# Ning Zeng

List of Publications by Year
in descending order



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|---|---|---|---|
| 180 papers | 22,230 citations | 19655 61 h-index | 9588 142 g-index |
| 227 all docs | 227 docs citations | 227 times ranked | 21034 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Climateâ€“Carbon Cycle Feedback Analysis: Results from the C4MIP Model Intercomparison. Journal of Climate, 2006, 19, 3337-3353. | 3.2 | 2,647 |
| 2 | Greening of the Earth and its drivers. Nature Climate Change, 2016, 6, 791-795. | 18.8 | 1,675 |
| 3 | Reduced carbon emission estimates from fossil fuel combustion and cement production in China. Nature, 2015, 524, 335-338. | 27.8 | 1,185 |
| 4 | The dominant role of semi-arid ecosystems in the trend and variability of the land CO <sub>2</sub> sink. Science, 2015, 348, 895-899. | 12.6 | 1,002 |
| 5 | 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 |
| 6 | Global Carbon Budget 2015. Earth System Science Data, 2015, 7, 349-396. | 9.9 | 616 |
| 7 | Detection and attribution of vegetation greening trend in China over the last 30Âyears. Global Change Biology, 2015, 21, 1601-1609. | 9.5 | 597 |
| 8 | Recent trends and drivers of regional sources and sinks of carbon dioxide. Biogeosciences, 2015, 12, 653-679. | 3.3 | 587 |
| 9 | The global carbon budget 1959â€“2011. Earth System Science Data, 2013, 5, 165-185. | 9.9 | 527 |
| 10 | Enhancement of Interdecadal Climate Variability in the Sahel by Vegetation Interaction. Science, 1999, 286, 1537-1540. | 12.6 | 498 |
| 11 | Compensatory water effects link yearly global land CO2 sink changes to temperature. Nature, 2017, 541, 516-520. | 27.8 | 480 |
| 12 | Global carbon budget 2014. Earth System Science Data, 2015, 7, 47-85. | 9.9 | 463 |
| 13 | Evidence for a weakening relationship between interannual temperature variability and northern vegetation activity. Nature Communications, 2014, 5, 5018. | 12.8 | 414 |
| 14 | The Hydrological Cycle in the Mediterranean Region and Implications for the Water Budget of the Mediterranean Sea. Journal of Climate, 2002, 15, 1674-1690. | 3.2 | 320 |
| 15 | Recent global decline of CO <sub>2</sub> fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300. | 12.6 | 317 |
| 16 | A Quasi-Equilibrium Tropical Circulation Modelâ€”Formulation*. Journals of the Atmospheric Sciences, 2000, 57, 1741-1766. | 1.7 | 309 |
| 17 | Causes and impacts of the 2005 Amazon drought. Environmental Research Letters, 2008, 3, 014002. | 5.2 | 285 |
| 18 | A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. Journal of Climate, 2009, 22, 5251-5272. | 3.2 | 282 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Terrestrial mechanisms of interannual CO2variability. Global Biogeochemical Cycles, 2005, 19, . | 4.9 | 256 |
| 20 | Modeling study of regional severe hazes over mid-eastern China in January 2013 and its implications on pollution prevention and control. Science China Earth Sciences, 2014, 57, 3-13. | 5.2 | 251 |
| 21 | Estimating adult mortality attributable to PM2.5 exposure in China with assimilated PM2.5 concentrations based on a ground monitoring network. Science of the Total Environment, 2016, 568, 1253-1262. | 8.0 | 251 |
| 22 | Global patterns and controls of soil organic carbon dynamics as simulated by multiple terrestrial biosphere models: Current status and future directions. Global Biogeochemical Cycles, 2015, 29, 775-792. | 4.9 | 241 |
| 23 | An Atlantic influence on Amazon rainfall. Climate Dynamics, 2010, 34, 249-264. | 3.8 | 217 |
