Eli J Mlawer

List of Publications by Year
in descending order

38 papers	11,480 citations	279487 23 h-index	329751 37 g-index
44 all docs	44 docs citations	44 times ranked	9352 citing authors

#	Article	IF	Citations
1	How Does a Pinatuboâ€Size Volcanic Cloud Reach the Middle Stratosphere?. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033829.	1.2	18
2	An Improved Ocean Surface Albedo Computational Scheme: Structure and Performance. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016958.	1.0	3
3	Improved Î´-Eddington approximation for optically thin clouds. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 240, 106694.	1.1	4
4	Absorption coefficient (ABSCO) tables for the Orbiting Carbon Observatories: Version 5.1. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107217.	1.1	24
5	Benchmark Calculations of Radiative Forcing by Greenhouse Gases. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033483.	1.2	21
6	Spectroscopic uncertainty impacts on OCO-2/3 retrievals of XCO2. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 257, 107360.	1.1	9
7	Balancing Accuracy, Efficiency, and Flexibility in Radiation Calculations for Dynamical Models. Journal of Advances in Modeling Earth Systems, 2019, 11, 3074-3089.	1.3	49
8	Analysis of Water Vapor Absorption in the Farâ€Infrared and Submillimeter Regions Using Surface Radiometric Measurements From Extremely Dry Locations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8134-8160.	1.2	26
9	Observationally derived rise in methane surface forcing mediated by water vapour trends. Nature Geoscience, 2018, 11, 238-243.	5.4	37
10	Improvement of the Simulation of Cloud Longwave Scattering in Broadband Radiative Transfer Models. Journals of the Atmospheric Sciences, 2018, 75, 2217-2233.	0.6	16
11	Measurements of downwelling far-infrared radiance during the RHUBC-II campaign at Cerro Toco, Chile and comparisons with line-by-line radiative transfer calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 198, 25-39.	1.1	6
12	Impact of Multiple Scattering on Longwave Radiative Transfer Involving Clouds. Journal of Advances in Modeling Earth Systems, 2017, 9, 3082-3098.	1.3	24
13	Evaluation of two Vaisala RS92 radiosonde solar radiative dry bias correction algorithms. Atmospheric Measurement Techniques, 2016, 9, 1613-1626.	1.2	10
14	Spectral Radiation Measurements and Analysis in the ARM Program. Meteorological Monographs, 2016, 57, 14.1-14.17.	5.0	23
15	Contributions of the ARM Program to Radiative Transfer Modeling for Climate and Weather Applications. Meteorological Monographs, 2016, 57, 15.1-15.19.	5.0	20
16	The spectroscopic foundation of radiative forcing of climate by carbon dioxide. Geophysical Research Letters, 2016, 43, 5318-5325.	1.5	20
17	Water Vapor Observations in the ARM Program. Meteorological Monographs, 2016, 57, 13.1-13.18.	5.0	25
18	Far-Infrared Spectroscopy of Water Vapor: Results from Deployment of FIRST to Cerro Toco and Requirements for Future Experiments in Extremely Dry Environments. , 2016, , .		0

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19	Radiative flux and forcing parameterization error in aerosolâ€free clear skies. Geophysical Research Letters, 2015, 42, 5485-5492.	1.5	57
20	Dynamics of Local Circulations in Mountainous Terrain during the RHUBC-II Project. Monthly Weather Review, 2013, 141, 3641-3656.	0.5	12
21	Influence of Ice Particle Surface Roughening on the Global Cloud Radiative Effect. Journals of the Atmospheric Sciences, 2013, 70, 2794-2807.	0.6	72
22	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. Atmospheric Chemistry and Physics, 2013, 13, 6687-6711.	1.9	107
23	Development and recent evaluation of the MT_CKD model of continuum absorption. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 2520-2556.	1.6	333
24	The Continual Intercomparison of Radiation Codes: Results from Phase I. Journal of Geophysical Research, 2012, 117, .	3.3	112
25	Impact of modifying the longwave water vapor continuum absorption model on community Earth system model simulations. Journal of Geophysical Research, 2012, 117, .	3.3	17
26	Groundâ€based high spectral resolution observations of the entire terrestrial spectrum under extremely dry conditions. Geophysical Research Letters, 2012, 39, .	1.5	24
27	Water Vapor Continuum Absorption in the Microwave. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 2194-2208.	2.7	62
28	The Radiative Heating in Underexplored Bands Campaigns. Bulletin of the American Meteorological Society, 2010, 91, 911-924.	1.7	61
29	A farâ€infrared radiative closure study in the Arctic: Application to water vapor. Journal of Geophysical Research, 2010, 115, .	3.3	62
30	Comparison of Ground-Based Millimeter-Wave Observations and Simulations in the Arctic Winter. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3098-3106.	2.7	31
31	Radiative forcing by longâ€lived greenhouse gases: Calculations with the AER radiative transfer models. Journal of Geophysical Research, 2008, 113, .	3.3	3,199
32	Improved Daytime Column-Integrated Precipitable Water Vapor from Vaisala Radiosonde Humidity Sensors. Journal of Atmospheric and Oceanic Technology, 2008, 25, 873-883.	0.5	86
33	Air-Broadened Half-Widths of the 22- and 183-GHz Water-Vapor Lines. IEEE Transactions on Geoscience and Remote Sensing, 2008, 46, 3601-3617.	2.7	71
34	The QME AERI LBLRTM: A Closure Experiment for Downwelling High Spectral Resolution Infrared Radiance. Journals of the Atmospheric Sciences, 2004, 61, 2657-2675.	0.6	107
35	Impact of an improved longwave radiation model, RRTM, on the energy budget and thermodynamic properties of the NCAR community climate model, CCM3. Journal of Geophysical Research, 2000, 105, 14873-14890.	3.3	352
36	Comparison of spectral direct and diffuse solar irradiance measurements and calculations for cloud-free conditions. Geophysical Research Letters, 2000, 27, 2653-2656.	1.5	55

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37	Downwelling spectral radiance observations at the SHEBA ice station: Water vapor continuum measurements from 17 to 26Î¼m. Journal of Geophysical Research, 1999, 104, 2081-2092.	3.3	114
38	Radiative transfer for inhomogeneous atmospheres: RRTM, a validated correlated-k model for the longwave. Journal of Geophysical Research, 1997, 102, 16663-16682.	3.3	6,209