# Marcelo Zeri

List of Publications by Year
in descending order

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|---|---|---|---|
| **42**<br>papers | **1,973**<br>citations | 236925<br>**25**<br>h-index | 276875<br>**41**<br>g-index |
| **45**<br>all docs | **45**<br>docs citations | **45**<br>times ranked | **2944**<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Extreme Drought Events over Brazil from 2011 to 2019. Atmosphere, 2019, 10, 642. | 2.3 | 194 |
| 2 | Comparison of horizontal and vertical advective CO2 fluxes at three forest sites. Agricultural and Forest Meteorology, 2008, 148, 12-24. | 4.8 | 136 |
| 3 | Altered Belowground Carbon Cycling Following Land-Use Change to Perennial Bioenergy Crops. Ecosystems, 2013, 16, 508-520. | 3.4 | 132 |
| 4 | Greenness indices from digital cameras predict the timing and seasonal dynamics of canopy‐scale photosynthesis. Ecological Applications, 2015, 25, 99-115. | 3.8 | 129 |
| 5 | A regional comparison of water use efficiency for miscanthus, switchgrass and maize. Agricultural and Forest Meteorology, 2012, 164, 82-95. | 4.8 | 120 |
| 6 | Cluster analysis applied to the spatial and temporal variability of monthly rainfall in Alagoas state, Northeast of Brazil. International Journal of Climatology, 2014, 34, 3546-3558. | 3.5 | 117 |
| 7 | Carbon exchange by establishing biofuel crops in Central Illinois. Agriculture, Ecosystems and Environment, 2011, 144, 319-329. | 5.3 | 115 |
| 8 | Water use efficiency of perennial and annual bioenergy crops in central Illinois. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 581-589. | 3.0 | 71 |
| 9 | Multivariate analysis applied to monthly rainfall over Rio de Janeiro state, Brazil. Meteorology and Atmospheric Physics, 2017, 129, 469-478. | 2.0 | 71 |
| 10 | A new mass conservation approach to the study of $CO_2$ advection in an alpine forest. Journal of Geophysical Research, 2009, 114, . | 3.3 | 69 |
| 11 | Drought characterization for the state of Rio de Janeiro based on the annual SPI index: trends, statistical tests and its relation with ENSO. Atmospheric Research, 2019, 220, 141-154. | 4.1 | 65 |
| 12 | Impact of Soil Moisture on Crop Yields over Brazilian Semiarid. Frontiers in Environmental Science, 2017, 5, . | 3.3 | 60 |
| 13 | Rainfall variability over Alagoas under the influences of SST anomalies. Meteorology and Atmospheric Physics, 2017, 129, 157-171. | 2.0 | 58 |
| 14 | Gap filling strategies and error in estimating annual soil respiration. Global Change Biology, 2013, 19, 1941-1952. | 9.5 | 54 |
| 15 | Extreme rainfall events over Rio de Janeiro State, Brazil: Characterization using probability distribution functions and clustering analysis. Atmospheric Research, 2021, 247, 105221. | 4.1 | 52 |
| 16 | Treatment and assessment of the CO2-exchange at a complex forest site in Thuringia, Germany. Agricultural and Forest Meteorology, 2010, 150, 684-691. | 4.8 | 46 |
| 17 | Variability of Carbon and Water Fluxes Following Climate Extremes over a Tropical Forest in Southwestern Amazonia. PLoS ONE, 2014, 9, e88130. | 2.5 | 39 |
| 18 | Spatiotemporal analysis of particulate matter, sulfur dioxide and carbon monoxide concentrations over the city of Rio de Janeiro, Brazil. Meteorology and Atmospheric Physics, 2011, 113, 139-152. | 2.0 | 37 |