| 24 | The North American Carbon Program Multi-Scale Synthesis and Terrestrial Model Intercomparison Project â€“ Part 1: Overview and experimental design. Geoscientific Model Development, 2013, 6, 2121-2133. | 3.6 | 212 |
| 25 | Long-Term Climate Change Commitment and Reversibility: An EMIC Intercomparison. Journal of Climate, 2013, 26, 5782-5809. | 3.2 | 208 |
| 26 | North American Carbon Program (NACP) regional interim synthesis: Terrestrial biospheric model intercomparison. Ecological Modelling, 2012, 232, 144-157. | 2.5 | 207 |
| 27 | Mediterranean water cycle changes: transition to drier 21st century conditions in observations and CMIP3 simulations. Environmental Research Letters, 2008, 3, 044001. | 5.2 | 203 |
| 28 | Euro-Mediterranean rainfall and ENSOâ€”a seasonally varying relationship. Geophysical Research Letters, 2002, 29, 59-1. | 4.0 | 188 |
| 29 | Impact of largeâ€scale climate extremes on biospheric carbon fluxes: An intercomparison based on MsTMIP data. Global Biogeochemical Cycles, 2014, 28, 585-600. | 4.9 | 181 |
| 30 | ATMOSPHERIC SCIENCE: Drought in the Sahel. Science, 2003, 302, 999-1000. | 12.6 | 179 |
| 31 | Long-term climate change in the Mediterranean region in the midst of decadal variability. Climate Dynamics, 2015, 44, 1437-1456. | 3.8 | 173 |
| 32 | Rapid formation and evolution of an extreme haze episode in Northern China during winter 2015. Scientific Reports, 2016, 6, 27151. | 3.3 | 162 |
| 33 | Historical and idealized climate model experiments: an intercomparison of Earth system models of intermediate complexity. Climate of the Past, 2013, 9, 1111-1140. | 3.4 | 157 |
| 34 | Uncertainty in the response of terrestrial carbon sink to environmental drivers undermines carbon-climate feedback predictions. Scientific Reports, 2017, 7, 4765. | 3.3 | 156 |
| 35 | Agricultural Green Revolution as a driver of increasing atmospheric CO2 seasonal amplitude. Nature, 2014, 515, 394-397. | 27.8 | 152 |
| 36 | The Role of Vegetationâ€“Climate Interaction and Interannual Variability in Shaping the African Savanna. Journal of Climate, 2000, 13, 2665-2670. | 3.2 | 141 |

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|---|---|---|---|
| 37 | Rapid formation of a severe regional winter haze episode over a mega-city cluster on the North China Plain. Environmental Pollution, 2017, 223, 605-615. | 7.5 | 136 |
| 38 | Enhanced terrestrial carbon uptake in the Northern High Latitudes in the 21st century from the Coupled Carbon Cycle Climate Model Intercomparison Project model projections. Global Change Biology, 2010, 16, 641-656. | 9.5 | 134 |
| 39 | A Quasi-Equilibrium Tropical Circulation Modelâ€"Implementation and Simulation*. Journals of the Atmospheric Sciences, 2000, 57, 1767-1796. | 1.7 | 129 |
| 40 | Seasonal cycle and interannual variability in the Amazon hydrologic cycle. Journal of Geophysical Research, 1999, 104, 9097-9106. | 3.3 | 120 |
| 41 | Disentangling climatic and anthropogenic controls on global terrestrial evapotranspiration trends. Environmental Research Letters, 2015, 10, 094008. | 5.2 | 119 |
| 42 | Climate model shows large-scale wind and solar farms in the Sahara increase rain and vegetation. Science, 2018, 361, 1019-1022. | 12.6 | 119 |
| 43 | Climate Change--the Chinese Challenge. Science, 2008, 319, 730-731. | 12.6 | 115 |
| 44 | The CLIVAR C20C project: which components of the Asianâ€"Australian monsoon circulation variations are forced and reproducible?. Climate Dynamics, 2009, 33, 1051-1068. | 3.8 | 107 |
