

Eli J Mlawer

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38

papers

8,926

citations

21

h-index

44

g-index

44

ext. papers

10,142

ext. citations

4.8

avg. IF

5.53

L-index

#	Paper	IF	Citations
38	Radiative transfer for inhomogeneous atmospheres: RRTM, a validated correlated-k model for the longwave. <i>Journal of Geophysical Research</i> , 1997 , 102, 16663-16682		5046
37	Radiative forcing by long-lived greenhouse gases: Calculations with the AER radiative transfer models. <i>Journal of Geophysical Research</i> , 2008 , 113,		2260
36	Impact of an improved longwave radiation model, RRTM, on the energy budget and thermodynamic properties of the NCAR community climate model, CCM3. <i>Journal of Geophysical Research</i> , 2000 , 105, 14873-14890		291
35	Development and recent evaluation of the MT_CKD model of continuum absorption. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012 , 370, 2520-56	3	254
34	Downwelling spectral radiance observations at the SHEBA ice station: Water vapor continuum measurements from 17 to 26 μ m. <i>Journal of Geophysical Research</i> , 1999 , 104, 2081-2092		97
33	The Continual Intercomparison of Radiation Codes: Results from Phase I. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		96
32	The QME AERI LBLRTM: A Closure Experiment for Downwelling High Spectral Resolution Infrared Radiance. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 2657-2675	2.1	88
31	Improved Daytime Column-Integrated Precipitable Water Vapor from Vaisala Radiosonde Humidity Sensors. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008 , 25, 873-883	2	77
30	Performance of the Line-By-Line Radiative Transfer Model (LBLRTM) for temperature, water vapor, and trace gas retrievals: recent updates evaluated with IASI case studies. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6687-6711	6.8	72
29	Air-Broadened Half-Widths of the 22- and 183-GHz Water-Vapor Lines. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2008 , 46, 3601-3617	8.1	60
28	Influence of Ice Particle Surface Roughening on the Global Cloud Radiative Effect. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 2794-2807	2.1	56
27	The Radiative Heating in Underexplored Bands Campaigns. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 911-924	6.1	53
26	Water Vapor Continuum Absorption in the Microwave. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011 , 49, 2194-2208	8.1	53
25	A far-infrared radiative closure study in the Arctic: Application to water vapor. <i>Journal of Geophysical Research</i> , 2010 , 115,		49
24	Comparison of spectral direct and diffuse solar irradiance measurements and calculations for cloud-free conditions. <i>Geophysical Research Letters</i> , 2000 , 27, 2653-2656	4.9	48
23	Radiative flux and forcing parameterization error in aerosol-free clear skies. <i>Geophysical Research Letters</i> , 2015 , 42, 5485-5492	4.9	46
22	Comparison of Ground-Based Millimeter-Wave Observations and Simulations in the Arctic Winter. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009 , 47, 3098-3106	8.1	26

21	Observationally derived rise in methane surface forcing mediated by water vapour trends. <i>Nature Geoscience</i> , 2018 , 11, 238-243	18.3	24
20	Water Vapor Observations in the ARM Program. <i>Meteorological Monographs</i> , 2016 , 57, 13.1-13.18	5.7	24
19	Ground-based high spectral resolution observations of the entire terrestrial spectrum under extremely dry conditions. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	22
18	Balancing Accuracy, Efficiency, and Flexibility in Radiation Calculations for Dynamical Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3074-3089	7.1	21
17	Spectral Radiation Measurements and Analysis in the ARM Program. <i>Meteorological Monographs</i> , 2016 , 57, 14.1-14.17	5.7	20
16	Analysis of Water Vapor Absorption in the Far-Infrared and Submillimeter Regions Using Surface Radiometric Measurements From Extremely Dry Locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8134-8160	4.4	18
15	Contributions of the ARM Program to Radiative Transfer Modeling for Climate and Weather Applications. <i>Meteorological Monographs</i> , 2016 , 57, 15.1-15.19	5.7	18
14	Impact of Multiple Scattering on Longwave Radiative Transfer Involving Clouds. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 3082-3098	7.1	16
13	Impact of modifying the longwave water vapor continuum absorption model on community Earth system model simulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		15
12	The spectroscopic foundation of radiative forcing of climate by carbon dioxide. <i>Geophysical Research Letters</i> , 2016 , 43, 5318-5325	4.9	14
11	Dynamics of Local Circulations in Mountainous Terrain during the RHUBC-II Project. <i>Monthly Weather Review</i> , 2013 , 141, 3641-3656	2.4	11
10	Improvement of the Simulation of Cloud Longwave Scattering in Broadband Radiative Transfer Models. <i>Journals of the Atmospheric Sciences</i> , 2018 , 75, 2217-2233	2.1	10
9	Evaluation of two Vaisala RS92 radiosonde solar radiative dry bias correction algorithms. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 1613-1626	4	9
8	Absorption coefficient (ABSCO) tables for the Orbiting Carbon Observatories: Version 5.1. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 255, 107217	2.1	9
7	Benchmark Calculations of Radiative Forcing by Greenhouse Gases. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD033483	4.4	6
6	Measurements of downwelling far-infrared radiance during the RHUBC-II campaign at Cerro Toco, Chile and comparisons with line-by-line radiative transfer calculations. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017 , 198, 25-39	2.1	5
5	How Does a Pinatubo-Size Volcanic Cloud Reach the Middle Stratosphere?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033829	4.4	5
4	Spectroscopic uncertainty impacts on OCO-2/3 retrievals of XCO ₂ . <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 257, 107360	2.1	4

3	Performance of the line-by-line radiative transfer model (LBLRTM) for temperature, water vapor, and trace gas retrievals: recent updates evaluated with IASI case studies		1
2	Improved Eddington approximation for optically thin clouds. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2020 , 240, 106694	2.1	1
1	An Improved Ocean Surface Albedo Computational Scheme: Structure and Performance. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016958	3.3	0