

Nelson Dias

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,144
citations

471509

17
h-index

414414

32
g-index

75
all docs

75
docs citations

75
times ranked

1561
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct partitioning of eddy-covariance water and carbon dioxide fluxes into ground and plant components. <i>Agricultural and Forest Meteorology</i> , 2022, 315, 108790.	4.8	17
2	An analog period method for gap-filling of latent heat flux measurements. <i>Hydrological Processes</i> , 2021, 35, e14105.	2.6	3
3	Realizability of the rapid distortion theory spectrum: The mechanism behind the Kelvin-Townsend equations. <i>Journal of Mathematical Physics</i> , 2021, 62, 063101.	1.1	1
4	Effects of Vegetation and Topography on the Boundary Layer Structure above the Amazon Forest. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 2941-2957.	1.7	21
5	Effects of Path Averaging in a Sonic Anemometer on the Estimation of Turbulence-Kinetic-Energy Dissipation Rates. <i>Boundary-Layer Meteorology</i> , 2019, 173, 99-113.	2.3	3
6	A Generalized Series Solution for the Boussinesq Equation With Constant Boundary Conditions. <i>Water Resources Research</i> , 2019, 55, 3567-3575.	4.2	2
7	Is There a Classical Inertial Sublayer Over the Amazon Forest?. <i>Geophysical Research Letters</i> , 2019, 46, 5614-5622.	4.0	21
8	Critical flux Richardson number for Kolmogorov turbulence enabled by TKE transport. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2019, 145, 1551-1558.	2.7	21
9	Practical rules for summing the series of the Tweedie probability density function with high-precision arithmetic. <i>Anais Da Academia Brasileira De Ciencias</i> , 2019, 91, e20180268.	0.8	0
10	The Hurst Phenomenon in Error Estimates Related to Atmospheric Turbulence. <i>Boundary-Layer Meteorology</i> , 2018, 168, 387-416.	2.3	5
11	Smoothed Spectra, Ogives, and Error Estimates for Atmospheric Turbulence Data. <i>Boundary-Layer Meteorology</i> , 2018, 166, 1-29.	2.3	3
12	A TKE-Based Framework for Studying Disturbed Atmospheric Surface Layer Flows and Application to Vertical Velocity Variance Over Canopies. <i>Geophysical Research Letters</i> , 2018, 45, 6734-6740.	4.0	13
13	The effect of temperature-humidity similarity on Bowen ratios, dimensionless standard deviations, and mass transfer coefficients over a lake. <i>Hydrological Processes</i> , 2017, 31, 256-269.	2.6	5
14	Scaling Laws for the Longitudinal Structure Function in the Atmospheric Surface Layer. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 1127-1147.	1.7	25
15	Convective storms and non-classical low-level jets during high ozone level episodes in the Amazon region: An ARM/GOAMAZON case study. <i>Atmospheric Environment</i> , 2017, 155, 199-209.	4.1	13
16	Flux-variance and flux-gradient relationships in the roughness sublayer over the Amazon forest. <i>Agricultural and Forest Meteorology</i> , 2017, 239, 213-222.	4.8	25
17	Turbulent mixing and removal of ozone within an Amazon rainforest canopy. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2791-2811.	3.3	36
18	Linking Meteorology, Turbulence, and Air Chemistry in the Amazon Rain Forest. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2329-2342.	3.3	59

