Kay Suselj

List of Publications by Year
in descending order

27 papers	925 citations	687363 13 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	1072 citing authors

#	Article	IF	Citations
1	Coupling Warm Rain With an Eddy Diffusivity/Mass Flux Parameterization: 2. Sensitivities and Comparison to Observations. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	4
2	Coupling Warm Rain With an Eddy Diffusivity/Mass Flux Parameterization: 1. Model Description and Validation. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	6
3	Improving the Representation of Subtropical Boundary Layer Clouds in the NASA GEOS Model with the Eddy-Diffusivity/Mass-Flux Parameterization. Monthly Weather Review, 2021, 149, 793-809.	1.4	6
4	On the Parameterization of Convective Downdrafts for Marine Stratocumulus Clouds. Monthly Weather Review, 2020, 148, 1931-1950.	1.4	15
5	The Strong Impact of Weak Horizontal Convergence on Continental Shallow Convection. Journals of the Atmospheric Sciences, 2020, 77, 3119-3137.	1.7	5
6	A New Methodology for Observation-Based Parameterization Development. Monthly Weather Review, 2020, 148, 4159-4184.	1.4	7
7	Towards Unifying the Planetary Boundary Layer and Shallow Convection in CAM5 with the Eddy-Diffusivity/Mass-Flux Approach. Atmosphere, 2019, 10, 484.	2.3	7
8	A Novel Framework for Evaluating and Improving Parameterized Subtropical Marine Boundary Layer Cloudiness. Monthly Weather Review, 2019, 147, 3241-3260.	1.4	6
9	A Unified Eddy-Diffusivity/Mass-Flux Approach for Modeling Atmospheric Convection. Journals of the Atmospheric Sciences, 2019, 76, 2505-2537.	1.7	36
10	Is Shallow Convection Sensitive to Environmental Heterogeneities?. Geophysical Research Letters, 2019, 46, 1785-1793.	4.0	13
11	On the Factors Controlling the Development of Shallow Convection in Eddy-Diffusivity/Mass-Flux Models. Journals of the Atmospheric Sciences, 2019, 76, 433-456.	1.7	22
12	Shallow-to-Deep Transition of Continental Moist Convection: Cold Pools, Surface Fluxes, and Mesoscale Organization. Journals of the Atmospheric Sciences, 2018, 75, 4071-4090.	1.7	35
13	Shallow Cumulus in WRF Parameterizations Evaluated against LASSO Large-Eddy Simulations. Monthly Weather Review, 2018, 146, 4303-4322.	1.4	36
14	Analyses of Shallow Convection over the Amazon Coastal Region Using Satellite Images, Data Observations and Modeling. Revista Brasileira De Meteorologia, 2018, 33, 366-379.	0.5	0
15	Parameterization Interactions in Global Aquaplanet Simulations. Journal of Advances in Modeling Earth Systems, 2018, 10, 403-420.	3.8	9
16	On the Dependence of Cloud Feedbacks on Physical Parameterizations in WRF Aquaplanet Simulations. Geophysical Research Letters, 2017, 44, 10,762.	4.0	14
17	Analysis of collocated AIRS and MODIS data: a global investigation of correlations between clouds and atmosphere in 2004â€“2012. International Journal of Remote Sensing, 2016, 37, 2524-2540.	2.9	2
18	Implementation of a Stochastic Eddy-Diffusivity/Mass-Flux Parameterization into the Navy Global Environmental Model. Weather and Forecasting, 2014, 29, 1374-1390.	1.4	38

#	Article	IF	Citations
19	Atmospheric parameters in a subtropical cloud regime transition derived by AIRS and MODIS: observed statistical variability compared to ERA-Interim. Atmospheric Chemistry and Physics, 2014, 14, 3573-3587.	4.9	11
20	A Unified Model for Moist Convective Boundary Layers Based on a Stochastic Eddy-Diffusivity/Mass-Flux Parameterization. Journals of the Atmospheric Sciences, 2013, 70, 1929-1953.	1.7	98
21	Transitions of cloudâ€topped marine boundary layers characterized by AIRS, MODIS, and a large eddy simulation model. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8598-8611.	3.3	9
22	Eddy Diffusivity/Mass Flux and Shallow Cumulus Boundary Layer: An Updraft PDF Multiple Mass Flux Scheme. Journals of the Atmospheric Sciences, 2012, 69, 1513-1533.	1.7	52
23	A Global View on the Wind Sea and Swell Climate and Variability from ERA-40. Journal of Climate, 2011, 24, 1461-1479.	3.2	366
24	North Sea near-surface wind climate and its relation to the large-scale circulation patterns. Theoretical and Applied Climatology, 2010, 99, 403-419.	2.8	20
25	Improving the Mellorâ€“Yamadaâ€“JanjiÄ‡ Parameterization for wind conditions in the marine planetary boundary layer. Boundary-Layer Meteorology, 2010, 136, 301-324.	2.3	31
26	Is the Mediterranean Sea surface height variability predictable?. Physics and Chemistry of the Earth, 2008, 33, 225-238.	2.9	8
27	Precipitation forecasts and their uncertainty as input into hydrological models. Hydrology and Earth System Sciences, 2005, 9, 322-332.	4.9	69