

# Global Innovation Index 2023



## Qingdao, China

Qingdao is the eighth-ranked cluster, out of 24 Chinese clusters, that falls within the top 100 S&T clusters in 2023. It filed **1,492 PCT applications** and published **8,139 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

**23<sup>rd</sup>** largest science and technology cluster in 2023 (up six spots from 2022)

**31<sup>st</sup>** S&T cluster by intensity (relative to population density) in 2023 (up seven spots from 2022)

### Top PCT applicants

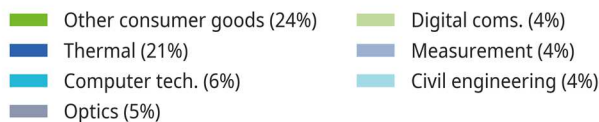
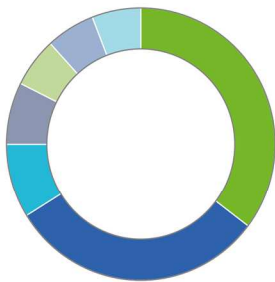
		Patents	Share
1	Qingdao Haier Air Conditioner General	1,504	21%
2	Qingdao Haier Washing Machine	1,164	16%
3	Qingdao Haier Refrigerator	385	5%

### Top publishing organizations

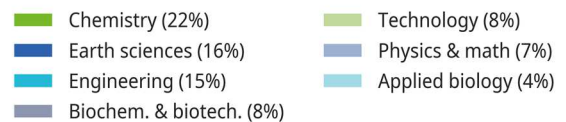
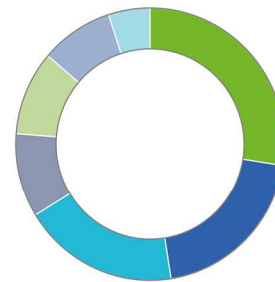
		Articles	Share
1	Qingdao University	6,330	16%
2	Ocean University of China	5,930	15%
3	China University of Petroleum	5,765	15%

### Top technology fields in Qingdao

Patents



Publications



**2%** of Qingdao's PCT patent applications are filed in collaboration with other inventors, with **Beijing, Tokyo-Yokohama** and **Xuzhou** emerging as the top collaborative locations.

**62%** of Qingdao's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Beijing, Shanghai-Suzhou** and **Jinan**.