



Xi'an, China

Xi'an is the seventh-ranked cluster, out of 24 Chinese clusters, that falls within the top 100 S&T clusters in 2023. It filed **284 PCT applications** and published **13,819 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

19th largest science and technology cluster in 2023 (up two spots from 2022)

35th S&T cluster by intensity (relative to population density) in 2023 (up six spots from 2022)

Top PCT applicants

| | | Patents | Share |
|---|--|---------|-------|
| 1 | Xi'an Jiaotong University | 184 | 10% |
| 2 | Shaanxi Light Optoelectronics Material | 92 | 5% |
| 3 | Xi'an Thermal Power Research Institute | 88 | 5% |

Top publishing organizations

| | | Articles | Share |
|---|---------------------------------------|----------|-------|
| 1 | Xi'an Jiaotong University | 22,495 | 26% |
| 2 | Northwestern Polytechnical University | 12,696 | 15% |
| 3 | Xidian University | 8,283 | 10% |

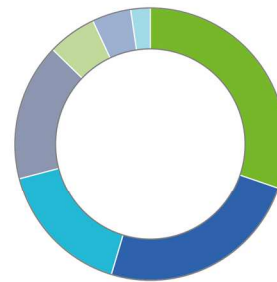
Top technology fields in Xi'an

Patents



| | |
|---------------------------|-------------------------|
| Medical tech. (13%) | Digital coms. (7%) |
| Computer tech. (10%) | Audio-visual tech. (5%) |
| Measurement (7%) | Semiconductors (5%) |
| Electrical machinery (7%) | |

Publications



| | |
|----------------------|--------------------------|
| Engineering (26%) | Earth sciences (5%) |
| Chemistry (21%) | Biochem. & biotech. (4%) |
| Technology (14%) | Clinical medicine (2%) |
| Physics & math (14%) | |

16% of Xi'an's PCT patent applications are filed in collaboration with other inventors, with **Shenzhen-Hong Kong-Guangzhou, Beijing** and **Shanghai-Suzhou** emerging as the top collaborative locations.

52% of Xi'an's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Beijing, Shenzhen-Hong Kong-Guangzhou** and **Shanghai-Suzhou**.