

C. Z. Jia, H. M. Liu and T. M. Wang  
*q*-analogs of generalized Fibonacci and Lucas polynomials,  
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**Abstract**

The Fibonacci operator approach inspired by Andrews (2004) is explored to investigate *q*-analogs of the generalized Fibonacci and Lucas polynomials introduced by Chu and Vicenti (2003). Their generating functions are compactly expressed in terms of Fibonacci operator fractions. A determinant evaluation on *q*-binomial coefficients is also established which extends a recent result of Sun (2005).