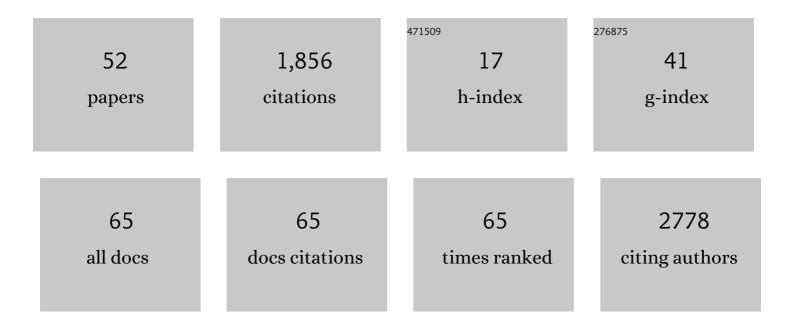
Katherine Evans

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1520840/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Phyllode inoculation provides a rapid protocol for preliminary screening of Acacia species for tolerance to Ceratocystis wilt and canker disease. European Journal of Plant Pathology, 2022, 163, 321-339.	1.7	1
2	Simulation of Hurricane Harvey flood event through coupled hydrologicâ€hydraulic models: Challenges and next steps. Journal of Flood Risk Management, 2021, 14, e12716.	3.3	14
3	A Scalable Semiâ€Implicit Barotropic Mode Solver for the MPASâ€Ocean. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002238.	3.8	2
4	Progress towards accelerating the unified model on hybrid multi-core systems. , 2021, , .		0
5	The role of humidity in determining future electricity demand in the southeastern United States. Environmental Research Letters, 2021, 16, 114017.	5.2	6
6	Automated Fortran–C++ Bindings for Large-Scale Scientific Applications. Computing in Science and Engineering, 2020, 22, 84-94.	1.2	3
7	Shift Toward Intense and Widespread Precipitation Events Over the United States by Midâ€⊋1st Century. Geophysical Research Letters, 2020, 47, e2020GL089899.	4.0	12
8	Tropical Indian Ocean Mediates ENSO Influence Over Central Southwest Asia During the Wet Season. Geophysical Research Letters, 2020, 47, e2020GL089308.	4.0	25
9	Identification of major moisture sources across the Mediterranean Basin. Climate Dynamics, 2020, 54, 4109-4127.	3.8	16
10	High-performance computing in water resources hydrodynamics. Journal of Hydroinformatics, 2020, 22, 1217-1235.	2.4	27
11	Doubling of U.S. Population Exposure to Climate Extremes by 2050. Earth's Future, 2020, 8, e2019EF001421.	6.3	46
12	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. Journal of Advances in Modeling Earth Systems, 2019, 11, 2377-2411.	3.8	168
13	Shift in seasonal climate patterns likely to impact residential energy consumption in the United States. Environmental Research Letters, 2019, 14, 074006.	5.2	16
14	A Multivariate Approach to Ensure Statistical Reproducibility of Climate Model Simulations. , 2019, , .		6
15	LIVVkit 2.1: automated and extensible ice sheet model validation. Geoscientific Model Development, 2019, 12, 1067-1086.	3.6	4
16	Description and evaluation of the Community Ice Sheet Model (CISM) v2.1. Geoscientific Model Development, 2019, 12, 387-424.	3.6	68
17	Ongoing solution reproducibility of earth system models as they progress toward exascale computing. International Journal of High Performance Computing Applications, 2019, 33, 784-790.	3.7	5
18	Northern Hemisphere Blocking in â^1⁄425â€kmâ€Resolution E3SM v0.3 Atmosphere‣and Simulations. Journal o	f _{3.3}	7

Geophysical Research D: Atmospheres, 2019, 124, 2465-2482.

