



We create chemistry

Thoughts about Geopolymers

From a German raw materials supplier

E-EMD R. Bohlander

Geopolymer Camp,

St.Quentin Aug.31.2021



BASF

We create chemistry

E-EMD Industrial Formulators Offerings to Construction industry

Who are we and what defines our business?

We are a single component **raw material** and **additive supplier** for chemical processing and chemical formulations.

We serve chemical industries supported by basic **application support**, technical service and consultancy with no support/service at customer's site.

Offerings for concrete admixtures

Raw materials for superplasticizers

Pluriol[®] M-PEG side chains for esterification

Sokalan[®] Polyacrylic acids as backbone for esterification

Pluriol[®] Reactive PEGs as co-polymerizable side chains

Lutropur[®] **MSA** Esterification catalyst

Shrinkage reducer

Foam control

Deaerators/defoamers

Air-entrainers/foamers

Wetting agents

Additives beyond concrete admixtures

Soluble silicates (Na, K)

Emulsifiers for cement stable emulsion polymers

Dispersing agents

Products for further applications

Dispersant for silicone formulations

Components for mould release agents

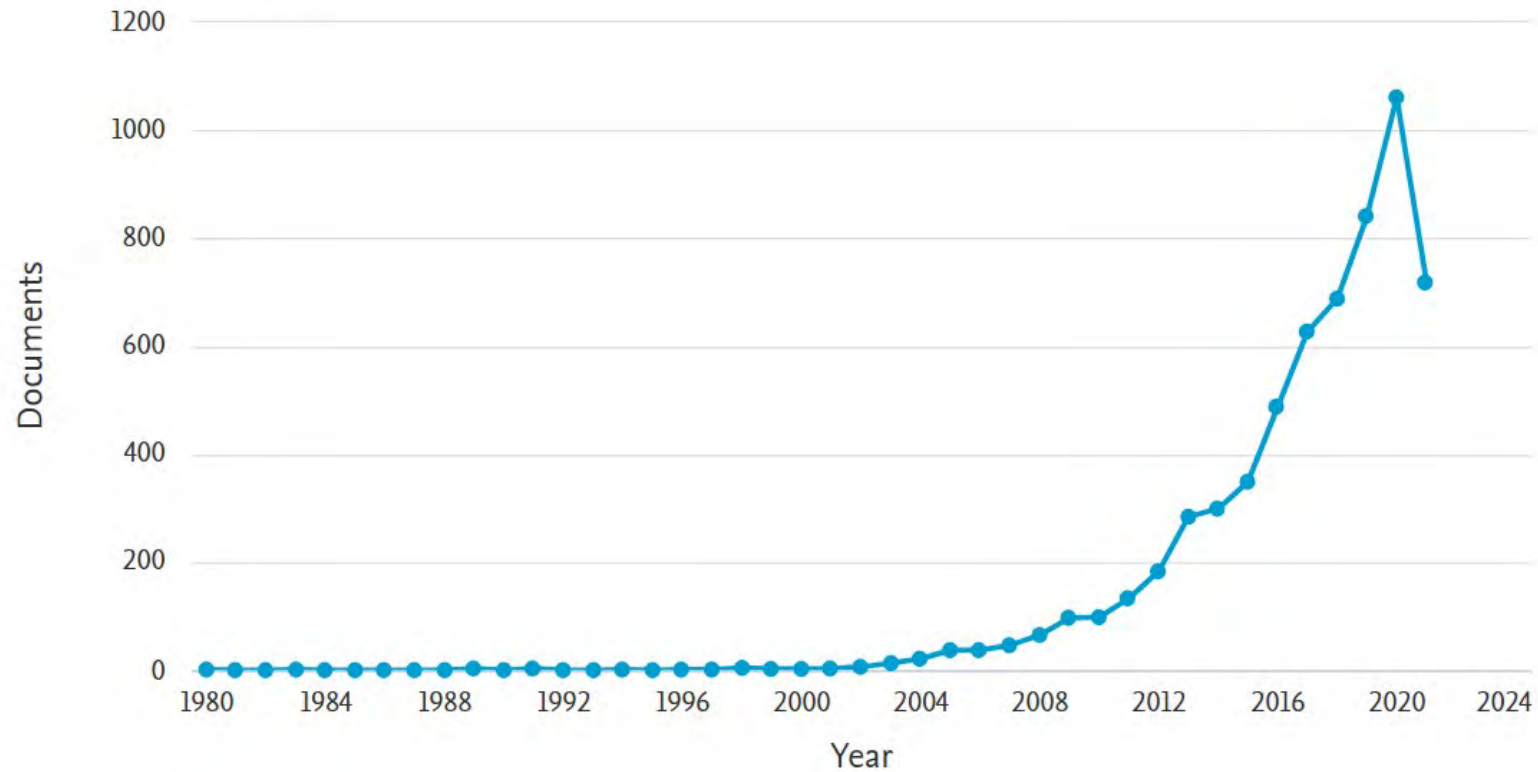
Tile cleaners

Poligen[®] wax emulsion for hydrophobation

**Raw materials/additives
for PU based systems**

Subject „Geopolymer“ in Scientific Publications

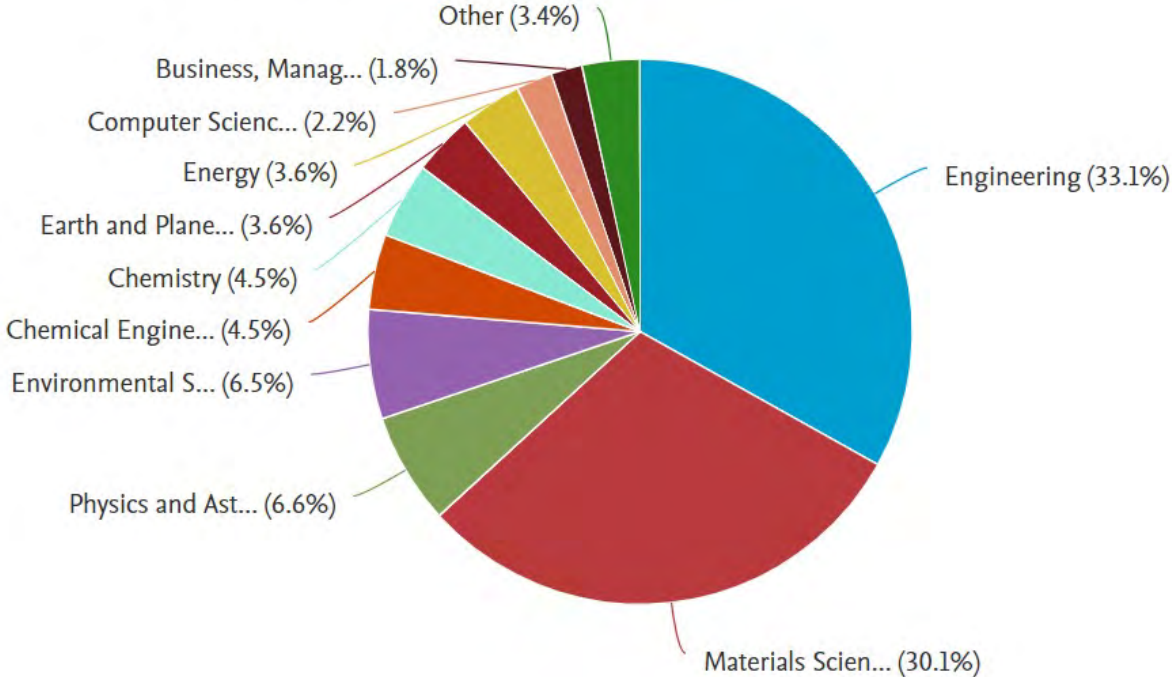
Documents by year



Gaining strong interest only after Y2000?

