

5th HVM New Materials Conference Summit
Cambridge, UK 6-7 November 2019

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IPR challenges for materials innovations

Mash-Hud Iqbal

Marks & Clerk

06 November 2019

A little about Marks & Clerk...



- Largest UK firm of patent / trade mark attorneys
- Regional offices throughout UK:
 - Cambridge / Manchester
 - London / Oxford / Birmingham
 - Scotland (Glasgow, Edinburgh, Aberdeen)
- Global presence:
 - Beijing, Hong Kong
 - Canada, Europe, Asia-Pacific



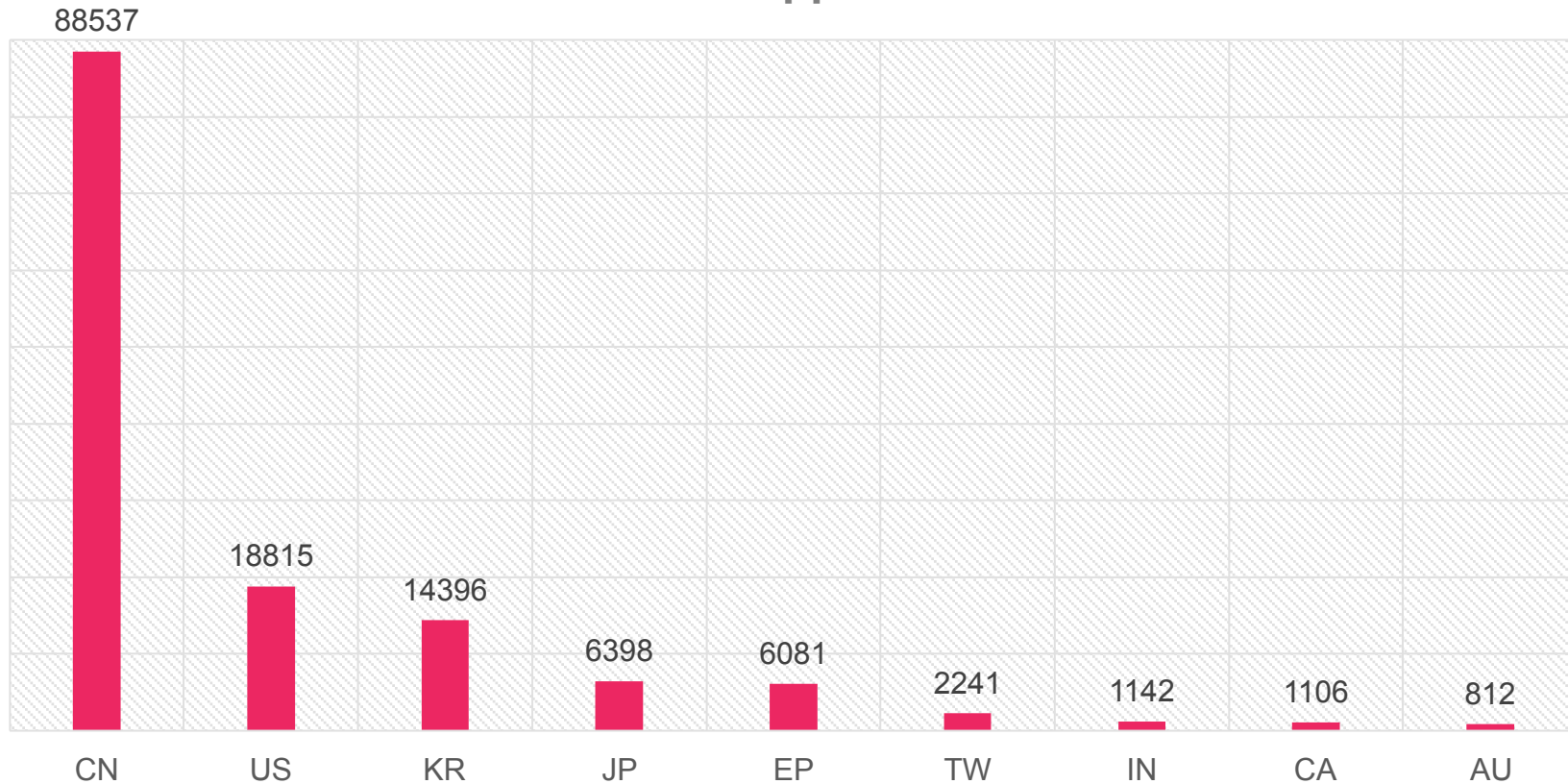
Innovation materials

- Graphene
- Gallium Nitride
- Hexagonal Boron Nitride
- Molybdenum Disulfide
- Perovskite

