Bryan N Lawrence

List of Publications by Year
in descending order

		516681	552766
31 papers	**787** citations	**16** h-index	**26** g-index
45 all docs	**45** docs citations	**45** times ranked	**1812** citing authors

#	Article	IF	Citations
1	Citation and Peer Review of Data: Moving Towards Formal Data Publication. International Journal of Digital Curation, 2011, 6, 4-37.	0.2	82
2	Towards improved and more routine Earth system model evaluation in CMIP. Earth System Dynamics, 2016, 7, 813-830.	7.1	74
3	High-resolution global climate modelling: the UPSCALE project, a large-simulation campaign. Geoscientific Model Development, 2014, 7, 1629-1640.	3.6	65
4	Requirements for a global data infrastructure in support of CMIP6. Geoscientific Model Development, 2018, 11, 3659-3680.	3.6	62
5	Crossing the chasm: how to develop weather and climate models for next generation computers?. Geoscientific Model Development, 2018, 11, 1799-1821.	3.6	50
6	CPMIP: measurements of real computational performance of Earth system models in CMIP6. Geoscientific Model Development, 2017, 10, 19-34.	3.6	41
7	Global retrieval of ATSR cloud parameters and evaluation (GRAPE): dataset assessment. Atmospheric Chemistry and Physics, 2011, 11, 3913-3936.	4.9	38
8	A data model of the Climate and Forecast metadata conventions (CF-1.6) with a software implementation (cf-python v2.1). Geoscientific Model Development, 2017, 10, 4619-4646.	3.6	37
9	Validation of the GRAPE single view aerosol retrieval for ATSR-2 and insights into the long term global AOD trend over the ocean. Atmospheric Chemistry and Physics, 2010, 10, 4849-4866.	4.9	34
10	Community Intercomparison Suite (CIS) v1.4.0: a tool for intercomparing models and observations. Geoscientific Model Development, 2016, 9, 3093-3110.	3.6	33
11	Regional and seasonal variations of the Twomey indirect effect as observed by the ATSRâ€2 satellite instrument. Geophysical Research Letters, 2008, 35, .	4.0	30
12	Documenting numerical experiments in support of the Coupled Model Intercomparison Project Phase 6 (CMIP6). Geoscientific Model Development, 2020, 13, 2149-2167.	3.6	26
13	The CMIP6 Data Request (DREQ, version 01.00.31). Geoscientific Model Development, 2020, 13, 201-224.	3.6	22
14	Documenting Climate Models and Their Simulations. Bulletin of the American Meteorological Society, 2013, 94, 623-627.	3.3	20
15	Parameterisation of orographic cloud dynamics in a GCM. Climate Dynamics, 2007, 28, 581-597.	3.8	19
16	The Earth System Grid Federation: Delivering globally accessible petascale data for CMIP5. Proceedings of the Asia-Pacific Advanced Network, 2013, 32, 121.	0.3	19
17	U.K. Community Earth System Modeling for CMIP6. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002004.	3.8	18
18	Orographic cloud in a GCM: the missing cirrus. Climate Dynamics, 2005, 24, 771-780.	3.8	17

#	Article	IF	Citations
19	Describing Earth system simulations with the Metafor CIM. Geoscientific Model Development, 2012, 5, 1493-1500.	3.6	15
20	Standards-based data interoperability in the climate sciences. Meteorological Applications, 2005, 12, 9-22.	2.1	11
21	Development and exploitation of a controlled vocabulary in support of climate modelling. Geoscientific Model Development, 2014, 7, 479-493.	3.6	11
22	The January 1992 stratospheric sudden warming: A role for tropical inertial instability?. Quarterly Journal of the Royal Meteorological Society, 1999, 125, 2575-2596.	2.7	10
23	A gravity-wave induced quasi-biennial oscillation in a three-dimensional mechanistic model. Quarterly Journal of the Royal Meteorological Society, 2001, 127, 2005-2021.	2.7	10
24	A Linked Data Approach to Publishing Complex Scientific Workflows. , 2011, , .		8
25	A possible mechanism for in situ forcing of planetary waves in the summer extratropical mesosphere. Geophysical Research Letters, 2001, 28, 1183-1186.	4.0	7
26	Inferred variables in data assimilation: quantifying sensitivity to inaccurate error statistics. Tellus, Series A: Dynamic Meteorology and Oceanography, 2009, 61, 129-143.	1.7	5
27	Data assimilation for re-analyses: potential gains from full use of post-analysis-time observations. Tellus, Series A: Dynamic Meteorology and Oceanography, 2006, 58, 171-178.	1.7	4
28	High-Performance Computing for Climate Modeling. Bulletin of the American Meteorological Society, 2014, 95, ES97-ES100.	3.3	2
29	MOLES3: Implementing an ISO standards driven data catalogue. International Journal of Digital Curation, 2015, 10, 249-259.	0.2	2
30	Developing an Open Data Portal for the ESA Climate Change Initiative. Data Science Journal, 2020, 19, .	1.3	1
31	Gravity waves in Fabryâ€"Perot measurements made at Mt. John (44Â°S,170Â°E), New Zealand. Journal of Atmospheric and Solar-Terrestrial Physics, 2002, 64, 367-376.	1.6	0