Subject Area in Scientific Publications

Documents by subject area

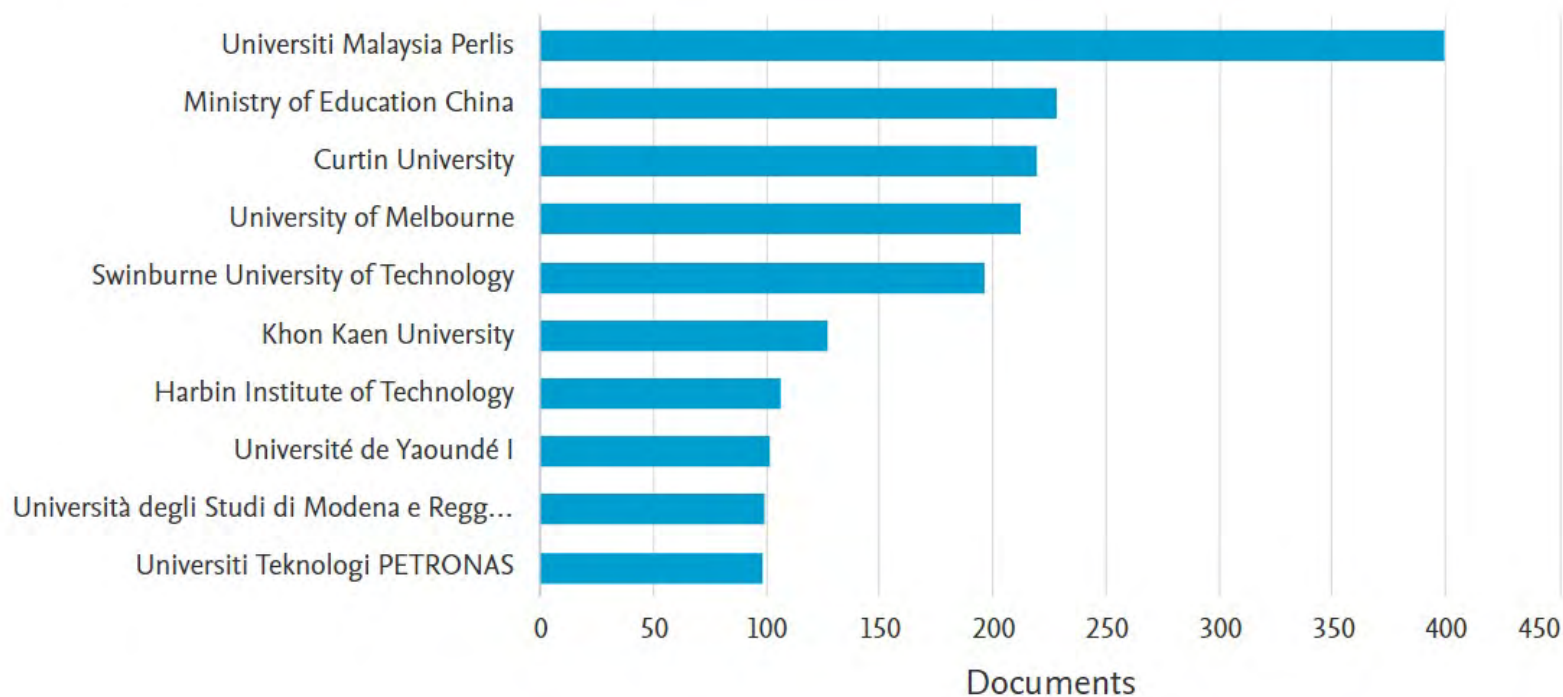


Not so much about chemistry? Is it too complicated?

Who is active in Scientific Publications?

Documents by affiliation

Compare the document counts for up to 15 affiliations.

