

**Banaru, M.**

**On minimality of a Sasakian hypersurface in a  $W_3$ -manifold.** (English) Zbl 1052.53045  
Saitama Math. J. 20, 1-7 (2002).

The main theorem of the paper is: Let  $N$  be a Sasakian hypersurface in a special Hermitian manifold  $M^{2n}$  and let  $\sigma$  be the second fundamental form of the immersion of  $N$  into  $M^{2n}$ . Then  $N$  is a minimal submanifold of  $M^{2n}$  if and only if  $\sigma(\xi, \xi) = 0$ , with  $\xi$  being the vector field defining the almost contact metric structure on  $N$  induced by the almost Hermitian structure on  $M^{2n}$ .

Reviewer: [Andrzej Piatkowski \(Łódź\)](#)

**MSC:**

[53C40](#) Global submanifolds

[53C15](#) General geometric structures on manifolds (almost complex, almost product structures, etc.)

Cited in **7** Documents

**Keywords:**

[almost contact metric structure](#); [Sasakian manifold](#); [special Hermitian manifold](#)