

# John A Taylor

## List of Publications by Citations

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60  
papers

4,549  
citations

20  
h-index

63  
g-index

63  
ext. papers

4,894  
ext. citations

5.3  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
60	A global model of natural volatile organic compound emissions. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 8873		3022
59	Vegetation effects on the isotope composition of oxygen in atmospheric CO <sub>2</sub> . <i>Nature</i> , <b>1993</b> , 363, 439-443	50.4	343
58	Variations in modeled atmospheric transport of carbon dioxide and the consequences for CO <sub>2</sub> inversions. <i>Global Biogeochemical Cycles</i> , <b>1996</b> , 10, 783-796	5.9	134
57	Sources and Sinks of Atmospheric CO <sub>2</sub> . <i>Australian Journal of Botany</i> , <b>1992</b> , 40, 407	1.2	115
56	Changes in daily temperature and precipitation extremes in the Yellow River Basin, China. <i>Stochastic Environmental Research and Risk Assessment</i> , <b>2013</b> , 27, 401-421	3.5	82
55	A study of the sources and sinks of methane and methyl chloroform using a global three-dimensional Lagrangian tropospheric tracer transport model. <i>Journal of Geophysical Research</i> , <b>1991</b> , 96, 3013		73
54	Changes in reference evapotranspiration across the Tibetan Plateau: Observations and future projections based on statistical downscaling. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 4049-4068	4.4	72
53	Three-dimensional transport and concentration of SF <sub>6</sub> A model intercomparison study (TransCom 2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , <b>1999</b> , 51, 266-297	3.3	52
52	Changes of reference evapotranspiration in the Haihe River Basin: Present observations and future projection from climatic variables through multi-model ensemble. <i>Global and Planetary Change</i> , <b>2014</b> , 115, 1-15	4.2	48
51	. <i>IEEE Transactions on Multimedia</i> , <b>2009</b> , 11, 879-891	6.6	42
50	Hydrological Processes in Regional Climate Model Simulations of the Central United States Flood of June/July 1993. <i>Journal of Hydrometeorology</i> , <b>2003</b> , 4, 584-598	3.7	41
49	Toolbox for advanced x-ray image processing <b>2011</b> ,		39
48	Use of remote-sensing reflectance to constrain a data assimilating marine biogeochemical model of the Great Barrier Reef. <i>Biogeosciences</i> , <b>2016</b> , 13, 6441-6469	4.6	37
47	Testing high-resolution nitrous oxide emission estimates against observations using an atmospheric transport model. <i>Global Biogeochemical Cycles</i> , <b>1996</b> , 10, 307-318	5.9	35
46	Multiscale cardiac modelling reveals the origins of notched T waves in long QT syndrome type 2. <i>Nature Communications</i> , <b>2014</b> , 5, 5069	17.4	34
45	Investigating the variation and non-stationarity in precipitation extremes based on the concept of event-based extreme precipitation. <i>Journal of Hydrology</i> , <b>2015</b> , 530, 785-798	6	31
44	Lattice Boltzmann modeling of permeability in porous materials with partially percolating voxels. <i>Physical Review E</i> , <b>2014</b> , 90, 033301	2.4	28

43	3-D tropospheric CO modeling: The possible influence of the ocean. <i>Geophysical Research Letters</i> , <b>1992</b> , 19, 1955-1958	4.9	26
42	The Potential Role of Peatland Dynamics in Ice-Age Initiation. <i>Quaternary Research</i> , <b>1996</b> , 45, 89-92	1.9	22
41	The natural latitudinal distribution of atmospheric CO <sub>2</sub> . <i>Global and Planetary Change</i> , <b>2000</b> , 26, 375-386	4.2	21
40	A balanced calibration of water quantity and quality by multi-objective optimization for integrated water system model. <i>Journal of Hydrology</i> , <b>2016</b> , 538, 802-816	6	19
39	A new inverse method for trace gas flux estimation: 2. Application to tropospheric CFCl <sub>3</sub> fluxes. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 1429-1442		17
38	A hybrid model for predicting the distribution of pollutants dispersed from line sources. <i>Science of the Total Environment</i> , <b>1985</b> , 46, 191-213	10.2	17
37	Adaptive Subspace Symbolization for Content-Based Video Detection. <i>IEEE Transactions on Knowledge and Data Engineering</i> , <b>2010</b> , 22, 1372-1387	4.2	16
36	Quantifying the origins of population variability in cardiac electrical activity through sensitivity analysis of the electrocardiogram. <i>Journal of Physiology</i> , <b>2013</b> , 591, 4207-22	3.9	15
35	Identification of a distributional model. <i>Communications in Statistics Part B: Simulation and Computation</i> , <b>1985</b> , 14, 497-508	0.6	15
34	Advanced investigation on the change in the streamflow into the water source of the middle route of China's water diversion project. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 6950-6964	4.4	12
33	Temperature dependence of collisional energy transfer in ethyl acetate. <i>The Journal of Physical Chemistry</i> , <b>1983</b> , 87, 5214-5219		12
32	A global three-dimensional Lagrangian tracer transport modelling study of the sources and sinks of nitrous oxide. <i>Mathematics and Computers in Simulation</i> , <b>1992</b> , 33, 597-602	3.3	11
31	A 3-D modelling study of the sources and sinks of atmospheric carbon monoxide. <i>Ecological Modelling</i> , <b>1996</b> , 88, 53-71	3	10
30	Atmospheric mixing and the CO <sub>2</sub> seasonal cycle. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 4173-4176	4.9	8
29	The climatic effects of biomass burning: investigations with a global climate model. <i>Environmental Modelling and Software</i> , <b>1999</b> , 14, 253-259	5.2	8
28	Random walks in the kalman filter: Implications for greenhouse gas flux deductions. <i>Environmetrics</i> , <b>1995</b> , 6, 473-478	1.3	8
27	Data-constrained characterization of sandstone microstructures with multi-energy X-ray CT. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 463, 012048	0.3	7
26	A method for predicting the extremes of stream acidity and other water quality variables. <i>Journal of Hydrology</i> , <b>1990</b> , 116, 375-390	6	7

