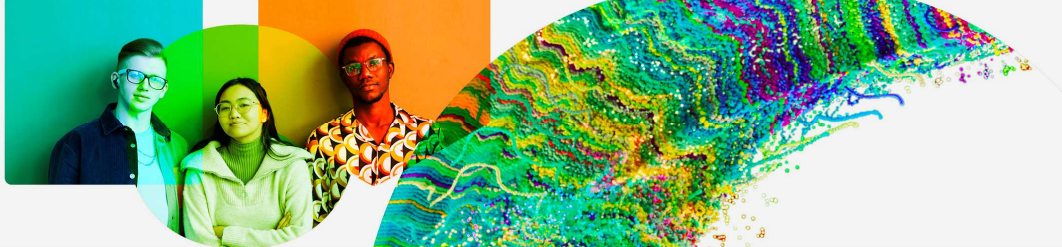


Global Innovation Index 2024



Macao SAR–Zhuhai, China

Macao SAR–Zhuhai is the twenty-sixth-ranked cluster, out of 26 Chinese clusters, that falls within the top 100 S&T clusters in 2024. It filed **994 PCT applications** and published **1,263 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

100th largest science and technology cluster in 2024

82nd S&T cluster by intensity (relative to population density) in 2024

Top PCT applicants

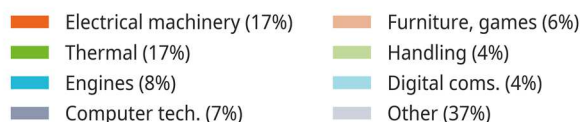
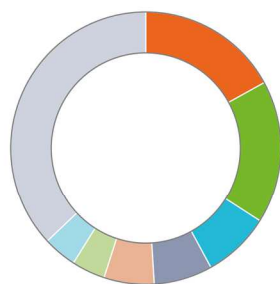
		Patents	Share
1	GREE ELECTRIC APPLIANCES	1,367	44%
2	GREE ELECTRIC APPLIANCES (WUHAN) CO., LTD	219	7%
3	ZHUHAI COSMX BATTERY CO., LTD	202	7%

Top publishing organizations

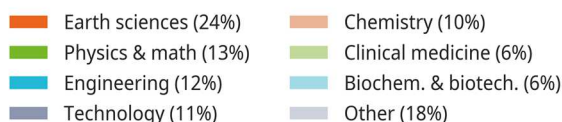
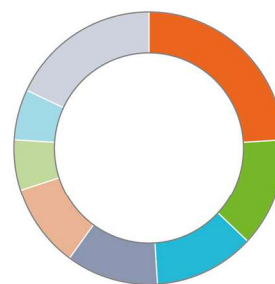
		Articles	Share
1	SUN YAT SEN UNIVERSITY	1,922	49%
2	SOUTHERN MARINE SCI & ENGN GUANGDONG LAB ZHUHAI	335	9%
3	JINAN UNIVERSITY	234	6%

Top technology fields in Macao SAR–Zhuhai

Patents



Publications



3% of Macao SAR–Zhuhai's PCT patent applications are filed in collaboration with other inventors, with **Shenzhen–Hong Kong–Guangzhou**, **Shanghai–Suzhou** and **Zhengzhou** emerging as the top collaborative locations.

88% of Macao SAR–Zhuhai's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Shenzhen–Hong Kong–Guangzhou**, **Beijing** and **Shanghai–Suzhou**.