

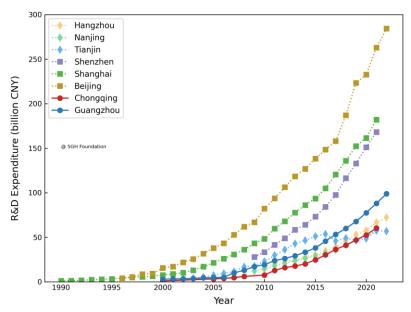


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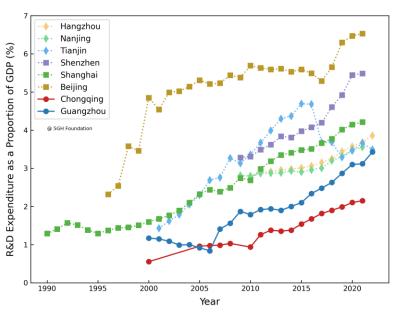
## **R&D Expenditure in Top Chinese Cities**

According to the data from Statistics Bureau, the R&D expenditure in Chinese cities grew remarkably in recent years. R&D expenditure in Beijing reached 262.93 billion CNY in 2021, ranking top 1 in China, followed by Shanghai (181.98 billion CNY), and Shenzhen (168.22 billion CNY).

## **R&D** Expenditure

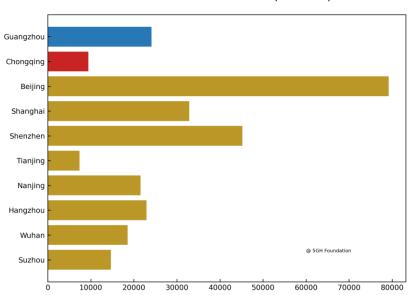


The ratio of R&D expenditure to gross domestic product also increased in top Chinese cities. In 2021, Beijing had the highest ratio about 6.53%, followed by Shenzhen (5.49%), and Shanghai (4.21%).



R&D Expenditure as a Proportion of GDP

Other Chinese cities with top R&D expenditure were Guangzhou (98.84 billion CNY in 2022), Hangzhou (72.30 billion CNY in 2022), Nanjing (57.88 billion CNY in 2021), and Tianjin (56.87 billion CNY in 2021).



Numbers of Invention Patents (Granted)

These cities also had high granted invention patent numbers. The number in Beijing reached 79210 in 2021, followed by Shenzhen (45202) and Shanghai (32860).