# Alessandro Anav

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4415234/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 49 papers | 5,319 citations | 172457 29 h-index | 214800 47 g-index |
| 63 all docs | 63 docs citations | 63 times ranked | 7835 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Uncertainties in CMIP5 Climate Projections due to Carbon Cycle Feedbacks. Journal of Climate, 2014, 27, 511-526. | 3.2 | 870 |
| 2 | Global Data Sets of Vegetation Leaf Area Index (LAI)3g and Fraction of Photosynthetically Active Radiation (FPAR)3g Derived from Global Inventory Modeling and Mapping Studies (GIMMS) Normalized Difference Vegetation Index (NDVI3g) for the Period 1981 to 2011. Remote Sensing, 2013, 5, 927-948. | 4.0 | 748 |
| 3 | Evaluation of terrestrial carbon cycle models for their response to climate variability and to <scp><scp>CO<sub>2</sub></scp></scp> trends. Global Change Biology, 2013, 19, 2117-2132. | 9.5 | 617 |
| 4 | Spatiotemporal patterns of terrestrial gross primary production: A review. Reviews of Geophysics, 2015, 53, 785-818. | 23.0 | 432 |
| 5 | Evaluating the Land and Ocean Components of the Global Carbon Cycle in the CMIP5 Earth System Models. Journal of Climate, 2013, 26, 6801-6843. | 3.2 | 398 |
| 6 | Economic losses due to ozone impacts on human health, forest productivity and crop yield across China. Environment International, 2019, 131, 104966. | 10.0 | 205 |
| 7 | Projected global ground-level ozone impacts on vegetation under different emission and climate scenarios. Atmospheric Chemistry and Physics, 2017, 17, 12177-12196. | 4.9 | 164 |
| 8 | Accelerating net terrestrial carbon uptake during the warming hiatus due to reduced respiration. Nature Climate Change, 2017, 7, 148-152. | 18.8 | 151 |
| 9 | Short-term and long-term health impacts of air pollution reductions from COVID-19 lockdowns in China and Europe: a modelling study. Lancet Planetary Health, The, 2020, 4, e474-e482. | 11.4 | 136 |
| 10 | ESMValTool (v1.0) â€“ a community diagnostic and performance metrics tool for routine evaluation of Earth system models in CMIP. Geoscientific Model Development, 2016, 9, 1747-1802. | 3.6 | 127 |
| 11 | Impacts of air pollution on human and ecosystem health, and implications for the National Emission Ceilings Directive: Insights from Italy. Environment International, 2019, 125, 320-333. | 10.0 | 113 |
| 12 | Nationwide ground-level ozone measurements in China suggest serious risks to forests. Environmental Pollution, 2018, 237, 803-813. | 7.5 | 84 |
| 13 | Comparing concentrationâ€based (AOT40) and stomatal uptake (PODY) metrics for ozone risk assessment to European forests. Global Change Biology, 2016, 22, 1608-1627. | 9.5 | 83 |
| 14 | Evaluation of Land Surface Models in Reproducing Satellite-Derived LAI over the High-Latitude Northern Hemisphere. Part I: Uncoupled DGVMs. Remote Sensing, 2013, 5, 4819-4838. | 4.0 | 82 |
| 15 | Evaluation of Land Surface Models in Reproducing Satellite Derived Leaf Area Index over the High-Latitude Northern Hemisphere. Part II: Earth System Models. Remote Sensing, 2013, 5, 3637-3661. | 4.0 | 75 |
| 16 | A multi-sites analysis on the ozone effects on Gross Primary Production of European forests. Science of the Total Environment, 2016, 556, 1-11. | 8.0 | 63 |
| 17 | APIFLAME v1.0: high-resolution fire emission model and application to the Euro-Mediterranean region. Geoscientific Model Development, 2014, 7, 587-612. | 3.6 | 60 |
| 18 | The dry season intensity as a key driver of NPP trends. Geophysical Research Letters, 2016, 43, 2632-2639. | 4.0 | 60 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Model of the Regional Coupled Earth system (MORCE): Application to process and climate studies in vulnerable regions. Environmental Modelling and Software, 2012, 35, 1-18. | 4.5 | 57 |
| 20 | Thinning Can Reduce Losses in Carbon Use Efficiency and Carbon Stocks in Managed Forests Under Warmer Climate. Journal of Advances in Modeling Earth Systems, 2018, 10, 2427-2452. | 3.8 | 56 |
| 21 | Impact of tropospheric ozone on the Euro-Mediterranean vegetation. Global Change Biology, 2011, 17, 2342-2359. | 9.5 | 54 |
| 22 | Modelling the effects of land-cover changes on surface climate in the Mediterranean region. Climate Research, 2010, 41, 91-104. | 1.1 | 40 |
| 23 | Assessing the role of soil water limitation in determining the Phytotoxic Ozone Dose (PODY) thresholds. Atmospheric Environment, 2016, 147, 88-97. | 4.1 | 39 |
