

Tsumura, Hirofumi**On modification of the q - L -series and its applications.** (English) [Zbl 1025.11030](#)
Nagoya Math. J. 164, 185-197 (2001).

In an earlier paper [Proc. Japan Acad., Ser. A 75, 23–25 (1999; [Zbl 0931.11031](#))] the author introduced a version of the q -Riemann ζ -function. Now he extends his results introducing and studying the q -Hurwitz ζ -function and q - L -series (for another approach see *J. Satoh* [J. Number Theory 31, 346–362 (1989; [Zbl 0675.12010](#))]). For $q \rightarrow 1$, some relations for the ordinary Dirichlet L -series are obtained. In particular, a new proof is given for Katsurada's formula for the values of the Dirichlet L -series at positive integers [*M. Katsurada*, Acta Arith. 90, 79–89 (1999; [Zbl 0933.11042](#))].

Reviewer: [Anatoly N.Kochubei \(Kyiv\)](#)**MSC:**

[11M41](#) Other Dirichlet series and zeta functions
[11B68](#) Bernoulli and Euler numbers and polynomials
[05A30](#) q -calculus and related topics

Cited in **3** Documents**Keywords:**Dirichlet series; q -zeta function; q -Bernoulli numbers; q - L -series**Full Text:** [DOI](#)