Alain Miffre

List of Publications by Year
in descending order

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46 papers	796 citations	516710 16 h-index	526287 27 g-index
49 all docs	49 docs citations	49 times ranked	880 citing authors

#	Article	IF	Citations
1	Laboratory evaluation of the scattering matrix of ragweed, ash, birch and pine pollen towards pollen classification. Atmospheric Measurement Techniques, 2022, 15, 1021-1032.	3.1	6
2	Decrease in sulfate aerosol light backscattering by reactive uptake of isoprene epoxydiols. Physical Chemistry Chemical Physics, 2021, 23, 5927-5935.	2.8	7
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. Journal of Quantitative Spectroscopy and Radiative Transfer, 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). Atmosphere, 2020, 11, 1031.	2.3	8
5	Laboratory evaluation of the (VIS, IR) scattering matrix of complex-shaped ragweed pollen particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 254, 107223.	2.3	9
6	On the use of light polarization to investigate the size, shape, and refractive index dependence of backscattering Ã…ngstrÃ¶m exponents. Optics Letters, 2020, 45, 1084.	3.3	11
7	Remote Sensing Observation of New Particle Formation Events with a (UV, VIS) Polarization Lidar. Remote Sensing, 2019, 11, 1761.	4.0	10
8	Laboratory evaluation of the scattering matrix elements of mineral dust particles from 176.0Â° up to 180.0Â°-exact backscattering angle. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 45-59.	2.3	13
9	Remote sensing of methane with OSAS-lidar on the 2Î½3 band Q-branch: Experimental proof. Journal of Molecular Spectroscopy, 2018, 348, 130-136.	1.2	3
10	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. Atmospheric Research, 2018, 203, 44-61.	4.1	22
11	Remote sensing of methane emissions by combining optical similitude absorption spectroscopy (OSAS) and lidar. EPJ Web of Conferences, 2018, 176, 01010.	0.3	1
12	The Carbon Aerosol / Particles Nucleation with a Lidar: Numerical Simulations and Field Studies. EPJ Web of Conferences, 2016, 119, 18001.	0.3	1
13	UVâ€“VIS depolarization from Arizona Test Dust particles at exact backscattering angle. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 169, 79-90.	2.3	32
14	Remote Sensing of Greenhouse Gases by Combining Lidar and Optical Correlation Spectroscopy. EPJ Web of Conferences, 2016, 119, 05007.	0.3	1
15	Gas concentration measurement by optical similitude absorption spectroscopy: methodology and experimental demonstration. Optics Express, 2016, 24, 12588.	3.4	16
16	Lidar remote sensing of laser-induced incandescence on light absorbing particles in the atmosphere. Optics Express, 2015, 23, 2347.	3.4	15
17	UV polarization lidar for remote sensing new particles formation in the atmosphere. Optics Express, 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. Applied Physics B: Lasers and Optics, 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 2Î½3 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 SO₂. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20842-20847.	7.1	113
23	Sensitive and accurate dual-wavelength UV-VIS polarization detector for optical remote sensing of tropospheric aerosols. Applied Physics B: Lasers and Optics, 2012, 108, 197-216.	2.2	32
24	Interpretation of Accurate UV Polarization Lidar Measurements: Application to Volcanic Ash Number Concentration Retrieval. Journal of Atmospheric and Oceanic Technology, 2012, 29, 558-568.	1.3	17
25	Remote sensing of trace gases with optical correlation spectroscopy and lidar: theoretical and numerical approach. Applied Physics B: Lasers and Optics, 2012, 108, 689-702.	2.2	12
26	Volcanic aerosol optical properties and phase partitioning behavior after long-range advection characterized by UV-Lidar measurements. Atmospheric Environment, 2012, 48, 76-84.	4.1	29
27	Remote Sensing of Atmospheric Compounds Using Backscattered Light from Nanosecond and Femtosecond Laser Light. , 2012, , .		0
28	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
29	Characterization of Iceland volcanic aerosols by UV-polarization lidar at Lyon, SW Europe. Proceedings of SPIE, 2010, , .	0.8	2
30	Aerosol load study in urban area by Lidar and numerical model. Atmospheric Environment, 2010, 44, 1152-1161.	4.1	9
31	Dispersion compensation in atom interferometry by a Sagnac phase. Physical Review A, 2008, 78, .	2.5	8
32	Test of the isotopic and velocity selectivity of a lithium atom interferometer by magnetic dephasing. Europhysics Letters, 2007, 77, 20007.	2.0	12
33	Atom interferometry. Physica Scripta, 2006, 74, C15-C23.	2.5	29
34	Atom interferometry measurement of the electric polarizability of lithium. European Physical Journal D, 2006, 38, 353-365.	1.3	56
35	Vibration-induced phase noise in Machâ€“Zehnder atom interferometers. Applied Physics B: Lasers and Optics, 2006, 84, 617-625.	2.2	15
36	Phase noise due to vibrations in Mach-Zehnder atom interferometers. Europhysics Letters, 2006, 75, 688-694.	2.0	6

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37	Measurement of the electric polarizability of lithium by atom interferometry. Physical Review A, 2006, 73, .	2.5	51
38	Lithium atom interferometer using laser diffraction: description and experiments. European Physical Journal D, 2005, 33, 99-112.	1.3	36
39	Parallel temperatures in supersonic beams: Ultracooling of light atoms seeded in a heavier carrier gas. Journal of Chemical Physics, 2005, 122, 094308.	3.0	8
40	An atom interferometer using thermal lithium atoms. European Physical Journal Special Topics, 2004, 119, 233-234.	0.2	0
41	Diffraction phases in atom interferometry. European Physical Journal Special Topics, 2004, 119, 139-140.	0.2	0
42	Anomalous cooling of the parallel velocity in seeded beams. Physical Review A, 2004, 70, .	2.5	3
43	Diffraction phases in atom interferometers. Physical Review A, 2003, 68, .	2.5	28
44	Optimization of a Langmuirâ€“Taylor detector for lithium. Review of Scientific Instruments, 2002, 73, 2249-2258.	1.3	18
45	The three-grating MachÂZehnder optical interferometer: a tutorial approach using particle optics. European Journal of Physics, 2002, 23, 623-635.	0.6	8
46	Some theoretical and experimental aspects of three-grating Machâ€“Zehnder atom interferometers. Comptes Rendus Physique, 2001, 2, 587-593.	0.1	0