Nelson Dias

List of Publications by Year
in descending order

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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	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
2	Assessing daytime downward longwave radiation estimates for clear and cloudy skies in Southern Brazil. Agricultural and Forest Meteorology, 2006, 139, 171-181.	4.8	122
3	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
4	Linking Meteorology, Turbulence, and Air Chemistry in the Amazon Rain Forest. Bulletin of the American Meteorological Society, 2016, 97, 2329-2342.	3.3	59
5	The local isotropy hypothesis and the turbulent kinetic energy dissipation rate in the atmospheric surface layer. Quarterly Journal of the Royal Meteorological Society, 2004, 130, 2733-2752.	2.7	57
6	Similarity of scalars under stable conditions. Boundary-Layer Meteorology, 1996, 80, 355-373.	2.3	47
7	Estimating the Random Error in Eddy-Covariance Based Fluxes and Other Turbulence Statistics: The Filtering Method. Boundary-Layer Meteorology, 2012, 144, 113-135.	2.3	43
8	A Study of Spectra, Structure and Correlation Functions and Their Implications for the Stationarity of Surface-Layer Turbulence. Boundary-Layer Meteorology, 2004, 110, 165-189.	2.3	38
9	Z-Less stratification under stable conditions. Boundary-Layer Meteorology, 1995, 75, 175-187.	2.3	36
10	Turbulent mixing and removal of ozone within an Amazon rainforest canopy. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2791-2811.	3.3	36
11	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
12	Scaling Laws for the Longitudinal Structure Function in the Atmospheric Surface Layer. Journals of the Atmospheric Sciences, 2017, 74, 1127-1147.	1.7	25
13	Flux-variance and flux-gradient relationships in the roughness sublayer over the Amazon forest. Agricultural and Forest Meteorology, 2017, 239, 213-222.	4.8	25
14	Is There a Classical Inertial Sublayer Over the Amazon Forest?. Geophysical Research Letters, 2019, 46, 5614-5622.	4.0	21
15	Critical flux Richardson number for Kolmogorov turbulence enabled by TKE transport. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 1551-1558.	2.7	21
16	Effects of Vegetation and Topography on the Boundary Layer Structure above the Amazon Forest. Journals of the Atmospheric Sciences, 2020, 77, 2941-2957.	1.7	21
17	The Alignment of the Mean Wind and Stress Vectors in the Unstable Surface Layer. Boundary-Layer Meteorology, 2010, 134, 41-59.	2.3	20
18	Scalar turbulent behavior in the roughness sublayer of an Amazonian forest. Atmospheric Chemistry and Physics, 2016, 16, 11349-11366.	4.9	19

