

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	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
2	Atom interferometry measurement of the electric polarizability of lithium. European Physical Journal D, 2006, 38, 353-365.	1.3	56
3	Measurement of the electric polarizability of lithium by atom interferometry. Physical Review A, 2006, 73, .	2.5	51
4	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
5	Lithium atom interferometer using laser diffraction: description and experiments. European Physical Journal D, 2005, 33, 99-112.	1.3	36
6	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
7	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
8	UV-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
9	Atom interferometry. Physica Scripta, 2006, 74, C15-C23.	2.5	29
10	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
11	Diffraction phases in atom interferometers. Physical Review A, 2003, 68, .	2.5	28
12	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
13	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
14	Optimization of a Langmuir-Taylor detector for lithium. Review of Scientific Instruments, 2002, 73, 2249-2258.	1.3	18
15	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
16	UV polarization lidar for remote sensing new particles formation in the atmosphere. Optics Express, 2014, 22, A1009.	3.4	17
17	Gas concentration measurement by optical similitude absorption spectroscopy: methodology and experimental demonstration. Optics Express, 2016, 24, 12588.	3.4	16
18	Vibration-induced phase noise in Mach-Zehnder atom interferometers. Applied Physics B: Lasers and Optics, 2006, 84, 617-625.	2.2	15

#	ARTICLE	IF	CITATIONS
19	Lidar remote sensing of laser-induced incandescence on light absorbing particles in the atmosphere. Optics Express, 2015, 23, 2347.	3.4	15
20	Polarization-resolved exact light backscattering by an ensemble of particles in air. Optics Express, 2013, 21, 18624.	3.4	13
21	Laboratory evaluation of the scattering matrix elements of mineral dust particles from 176.0° up to 180.0°-exact backscattering angle. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 222-223, 45-59.	2.3	13
22	Test of the isotopic and velocity selectivity of a lithium atom interferometer by magnetic dephasing. Europhysics Letters, 2007, 77, 20007.	2.0	12
23	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
24	Remote sensing of methane with broadband laser and optical correlation spectroscopy on the Q-branch of the 2 ν_2 band. Journal of Molecular Spectroscopy, 2013, 291, 3-8.	1.2	12
25	On the use of light polarization to investigate the size, shape, and refractive index dependence of backscattering Å...ngstrÅm exponents. Optics Letters, 2020, 45, 1084.	3.3	11
26	Remote Sensing Observation of New Particle Formation Events with a (UV, VIS) Polarization Lidar. Remote Sensing, 2019, 11, 1761.	4.0	10
27	Aerosol load study in urban area by Lidar and numerical model. Atmospheric Environment, 2010, 44, 1152-1161.	4.1	9
28	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
29	The three-grating Mach-Zehnder optical interferometer: a tutorial approach using particle optics. European Journal of Physics, 2002, 23, 623-635.	0.6	8
30	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
31	Dispersion compensation in atom interferometry by a Sagnac phase. Physical Review A, 2008, 78, .	2.5	8
32	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
33	Decrease in sulfate aerosol light backscattering by reactive uptake of isoprene epoxydiols. Physical Chemistry Chemical Physics, 2021, 23, 5927-5935.	2.8	7
34	Phase noise due to vibrations in Mach-Zehnder atom interferometers. Europhysics Letters, 2006, 75, 688-694.	2.0	6
35	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
36	(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

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37	Anomalous cooling of the parallel velocity in seeded beams. <i>Physical Review A</i> , 2004, 70, .	2.5	3
38	Remote sensing of methane with OSAS-lidar on the 2 $\hat{1}$ / ₂ 3 band Q-branch: Experimental proof. <i>Journal of Molecular Spectroscopy</i> , 2018, 348, 130-136.	1.2	3
39	Characterization of Iceland volcanic aerosols by UV-polarization lidar at Lyon, SW Europe. <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
40	The Carbon Aerosol / Particles Nucleation with a Lidar: Numerical Simulations and Field Studies. <i>EPJ Web of Conferences</i> , 2016, 119, 18001.	0.3	1
41	Remote Sensing of Greenhouse Gases by Combining Lidar and Optical Correlation Spectroscopy. <i>EPJ Web of Conferences</i> , 2016, 119, 05007.	0.3	1
42	Remote sensing of methane emissions by combining optical similitude absorption spectroscopy (OSAS) and lidar. <i>EPJ Web of Conferences</i> , 2018, 176, 01010.	0.3	1
43	Some theoretical and experimental aspects of three-grating Machâ€™Zehnder atom interferometers. <i>Comptes Rendus Physique</i> , 2001, 2, 587-593.	0.1	0
44	An atom interferometer using thermal lithium atoms. <i>European Physical Journal Special Topics</i> , 2004, 119, 233-234.	0.2	0
45	Diffraction phases in atom interferometry. <i>European Physical Journal Special Topics</i> , 2004, 119, 139-140.	0.2	0
46	Remote Sensing of Atmospheric Compounds Using Backscattered Light from Nanosecond and Femtosecond Laser Light. , 2012, , .		0