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|---|---------|-----|-----------|
| 19 | The influence of drought and heat stress on long‐term carbon fluxes of bioenergy crops grown in the Midwestern USA. Plant, Cell and Environment, 2016, 39, 1928-1940. | 5.7 | 36 |
| 20 | Assessment of the variability of pollutants concentration over the metropolitan area of São Paulo, Brazil, using the wavelet transform. Atmospheric Science Letters, 2016, 17, 87-95. | 1.9 | 33 |
| 21 | Evaluation of methods of spatial interpolation for monthly rainfall data over the state of Rio de Janeiro, Brazil. Theoretical and Applied Climatology, 2018, 134, 955-965. | 2.8 | 31 |
| 22 | Inter-annual variability of carbon and water fluxes in Amazonian forest, Cerrado and pasture sites, as simulated by terrestrial biosphere models. Agricultural and Forest Meteorology, 2013, 182-183, 145-155. | 4.8 | 30 |
| 23 | Tools for Communicating Agricultural Drought over the Brazilian Semiarid Using the Soil Moisture Index. Water (Switzerland), 2018, 10, 1421. | 2.7 | 29 |
| 24 | The history of rainfall data time-resolution in a wide variety of geographical areas. Journal of Hydrology, 2020, 590, 125258. | 5.4 | 29 |
| 25 | PERSIANN-CDR based characterization and trend analysis of annual rainfall in Rio De Janeiro State, Brazil. Atmospheric Research, 2020, 238, 104873. | 4.1 | 29 |
| 26 | Horizontal and Vertical Turbulent Fluxes Forced by a Gravity Wave Event in the Nocturnal Atmospheric Surface Layer Over the Amazon Forest. Boundary-Layer Meteorology, 2011, 138, 413-431. | 2.3 | 27 |
| 27 | Analysis of periods with strong and coherent $CO_2$ advection over a forested hill. Agricultural and Forest Meteorology, 2010, 150, 674-683. | 4.8 | 20 |
| 28 | The impact of data gaps and quality control filtering on the balances of energy and carbon for a Southwest Amazon forest. Agricultural and Forest Meteorology, 2010, 150, 1543-1552. | 4.8 | 20 |
| 29 | Enhanced evapotranspiration was observed during extreme drought from Miscanthus, opposite of other crops. GCB Bioenergy, 2017, 9, 1306-1319. | 5.6 | 20 |
| 30 | Exposure assessment of rainfall to interannual variability using the wavelet transform. International Journal of Climatology, 2019, 39, 568-578. | 3.5 | 20 |
| 31 | Impacts of herbaceous bioenergy crops on atmospheric volatile organic composition and potential consequences for global climate change. GCB Bioenergy, 2013, 5, 375-383. | 5.6 | 12 |
| 32 | Urban rainfall in the Capitals of Brazil: Variability, trend, and wavelet analysis. Atmospheric Research, 2022, 267, 105984. | 4.1 | 11 |
| 33 | Scale dependence of coherent structures' contribution to the daytime buoyancy heat flux over the Pantanal wetland, Brazil. Atmospheric Science Letters, 2011, 12, 200-206. | 1.9 | 10 |
| 34 | The impact of drought on soil moisture trends across Brazilian biomes. Natural Hazards and Earth System Sciences, 2021, 21, 879-892. | 3.6 | 10 |
| 35 | Aridity indices to assess desertification susceptibility: a methodological approach using gridded climate data and cartographic modeling. Natural Hazards, 2022, 111, 2531-2558. | 3.4 | 10 |
| 36 | Importance of including soil moisture in drought monitoring over the Brazilian semiarid region: An evaluation using the JULES model, in situ observations, and remote sensing. Climate Resilience and Sustainability, 2022, 1, e7. | 2.3 | 8 |

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| 37 | Estimating Buoyancy Heat Flux Using the Surface Renewal Technique over Four Amazonian Forest Sites in Brazil. Boundary-Layer Meteorology, 2013, 149, 179-196. | 2.3 | 7 |
| 38 | Desertification susceptibility over Rio de Janeiro, Brazil, based on aridity indices and geoprocessing. International Journal of Climatology, 2021, 41, E2600. | 3.5 | 6 |
| 39 | The wind regime over the Brazilian Southeast: Spatial and temporal characterization using multivariate analysis. International Journal of Climatology, 2022, 42, 1767-1788. | 3.5 | 5 |
| 40 | Nitrous oxide fluxes over establishing biofuel crops: Characterization of temporal variability using the cross€wavelet analysis. GCB Bioenergy, 2020, 12, 756-770. | 5.6 | 4 |
| 41 | Contribution of coherent structures to the buoyancy heat flux under different conditions of stationarity over Amazonian forest sites. Atmospheric Science Letters, 2015, 16, 228-233. | 1.9 | 1 |
| 42 | Evaluating the soil moisture retrievals for agricultural drought monitoring over Brazil. , 2022, , . | | 0 |