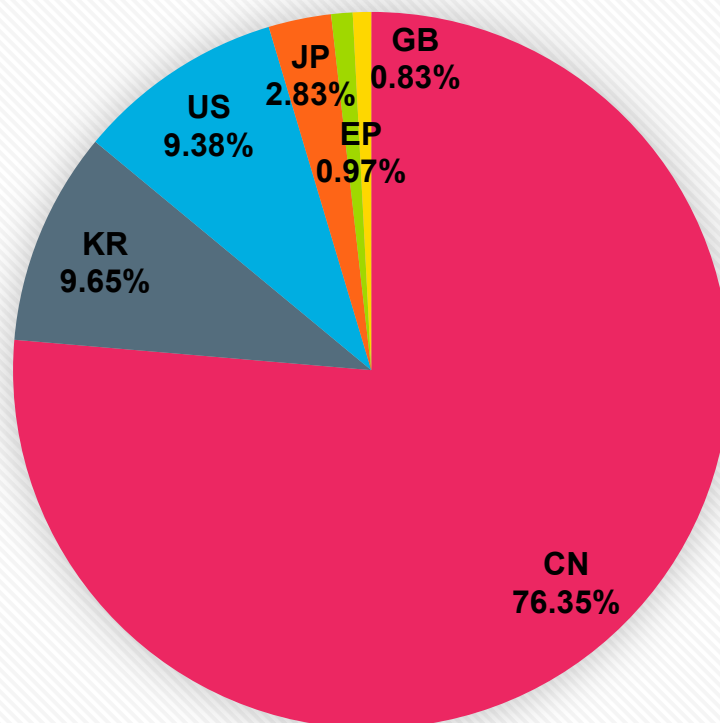


The Worldwide Patent Landscape (2008 – 2019) - Graphene

Number of Patents / Applications 2008 - 2019

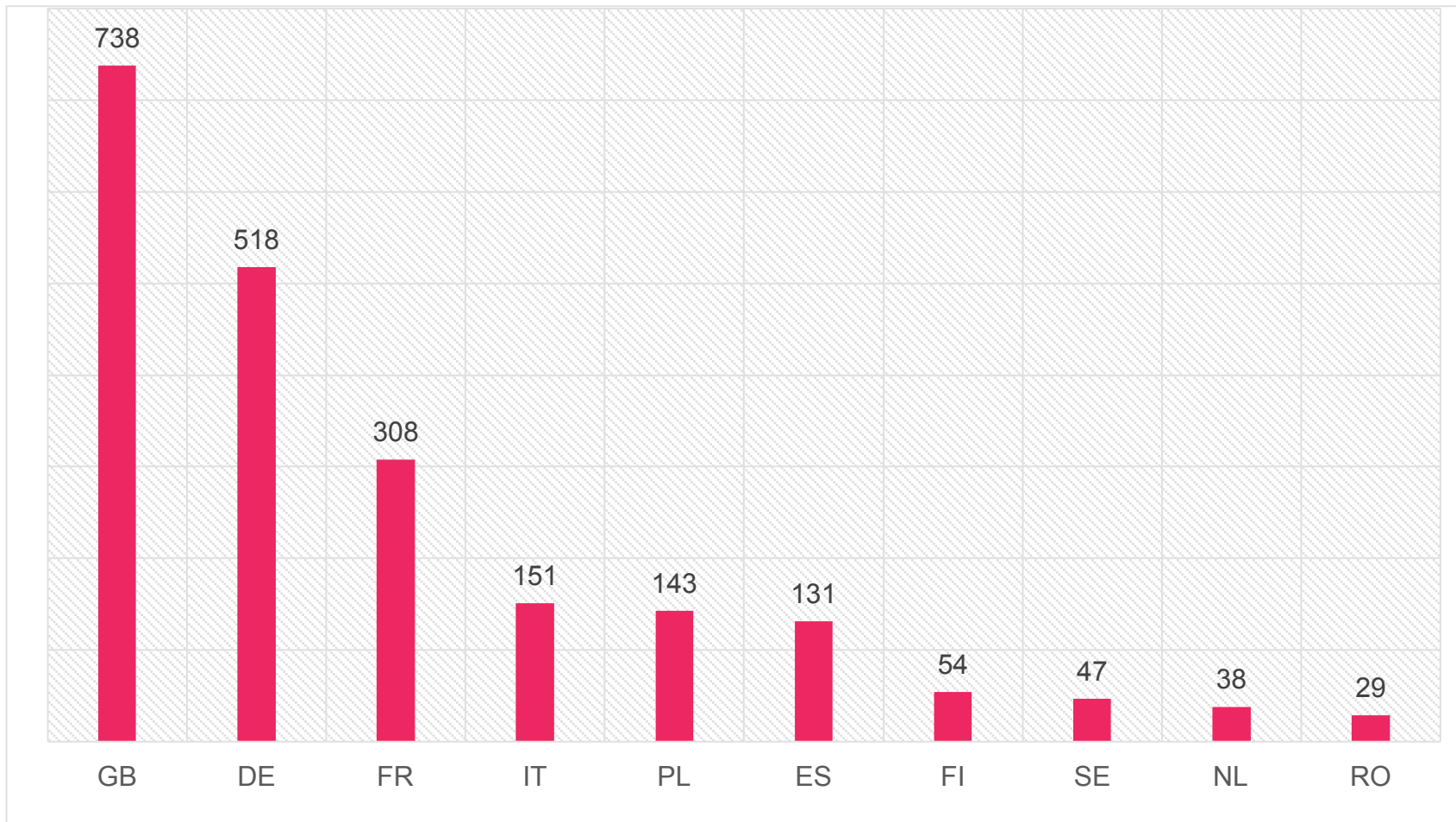


Geographic distribution of applicants for patents in the field of Graphene

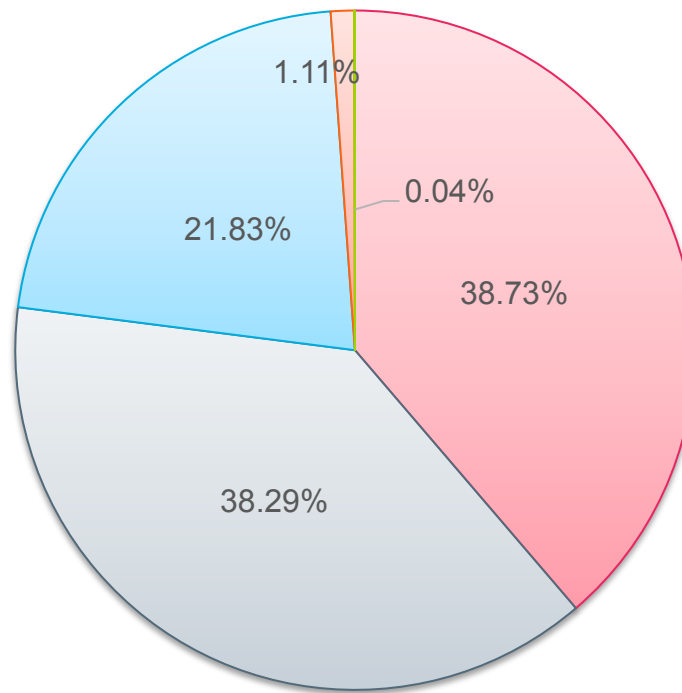


■ CN ■ KR ■ US ■ JP ■ EP ■ GB

Looking into European filings on Graphene



Number of European national patent office first-filings for graphene - related technologies

