



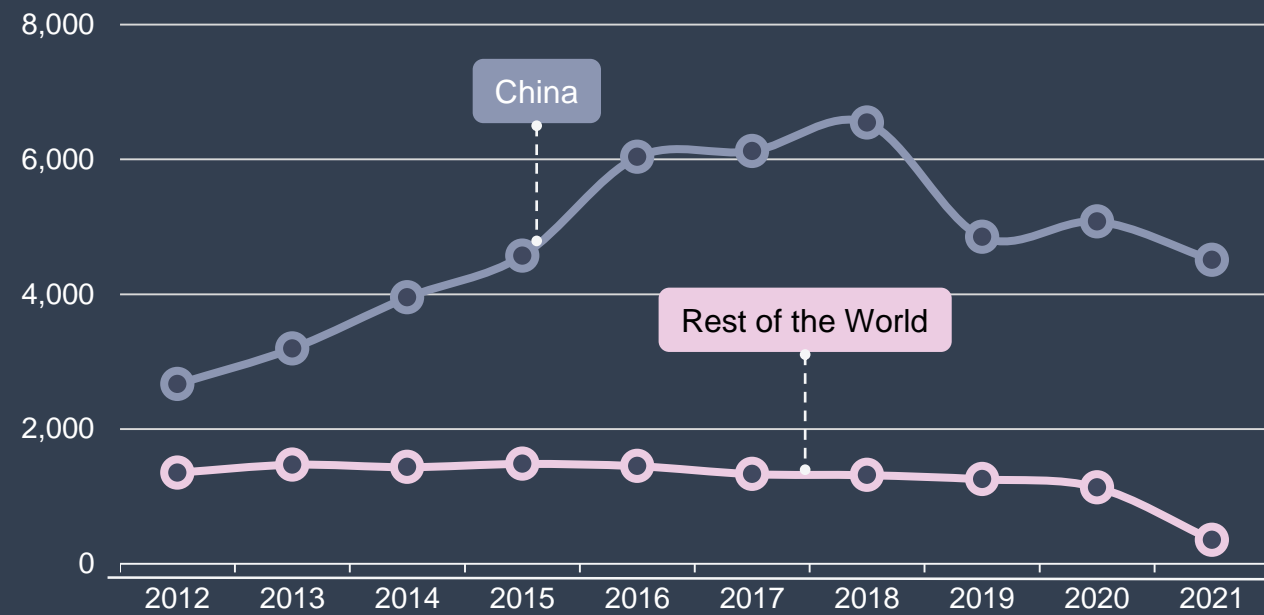
Patent Landscape

Graphite and its applications

Graphite is an indispensable material in a variety of applications owing to its excellent electrical and thermal conductivity, good chemical stability and corrosion resistance. A patent landscape graphite is shown here, based on relevant patent applications filed from 2012 to 2021.

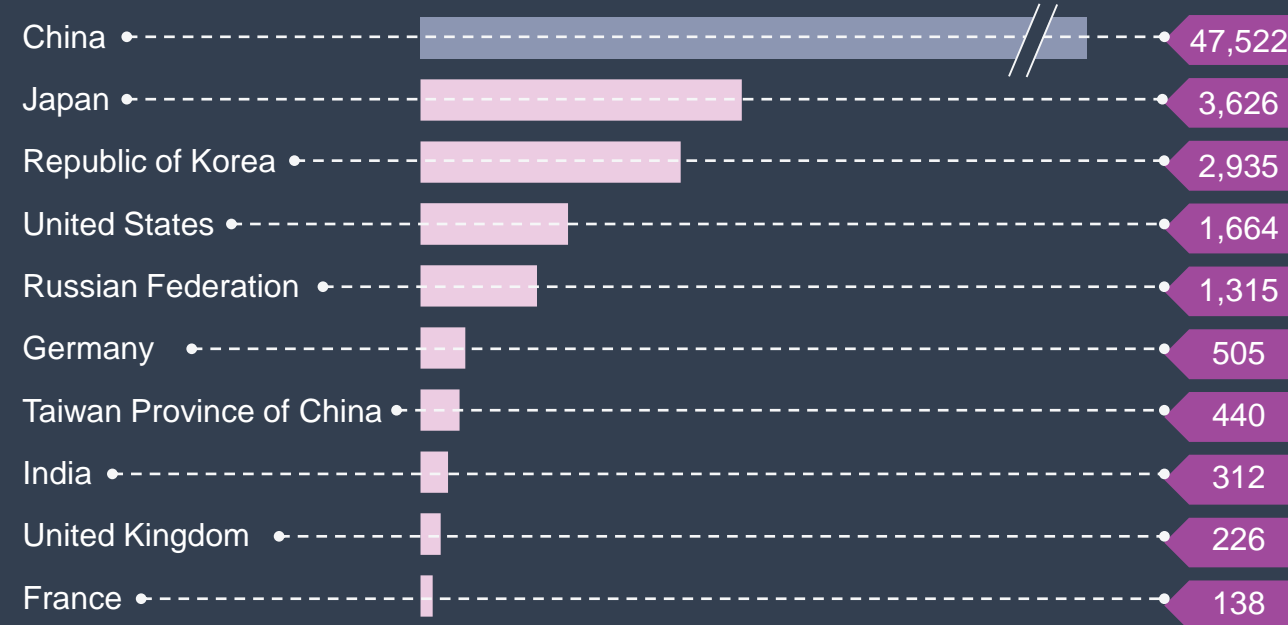
China dominated patent filings, with more than 47,000 patent families

Comparison of graphite-related patent families filed in China and rest of the world, by earliest priority year, 2012–2021.



Besides China, inventions have been concentrated in just a few other geographical regions.

Graphite-related patent families for the top 10 origins, by earliest priority year, 2012–2021.



Patent families on graphite processing

Flake graphite and artificial graphite were the two preferred primary graphite sources. Exfoliation techniques for bulk graphite processing are well-established. Battery applications were a key driver, and will continue sustaining global graphite-related innovation.