| 45 | The CLIVAR C20C project: selected twentieth century climate events. Climate Dynamics, 2009, 33, 603-614. | 3.8 | 105 |
| 46 | The carbon budget of terrestrial ecosystems in East Asia over the last two decades. Biogeosciences, 2012, 9, 3571-3586. | 3.3 | 103 |
| 47 | Climatic Impact of Amazon Deforestationâ€"A Mechanistic Model Study. Journal of Climate, 1996, 9, 859-883. | 3.2 | 102 |
| 48 | How strong is carbon cycle-climate feedback under global warming?. Geophysical Research Letters, 2004, 31, . | 4.0 | 101 |
| 49 | Impact of 1998-2002 midlatitude drought and warming on terrestrial ecosystem and the global carbon cycle. Geophysical Research Letters, 2005, 32, n/a-n/a. | 4.0 | 99 |
| 50 | Glacial-interglacial atmospheric CO2 change â€"The glacial burial hypothesis. Advances in Atmospheric Sciences, 2003, 20, 677-693. | 4.3 | 98 |
| 51 | Modeling Sustainability: Population, Inequality, Consumption, and Bidirectional Coupling of the Earth and Human Systems. National Science Review, 2016, 3, nww081. | 9.5 | 96 |
| 52 | Carbon cycle uncertainty in the Alaskan Arctic. Biogeosciences, 2014, 11, 4271-4288. | 3.3 | 92 |
| 53 | Assessing the recent impact of COVID-19 on carbon emissions from China using domestic economic data. Science of the Total Environment, 2021, 750, 141688. | 8.0 | 92 |
| 54 | A Landâ€"Atmosphere Interaction Theory for the Tropical Deforestation Problem. Journal of Climate, 1999, 12, 857-872. | 3.2 | 90 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | 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 |
| 56 | Expansion of the world's deserts due to vegetationâ€albedo feedback under global warming. Geophysical Research Letters, 2009, 36, . | 4.0 | 81 |
| 57 | Carbon sequestration via wood burial. Carbon Balance and Management, 2008, 3, 1. | 3.2 | 80 |
| 58 | Maintenance of Tropical Intraseasonal Variability: Impact of Evaporationâ€“Wind Feedback and Midlatitude Storms. Journals of the Atmospheric Sciences, 2000, 57, 2793-2823. | 1.7 | 72 |
| 59 | Evaluation and environmental correction of ambient CO<sub>2</sub> measurements from a low-cost NDIR sensor. Atmospheric Measurement Techniques, 2017, 10, 2383-2395. | 3.1 | 72 |
| 60 | Improved Inversion of Monthly Ammonia Emissions in China Based on the Chinese Ammonia Monitoring Network and Ensemble Kalman Filter. Environmental Science & Technology, 2019, 53, 12529-12538. | 10.0 | 72 |
| 61 | Regional contribution to variability and trends of global gross primary productivity. Environmental Research Letters, 2017, 12, 105005. | 5.2 | 65 |
| 62 | Robust assessment of the expansion and retreat of Mediterranean climate in the 21st century. Scientific Reports, 2014, 4, 7211. | 3.3 | 64 |
| 63 | Impact of the 2015/2016 El NiÃ±o on the terrestrial carbon cycle constrained by bottom-up and top-down approaches. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170304. | 4.0 | 63 |
| 64 | Seasonally Modulated Tropical Drought Induced by Volcanic Aerosol. Journal of Climate, 2011, 24, 2045-2060. | 3.2 | 62 |
| 65 | Tropical influence on Euro-Asian autumn rainfall variability. Climate Dynamics, 2005, 24, 511-521. | 3.8 | 61 |
| 66 | Missing pieces to modeling the Arctic-Boreal puzzle. Environmental Research Letters, 2018, 13, 020202. | 5.2 | 61 |
| 67 | Influence of temporal variability of rainfall on interception loss. Part I. Point analysis. Journal of Hydrology, 2000, 228, 228-241. | 5.4 | 60 |
| 68 | The role of spatial scale and background climate in the latitudinal temperature response to deforestation. Earth System Dynamics, 2016, 7, 167-181. | 7.1 | 60 |