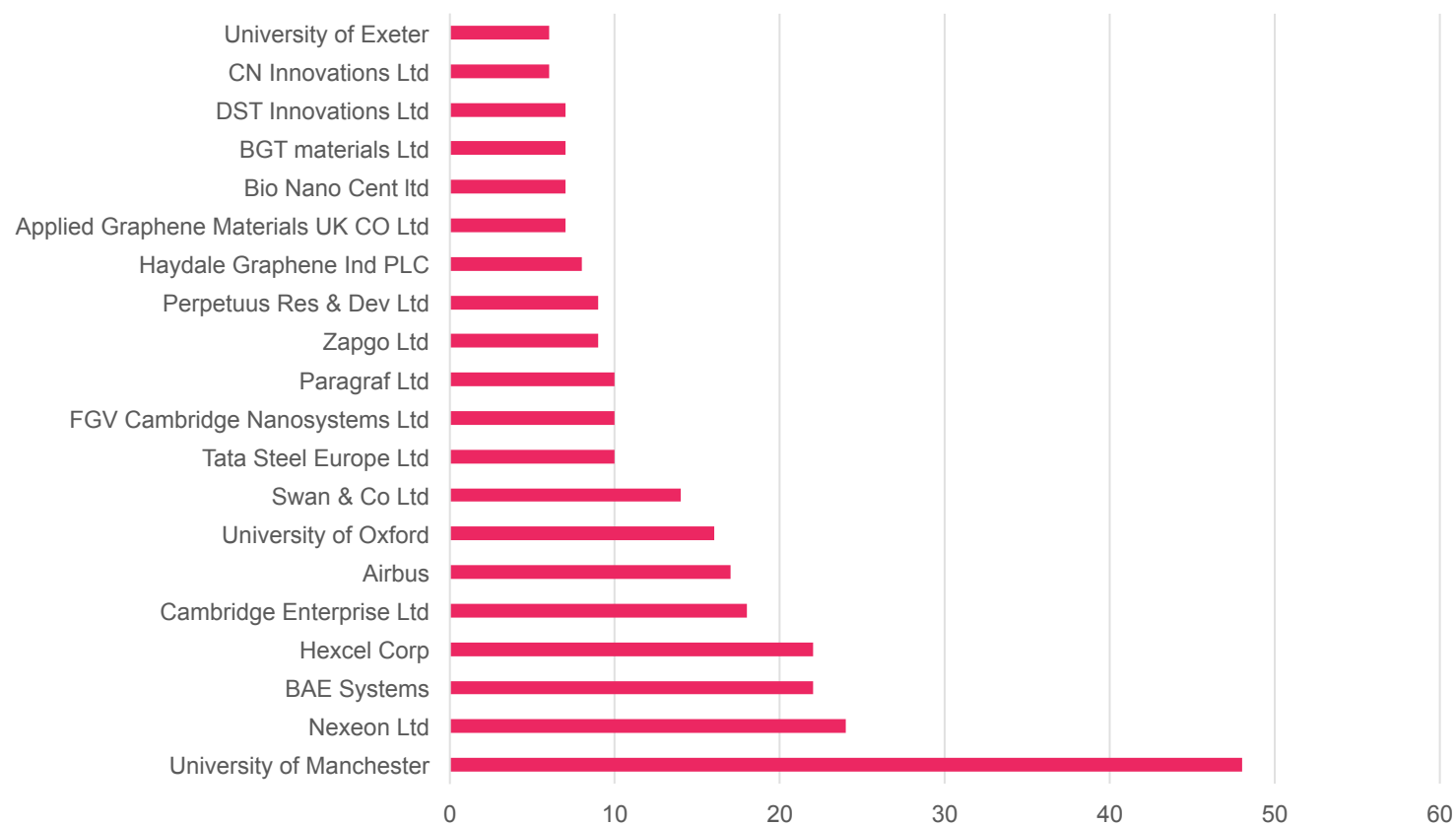


■ Chem/Pharma ■ Electronics ■ Mechanical ■ Med tech ■ Automotive

The top filers of graphene - related patent applications in the UK



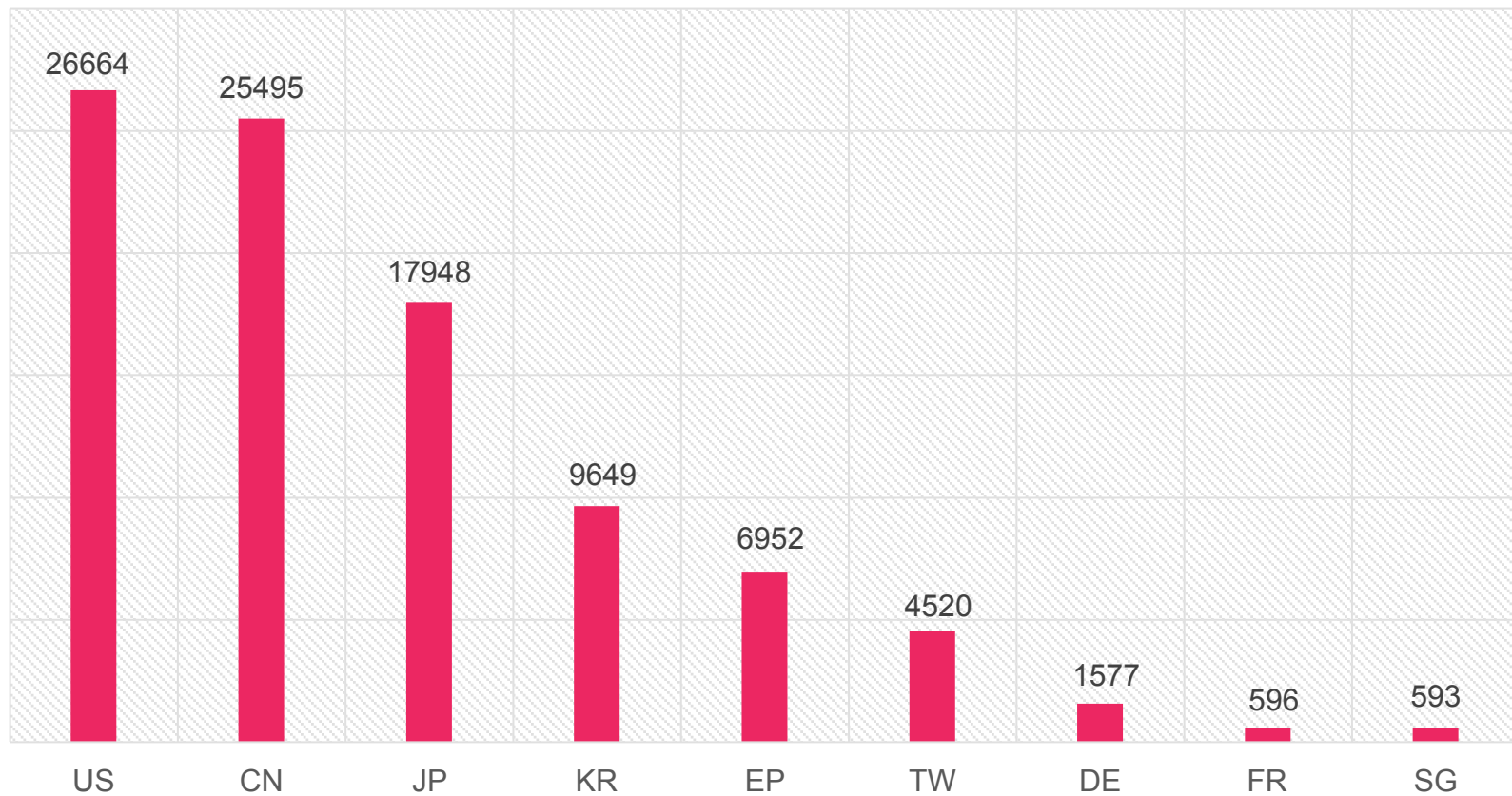
Number of patents / applications



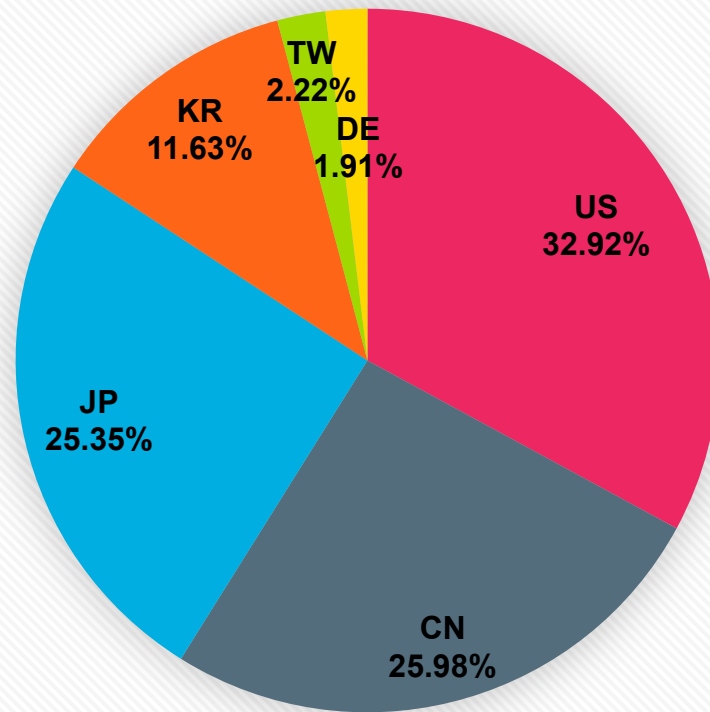
The Worldwide Patent Landscape (2008 – 2019) - Gallium Nitride



Number of Patents / Applications 2008 - 2019

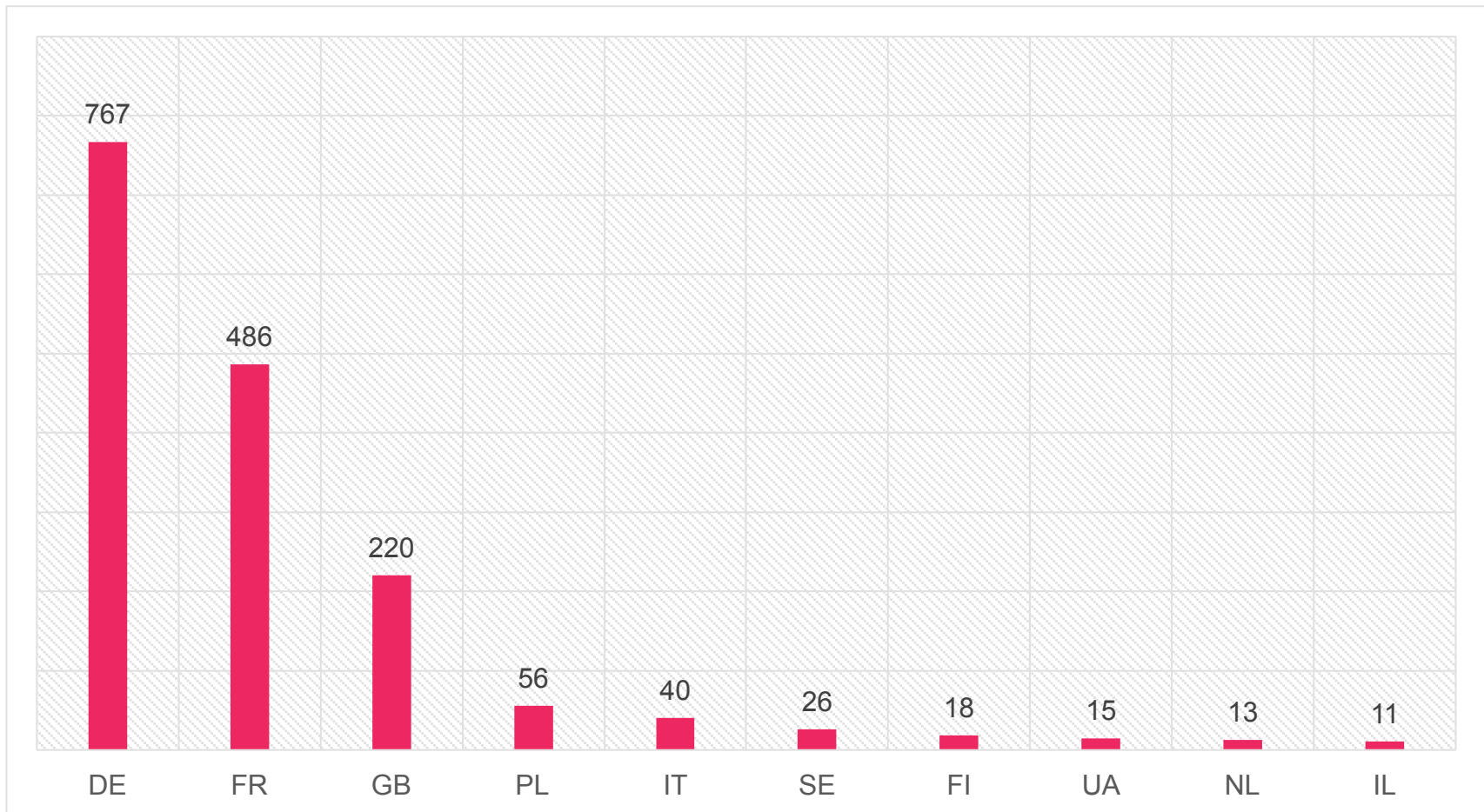


Geographic distribution of applicants for patents in the field of Gallium Nitride

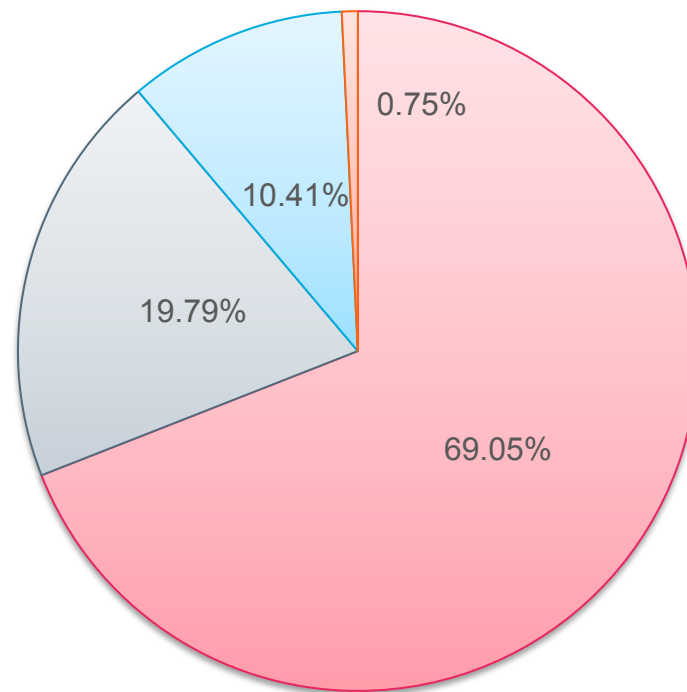


■ US ■ CN ■ JP ■ KR ■ TW ■ DE

Looking into European filings on Gallium Nitride



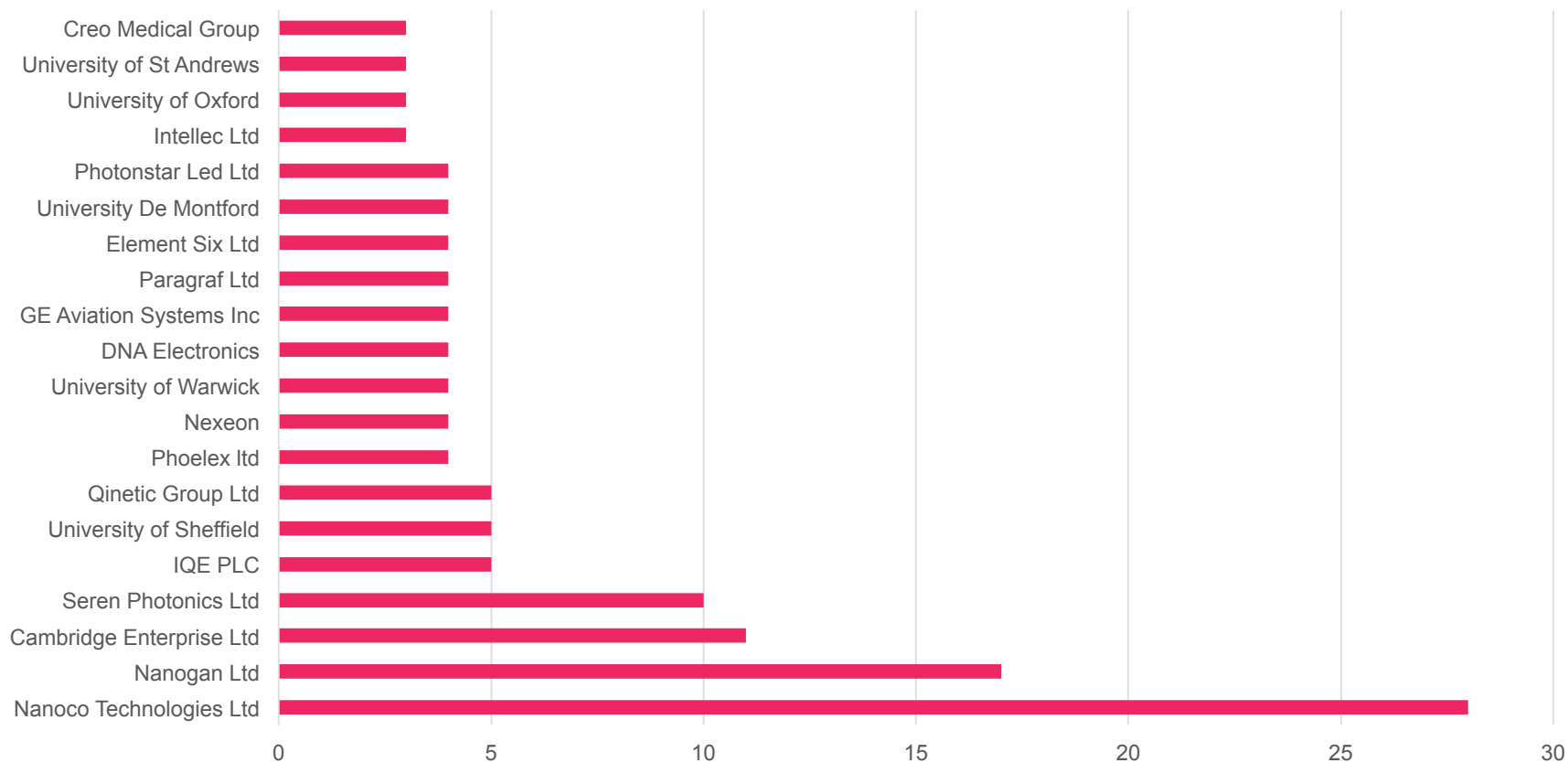
Number of European national patent office first-filings for gallium nitride - related technologies