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19	Scalar turbulent behavior in the roughness sublayer of an Amazonian forest. Atmospheric Chemistry and Physics, 2016, 16, 11349-11366.	4.9	19
20	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. Atmospheric Chemistry and Physics, 2015, 15, 10723-10776.	4.9	218
21	Technical Note: A simple generalization of the Brutsaert and Nieber analysis. Hydrology and Earth System Sciences, 2015, 19, 2755-2761.	4.9	5
22	BRevã: uma metodologia objetiva de cã¡culo de emissã¶es para a frota brasileira de veãculos. Engenharia Sanitaria E Ambiental, 2014, 19, 13-20.	0.5	6
23	Statistical evaluation of a new air dispersion model against AERMOD using the Prairie Grass data set. Journal of the Air and Waste Management Association, 2014, 64, 219-226.	1.9	1
24	A semianalytical solution for the Boussinesq equation with nonhomogeneous constant boundary conditions. Water Resources Research, 2014, 50, 6549-6556.	4.2	7
25	A Large-Eddy Simulation Study of Scalar Dissimilarity in the Convective Atmospheric Boundary Layer. Journals of the Atmospheric Sciences, 2014, 71, 3-15.	1.7	17
26	Residual layer effects on the modeling of convective boundary layer growth rates with a slab model using FIFE data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,869.	3.3	6
27	An exact series and improved numerical and approximate solutions for the Boussinesq equation. Water Resources Research, 2013, 49, 7380-7387.	4.2	11
28	Research on atmospheric turbulence by Wilfried Brutsaert and collaborators. Water Resources Research, 2013, 49, 7169-7184.	4.2	7
29	Reconciling radiation dissipation in the spatial and spectral domains under stable conditions. Water Resources Research, 2013, 49, 7150-7153.	4.2	1
30	Spectral Effects on Scalar Correlations and Fluxes. American Journal of Environmental Engineering, 2013, 3, 13-17.	0.5	3
31	FLUXOS TURBULENTOS DE DIãXIDO DE CARBONO SOBRE O RESERVATãRIO DA USINA HIDRELãTRICA DE ITAIPU â€ PR. Ciãncia E Natura, 2013, .	0.0	0
32	APLICAã¶O DO MãTODO DE SALESKY ET AL. (2012) USANDO UM FILTRO TEMPORAL PARA ESTIMAR O ERRO DO FLUXO DE CALOR SENSãVEL EM TIJUCAS DO SUL â€ PR E EM MISSAL â€ PR. Ciãncia E Natura, 2013, .	0.0	0
33	ESTUDO DA SIMILARIDADE ENTRE ESCALARES SOBRE UMA SUPERFãCIE HETEROGãŠNEA UTILIZANDO LARGE-EDDY SIMULATION. Ciãncia E Natura, 2013, .	0.0	0
34	MãTODO EMPãRICO PARA DETERMINAã¶O DE OUTLIERS EM SãRIES DE FLUXOS DE DADOS MICROMETEOROLãGICOS PãS-PROCESSADOS. Ciãncia E Natura, 2013, .	0.0	1
35	Dimensionless criteria for the productionâ€dissipation equilibrium of scalar fluctuations and their implications for scalar similarity. Water Resources Research, 2012, 48, .	4.2	18
36	Obtaining Potential Virtual Temperature Profiles, Entrainment Fluxes, and Spectra from Mini Unmanned Aerial Vehicle Data. Boundary-Layer Meteorology, 2012, 145, 93-111.	2.3	25