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19	Dimensionless criteria for the productionâ€dissipation equilibrium of scalar fluctuations and their implications for scalar similarity. Water Resources Research, 2012, 48, .	4.2	18
20	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
21	Direct partitioning of eddy-covariance water and carbon dioxide fluxes into ground and plant components. Agricultural and Forest Meteorology, 2022, 315, 108790.	4.8	17
22	A Simple Method of Estimating Scalar Fluxes Over Forests. Boundary-Layer Meteorology, 2009, 132, 401-414.	2.3	16
23	The Simulation of the Southern Great Plains Nocturnal Boundary Layer and the Low-Level Jet with a High-Resolution Mesoscale Atmospheric Model. Journal of Applied Meteorology and Climatology, 2011, 50, 1497-1513.	1.5	14
24	Convective storms and non-classical low-level jets during high ozone level episodes in the Amazon region: An ARM/GOAMAZON case study. Atmospheric Environment, 2017, 155, 199-209.	4.1	13
25	A TKEâ€Based Framework for Studying Disturbed Atmospheric Surface Layer Flows and Application to Vertical Velocity Variance Over Canopies. Geophysical Research Letters, 2018, 45, 6734-6740.	4.0	13
26	Radiative Effects on Temperature in the Stable Surface Layer. Boundary-Layer Meteorology, 1998, 89, 141-159.	2.3	11
27	A hydrometeorological model for basin-wide seasonal evapotranspiration. Water Resources Research, 1999, 35, 3409-3418.	4.2	11
28	An exact series and improved numerical and approximate solutions for the Boussinesq equation. Water Resources Research, 2013, 49, 7380-7387.	4.2	11
29	Observations of Neutral Profiles of Wind Speed and Specific Humidity Above a Gently Rolling Landsurface. Journal of the Meteorological Society of Japan, 2000, 78, 719-730.	1.8	9
30	BalanÃ§o de Ã¡gua por aquisiÃ§Ã£o automÃ¡tica de dados em cultura de trigo (Triticum aestivum L.). Revista Brasileira De Ciencia Do Solo, 2007, 31, 1-8.	1.3	8
31	An attenuated eddy covariance method for latent heat flux measurements. Water Resources Research, 2007, 43, .	4.2	7
32	Research on atmospheric turbulence by Wilfried Brutsaert and collaborators. Water Resources Research, 2013, 49, 7169-7184.	4.2	7
33	A semianalytical solution for the Boussinesq equation with nonhomogeneous constant boundary conditions. Water Resources Research, 2014, 50, 6549-6556.	4.2	7
34	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
35	BRevÃª: uma metodologia objetiva de cÃ¡lculo de emissÃµes para a frota brasileira de veÃculos. Engenharia Sanitaria E Ambiental, 2014, 19, 13-20.	0.5	6
36	Technical Note: A simple generalization of the Brutsaert and Nieber analysis. Hydrology and Earth System Sciences, 2015, 19, 2755-2761.	4.9	5

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37	The effect of temperatureâ€humidity similarity on Bowen ratios, dimensionless standard deviations, and mass transfer coefficients over a lake. Hydrological Processes, 2017, 31, 256-269.	2.6	5
38	The Hurst Phenomenon in Error Estimates Related to Atmospheric Turbulence. Boundary-Layer Meteorology, 2018, 168, 387-416.	2.3	5
39	Eddy-covariance CO2 fluxes over Itaipu lake, southern Brazil. Revista Brasileira De Recursos Hidricos, 0, 25, .	0.5	4
40	O MÃ©todo de CovariÃ¢ncias Turbulentas Atenuadas (MCTA) para MediÃ§Ã£o dos Fluxos de Calor SensÃvel e Latente: AplicaÃ§Ã£o ao Lago de Itaipu e seu Redor. Revista Brasileira De Recursos Hidricos, 2002, 7, 143-160.	0.5	4
41	Application of digital filtering for minimizing aliasing effects in atmospheric turbulent surface layer spectra. Water Resources Research, 2006, 42, .	4.2	3
42	Smoothed Spectra, Ogives, and Error Estimates for Atmospheric Turbulence Data. Boundary-Layer Meteorology, 2018, 166, 1-29.	2.3	3
43	Effects of Path Averaging in a Sonic Anemometer on the Estimation of Turbulence-Kinetic-Energy Dissipation Rates. Boundary-Layer Meteorology, 2019, 173, 99-113.	2.3	3
44	An analog period method for gapâ€filling of latent heat flux measurements. Hydrological Processes, 2021, 35, e14105.	2.6	3
45	Spectral Effects on Scalar Correlations and Fluxes. American Journal of Environmental Engineering, 2013, 3, 13-17.	0.5	3
46	A Generalized Series Solution for the Boussinesq Equation With Constant Boundary Conditions. Water Resources Research, 2019, 55, 3567-3575.	4.2	2
47	EVAPORAÃ‡ÃƒO, EVAPOTRANSPIRAÃ‡ÃƒO E EVAPORAÃ‡ÃƒO LÃQUIDA NO RESERVATÃ“RIO DE FOZ DO AREIA. Revista Brasileira De Recursos Hidricos, 1999, 4, 29-38.	0.5	2
48	Reconciling radiation dissipation in the spatial and spectral domains under stable conditions. Water Resources Research, 2013, 49, 7150-7153.	4.2	1
49	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
50	Realizability of the rapid distortion theory spectrum: The mechanism behind the Kelvinâ€“Townsend equations. Journal of Mathematical Physics, 2021, 62, 063101.	1.1	1
51	RELATIONSHIP BETWEEN CANOPY TURBULENCE AND VERTICAL DISTRIBUTION OF REACTIVE GASES IN THE CENTRAL AMAZON RAINFOREST. CiÃªncia E Natura, 0, 38, 543.	0.0	1
52	ObtenÃ§Ã£o de uma SoluÃ§Ã£o AnalÃtica da EquaÃ§Ã£o de DifusÃ£o-AdvecÃ§Ã£o com Decaimento de 1Âª Ordem pelo MÃ©todo da TransformaÃ§Ã£o de Similaridade Generalizada. Revista Brasileira De Recursos Hidricos, 2003, 8, 181-188.	0.5	1
53	Diretrizes para Redes AutomÃ¡ticas e TelemÃ©tricas de SuperfÃcie. Revista Brasileira De Recursos Hidricos, 2007, 12, 225-240.	0.5	1
54	MÃ‰TODO EMPÃRICO PARA DETERMINAÃ‡ÃƒO DE OUTLIERS EM SÃ‰RIES DE FLUXOS DE DADOS MICROMETEOROLÃ“GICOS PÃ“S-PROCESSADOS. CiÃªncia E Natura, 2013, .	0.0	1

