

Lista de lucrări

Candidat: Dr. Cristian-Valer Vraciu

1. Vraciu, Cristian V. "Generalized eddy-diffusivity mass-flux formulation for the parametrization of atmospheric convection and turbulence." Quarterly Journal of the Royal Meteorological Society **150**: 2316-2337 (2024).
2. Vraciu, Cristian V. "In what conditions an urban heat island can initiate deep convection? Theoretical estimations." Theoretical and Applied Climatology **155**: 567-579 (2024).
3. Vraciu, Cristian V., Irene L. Kruse, and Jan O. Haerter. "The role of passive cloud volumes in the transition from shallow to deep atmospheric convection." Geophysical Research Letters **50**: e2023GL105996 (2023).
4. Marin, Andrei, and Cristian V. Vraciu. "Why the turbulent buoyant plumes evolve to round cross sections? A 'Constructal' view." International Communications in Heat and Mass Transfer **146**: 106947 (2023).
5. Vraciu, Cristian V. "On the energy-consistent plume model in the convective boundary layer." Dynamics of Atmospheres and Oceans **100**: 101330 (2022).
6. Vraciu, Cristian V. "On the analytical solution for two-dimensional convective plume and analytical modeling of the entrainment zone thickness." Dynamics of Atmospheres and Oceans **93**: 101191 (2021).
7. Vraciu, Cristian V. "A model for convective updraft velocity in the atmospheric boundary layer based on analytical results and sailplane flights data." Romanian Reports in Physics **73**: 704 (2021).
8. Vraciu, Cristian V., and Rares Iovanescu. "Convective flow of nanofluid round plumes in the presence of magnetic field." Romanian Journal of Physics **66**: 111 (2021).
9. Vraciu, Cristian V., Dan Dobrovolschi, and Emanuela Boicu. "A theoretical study of the influence of urban surfaces on the convective rolls dynamics." Theoretical and Applied Climatology **144**: 571-580 (2021).
10. Vraciu, Cristian V. "A possible explanation for the convective rolls formation in the atmospheric boundary layer." Romanian Journal of Physics **66**: 803 (2021).
11. Vraciu, Cristian V. "An analytical model for thermal convection and convective rolls with a linear eddy viscosity." Theoretical and Applied Climatology **141**: 841-855 (2020).