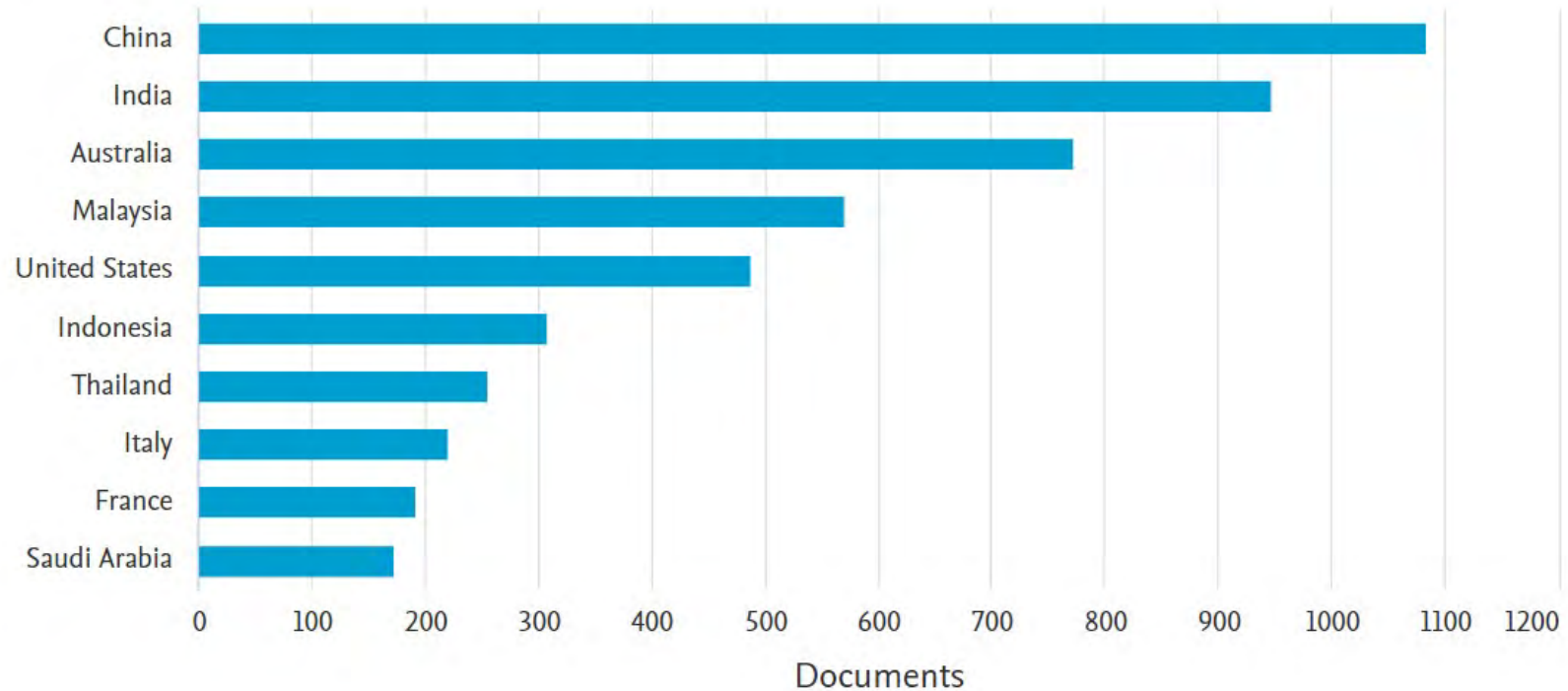


All Asian universities and institutes?

Which Countries are active in Scientific Publications?

Documents by country or territory

Compare the document counts for up to 15 countries/territories.



France at rank 9? and not much ongoing in Germany?

Answers to Questions:

Is there a considerable market for geopolymers in Europe? Or only niche application?

Are enough „waste“ grade fines available on a longer run for a wider utilization in EU?

Defined meta-kaoline and Geopolymer - specific alkaline silicate solutions are available.
But no other specific additives will be developed because of small volumes?



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