| 69 | The dry season intensity as a key driver of NPP trends. Geophysical Research Letters, 2016, 43, 2632-2639. | 4.0 | 60 |
| 70 | Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. Nature Geoscience, 2019, 12, 809-814. | 12.9 | 58 |
| 71 | Real-time navigation for laparoscopic hepatectomy using image fusion of preoperative 3D surgical plan and intraoperative indocyanine green fluorescence imaging. Surgical Endoscopy and Other Interventional Techniques, 2020, 34, 3449-3459. | 2.4 | 58 |
| 72 | Long-term characterization of aerosol chemistry in cold season from 2013 to 2020 in Beijing, China. Environmental Pollution, 2021, 268, 115952. | 7.5 | 56 |

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|---|---|---|---|
| 73 | Global and Regional Variability and Change in Terrestrial Ecosystems Net Primary Production and NDVI: A Model-Data Comparison. Remote Sensing, 2016, 8, 177. | 4.0 | 55 |
| 74 | Sensitivity of Tropical Land Climate to Leaf Area Index: Role of Surface Conductance versus Albedo*. Journal of Climate, 2004, 17, 1459-1473. | 3.2 | 53 |
| 75 | Deep Learning for Air Quality Forecasts: a Review. Current Pollution Reports, 2020, 6, 399-409. | 6.6 | 53 |
| 76 | Transition in air pollution, disease burden and health cost in China: A comparative study of long-term and short-term exposure. Environmental Pollution, 2021, 277, 116770. | 7.5 | 52 |
| 77 | Variability of Basin-Scale Terrestrial Water Storage from a PER Water Budget Method: The Amazon and the Mississippi. Journal of Climate, 2008, 21, 248-265. | 3.2 | 50 |
| 78 | The CLIVAR C20C project: skill of simulating Indian monsoon rainfall on interannual to decadal timescales. Does GHG forcing play a role?. Climate Dynamics, 2009, 33, 615-627. | 3.8 | 50 |
| 79 | A further assessment of vegetation feedback on decadal Sahel rainfall variability. Climate Dynamics, 2013, 40, 1453-1466. | 3.8 | 50 |
| 80 | Terrestrial and marine perspectives on modeling organic matter degradation pathways. Global Change Biology, 2016, 22, 121-136. | 9.5 | 50 |
| 81 | Probabilistic Automatic Outlier Detection for Surface Air Quality Measurements from the China National Environmental Monitoring Network. Advances in Atmospheric Sciences, 2018, 35, 1522-1532. | 4.3 | 50 |
| 82 | Response of the terrestrial carbon cycle to the El NiÃ±o-Southern Oscillation. Tellus, Series B: Chemical and Physical Meteorology, 2022, 60, 537. | 1.6 | 49 |
| 83 | Will Amazonia Dry Out? Magnitude and Causes of Change from IPCC Climate Model Projections. Earth Interactions, 2012, 16, 1-27. | 1.5 | 49 |
| 84 | African tropical rainforest net carbon dioxide fluxes in the twentieth century. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120376. | 4.0 | 49 |
| 85 | Interannual variability of the atmospheric CO<sub>2</sub> growth rate: roles of precipitation and temperature. Biogeosciences, 2016, 13, 2339-2352. | 3.3 | 49 |
| 86 | Toward â€œoptimalâ€•integration of terrestrial biosphere models. Geophysical Research Letters, 2015, 42, 4418-4428. | 4.0 | 48 |
| 87 | Benchmarking the seasonal cycle of CO<sub>2</sub> fluxes simulated by terrestrial ecosystem models. Global Biogeochemical Cycles, 2015, 29, 46-64. | 4.9 | 48 |
| 88 | Outcomes of Hepatectomy for Hepatolithiasis Based on 3-Dimensional Reconstruction Technique. Journal of the American College of Surgeons, 2013, 217, 280-288. | 0.5 | 47 |
| 89 | Source tagging modeling study of heavy haze episodes under complex regional transport processes over Wuhan megacity, Central China. Environmental Pollution, 2017, 231, 612-621. | 7.5 | 45 |
