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This paper explores the hazards of road traffic noise on the community and to propose strategies to mitigate its adverse effects. In order to understand the hazards of road traffic noise on communities, the significant impacts of traffic noise on the physical and mental health and daily life of residents are summarized. The study compares a variety of methods and tools for quantifying noise impacts, and analyzes how these factors affect people's perceived level of noise annoyance from the perspectives of noise source characteristics, individual sensitivity, and non-acoustic factors such as house orientation. In addition, a series of related interventions are summarized, aiming to provide an empirical basis and feasible recommendations for future community noise research and practice.

**Key words:** annoyance, community response, noise, road traffic noise

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