	4.0	14
7	On the use of light polarization to investigate the size, shape, and refractive index dependence of backscattering Å...ngstrÅm exponents. <i>Optics Letters</i> , 2020, 45, 1084.	3.3	11
8	Remote Sensing Observation of New Particle Formation Events with a (UV, VIS) Polarization Lidar. <i>Remote Sensing</i> , 2019, 11, 1761.	4.0	10
9	Laboratory evaluation of the scattering matrix elements of mineral dust particles from 176.0Å° up to 180.0Å°-exact backscattering angle. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 222-223, 45-59.	2.3	13
10	Remote sensing of methane with OSAS-lidar on the 2Î¼/23 band Q-branch: Experimental proof. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 130-136.	1.2	3
11	Investigating the size, shape and surface roughness dependence of polarization lidars with light-scattering computations on real mineral dust particles: Application to dust particles' external mixtures and dust mass concentration retrievals. <i>Atmospheric Research</i> , 2018, 203, 44-61.	4.1	22
12	Error Budget of the MEthane Remote Lidar mission and Its Impact on the Uncertainties of the Global Methane Budget. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 11,766.	3.3	23
13	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. <i>Remote Sensing</i> , 2017, 9, 1052.	4.0	88
14	UVâ€“VIS depolarization from Arizona Test Dust particles at exact backscattering angle. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2016, 169, 79-90.	2.3	32
15	Gas concentration measurement by optical similitude absorption spectroscopy: methodology and experimental demonstration. <i>Optics Express</i> , 2016, 24, 12588.	3.4	16
16	Lidar remote sensing of laser-induced incandescence on light absorbing particles in the atmosphere. <i>Optics Express</i> , 2015, 23, 2347.	3.4	15
17	UV polarization lidar for remote sensing new particles formation in the atmosphere. <i>Optics Express</i> , 2014, 22, A1009.	3.4	17
18	Remote sensing of atmospheric gases with optical correlation spectroscopy and lidar: first experimental results on water vapor profile measurements. <i>Applied Physics B: Lasers and Optics</i> , 2013, 113, 265-275.	2.2	22

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19	Remote sensing of methane with broadband laser and optical correlation spectroscopy on the Q-branch of the $2\hat{1}/23$ band. Journal of Molecular Spectroscopy, 2013, 291, 3-8.	1.2	12
20	Polarization-resolved exact light backscattering by an ensemble of particles in air. Optics Express, 2013, 21, 18624.	3.4	13
21	Retrieving simulated volcanic, desert dust and sea-salt particle properties from two/three-component particle mixtures using UV-VIS polarization lidar and T matrix. Atmospheric Chemistry and Physics, 2013, 13, 6757-6776.	4.9	45
22	Mineral dust photochemistry induces nucleation events in the presence of SO_2 . Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20842-20847.	7.1	113
23	Atmospheric non-spherical particles optical properties from UV-polarization lidar and scattering matrix. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	33