25	A hybrid model for predicting the distribution of sulphur dioxide concentrations observed near elevated point sources. <i>Ecological Modelling</i> , <b>1987</b> , 36, 269-296	3	7
24	Galaxy + Hadoop: Toward a Collaborative and Scalable Image Processing Toolbox in Cloud. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 339-351	0.9	6
23	Cloud based toolbox for image analysis, processing and reconstruction tasks. <i>Advances in Experimental Medicine and Biology</i> , <b>2015</b> , 823, 191-205	3.6	6
22	Statistical distribution modelling: Function, methods and application to air quality management. <i>Mathematics and Computers in Simulation</i> , <b>1988</b> , 30, 3-9	3.3	5
21	Climatic effects of biomass burning. <i>Environmental Software</i> , <b>1996</b> , 11, 53-58		4
20	Statistical modeling of restricted pollutant data sets to assess compliance with air quality criteria. <i>Environmental Monitoring and Assessment</i> , <b>1987</b> , 9, 29-46	3.1	4
19	Applications of heterogeneous computing in computational and simulation science. <i>International Journal of Computational Science and Engineering</i> , <b>2013</b> , 8, 240	0.4	3
18	Biomedical image analysis and processing in clouds <b>2013</b> ,		3
17	Fossil fuel emissions required to achieve atmospheric CO2 stabilisation using ANU-BACE: A box-diffusion carbon cycle model. <i>Ecological Modelling</i> , <b>1996</b> , 86, 195-199	3	3
16	Efficient tools for analysing the influence of sources and meteorology on urban ambient concentration trends illustrated for Canberra, Australia. <i>Ecological Modelling</i> , <b>1992</b> , 64, 125-157	3	3
15	Microscopical TSP studies comparing a city centre and suburban sites in Canberra, Australia. <i>Atmospheric Environment</i> , <b>1988</b> , 22, 1745-1758		3
14	Applications of Heterogeneous Computing in Computational and Simulation Science <b>2011</b> ,		2
13	A Subspace Symbolization Approach to Content-Based Video Search. <i>Proceedings - International Conference on Data Engineering</i> , <b>2009</b> ,	2	2
12	Combining deterministic and statistical models for ill-defined systems: Advantages for air quality assessment. <i>Mathematics and Computers in Simulation</i> , <b>1985</b> , 27, 167-178	3.3	2
11	Model and data work together to reveal microscopic structures of materials. <i>SPIE Newsroom</i> ,		2
10	SAM: a computer program for statistical analysis and modelling. <i>Environmental Modelling and Software</i> , <b>1998</b> , 13, 225-231	5.2	1
9	New approaches to modelling the global distribution of trace gases in the troposphere. <i>Mathematics and Computers in Simulation</i> , <b>1990</b> , 32, 59-64	3.3	1
8	Percentile estimation of the three-parameter gamma and lognormal distributions: Methods of moments versus maximum likelihood. <i>Mathematics and Computers in Simulation</i> , <b>1990</b> , 32, 167-172	3.3	1

7	Simplifying the Task of Generating Climate Simulations and Visualizations. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 758-766	0.9	1
6	Developing Grid Based Infrastructure for Climate Modeling. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 739-747	0.9	1
5	Data-driven global weather predictions at high resolutions. <i>International Journal of High Performance Computing Applications</i> , 109434202110398	1.8	1
4	Recent Advancement of Deep Learning Applications to Machine Condition Monitoring Part 1: A Critical Review. <i>Acoustics Australia</i> , <b>2021</b> , 49, 207-219	1.4	0
3	Designing a Flexible Grid Enabled Scientific Modeling Interface. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 777-786	0.9	
2	Recent Advancement of Deep Learning Applications to Machine Condition Monitoring Part 2: Supplement Views and a Case Study. <i>Acoustics Australia</i> , <b>2021</b> , 49, 221-228	1.4	
1	Statistical downscaling of reference evapotranspiration in Haihe River Basin: applicability assessment and application to future projection. <i>Hydrological Sciences Journal</i> , <b>2016</b> , 1-13	3.5	