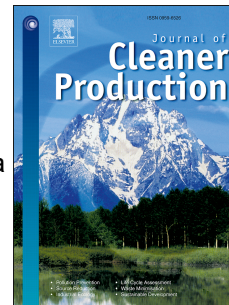


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Manufacturing industrial structure and pollutant emission: An empirical study of China

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1 **Manufacturing industrial structure and pollutant** 2 **emission: An empirical study of China**

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6 **Highlights**

- 7 ➤ Negative correlation between industrial concentration and pollutants was
8 clarified.
- 9 ➤ Inverted pyramid sharply reflects the relationship between firm size and
10 pollutant emissions.
- 11 ➤ Unified market environment prevents pollution transfer in structure upgrade
12 process.

13 **Abstract**

14 This paper describes the relationship between industrial structure and pollutant
15 emissions in a rapidly developing manufacturing-dominated city in China. Using
16 detailed firm survey data, we observed several characteristics in the relationship:
17 Pareto distribution of output value and pollutant emissions by divisions, groups and
18 classes, increased industrial concentration, larger firms and lower pollutant emissions.
19 A negative correlation between industrial concentration and pollutant emission is
20 found, clarified by an analysis of firm size and pollution emissions at the group and
21 class level. Based on the data analysis, this work suggests that upgrade and
22 improvement of industrial structure conducive to the reduction of polluting emissions
23 can only be successful in a unified and strict legal market environment.

24 **Keyword**

25 industrial structure; manufacturing; HHI; pollutant emission; China; Pareto
26 distribution

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