■ Electronics ■ Chem/Pharma ■ Mechanical ■ Med tech

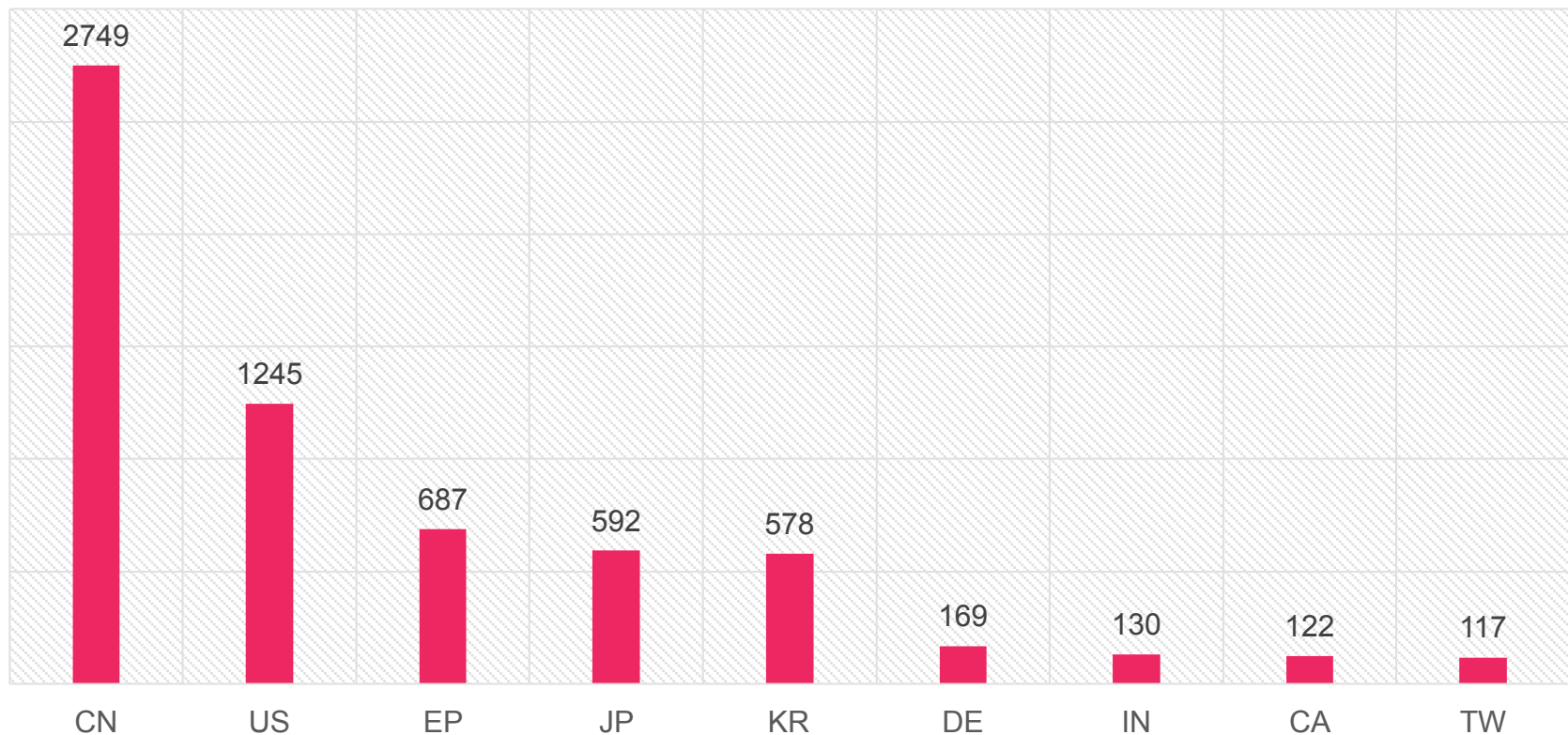
The top filers of gallium nitride - related patent applications in the UK