| 90 | Novel small molecular dye-loaded lipid nanoparticles with efficient near-infrared-II absorption for photoacoustic imaging and photothermal therapy of hepatocellular carcinoma. Biomaterials Science, 2019, 7, 3165-3177. | 5.4 | 44 |

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|---|---|---|---|
| 91 | Nonlinear Dynamics in a Coupled Vegetationâ€“Atmosphere System and Implications for Desertâ€“Forest Gradient. Journal of Climate, 2002, 15, 3474-3487. | 3.2 | 43 |
| 92 | Photosynthetic productivity and its efficiencies in ISIMIP2a biome models: benchmarking for impact assessment studies. Environmental Research Letters, 2017, 12, 085001. | 5.2 | 41 |
| 93 | Increased lightâ€use efficiency in northern terrestrial ecosystems indicated by CO<sub>2</sub> and greening observations. Geophysical Research Letters, 2016, 43, 11,339. | 4.0 | 40 |
| 94 | Negative extreme events in gross primary productivity and their drivers in China during the past three decades. Agricultural and Forest Meteorology, 2019, 275, 47-58. | 4.8 | 40 |
| 95 | The terrestrial carbon budget of South and Southeast Asia. Environmental Research Letters, 2016, 11, 105006. | 5.2 | 39 |
| 96 | West African monsoon decadal variability and surface-related forcings: second West African Monsoon Modeling and Evaluation Project Experiment (WAMME II). Climate Dynamics, 2016, 47, 3517-3545. | 3.8 | 39 |
| 97 | The paleoclimatic footprint in the soil carbon stock of the Tibetan permafrost region. Nature Communications, 2019, 10, 4195. | 12.8 | 39 |
| 98 | Vegetation Functional Properties Determine Uncertainty of Simulated Ecosystem Productivity: A Traceability Analysis in the East Asian Monsoon Region. Global Biogeochemical Cycles, 2019, 33, 668-689. | 4.9 | 38 |
| 99 | Calibrations of Low-Cost Air Pollution Monitoring Sensors for CO, NO2, O3, and SO2. Sensors, 2021, 21, 256. | 3.8 | 38 |
| 100 | Evaluating China's fossil-fuel CO<sub>2</sub> emissions from a comprehensive dataset of nine inventories. Atmospheric Chemistry and Physics, 2020, 20, 11371-11385. | 4.9 | 36 |
| 101 | Uncertainty analysis of terrestrial net primary productivity and net biome productivity in China during 1901â€“2005. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1372-1393. | 3.0 | 35 |
| 102 | Illuminating necrosis: From mechanistic exploration to preclinical application using fluorescence molecular imaging with indocyanine green. Scientific Reports, 2016, 6, 21013. | 3.3 | 34 |
| 103 | Application of liver three-dimensional printing in hepatectomy for complex massive hepatocarcinoma with rare variations of portal vein: preliminary experience. International Journal of Clinical and Experimental Medicine, 2015, 8, 18873-8. | 1.3 | 34 |
| 104 | Decadal trends in the seasonal-cycle amplitude of terrestrial CO<sub>2</sub> exchange resulting from the ensemble of terrestrial biosphere models. Tellus, Series B: Chemical and Physical Meteorology, 2022, 68, 28968. | 1.6 | 31 |
| 105 | Contrasting terrestrial carbon cycle responses to the 1997/98 and 2015/16 extreme El NiÃ±o events. Earth System Dynamics, 2018, 9, 1-14. | 7.1 | 31 |
| 106 | Investigating the Transport Mechanism of PM2.5 Pollution during January 2014 in Wuhan, Central China. Advances in Atmospheric Sciences, 2019, 36, 1217-1234. | 4.3 | 31 |
| 107 | The Chinese Carbon-Neutral Goal: Challenges and Prospects. Advances in Atmospheric Sciences, 2022, 39, 1229-1238. | 4.3 | 31 |
| 108 | Benchmarking carbon fluxes of the ISIMIP2a biome models. Environmental Research Letters, 2017, 12, 045002. | 5.2 | 30 |

