

Samuele Del Bianco

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,116
citations

516710

16
h-index

454955

30
g-index

73
all docs

73
docs citations

73
times ranked

886
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Resolved Reflectance at Null Source-Detector Separation: Improving Contrast and Resolution in Diffuse Optical Imaging. <i>Physical Review Letters</i> , 2005, 95, 078101.	7.8	122
2	Measurements of optical properties of high-density media. <i>Applied Optics</i> , 2003, 42, 4023.	2.1	120
3	Light Propagation through Biological Tissue and Other Diffusive Media: Theory, Solutions, and Software. , 2009, , .		113
4	Penetration depth of light re-emitted by a diffusive medium: theoretical and experimental investigation. <i>Physics in Medicine and Biology</i> , 2002, 47, 4131-4144.	3.0	111
5	Solution of the time-dependent diffusion equation for layered diffusive media by the eigenfunction method. <i>Physical Review E</i> , 2003, 67, 056623.	2.1	50
6	Procedure for retrieving the optical properties of a two-layered medium from time-resolved reflectance measurements. <i>Optics Letters</i> , 2003, 28, 1236.	3.3	47
7	Phantom validation and in vivo application of an inversion procedure for retrieving the optical properties of diffusive layered media from time-resolved reflectance measurements. <i>Optics Letters</i> , 2004, 29, 2037.	3.3	46
8	FORUM: Unique Far-Infrared Satellite Observations to Better Understand How Earth Radiates Energy to Space. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E2030-E2046.	3.3	40
9	Measurement of the water vapour vertical profile and of the Earth's outgoing far infrared flux. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2885-2894.	4.9	37
10	Solution of the time-dependent diffusion equation for a three-layer medium: application to study photon migration through a simplified adult head model. <i>Physics in Medicine and Biology</i> , 2007, 52, 2827-2843.	3.0	35
11	MARC: A code for the retrieval of atmospheric parameters from millimeter-wave limb measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007, 105, 476-491.	2.3	33
12	Liquid phantom for investigating light propagation through layered diffusive media. <i>Optics Express</i> , 2004, 12, 2102.	3.4	29
13	Sun-induced leaf fluorescence retrieval in the O ₂ -B atmospheric absorption band. <i>Optics Express</i> , 2008, 16, 7014.	3.4	25
14	Effect of the refractive index mismatch on light propagation through diffusive layered media. <i>Physical Review E</i> , 2004, 70, 011907.	2.1	24
15	Perturbation model for light propagation through diffusive layered media. <i>Physics in Medicine and Biology</i> , 2005, 50, 2159-2166.	3.0	21
16	Optimal estimation reconstruction of the optical properties of a two-layered tissue phantom from time-resolved single-distance measurements. <i>Journal of Biomedical Optics</i> , 2015, 20, 115001.	2.6	21
17	Test of far-infrared atmospheric spectroscopy using wide-band balloon-borne measurements of the upwelling radiance. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2008, 109, 1030-1042.	2.3	18
18	Absorption and scattering perturbations in homogeneous and layered diffusive media probed by time-resolved reflectance at null source-detector separation. <i>Physical Review E</i> , 2006, 74, 021919.	2.1	16

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19	Technical Note: Measurement of the tropical UTLS composition in presence of clouds using millimetre-wave heterodyne spectroscopy. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1191-1207.	4.9	15
20	IASI-METOP and MIPAS-ENVISAT data fusion. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4689-4698.	4.9	15
21	Retrieval of the vertical column of an atmospheric constituent from data fusion of remote sensing measurements. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 507-514.	2.3	14
22	Importance of interpolation and coincidence errors in data fusion. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1009-1017.	3.1	13
23	FORUM Earth Explorer 9: Characteristics of Level 2 Products and Synergies with IASI-NG. <i>Remote Sensing</i> , 2020, 12, 1496.	4.0	13
24	Advanced Ultraviolet Radiation and Ozone Retrieval for Applications (AURORA): A Project Overview. <i>Atmosphere</i> , 2018, 9, 454.	2.3	11
25	Retrieval procedure for time-resolved near-infrared tissue spectroscopy based on the optimal estimation method. <i>Physics in Medicine and Biology</i> , 2012, 57, 2915-2929.	3.0	10
26	Retrieval of minor constituents in a cloudy atmosphere with remote-sensing millimetre-wave measurements. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007, 133, 163-170.	2.7	9
27	Observations of the downwelling far-infrared atmospheric emission at the Zugspitze observatory. <i>Earth System Science Data</i> , 2021, 13, 4303-4312.	9.9	9
28	The FORUM end-to-end simulator project: architecture and results. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 573-604.	3.1	9
29	Synergy between middle infrared and millimeter-wave limb sounding of atmospheric temperature and minor constituents. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2267-2289.	3.1	8
30	Perturbative forward solver software for small localized fluorophores in tissue. <i>Biomedical Optics Express</i> , 2012, 3, 26.	2.9	7
31	Data Fusion Analysis of Sentinel-4 and Sentinel-5 Simulated Ozone Data. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 573-587.	1.3	7
32	Effect of a clear layer at the surface of a diffusive medium on measurements of transmittance and reflectance. <i>Optics Express</i> , 2004, 12, 5510.	3.4	6
33	Wide-band spectrally resolved measurement of the Earth's up-welling radiation with the REFIR-PAD spectroradiometer. , 2006, , .		6
34	Measurement of the Arctic UTLS composition in presence of clouds using millimetre-wave heterodyne spectroscopy. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 2683-2701.	3.1	6
35	Application of the Complete Data Fusion algorithm to the ozone profiles measured by geostationary and low-Earth-orbit satellites: a feasibility study. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 2041-2053.	3.1	6
36	Retrieval of the optical properties of a layered medium based on an exact analytical solution of the time-dependent diffusion equation. , 2003, , .		4