Number of patents / applications

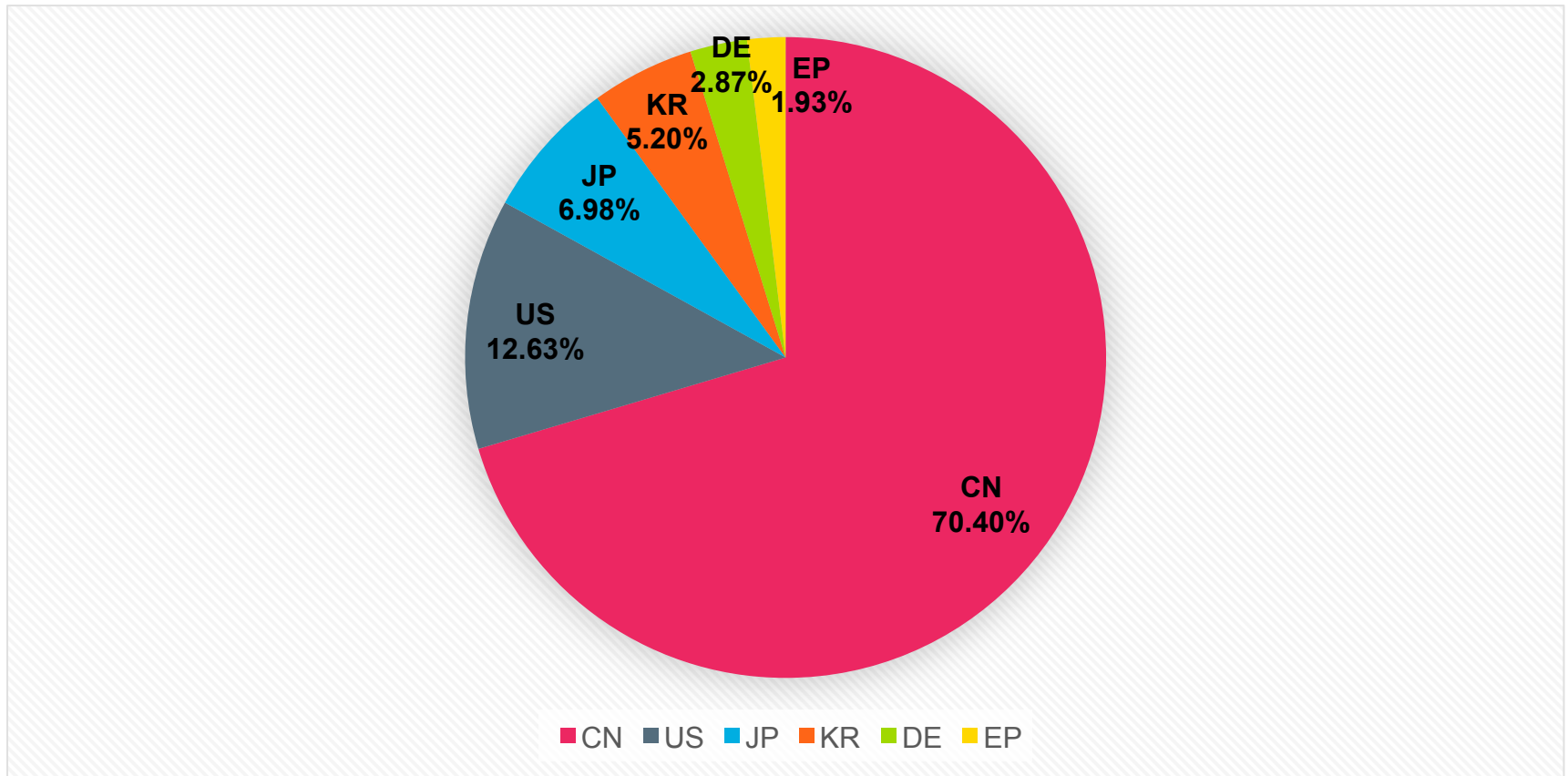


The Worldwide Patent Landscape (2008 – 2019) - Hexagonal Boron Nitride

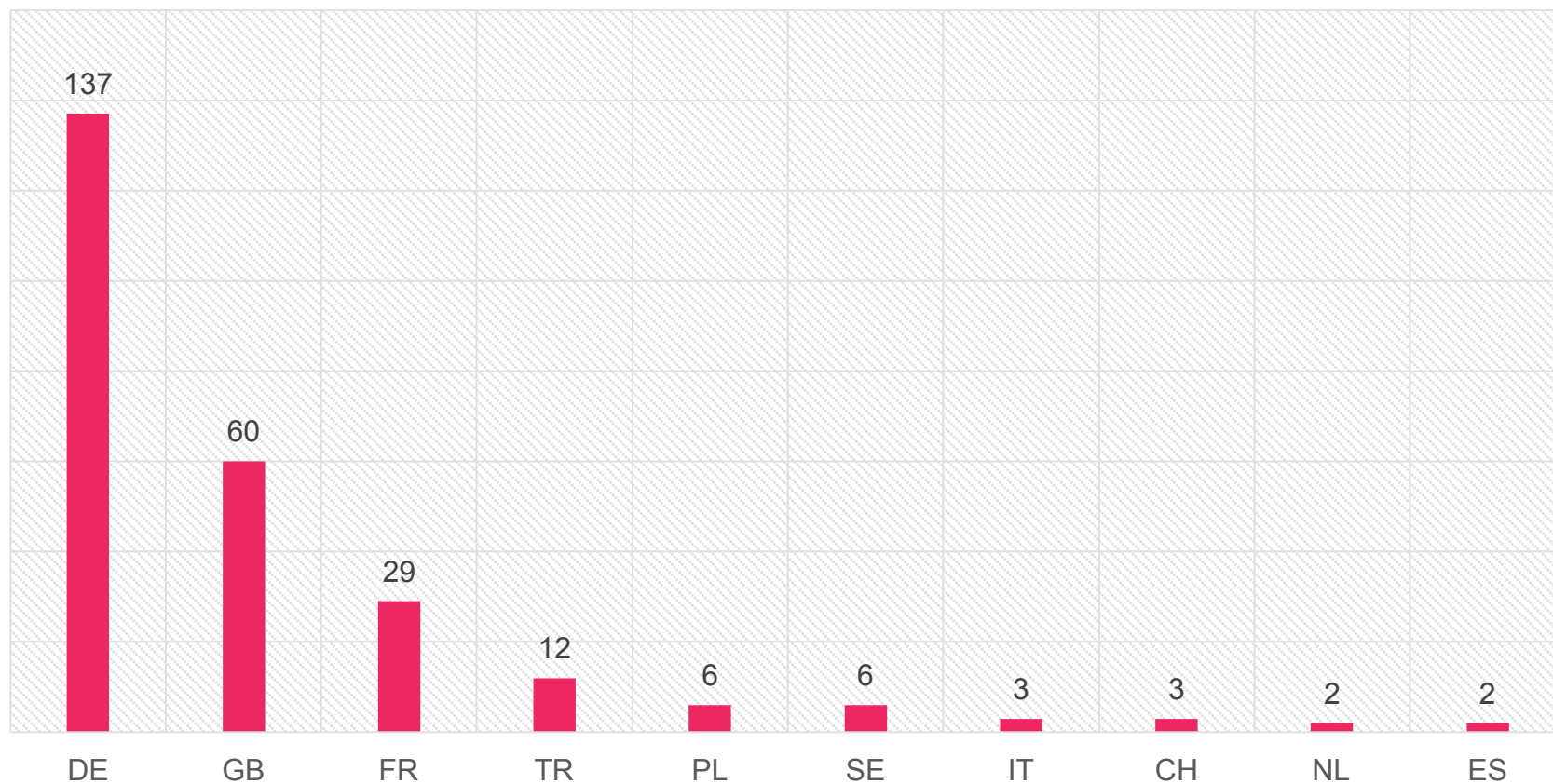
Number of Patents / Applications 2008 - 2019



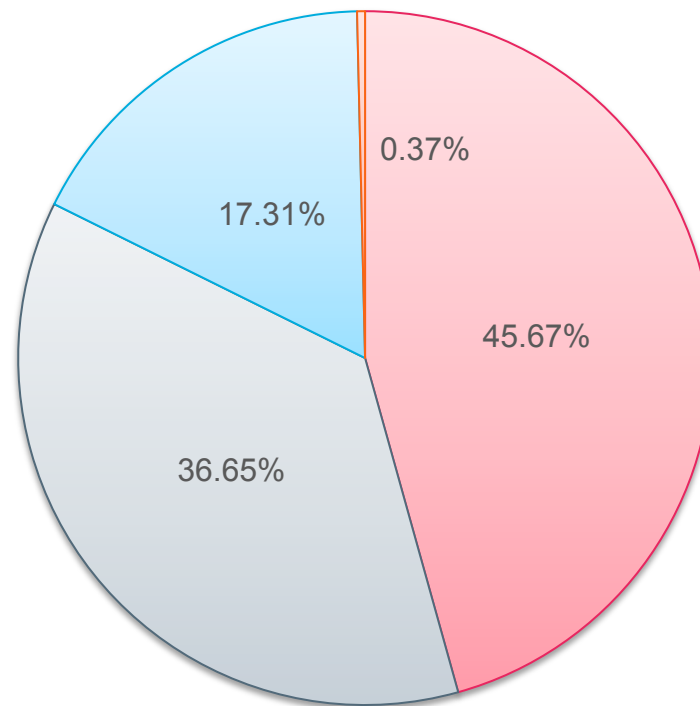
Geographic distribution of applicants for patents in the field of Hexagonal Boron Nitride



Looking into European filings on Hexagonal Boron Nitride



Number of European national patent office first-filings for hexagonal boron nitride - related technologies

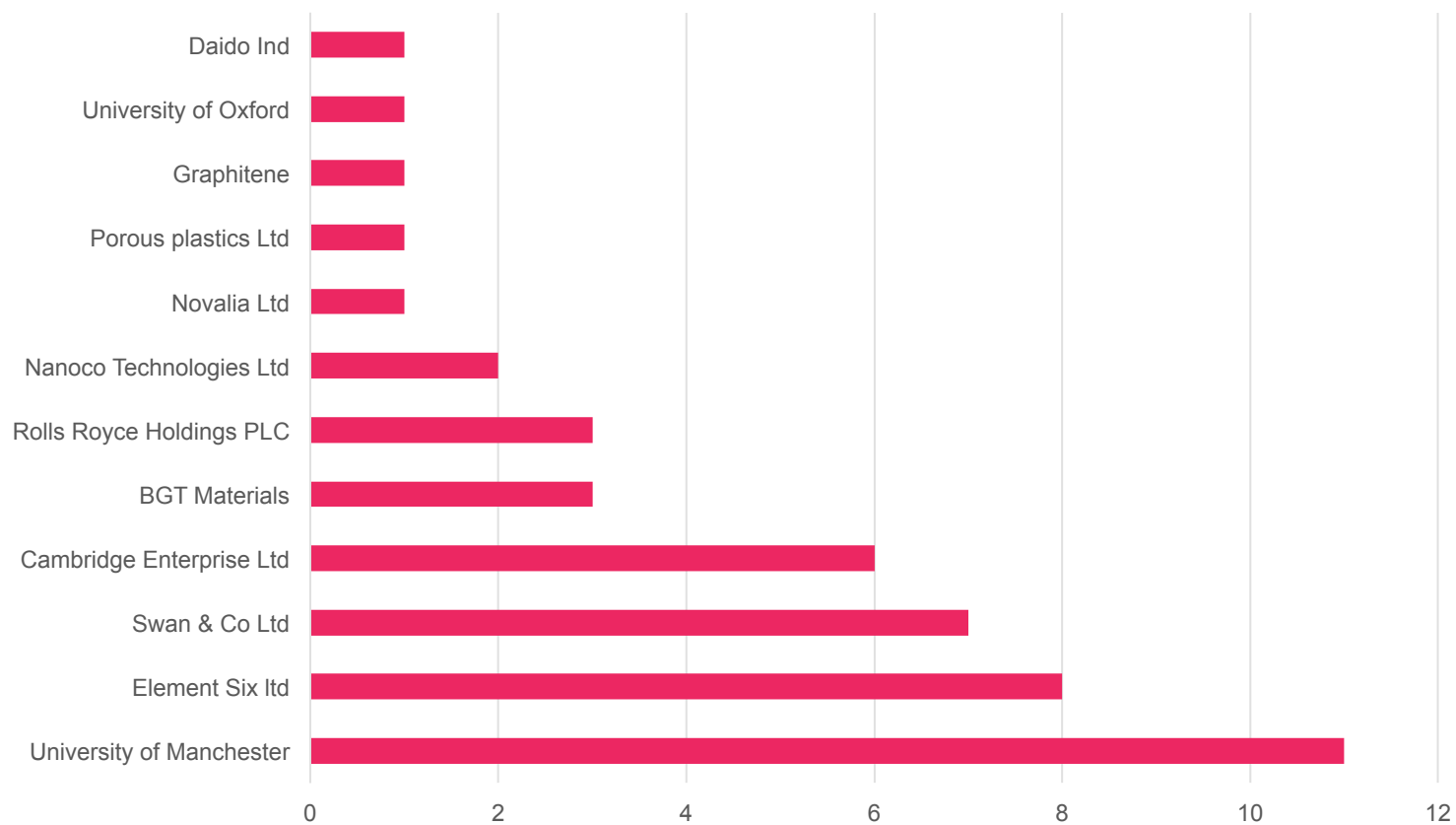


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The top filers of hexagonal boron nitride - related patent applications in the UK



