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1 **A review on engineering of cellulosic cigarette paper to reduce carbon monoxide**
2 **delivery of cigarettes**

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11 **ABSTRACT**

12 In cigarette production, the cellulosic paper essentially derived from flax fibers or
13 other fiber materials is used as the wrapping material. During smoking of cigarettes,
14 the highly toxic carbon monoxide is produced. To decrease the amount of carbon
15 monoxide emission in the mainstream smoke, the engineering of all cigarette
16 components including cellulosic cigarette paper and tobacco column is critical. This
17 review summarizes the concepts related to engineering of cigarette paper. These
18 mainly include permeability control, increased use of burn additives, optimization of
19 fiber basis weight, engineering of calcium carbonate fillers, incorporation of

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