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37	McCART: Monte Carlo Code for Atmospheric Radiative Transfer. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 1740-1752.	6.3	4
38	Comparison of Column-Averaged Volume Mixing Ratios of Carbon Dioxide Retrieved From IASI/METOP-A Using KLIMA Algorithm and TANSO-FTS/GOSAT Level 2 Products. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 389-398.	4.9	4
39	The cost function of the data fusion process and its application. Atmospheric Measurement Techniques, 2019, 12, 2967-2977.	3.1	4
40	Monte Carlo for multiple scattering and nonspherical particles. , 2004, , .		3
41	Implementation and Validation of a Retrieval Algorithm for Profiling of Water Vapor From Differential Attenuation Measurements at Microwaves. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 5939-5948.	6.3	3
42	Integrated Water Vapor Estimation Through Microwave Propagation Measurements: First Experiment on a Ground-to-Ground Radio Link. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	3
43	XCO2 retrieved from IASI using KLIMA algorithm. Annals of Geophysics, 2014, , .	1.0	3
44	Comparison of mid-latitude single- and mixed-phase cloud optical depth from co-located infrared spectrometer and backscatter lidar measurements. Atmospheric Measurement Techniques, 2021, 14, 6749-6758.	3.1	3
45	Hybrid heuristic time dependent solution of the radiative transfer equation for the slab. , 2009, , .		2
46	Generalization of the complete data fusion to multi-target retrieval of atmospheric parameters and application to FORUM and IASI-NG simulated measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107925.	2.3	2
47	Method to measure the optical properties of small volumes of diffusive media. Applied Optics, 2002, 41, 7317.	2.1	1
48	Retrieval of the optical properties of a two-layered diffusive medium from measurements of time-resolved reflectance. , 2003, , .		1
49	Characterization of tropical atmosphere through wide-band emission spectra acquired with a balloon-borne uncooled FTS spectroradiometer. Proceedings of SPIE, 2007, , .	0.8	1
50	Modified reciprocity relation for the time-dependent diffusion equation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 586.	1.5	1
51	Results of the preparatory study "PREMIER Analysis of Campaign Data". Annals of Geophysics, 2014, , .	1.0	1
52	Estimating the Tropospheric Water Vapor Content Along a Transmitter-Receiver Link: The Swamm Project. , 2018, , .		1
53	Photon migration through layered diffusive media. , 2003, , .		0
54	Method to measure the optical properties of small volumes of biological tissues. , 2003, , .		0

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55	<title>On Monte Carlo for nonspherical and chiral particles</title>. , 2005, , .		0
56	Propagation in media with non-spherical and chiral particles: possibility of Monte Carlo procedures. , 2005, 5981, 197.		0
57	McCART: Monte Carlo code for atmospheric radiative transfer. , 2005, 5981, 24.		0
58	Comparison of independent forward solvers for photon migration through layered media. Proceedings of SPIE, 2011, , .	0.8	0
59	Inverse problem for biomedical applications: use of prior information on target and forward model parameters. , 2011, , .		0
60	Application of KLIMA/G-POD algorithm to CO ₂ retrieval from IASI/METOP-A observations and comparison with GOSAT/TANSO-FTS products. , 2012, , .		0
61	A Distributed Modular Data Processing Chain Applied to Simulated Satellite Ozone Observations. Remote Sensing, 2021, 13, 210.	4.0	0
62	Time-resolved diffuse reflectance at null source-detector separation: a novel approach to photon migration. , 2006, , .		0
63	Performances of the Operational Retrieval Code for MIPAS on Envisat and Possible Improvements of Retrieval Techniques for Environment and Climate. , 2006, , 57-70.		0
64	Optical property reconstruction of a two-layer diffusive medium from single-distance time-resolved measurements. , 2016, , .		0