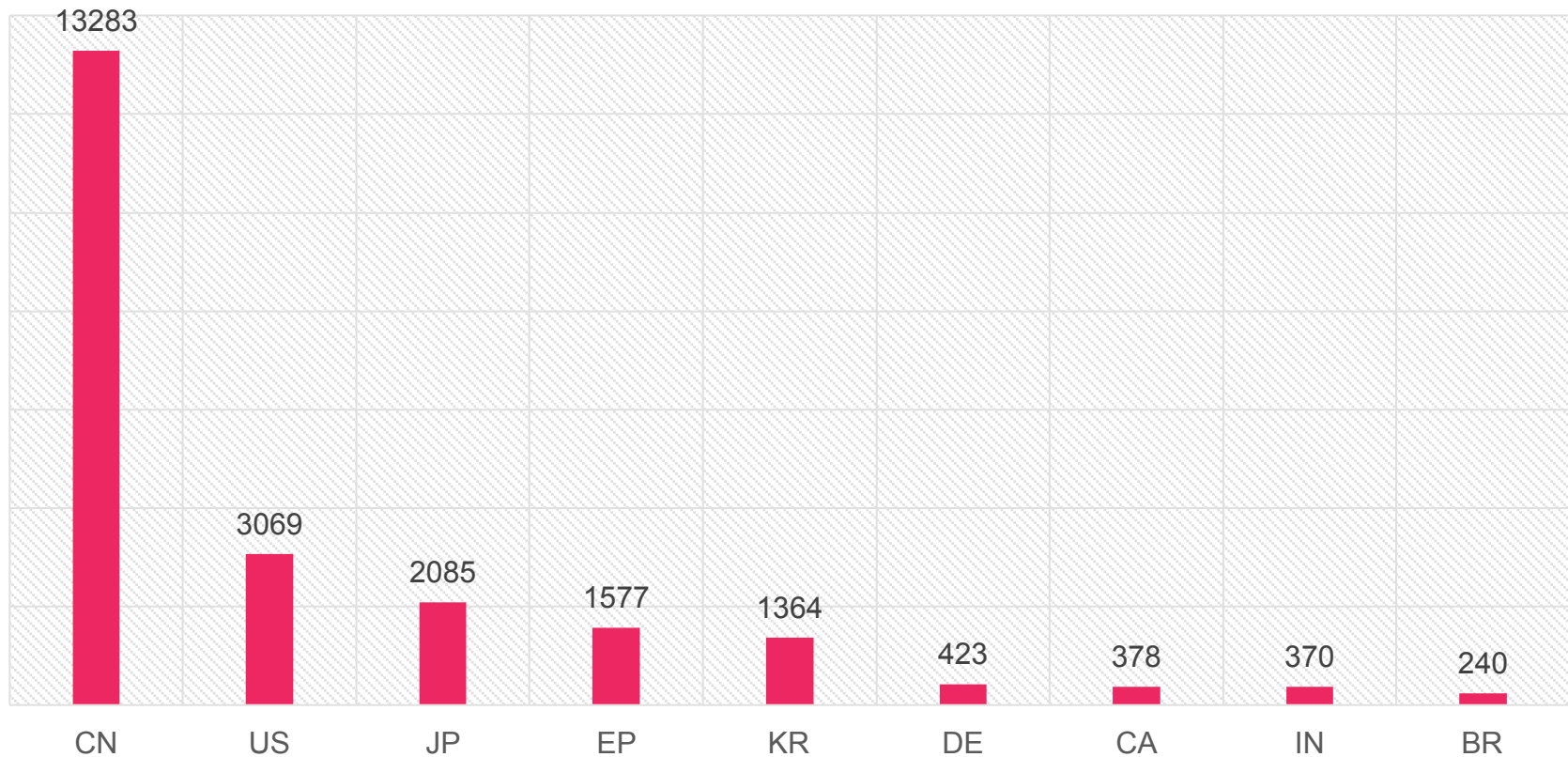
Number of patents / applications



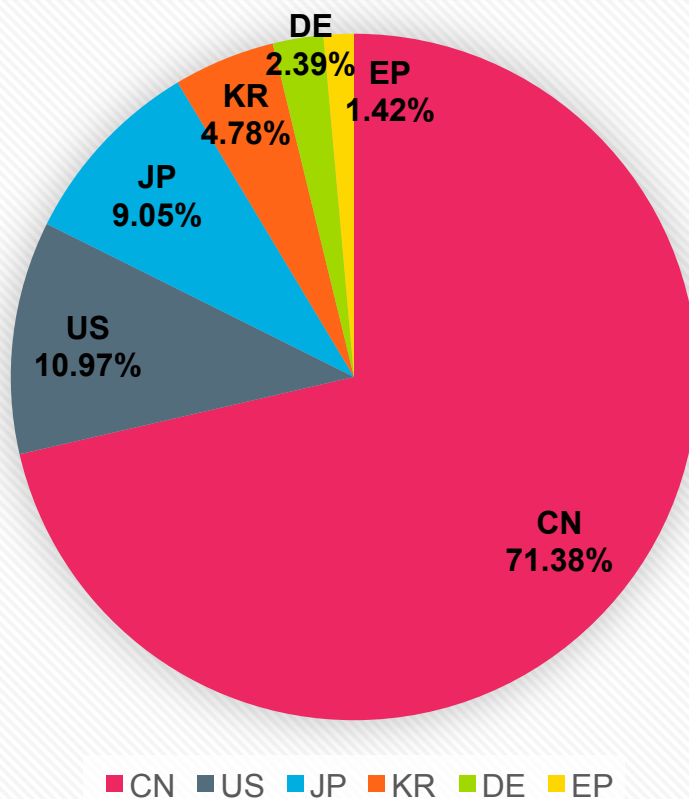
The Worldwide Patent Landscape (2008 – 2019) - Molybdenum Disulfide



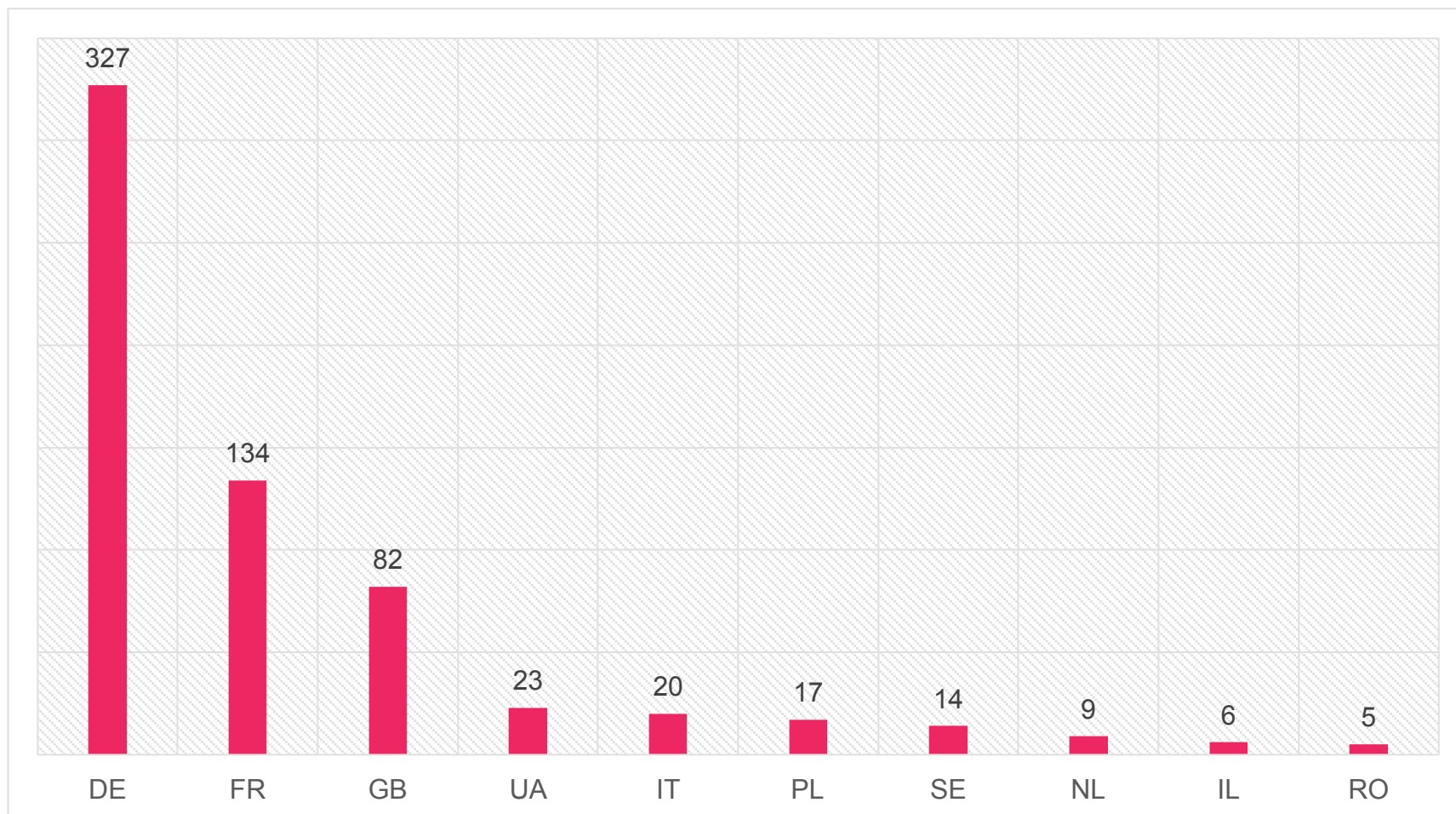
Number of Patents / Applications 2008 - 2019



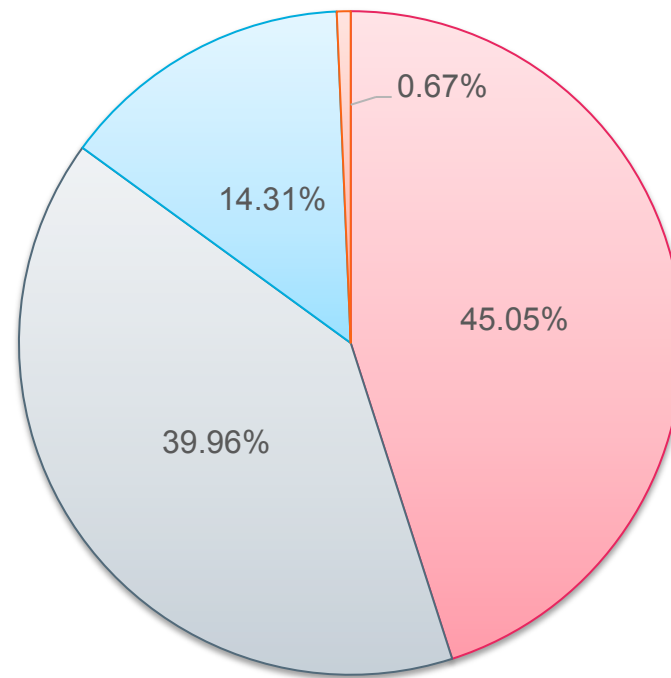
Geographic distribution of applicants for patents in the field of Molybdenum Disulfide



