

Samuele Del Bianco

List of Publications by Year in descending order

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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	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
2	The FORUM end-to-end simulator project: architecture and results. Atmospheric Measurement Techniques, 2022, 15, 573-604.	3.1	9
3	A Distributed Modular Data Processing Chain Applied to Simulated Satellite Ozone Observations. Remote Sensing, 2021, 13, 210.	4.0	0
4	Application of the Complete Data Fusion algorithm to the ozone profiles measured by geostationary and low-Earth-orbit satellites: a feasibility study. Atmospheric Measurement Techniques, 2021, 14, 2041-2053.	3.1	6
5	Observations of the downwelling far-infrared atmospheric emission at the Zugspitze observatory. Earth System Science Data, 2021, 13, 4303-4312.	9.9	9
6	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
7	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
8	FORUM Earth Explorer 9: Characteristics of Level 2 Products and Synergies with IASI-NG. Remote Sensing, 2020, 12, 1496.	4.0	13
9	Data Fusion Analysis of Sentinel-4 and Sentinel-5 Simulated Ozone Data. Journal of Atmospheric and Oceanic Technology, 2020, 37, 573-587.	1.3	7
10	FORUM: Unique Far-Infrared Satellite Observations to Better Understand How Earth Radiates Energy to Space. Bulletin of the American Meteorological Society, 2020, 101, E2030-E2046.	3.3	40
11	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
12	The cost function of the data fusion process and its application. Atmospheric Measurement Techniques, 2019, 12, 2967-2977.	3.1	4
13	Advanced Ultraviolet Radiation and Ozone Retrieval for Applications (AURORA): A Project Overview. Atmosphere, 2018, 9, 454.	2.3	11
14	Importance of interpolation and coincidence errors in data fusion. Atmospheric Measurement Techniques, 2018, 11, 1009-1017.	3.1	13
15	Estimating the Tropospheric Water Vapor Content Along a Transmitter-Receiver Link: The Swamm Project. , 2018, , .		1
16	Synergy between middle infrared and millimeter-wave limb sounding of atmospheric temperature and minor constituents. Atmospheric Measurement Techniques, 2016, 9, 2267-2289.	3.1	8
17	Optical property reconstruction of a two-layer diffusive medium from single-distance time-resolved measurements. , 2016, , .		0
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 389-398.	4.9	4
21	XCO ₂ retrieved from IASI using KLIMA algorithm. <i>Annals of Geophysics</i> , 2014, , .	1.0	3
22	Results of the preparatory study "PREMIER Analysis of Campaign Data". <i>Annals of Geophysics</i> , 2014, , .	1.0	1
23	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
24	Perturbative forward solver software for small localized fluorophores in tissue. <i>Biomedical Optics Express</i> , 2012, 3, 26.	2.9	7
25	Application of KLIMA/G-POD algorithm to CO ₂ retrieval from IASI/METOP-A observations and comparison with GOSAT/TANSO-FTS products. , 2012, , .		0
26	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
27	Comparison of independent forward solvers for photon migration through layered media. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
28	Inverse problem for biomedical applications: use of prior information on target and forward model parameters. , 2011, , .		0
29	IASI-METOP and MIPAS-ENVISAT data fusion. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4689-4698.	4.9	15
30	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
31	Hybrid heuristic time dependent solution of the radiative transfer equation for the slab. , 2009, , .		2
32	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
33	Light Propagation through Biological Tissue and Other Diffusive Media: Theory, Solutions, and Software. , 2009, , .		113
34	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
35	McCart: Monte Carlo Code for Atmospheric Radiative Transfer. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008, 46, 1740-1752.	6.3	4
36	Sun-induced leaf fluorescence retrieval in the O ₂ -B atmospheric absorption band. <i>Optics Express</i> , 2008, 16, 7014.	3.4	25

