Zbigniew Sorbjan

List of Publications by Year
in descending order

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44	1,259	361413	377865
papers	citations	20 h-index	34 g-index

49	49	49	929
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Assessment of Gradient-Based Similarity Functions in the Stable Boundary Layer Derived from a Large-Eddy Simulation. Boundary-Layer Meteorology, 2017, 163, 375-392.	2.3	7
2	Similarity scaling systems for stably stratified turbulent flows. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 805-810.	2.7	9
3	Determination of Convective Boundary Layer Entrainment Fluxes, Dissipation Rates, and the Molecular Destruction of Variances: Theoretical Description and a Strategy for Its Confirmation with a Novel Lidar System Synergy. Journals of the Atmospheric Sciences, 2016, 73, 667-692.	1.7	53
4	Modelling of the Evolving Stable Boundary Layer. Boundary-Layer Meteorology, 2014, 151, 407-428.	2.3	6
5	Gradient-Based Similarity in the Stable Atmospheric Boundary Layer. GeoPlanet: Earth and Planetary Sciences, 2014, , 351-375.	0.2	4
6	Statistics of Turbulence in the Stable Boundary Layer Affected by Gravity Waves. Boundary-Layer Meteorology, 2013, 148, 73-91.	2.3	23
7	The Height Correction of Similarity Functions in the Stable Boundary Layer. Boundary-Layer Meteorology, 2012, 142, 21-31.	2.3	21
8	A Study of the Stable Boundary Layer Based on a Single-Column K-Theory Model. Boundary-Layer Meteorology, 2012, 142, 33-53.	2.3	13
9	An Evaluation of the Fluxâ€“Gradient Relationship in the Stable Boundary Layer. Boundary-Layer Meteorology, 2010, 135, 385-405.	2.3	81
10	Improving Non-local Parameterization of the Convective Boundary Layer. Boundary-Layer Meteorology, 2009, 130, 57-69.	2.3	8
11	Thermal structure of the atmospheric boundary layer on Mars based on Miniâ€TES observations. Quarterly Journal of the Royal Meteorological Society, 2009, 135, 1776-1787.	2.7	14
12	Local Scales of Turbulence in the Stable Boundary Layer. Boundary-Layer Meteorology, 2008, 127, 261-271.	2.3	9
13	Microstructure of Turbulence in the Stably Stratified Boundary Layer. Boundary-Layer Meteorology, 2008, 129, 191-210.	2.3	30
14	Gradient-based similarity in the atmospheric boundary layer. Acta Geophysica, 2008, 56, 220-233.	2.0	15
15	Statistics of shallow convection on Mars based on large-eddy simulations. Part 1: shearless conditions. Boundary-Layer Meteorology, 2007, 123, 121-142.	2.3	18
16	Statistics of shallow convection on Mars based on large-eddy simulations. Part 2: effects of wind shear. Boundary-Layer Meteorology, 2007, 123, 143-157.	2.3	7
17	A numerical study of daily transitions in the convective boundary layer. Boundary-Layer Meteorology, 2007, 123, 365-383.	2.3	28
18	Comments on 'Fluxâ€“gradient relationship, self-correlation and intermittency in the stable boundary layer'. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 1371-1373.	2.7	10

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19	Statistics of Scalar Fields in the Atmospheric Boundary Layer Based on Large-Eddy Simulations. Part II: Forced Convection. Boundary-Layer Meteorology, 2006, 119, 57-79.	2.3	23
20	Local Structure of Turbulence in Stably Stratified Boundary Layers. Journals of the Atmospheric Sciences, 2006, 63, 1526-1537.	1.7	55
21	Convective Structures in a Cold Air Outbreak over Lake Michigan during Lake-ICE. Journals of the Atmospheric Sciences, 2005, 62, 2414-2432.	1.7	13
22	Statistics of Scalar Fields in the Atmospheric Boundary Layer Based on Large-eddy Simulations. Part 1: Free Convection. Boundary-Layer Meteorology, 2005, 116, 467-486.	2.3	30
23	Large-Eddy Simulations of the Baroclinic Mixed Layer. Boundary-Layer Meteorology, 2004, 112, 57-80.	2.3	42
24	An Evaluation Of Local Similarity At The Top Of The Mixed Layer Based On Large-Eddy Simulations. Boundary-Layer Meteorology, 2001, 101, 183-207.	2.3	16
25	Similarity of Scalar Fields in the Convective Boundary Layer. Journals of the Atmospheric Sciences, 1999, 56, 2212-2221.	1.7	15
26	Large-eddy simulations of convective boundary layers using nonoscillatory differencing. Physica D: Nonlinear Phenomena, 1999, 133, 390-397.	2.8	118
27	DECAY OF CONVECTIVE TURBULENCE REVISITED. Boundary-Layer Meteorology, 1997, 82, 503-517.	2.3	82
28	Numerical Study of Penetrative and â€œSolid Lidâ€•Nonpenetrative Convective Boundary Layers. Journals of the Atmospheric Sciences, 1996, 53, 101-112.	1.7	56
29	Effects Caused by Varying the Strength of the Capping Inversion Based on a Large Eddy Simulation Model of the Shear-Free Convective Boundary Layer. Journals of the Atmospheric Sciences, 1996, 53, 2015-2024.	1.7	79
30	Toward Evaluation of Heat Fluxes in the Convective Boundary Layer. Journal of Applied Meteorology and Climatology, 1995, 34, 1092-1098.	1.7	19
31	Similarity scaling applied to sodar observations of the convective boundary layer above an irregular hill. Boundary-Layer Meteorology, 1991, 56, 33-50.	2.3	13
32	Evaluation of Local Similarity Functions in the Convective Boundary Layer. Journal of Applied Meteorology and Climatology, 1991, 30, 1565-1583.	1.7	32
33	Local similarity functions derived from second-moment budgets in the convective boundary layer. Boundary-Layer Meteorology, 1989, 46, 1-11.	2.3	3
34	Comments on ?the velocity spectra in the stable atmospheric boundary layer?. Boundary-Layer Meteorology, 1989, 48, 203-204.	2.3	0
35	On the temperature spectrum in the convective boundary layer. Boundary-Layer Meteorology, 1989, 47, 195-203.	2.3	3
36	Local similarity in the convective boundary layer (CBL). Boundary-Layer Meteorology, 1988, 45, 237-250.	2.3	27

#	Article	IF	Citations
37	Structure of the stably-stratified boundary layer during the SESAME-1979 experiment. Boundary-Layer Meteorology, 1988, 44, 255-266.	2.3	28
38	Comments on ?scaling the atmospheric boundary layer?. Boundary-Layer Meteorology, 1987, 38, 411-413.	2.3	8
39	An examination of local similarity theory in the stably stratified boundary layer. Boundary-Layer Meteorology, 1987, 38, 63-71.	2.3	20
40	On the vertical distribution of passive species in the atmospheric boundary layer. Boundary-Layer Meteorology, 1986, 35, 73-81.	2.3	10
41	On similarity in the atmospheric boundary layer. Boundary-Layer Meteorology, 1986, 34, 377-397.	2.3	131
42	Local similarity of spectral and cospectral characteristics in the stable-continuous boundary layer. Boundary-Layer Meteorology, 1986, 35, 257-275.	2.3	34
43	A Model Study of the Stably Stratified Steady-State Atmospheric Boundary Layer over a Slightly Inclined Terrain. Journals of the Atmospheric Sciences, 1984, 41, 1863-1874.	1.7	10
44	Some numerical urban boundary-layer studies. Boundary-Layer Meteorology, 1982, 22, 481-502.	2.3	30