



Istanbul, Turkey

Istanbul is the top-ranked cluster, out of 2 Turkish clusters, that falls within the top 100 S&T clusters in 2023. It filed **169 PCT applications** and published **2,066 scientific articles**, both per 1 million inhabitants over the last five years, making it the:

59th largest science and technology cluster in 2023 (down twelve spots from 2022)

95th S&T cluster by intensity (relative to population density) in 2023 (unchanged from 2022)

Top PCT applicants

		Patents	Share
1	Sanovel Ilac Sanayi Ve Ticaret A.S.	116	5%
2	Arcelik	109	5%
3	Turkcell Teknoloji Arastirma & Gelistirme Anonim Sirketi	95	4%

Top publishing organizations

		Articles	Share
1	Istanbul University	2,736	10%
2	Istanbul Technical University	2,397	9%
3	Yildiz Technical University	2,267	9%

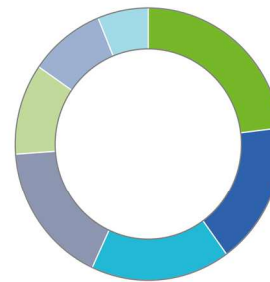
Top technology fields in Istanbul

Patents



Pharma (15%)	Digital coms. (6%)
Medical tech. (11%)	Computer tech. (5%)
IT methods (6%)	Furniture, games (5%)
Other consumer goods (6%)	

Publications



Surgery (15%)	Technology (7%)
Chemistry (11%)	Physics & math (6%)
Engineering (11%)	Fundamental biology (4%)
Clinical medicine (11%)	

5% of Istanbul's PCT patent applications are filed in collaboration with other inventors, with **Ankara**, **Tokyo–Yokohama** and **Munich** emerging as the top collaborative locations.

31% of Istanbul's scientific articles are published in collaboration with other organizations, with the top three collaborating locations being **Ankara**, **London** and **Boston–Cambridge**.