

Vladimir P Solovjov

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

722
citations

623734

14
h-index

713466

21
g-index

24
all docs

24
docs citations

24
times ranked

150
citing authors

#	ARTICLE	IF	CITATIONS
1	SLW modeling of radiative transfer in multicomponent gas mixtures. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 655-672.	2.3	121
2	Efficient representation of the absorption line blackbody distribution function for H ₂ O, CO ₂ , and CO at variable temperature, mole fraction, and total pressure. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 138, 82-96.	2.3	91
3	An Efficient Method for Modeling Radiative Transfer in Multicomponent Gas Mixtures With Soot. Journal of Heat Transfer, 2001, 123, 450-457.	2.1	79
4	The rank correlated SLW model of gas radiation in non-uniform media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 197, 26-44.	2.3	57
5	A local-spectrum correlated model for radiative transfer in non-uniform gas media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2002, 73, 361-373.	2.3	38
6	Attenuation of solar radiation by a water mist from the ultraviolet to the infrared range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1182-1190.	2.3	38
7	The rank correlated FSK model for prediction of gas radiation in non-uniform media, and its relationship to the rank correlated SLW model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 214, 120-132.	2.3	38
8	Multilayer modeling of radiative transfer by SLW and CW methods in non-isothermal gaseous medium. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 245-257.	2.3	35
9	The SLW-1 model for efficient prediction of radiative transfer in high temperature gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1205-1212.	2.3	35
10	Effect of total pressure on the absorption line blackbody distribution function and radiative transfer in H ₂ O, CO ₂ , and CO. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 143, 100-110.	2.3	35
11	The cumulative wavenumber method for modeling radiative transfer in gas mixtures with soot. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 93, 273-287.	2.3	25
12	The spectral line weighted-sum-of-gray-gases (SLW) model for prediction of radiative transfer in molecular gases. Advances in Heat Transfer, 2019, , 207-298.	0.9	24
13	SLW-1 Modeling of Radiative Heat Transfer in Nonisothermal Nonhomogeneous Gas Mixtures With Soot. Journal of Heat Transfer, 2011, 133, .	2.1	18
14	An exploration of the influence of spectral model parameters on the accuracy of the rank correlated SLW model. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 218, 161-170.	2.3	15
15	The Generalized SLW Model. Journal of Physics: Conference Series, 2016, 676, 012022.	0.4	13
16	The Scaled SLW model of gas radiation in non-uniform media based on Planck-weighted moments of gas absorption cross-section. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 206, 198-212.	2.3	13
17	Locally correlated SLW model for prediction of gas radiation in non-uniform media and its relationship to other global methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 245, 106857.	2.3	13
18	Temperature Measurement Using Infrared Spectral Band Emissions From H ₂ O. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	11

#	ARTICLE	IF	CITATIONS
19	RADIATIVE TRANSFER MODEL PARAMETERS FOR CARBON MONOXIDE AT HIGH TEMPERATURE. , 1998, , .		7
20	Radiative Properties of Gases. , 2018, , 1069-1141.		6
21	The choice of optimal absorption coefficient in the Rank-Correlated SLW model for prediction of radiative transfer in high temperature gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 277, 107983.	2.3	3
22	Effect of ground-based environmental conditions on the level of dangerous ultraviolet solar radiation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 279, 108048.	2.3	3
23	The \tilde{I} -absorption line distribution function for rank correlated SLW model prediction of radiative transfer in non-uniform gases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2022, 280, 108081.	2.3	3
24	Radiative Properties of Gases. , 2017, , 1-74.		1