Looking into European filings on Molybdenum Disulfide



Number of European national patent office first-filings for molybdenum disulfide - related technologies

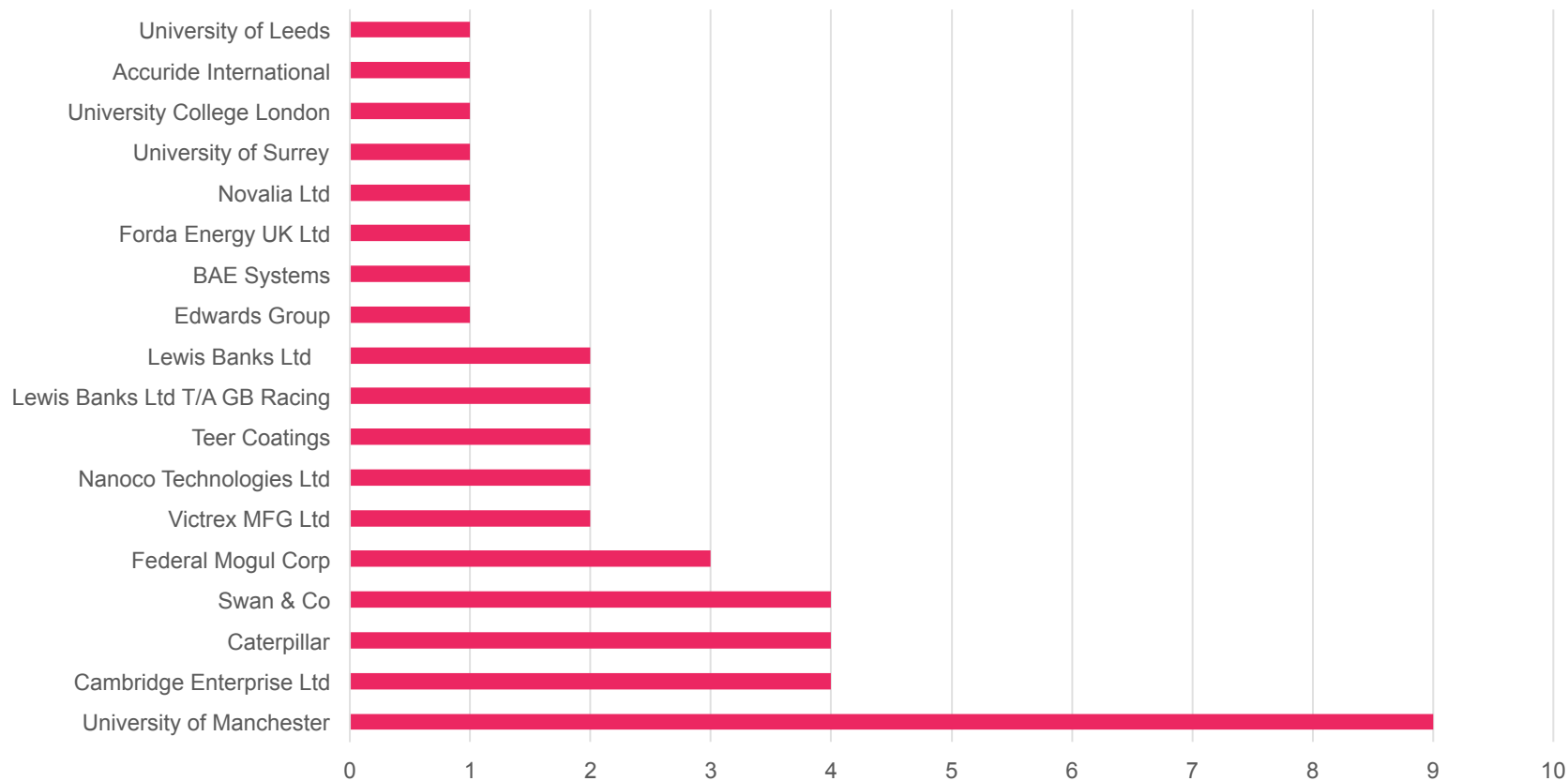


■ Chem/Pharma ■ Mechanical ■ Electronics ■ Med tech

The top filers of molybdenum disulfide - related patent applications in the UK



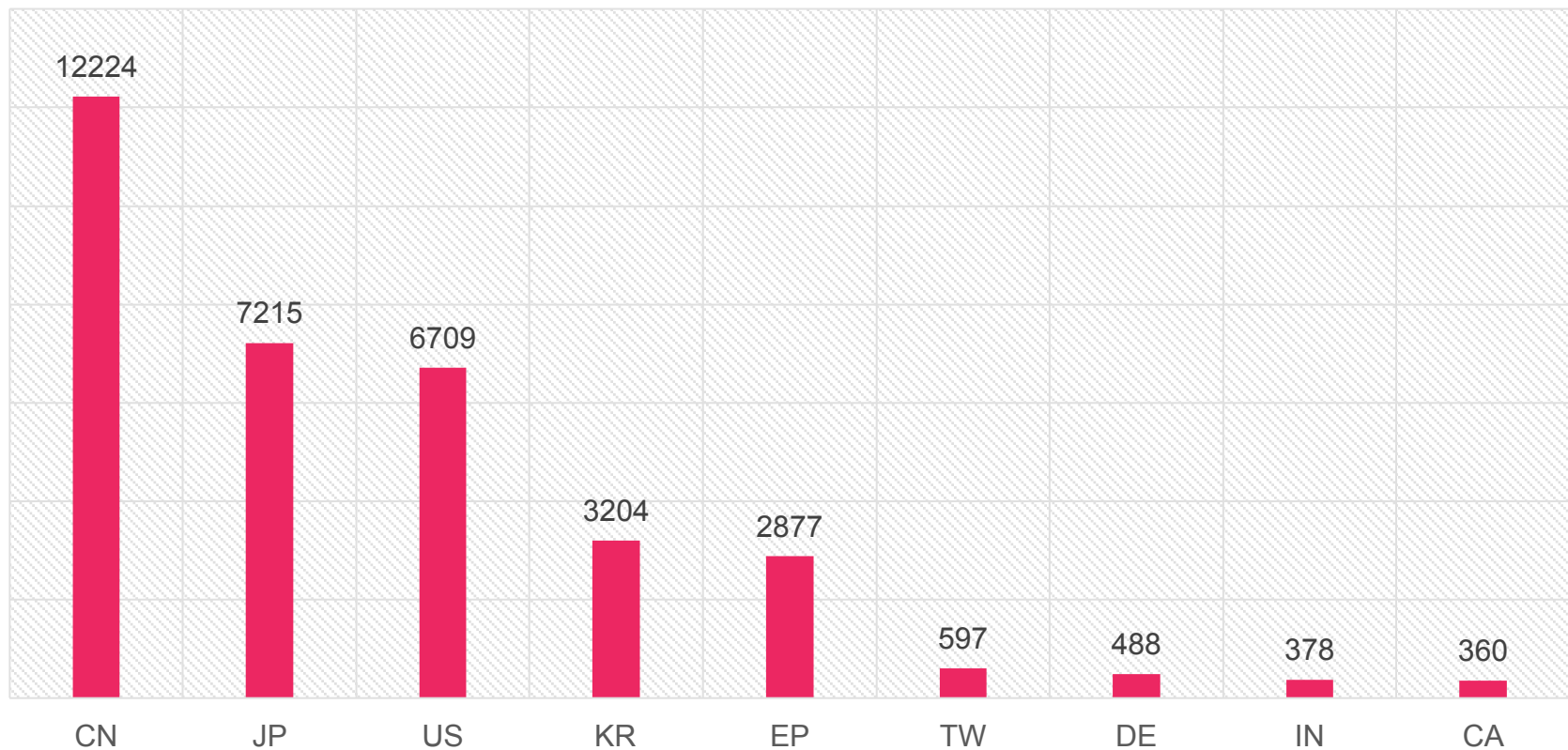
Number of patents / applications



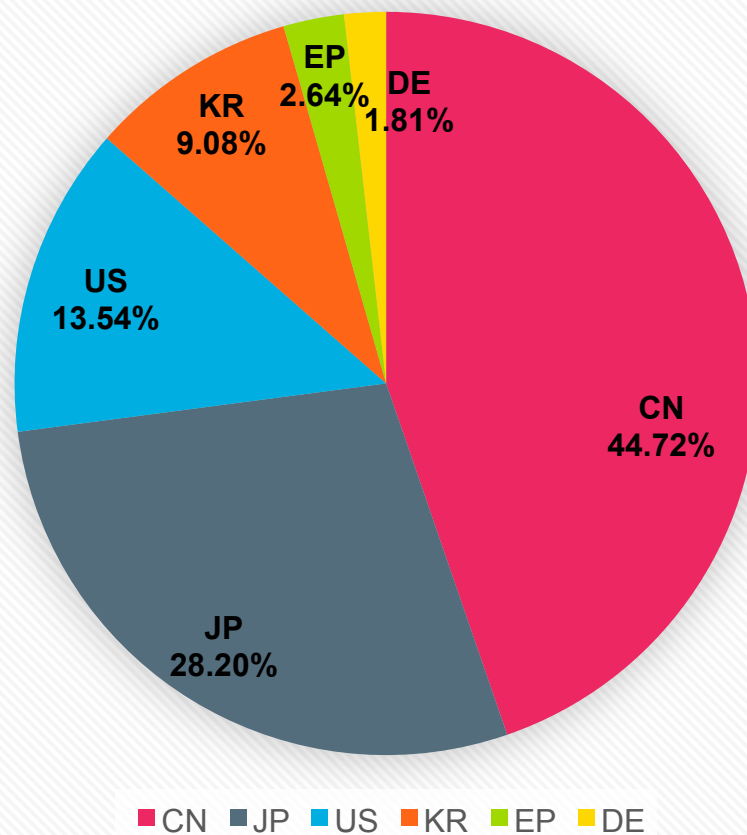
The Worldwide Patent Landscape (2008 – 2019) - Perovskite