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55	IntercomparaÃ§Ã£o de sensores de temperatura e umidade relativa para uso em campanha micrometeorolÃ³gica. CiÃªncia E Natura, 0, 42, e18.	0.0	1
56	AvaliaÃ§Ã£o da Similaridade entre as flutuaÃ§Ãµes turbulentas de escalares em ambiente de lago. CiÃªncia E Natura, 0, 42, e13.	0.0	1
57	Comment on â€œThe need for better contacts between hydrologists in the two Americasâ€. Eos, 2005, 86, 370.	0.1	0
58	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,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617 T	2.7	0
59	Uma RevisÃ£o do Efeito da ComposiÃ§Ã£o QuÃmica da Atmosfera sobre a Constante de GÃ¡s do Ar Seco em MÃºltiplas Escalas de Tempo. Revista Brasileira De Meteorologia, 0, , .	0.5	0
60	Variabilidade e PrevisÃ£o ClimÃ¡tica de VazÃµes na Margem Esquerda da Bacia do Alto ParanÃ¡ (Brasil). Revista Brasileira De Recursos Hidricos, 2003, 8, 173-183.	0.5	0
61	FLUXOS TURBULENTOS DE DIÃ“XIDO DE CARBONO SOBRE O RESERVATÃ“RIO DA USINA HIDRELÃ‰TRICA DE ITAIPU â€“ PR. CiÃªncia E Natura, 2013, .	0.0	0
62	APLICAÃ‡ÃƒO DO MÃ‰TODO 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. CiÃªncia E Natura, 2013, .	0.0	0
63	ESTUDO DA SIMILARIDADE ENTRE ESCALARES SOBRE UMA SUPERFÃCIE HETEROGÃŠNEA UTILIZANDO LARGE-EDDY SIMULATION. CiÃªncia E Natura, 2013, .	0.0	0
64	CÃLCULO DA TAXA DE VARIAÃ‡ÃƒO DA ENTALPIA PARA OS LAGOS DE ITAIPU E FOZ DO AREIA. Revista Brasileira De Recursos Hidricos, 1999, 4, 39-51.	0.5	0
65	CONTROLE DE QUALIDADE EM DADOS DE ALTA FREQUÊNCIA NO PROJETO ATTO. CiÃªncia E Natura, 0, 38, 498.	0.0	0
66	Practical rules for summing the series of the Tweedie probability density function with high-precision arithmetic. Anais Da Academia Brasileira De Ciencias, 2019, 91, e20180268.	0.8	0