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| 109 | Investigating sources of variability and error in simulations of carbon dioxide in an urban region. Atmospheric Environment, 2019, 199, 55-69. | 4.1 | 28 |
| 110 | Continued increase in atmospheric CO<sub>2</sub> seasonal amplitude in the 21st century projected by the CMIP5 Earth system models. Earth System Dynamics, 2014, 5, 423-439. | 7.1 | 26 |
| 111 | Role of CO<sub>2</sub>, climate and land use in regulating the seasonal amplitude increase of carbon fluxes in terrestrial ecosystems: a multimodel analysis. Biogeosciences, 2016, 13, 5121-5137. | 3.3 | 26 |
| 112 | Multicriteria evaluation of discharge simulation in Dynamic Global Vegetation Models. Journal of Geophysical Research D: Atmospheres, 2015, 120, 7488-7505. | 3.3 | 25 |
| 113 | Carbon sequestration via wood harvest and storage: An assessment of its harvest potential. Climatic Change, 2013, 118, 245-257. | 3.6 | 24 |
| 114 | The carbon cycle in Mexico: past, present and future of C stocks and fluxes. Biogeosciences, 2016, 13, 223-238. | 3.3 | 24 |
| 115 | Individualized preoperative planning using three-dimensional modeling for Bismuth and Corlette type III hilar cholangiocarcinoma. World Journal of Surgical Oncology, 2016, 14, 44. | 1.9 | 23 |
| 116 | Quasi-100 ky glacial-interglacial cycles triggered by subglacial burial carbon release. Climate of the Past, 2007, 3, 135-153. | 3.4 | 22 |
| 117 | A city-level comparison of fossil-fuel and industry processes-induced CO2 emissions over the Beijing-Tianjin-Hebei region from eight emission inventories. Carbon Balance and Management, 2020, 15, 25. | 3.2 | 22 |
| 118 | Field Evaluation of Low-Cost Particulate Matter Sensors in Beijing. Sensors, 2020, 20, 4381. | 3.8 | 21 |
| 119 | Observed decreases in on-road CO<sub>2</sub> concentrations in Beijing during COVID-19 restrictions. Atmospheric Chemistry and Physics, 2021, 21, 4599-4614. | 4.9 | 21 |
| 120 | A comparative study of anthropogenic CH<sub>4</sub> emissions over China based on the ensembles of bottom-up inventories. Earth System Science Data, 2021, 13, 1073-1088. | 9.9 | 20 |
| 121 | Province-level fossil fuel CO2 emission estimates for China based on seven inventories. Journal of Cleaner Production, 2020, 277, 123377. | 9.3 | 19 |
| 122 | Augmented Reality Navigation for Stereoscopic Laparoscopic Anatomical Hepatectomy of Primary Liver Cancer: Preliminary Experience. Frontiers in Oncology, 2021, 11, 663236. | 2.8 | 18 |
| 123 | Modulation of Land Photosynthesis by the Indian Ocean Dipole: Satelliteâ€Based Observations and CMIP6 Future Projections. Earth's Future, 2021, 9, e2020EF001942. | 6.3 | 18 |
| 124 | Contrasting interannual atmospheric CO<sub>2</sub> variabilities and their terrestrial mechanisms for two types of El NiÃ±os. Atmospheric Chemistry and Physics, 2018, 18, 10333-10345. | 4.9 | 17 |
| 125 | Air stagnation in China: Spatiotemporal variability and differing impact on PM2.5 and O3 during 2013â€“2018. Science of the Total Environment, 2022, 819, 152778. | 8.0 | 17 |
| 126 | Interaction of Vegetation and Atmospheric Dynamical Mechanisms in the Mid-Holocene African Monsoon*. Journal of Climate, 2006, 19, 4105-4120. | 3.2 | 16 |

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|---|---|---|---|
| 127 | To what extent can interannual CO<sub>2</sub> variability constrain carbon cycle sensitivity to climate change in CMIP5 Earth System Models?. Geophysical Research Letters, 2014, 41, 3535-3544. | 4.0 | 16 |
