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In this paper we propose the notion of cluster superalgebras which is a supersymmetric version of the classical cluster algebras introduced by Fomin and Zelevinsky. We show that the symplectic-orthogonal superalgebra  $SpO(2|1)$  admits a cluster superalgebra structure and as a consequence of this, we also deduce that the supercommutative superalgebra generated by all the entries of a superfrieze is a cluster superalgebra. We also discuss some basic properties of cluster superalgebras and observe their similarities and differences with the classical set up. (Received August 25, 2017)