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#	Article	IF	CITATIONS
19	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. Journal of Advances in Modeling Earth Systems, 2019, 11, 2089-2129.	3.8	404
20	Performance analysis of fully explicit and fully implicit solvers within a spectral element shallow-water atmosphere model. International Journal of High Performance Computing Applications, 2019, 33, 268-284.	3.7	4
21	An efficient Bayesian data-worth analysis using a multilevel Monte Carlo method. Advances in Water Resources, 2018, 113, 223-235.	3.8	13
22	Model Resolution Sensitivity of the Simulation of North Atlantic Oscillation Teleconnections to Precipitation Extremes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,392.	3.3	8
23	Characteristics of Bay of Bengal Monsoon Depressions in the 21st Century. Geophysical Research Letters, 2018, 45, 6637-6645.	4.0	23
24	Exploring an Ensemble-Based Approach to Atmospheric Climate Modeling and Testing at Scale. Procedia Computer Science, 2017, 108, 735-744.	2.0	7
25	LIVVkit: An extensible, pythonâ€based, land ice verification and validation toolkit for ice sheet models. Journal of Advances in Modeling Earth Systems, 2017, 9, 854-869.	3.8	7
26	An ice sheet model validation framework for the Greenland ice sheet. Geoscientific Model Development, 2017, 10, 255-270.	3.6	18
27	On the Use of Finite Difference Matrix-vector Products in Newton-krylov Solvers for Implicit Climate Dynamics with Spectral Elements. Procedia Computer Science, 2015, 51, 2036-2045.	2.0	3
28	A case study of CUDA FORTRAN and OpenACC for an atmospheric climate kernel. Journal of Computational Science, 2015, 9, 1-6.	2.9	36
29	Climate, environmental and socio-economic change: weighing up the balance in vector-borne disease transmission. Philosophical Transactions of the Royal Society B: Biological Sciences, 2015, 370, 20130551.	4.0	215
30	Toward a Science of Tumor Forecasting for Clinical Oncology. Cancer Research, 2015, 75, 918-923.	0.9	74
31	Algorithmically scalable block preconditioner for fully implicit shallow-water equations in CAM-SE. Computational Geosciences, 2015, 19, 49-61.	2.4	6
32	Fidelity of Precipitation Extremes in High Resolution Global Climate Simulations. Procedia Computer Science, 2015, 51, 2178-2187.	2.0	12
33	Web-based visual analytics for extreme scale climate science. , 2014, , .		6
34	A spectral transform dynamical core option within the Community Atmosphere Model (CAM4). Journal of Advances in Modeling Earth Systems, 2014, 6, 902-922.	3.8	10
35	Emulation to simulate low-resolution atmospheric data. International Journal of Computer Mathematics, 2014, 91, 770-780.	1.8	2
36	Intermediate frequency atmospheric disturbances: A dynamical bridge connecting western U.S. extreme precipitation with East Asian cold surges. Journal of Geophysical Research D: Atmospheres, 2014, 119, 3723-3735.	3.3	25

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37	Linearity of Climate Response to Increases in Black Carbon Aerosols. Journal of Climate, 2013, 26, 8223-8237.	3.2	27
38	A Spectral Deferred Correction Method Applied to the Shallow Water Equations on a Sphere. Monthly Weather Review, 2013, 141, 3435-3449.	1.4	14
39	AMIP Simulation with the CAM4 Spectral Element Dynamical Core. Journal of Climate, 2013, 26, 689-709.	3.2	60
40	Interannual Tropospheric Aerosol Variability in the Late Twentieth Century and Its Impact on Tropical Atlantic and West African Climate by Direct and Semidirect Effects. Journal of Climate, 2012, 25, 8031-8056.	3.2	12
41	A modern solver interface to manage solution algorithms in the Community Earth System Model. International Journal of High Performance Computing Applications, 2012, 26, 54-62.	3.7	9
42	CAM-SE: A scalable spectral element dynamical core for the Community Atmosphere Model. International Journal of High Performance Computing Applications, 2012, 26, 74-89.	3.7	302
43	Implementation of the Jacobian-free Newton–Krylov method for solving the first-order ice sheet momentum balance. Journal of Computational Physics, 2011, 230, 6531-6545.	3.8	19
44	Multiwavelet Discontinuous Galerkin-Accelerated Exact Linear Part (ELP) Method for the Shallow-Water Equations on the Cubed Sphere. Monthly Weather Review, 2011, 139, 457-473.	1.4	12
45	Accuracy Analysis of a Spectral Element Atmospheric Model Using a Fully Implicit Solution Framework. Monthly Weather Review, 2010, 138, 3333-3341.	1.4	22
46	Time Acceleration Methods for Advection on the Cubed Sphere. Lecture Notes in Computer Science, 2009, , 253-262.	1.3	1
47	Atmospheric and Oceanic Computational Science. Lecture Notes in Computer Science, 2009, , 241-242.	1.3	0
48	Temporal accuracy analysis of phase change convection simulations using the JFNK-SIMPLE algorithm. International Journal for Numerical Methods in Fluids, 2007, 55, 637-653.	1.6	10
49	Enhanced algorithm efficiency for phase change convection using a multigrid preconditioner with a SIMPLE smoother. Journal of Computational Physics, 2007, 223, 121-126.	3.8	5
50	Development of a 2-D algorithm to simulate convection and phase transition efficiently. Journal of Computational Physics, 2006, 219, 404-417.	3.8	21
51	Piecewise Tendency Diagnosis of Weather Regime Transitions. Journals of the Atmospheric Sciences, 2003, 60, 1941-1959.	1.7	24
52	The Statistics and Horizontal Structure of Anomalous Weather Regimes in the Community Climate Model. Monthly Weather Review, 1998, 126, 841-859.	1.4	9