| 24 | Sensitivity of stomatal conductance to soil moisture: implications for tropospheric ozone. Atmospheric Chemistry and Physics, 2018, 18, 5747-5763. | 4.9 | 39 |
| 25 | Trends in tropospheric ozone concentrations and forest impact metrics in Europe over the time period 2000â€“2014. Journal of Forestry Research, 2021, 32, 543-551. | 3.6 | 39 |
| 26 | Toward stomatalâ€“flux based forest protection against ozone: The MOTTLES approach. Science of the Total Environment, 2019, 691, 516-527. | 8.0 | 38 |
| 27 | High spatial resolution WRF-Chem model over Asia: Physics and chemistry evaluation. Atmospheric Environment, 2021, 244, 118004. | 4.1 | 38 |
| 28 | Validation of 3D-CMCC Forest Ecosystem Model (v.5.1) against eddy covariance data for 10 European forest sites. Geoscientific Model Development, 2016, 9, 479-504. | 3.6 | 36 |
| 29 | Trends and inter-relationships of ground-level ozone metrics and forest health in Lithuania. Science of the Total Environment, 2019, 658, 1265-1277. | 8.0 | 31 |
| 30 | Ozone modelling and mapping for risk assessment: An overview of different approaches for human and ecosystems health. Environmental Research, 2022, 211, 113048. | 7.5 | 31 |
| 31 | Commentary: EPA's proposed expansion of dose-response analysis is a positive step towards improving its ecological risk assessment. Environmental Pollution, 2019, 246, 566-570. | 7.5 | 30 |
| 32 | Sensitivity of natural vegetation to climate change in the Euro-Mediterranean area. Climate Research, 2011, 46, 277-292. | 1.1 | 29 |
| 33 | Growing season extension affects ozone uptake by European forests. Science of the Total Environment, 2019, 669, 1043-1052. | 8.0 | 27 |
| 34 | Exploring sources of uncertainty in premature mortality estimates from fine particulate matter: the case of China. Environmental Research Letters, 2020, 15, 064027. | 5.2 | 26 |
| 35 | The carbon cycle in Mexico: past, present and future of C stocks and fluxes. Biogeosciences, 2016, 13, 223-238. | 3.3 | 24 |
| 36 | Global Variability of Simulated and Observed Vegetation Growing Season. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3569-3587. | 3.0 | 23 |

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|---|---|---|---|
| 37 | High spatial resolution ozone risk-assessment for Asian forests. Environmental Research Letters, 2020, 15, 104095. | 5.2 | 23 |
| 38 | The role of plant phenology in stomatal ozone flux modeling. Global Change Biology, 2018, 24, 235-248. | 9.5 | 22 |
| 39 | Ozone exposure affects tree defoliation in a continental climate. Science of the Total Environment, 2017, 596-597, 396-404. | 8.0 | 19 |
| 40 | Five-year volume growth of European beech does not respond to ozone pollution in Italy. Environmental Science and Pollution Research, 2018, 25, 8233-8239. | 5.3 | 17 |
| 41 | A validation of heat and carbon fluxes from highâ€resolution land surface and regional models. Journal of Geophysical Research, 2010, 115, . | 3.3 | 16 |
| 42 | A comparison of two canopy conductance parameterizations to quantify the interactions between surface ozone and vegetation over Europe. Journal of Geophysical Research, 2012, 117, . | 3.3 | 16 |
| 43 | Economic impacts of ambient ozone pollution on wood production in Italy. Scientific Reports, 2021, 11, 154. | 3.3 | 14 |
| 44 | Impact of ground-level ozone on Mediterranean forest ecosystems health. Science of the Total Environment, 2021, 783, 147063. | 8.0 | 12 |
| 45 | Towards long-term sustainability of stomatal ozone flux monitoring at forest sites. , 2022, 2, 100018. | | 12 |
| 46 | Legislative and functional aspects of different metrics used for ozone risk assessment to forests. Environmental Pollution, 2022, 295, 118690. | 7.5 | 9 |
| 47 | A New Wetness Index to Evaluate the Soil Water Availability Influence on Gross Primary Production of European Forests. Climate, 2019, 7, 42. | 2.8 | 4 |
| 48 | The ENEA-REG system (v1.0), a multi-component regional Earth system model: sensitivity to different atmospheric components over the Med-CORDEX (Coordinated Regional Climate Downscaling) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 297 | 3.6 | 0 |
| 49 | Response on â€˜comparing concentrationâ€based (<scp>AOT</scp>40) and stomatal uptake (<scp>PODY</scp>) metrics for ozone risk assessment to European forestsâ€™. Global Change Biology, 2017, 23, e3-e4. | 9.5 | 0 |