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37	Estimating the Random Error in Eddy-Covariance Based Fluxes and Other Turbulence Statistics: The Filtering Method. <i>Boundary-Layer Meteorology</i> , 2012, 144, 113-135.	2.3	43
38	The Simulation of the Southern Great Plains Nocturnal Boundary Layer and the Low-Level Jet with a High-Resolution Mesoscale Atmospheric Model. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 1497-1513.	1.5	14
39	The Alignment of the Mean Wind and Stress Vectors in the Unstable Surface Layer. <i>Boundary-Layer Meteorology</i> , 2010, 134, 41-59.	2.3	20
40	A Simple Method of Estimating Scalar Fluxes Over Forests. <i>Boundary-Layer Meteorology</i> , 2009, 132, 401-414.	2.3	16
41	An attenuated eddy covariance method for latent heat flux measurements. <i>Water Resources Research</i> , 2007, 43, .	4.2	7
42	Balanço de Água por aquisição automática de dados em cultura de trigo (<i>Triticum aestivum</i> L.). <i>Revista Brasileira De Ciencia Do Solo</i> , 2007, 31, 1-8.	1.3	8
43	Diretrizes para Redes Automáticas e Telemétricas de Superfície. <i>Revista Brasileira De Recursos Hidricos</i> , 2007, 12, 225-240.	0.5	1
44	Application of digital filtering for minimizing aliasing effects in atmospheric turbulent surface layer spectra. <i>Water Resources Research</i> , 2006, 42, .	4.2	3
45	Assessing daytime downward longwave radiation estimates for clear and cloudy skies in Southern Brazil. <i>Agricultural and Forest Meteorology</i> , 2006, 139, 171-181.	4.8	122
46	Reply to a comment by R. J. Smalley and R. A. Antonia on 'The local isotropy hypothesis and the turbulent kinetic energy dissipation rate in the atmospheric surface layer' (October B, 2004.) <i>Tj ETQq0 0 0 rgBT /Ozrlock 10df 50 377</i>		
47	Comment on "The need for better contacts between hydrologists in the two Americas". <i>Eos</i> , 2005, 86, 370.	0.1	0
48	A Study of Spectra, Structure and Correlation Functions and Their Implications for the Stationarity of Surface-Layer Turbulence. <i>Boundary-Layer Meteorology</i> , 2004, 110, 165-189.	2.3	38
49	The local isotropy hypothesis and the turbulent kinetic energy dissipation rate in the atmospheric surface layer. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 2733-2752.	2.7	57
50	Variabilidade e Previsão Climática de Vazões na Margem Esquerda da Bacia do Alto Paran (Brasil). <i>Revista Brasileira De Recursos Hidricos</i> , 2003, 8, 173-183.	0.5	0
51	Obtenção de uma Solução Analítica da Equação de Difusão-Advecção com Decaimento de 1ª Ordem pelo Método da Transformação de Similaridade Generalizada. <i>Revista Brasileira De Recursos Hidricos</i> , 2003, 8, 181-188.	0.5	1
52	O Método de Covariâncias Turbulentas Atenuadas (MCTA) para Medição dos Fluxos de Calor Sensível e Latente: Aplicação ao Lago de Itaipu e seu Redor. <i>Revista Brasileira De Recursos Hidricos</i> , 2002, 7, 143-160.	0.5	4
53	Observations of Neutral Profiles of Wind Speed and Specific Humidity Above a Gently Rolling Landsurface. <i>Journal of the Meteorological Society of Japan</i> , 2000, 78, 719-730.	1.8	9
54	A hydrometeorological model for basin-wide seasonal evapotranspiration. <i>Water Resources Research</i> , 1999, 35, 3409-3418.	4.2	11

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55	EVAPORAÇÃO, EVAPOTRANSPIRAÇÃO E EVAPORAÇÃO LÍQUIDA NO RESERVATÓRIO DE FOZ DO AREIA. Revista Brasileira De Recursos Hidricos, 1999, 4, 29-38.	0.5	2
56	CÁLCULO DA TAXA DE VARIAÇÃO DA ENTALPIA PARA OS LAGOS DE ITAIPU E FOZ DO AREIA. Revista Brasileira De Recursos Hidricos, 1999, 4, 39-51.	0.5	0
57	Radiative Effects on Temperature in the Stable Surface Layer. Boundary-Layer Meteorology, 1998, 89, 141-159.	2.3	11
58	Multi-season lake evaporation: energy-budget estimates and CRLE model assessment with limited meteorological observations. Journal of Hydrology, 1998, 208, 135-147.	5.4	62
59	Similarity of scalars under stable conditions. Boundary-Layer Meteorology, 1996, 80, 355-373.	2.3	47
60	Z-Less stratification under stable conditions. Boundary-Layer Meteorology, 1995, 75, 175-187.	2.3	36
61	Uma Revisão do Efeito da Composição Química da Atmosfera sobre a Constante de Gases do Ar Seco em Múltiplas Escalas de Tempo. Revista Brasileira De Meteorologia, 0, , .	0.5	0
62	Eddy-covariance CO2 fluxes over Itaipu lake, southern Brazil. Revista Brasileira De Recursos Hidricos, 0, 25, .	0.5	4
63	RELATIONSHIP BETWEEN CANOPY TURBULENCE AND VERTICAL DISTRIBUTION OF REACTIVE GASES IN THE CENTRAL AMAZON RAINFOREST. Ciência E Natura, 0, 38, 543.	0.0	1
64	CONTROLE DE QUALIDADE EM DADOS DE ALTA FREQUÊNCIA NO PROJETO ATTO. Ciência E Natura, 0, 38, 498.	0.0	0
65	Intercomparação de sensores de temperatura e umidade relativa para uso em campanha micrometeorológica. Ciência E Natura, 0, 42, e18.	0.0	1
66	Avaliação da Similaridade entre as flutuações turbulentas de escalares em ambiente de lago. Ciência E Natura, 0, 42, e13.	0.0	1