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37	Measurement of the water vapour vertical profile and of the Earth's outgoing far infrared flux. Atmospheric Chemistry and Physics, 2008, 8, 2885-2894.	4.9	37
38	Solution of the time-dependent diffusion equation for a three-layer medium: application to study photon migration through a simplified adult head model. Physics in Medicine and Biology, 2007, 52, 2827-2843.	3.0	35
39	Characterization of tropical atmosphere through wide-band emission spectra acquired with a balloon-borne uncooled FTS spectroradiometer. Proceedings of SPIE, 2007, , .	0.8	1
40	MARC: A code for the retrieval of atmospheric parameters from millimeter-wave limb measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2007, 105, 476-491.	2.3	33
41	Retrieval of minor constituents in a cloudy atmosphere with remote-sensing millimetre-wave measurements. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 163-170.	2.7	9
42	Wide-band spectrally resolved measurement of the Earth's up-welling radiation with the REFIR-PAD spectroradiometer. , 2006, , .		6
43	Absorption and scattering perturbations in homogeneous and layered diffusive media probed by time-resolved reflectance at null source-detector separation. Physical Review E, 2006, 74, 021919.	2.1	16
44	Time-resolved diffuse reflectance at null source-detector separation: a novel approach to photon migration. , 2006, , .		0
45	Performances of the Operational Retrieval Code for MIPAS on Envisat and Possible Improvements of Retrieval Techniques for Environment and Climate. , 2006, , 57-70.		0
46	<title>On Monte Carlo for nonspherical and chiral particles</title>. , 2005, , .		0
47	Propagation in media with non-spherical and chiral particles: possibility of Monte Carlo procedures. , 2005, 5981, 197.		0
48	McCART: Monte Carlo code for atmospheric radiative transfer. , 2005, 5981, 24.		0
49	Perturbation model for light propagation through diffusive layered media. Physics in Medicine and Biology, 2005, 50, 2159-2166.	3.0	21
50	Time-Resolved Reflectance at Null Source-Detector Separation: Improving Contrast and Resolution in Diffuse Optical Imaging. Physical Review Letters, 2005, 95, 078101.	7.8	122
51	Effect of the refractive index mismatch on light propagation through diffusive layered media. Physical Review E, 2004, 70, 011907.	2.1	24
52	Liquid phantom for investigating light propagation through layered diffusive media. Optics Express, 2004, 12, 2102.	3.4	29
53	Effect of a clear layer at the surface of a diffusive medium on measurements of transmittance and reflectance. Optics Express, 2004, 12, 5510.	3.4	6
54	Phantom validation and in vivo application of an inversion procedure for retrieving the optical properties of diffusive layered media from time-resolved reflectance measurements. Optics Letters, 2004, 29, 2037.	3.3	46

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55	Monte Carlo for multiple scattering and nonspherical particles. , 2004, , .		3
56	Measurements of optical properties of high-density media. Applied Optics, 2003, 42, 4023.	2.1	120
57	Procedure for retrieving the optical properties of a two-layered medium from time-resolved reflectance measurements. Optics Letters, 2003, 28, 1236.	3.3	47
58	Solution of the time-dependent diffusion equation for layered diffusive media by the eigenfunction method. Physical Review E, 2003, 67, 056623.	2.1	50
59	Retrieval of the optical properties of a layered medium based on an exact analytical solution of the time-dependent diffusion equation. , 2003, , .		4
60	Photon migration through layered diffusive media. , 2003, , .		0
61	Method to measure the optical properties of small volumes of biological tissues. , 2003, , .		0
62	Retrieval of the optical properties of a two-layered diffusive medium from measurements of time-resolved reflectance. , 2003, , .		1
63	Penetration depth of light re-emitted by a diffusive medium: theoretical and experimental investigation. Physics in Medicine and Biology, 2002, 47, 4131-4144.	3.0	111
64	Method to measure the optical properties of small volumes of diffusive media. Applied Optics, 2002, 41, 7317.	2.1	1