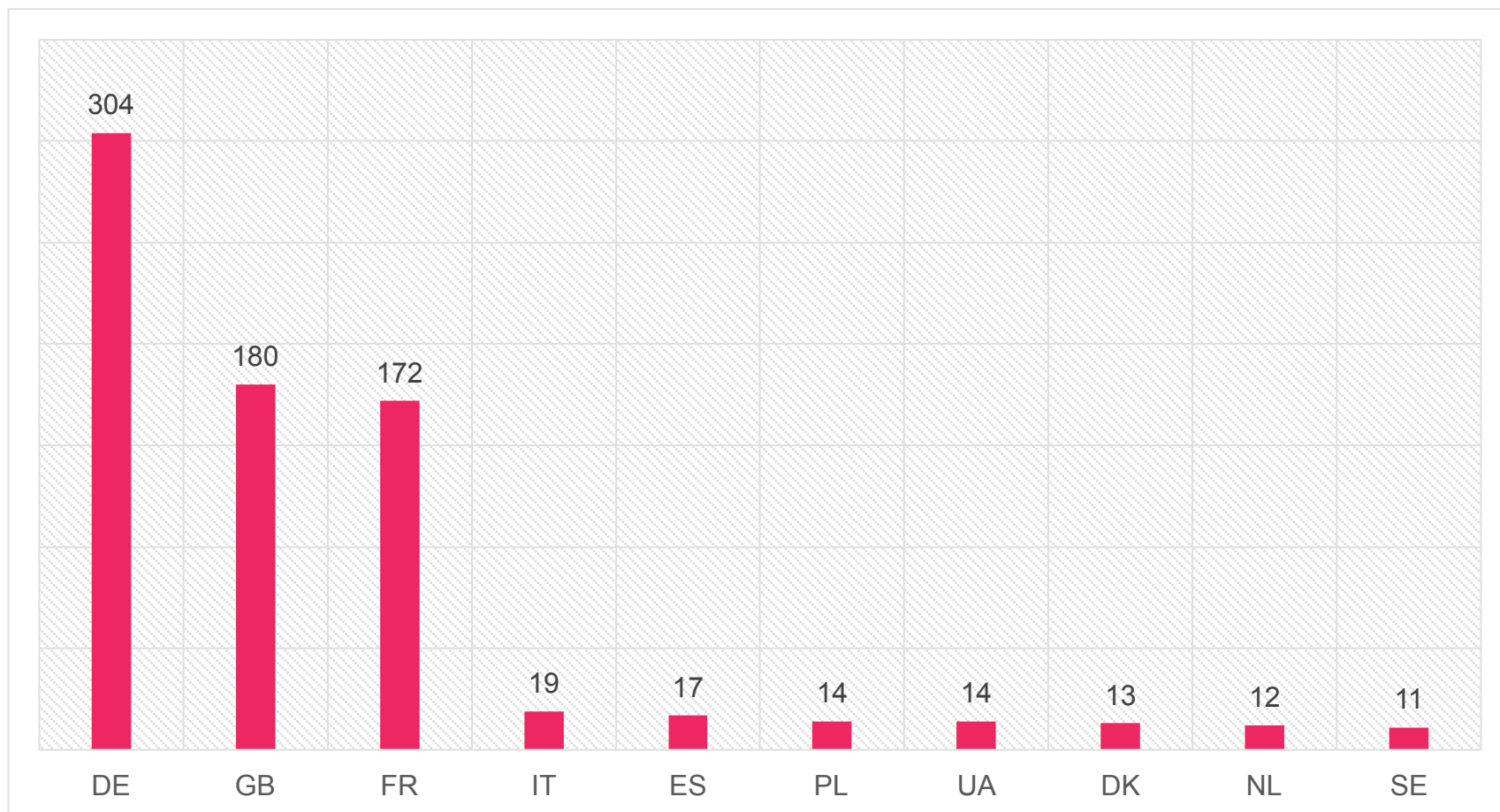
Number of Patents / Applications 2008 - 2019



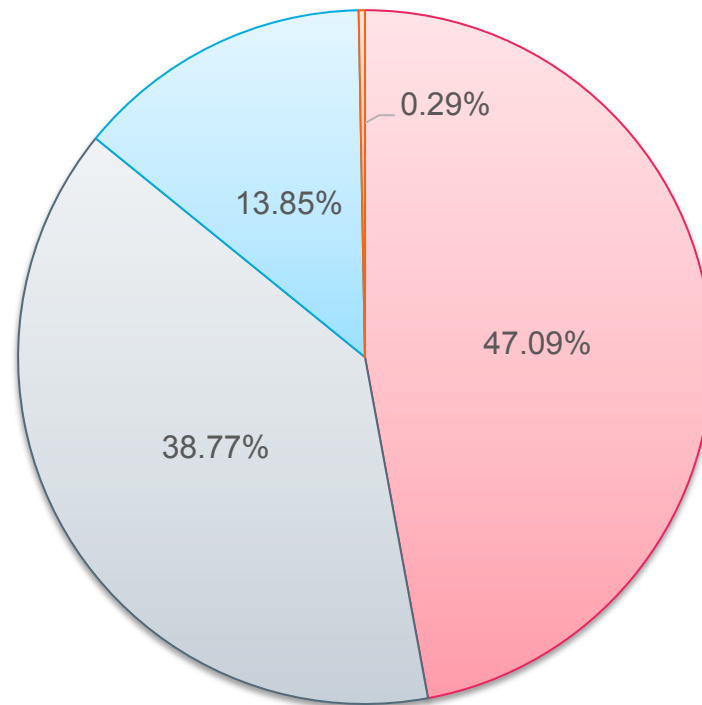
Geographic distribution of applicants for patents in the field of Perovskite



Looking into European filings on Perovskite



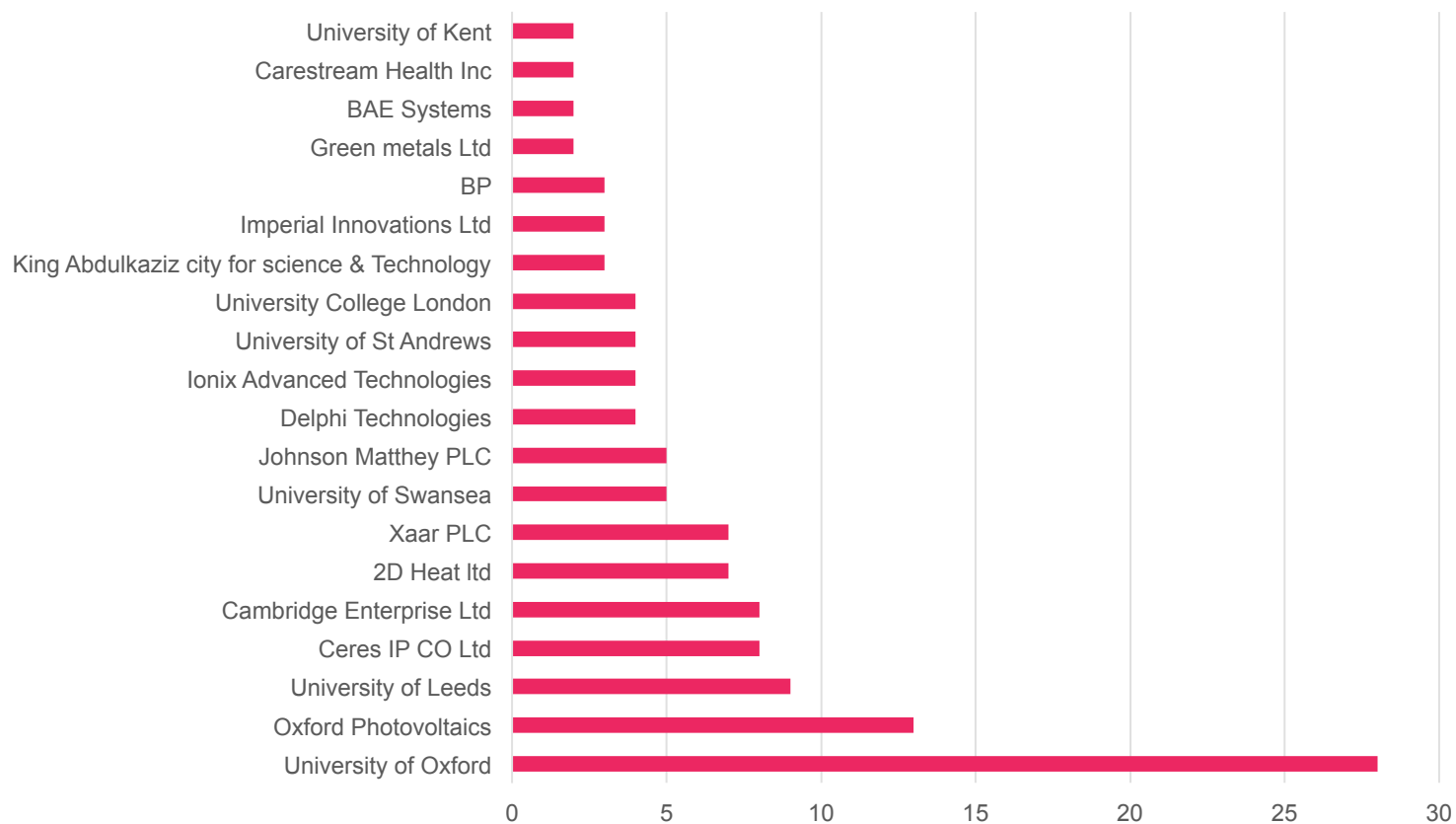
Number of European national patent office first-filings for perovskite - related technologies



■ Electronics ■ Chem/Pharma ■ Mechanical ■ Med tech

The top filers of perovskite - related patent applications in the UK

Number of patents / applications



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