| 128 | Impacts of land use change and elevated CO<sub>2</sub> on the interannual variations and seasonal cycles of gross primary productivity in China. Earth System Dynamics, 2020, 11, 235-249. | 7.1 | 16 |
| 129 | Global vegetation biomass production efficiency constrained by models and observations. Global Change Biology, 2020, 26, 1474-1484. | 9.5 | 15 |
| 130 | Comparing a global high-resolution downscaled fossil fuel CO2 emission dataset to local inventory-based estimates over 14 global cities. Carbon Balance and Management, 2020, 15, 9. | 3.2 | 15 |
| 131 | Response to Comments on â€œRecent global decline of CO <sub>2</sub> fertilization effects on vegetation photosynthesisâ€. Science, 2021, 373, eabg7484. | 12.6 | 15 |
| 132 | Climate variability in a simple model of warm climate land-atmosphere interaction. Journal of Geophysical Research, 2006, 111, . | 3.3 | 14 |
| 133 | Strengthening of the hydrological cycle in future scenarios: atmospheric energy and water balance perspective. Earth System Dynamics, 2012, 3, 199-212. | 7.1 | 14 |
| 134 | Estimating surface carbon fluxes based on a local ensemble transform Kalman filter with a short assimilation window and a long observation window: an observing system simulation experiment test in GEOS-Chem 10.1. Geoscientific Model Development, 2019, 12, 2899-2914. | 3.6 | 14 |
| 135 | Causes of slowingâ€down seasonal CO<sub>2</sub> amplitude at Mauna Loa. Global Change Biology, 2020, 26, 4462-4477. | 9.5 | 14 |
| 136 | Spatioâ€Temporal Hourly and Daily Ozone Forecasting in China Using a Hybrid Machine Learning Model: Autoencoder and Generative Adversarial Networks. Journal of Advances in Modeling Earth Systems, 2022, 14, . | 3.8 | 14 |
| 137 | Characteristics of the source apportionment of primary and secondary inorganic PM2.5 in the Pearl River Delta region during 2015 by numerical modeling. Environmental Pollution, 2020, 267, 115418. | 7.5 | 13 |
| 138 | Importance of Microvascular Invasion Risk and Tumor Size on Recurrence and Survival of Hepatocellular Carcinoma After Anatomical Resection and Non-anatomical Resection. Frontiers in Oncology, 2021, 11, 621622. | 2.8 | 13 |
| 139 | Understanding Climate Sensitivity to Tropical Deforestation in a Mechanistic Model. Journal of Climate, 1998, 11, 1969-1975. | 3.2 | 12 |
| 140 | Sustainable prosperity and societal transitions: Long-term modeling for anticipatory management. Environmental Innovation and Societal Transitions, 2011, 1, 160-165. | 5.5 | 12 |
| 141 | Impact of three-dimensional visualization technology on surgical strategies in complex hepatic cancer. BioScience Trends, 2018, 12, 476-483. | 3.4 | 11 |
| 142 | Fluxes of Atmospheric Greenhouseâ€Gases in Maryland (FLAGGâ€MD): Emissions of Carbon Dioxide in the Baltimore, MDâ€Washington, D.C. Area. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032004. | 3.3 | 11 |
| 143 | Divergent historical GPP trends among state-of-the-art multi-model simulations and satellite-based products. Earth System Dynamics, 2022, 13, 833-849. | 7.1 | 11 |
| 144 | Dynamical prediction of terrestrial ecosystems and the global carbon cycle: A 25â€year hindcast experiment. Global Biogeochemical Cycles, 2008, 22, . | 4.9 | 10 |

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|---|---|---|---|
| 145 | Verification of satellite ozone/temperature profile products and ozone effective height/temperature over Kunming, China. Science of the Total Environment, 2019, 661, 35-47. | 8.0 | 10 |
