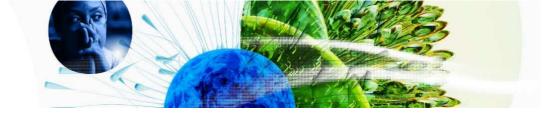
## Global Innovation Index 2023



## Changchun, China

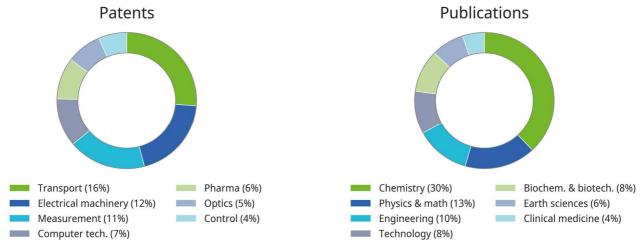
Changchun is the sixteenth-ranked cluster, out of 24 Chinese clusters, that falls within the top 100 S&T clusters in 2023. It filed 104 PCT applications and published 10,294 scientific articles, both per 1 million inhabitants over the last five years, making it the:

58<sup>th</sup> largest science and technology cluster in 2023 (up five spots from 2022)

55<sup>th</sup> S&T cluster by intensity (relative to population density) in 2023 (up five spots from 2022)

Top PCT applicants				Top publishing organizations	
		Patents	Share	Articles	Share
1	Crrc Changchun Railway Vehicles Co., Ltd.	86	23%	1 Jilin University 21,334	57%
2	Jilin University	37	10%	Northeast Normal University - 3,535 China	9%
3	Ciomp	31	8%	Changchun Institute of Applied Chemistry, Cas 2,495	7%

## Top technology fields in Changchun



19% of Changchun's PCT patent applications are filed in collaboration with other inventors, with Beijing, Shenzhen-Hong Kong-Guangzhou and Shanghai-Suzhou emerging as the top collaborative locations.

51% of Changchun'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.