

1138-05-239

Jie Zhang* (zhangjie.sjtu@163.com). *Wiener index, degrees, and segments in trees.*

Wiener index is probably one of the most well known chemical indices. The extremal problems with respect to Wiener index has been extensively studied for various structures including trees with a given degree sequence or segment sequence. We will consider analogous questions on maximizing or minimizing the Wiener index among trees with a given degree sequence and a segment sequence. The question and its (partial) solution is sometimes very similar to existing work, and sometimes very different. (Received February 10, 2018)