| 146 | Observation and modeling of vertical carbon dioxide distribution in a heavily polluted suburban environment. Atmospheric and Oceanic Science Letters, 2020, 13, 371-379. | 1.3 | 10 |
| 147 | Synergistic effect of reductions in multiple gaseous precursors on secondary inorganic aerosols in winter under a meteorology-based redistributed daily NH3 emission inventory within the Beijing-Tianjin-Hebei region, China. Science of the Total Environment, 2022, 821, 153383. | 8.0 | 10 |
| 148 | Global to local impacts on atmospheric CO<sub>2</sub>from the COVID-19 lockdown, biosphere and weather variabilities. Environmental Research Letters, 2022, 17, 015003. | 5.2 | 10 |
| 149 | Improved simulation of regional CO<sub>2</sub> surface concentrations using GEOS-Chem and fluxes from VEGAS. Atmospheric Chemistry and Physics, 2013, 13, 7607-7618. | 4.9 | 9 |
| 150 | How well do terrestrial biosphere models simulate coarse-scale runoff in the contiguous United States?. Ecological Modelling, 2015, 303, 87-96. | 2.5 | 9 |
| 151 | Spaceborne detection of XCO<sub>2</sub> enhancement induced by Australian mega-bushfires. Environmental Research Letters, 2020, 15, 124069. | 5.2 | 9 |
| 152 | Covariability of Central America/Mexico winter precipitation and tropical sea surface temperatures. Climate Dynamics, 2018, 50, 4335-4346. | 3.8 | 8 |
| 153 | The Greening and Wetting of the Sahel Have Leveled off since about 1999 in Relation to SST. Remote Sensing, 2020, 12, 2723. | 4.0 | 8 |
| 154 | Nonlinear response of SIA to emission changes and chemical processes over eastern and central China during a heavy haze month. Science of the Total Environment, 2021, 788, 147747. | 8.0 | 8 |
| 155 | Voids in a neutrino-dominated universe. Astrophysical Journal, 1991, 374, 1. | 4.5 | 8 |
| 156 | Arctic warming-induced cold damage to East Asian terrestrial ecosystems. Communications Earth & Environment, 2022, 3, . | 6.8 | 8 |
| 157 | Past, present and future of the carbon cycle. National Science Review, 2014, 1, 18-21. | 9.5 | 7 |
| 158 | Enhanced regional terrestrial carbon uptake over Korea revealed by atmospheric CO 2 measurements from 1999 to 2017. Global Change Biology, 2020, 26, 3368-3383. | 9.5 | 7 |
| 159 | Wood Vault: remove atmospheric CO2 with trees, store wood for carbon sequestration for now and as biomass, bioenergy and carbon reserve for the future. Carbon Balance and Management, 2022, 17, 2. | 3.2 | 7 |
| 160 | Earth System Model FGOALS-s2: Coupling a dynamic global vegetation and terrestrial carbon model with the physical climate system model. Advances in Atmospheric Sciences, 2013, 30, 1549-1559. | 4.3 | 6 |
| 161 | Estimating global cropland production from 1961 to 2010. Earth System Dynamics, 2017, 8, 875-887. | 7.1 | 6 |
| 162 | Transport Patterns and Potential Sources of Atmospheric Pollution during the XXIV Olympic Winter Games Period. Advances in Atmospheric Sciences, 2022, 39, 1608-1622. | 4.3 | 6 |

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|---|---|---|---|
| 163 | Evaluation and Bias Correction of the Secondary Inorganic Aerosol Modeling over North China Plain in Autumn and Winter. Atmosphere, 2021, 12, 578. | 2.3 | 4 |
| 164 | Considerable Uncertainties in Simulating Land Carbon Sinks Induced by Different Precipitation Products. Journal of Geophysical Research G: Biogeosciences, 2021, 126, e2021JG006524. | 3.0 | 4 |
| 165 | Optimal Planning of Air Quality-Monitoring Sites for Better Depiction of PM<sub>2.5</sub> Pollution across China. ACS Environmental Au, 2022, 2, 314-323. | 7.0 | 4 |
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