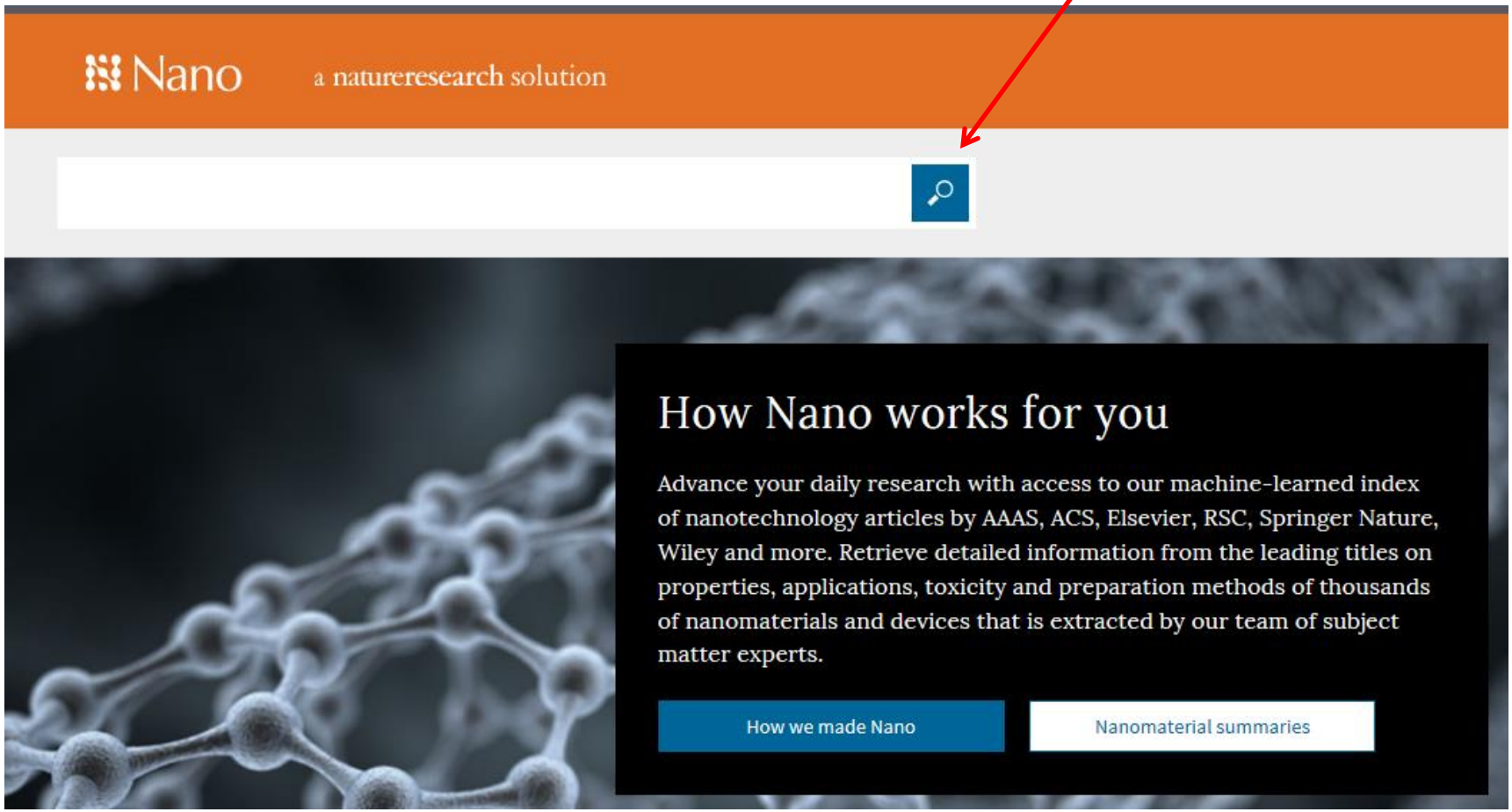
使用方法以及功能介绍

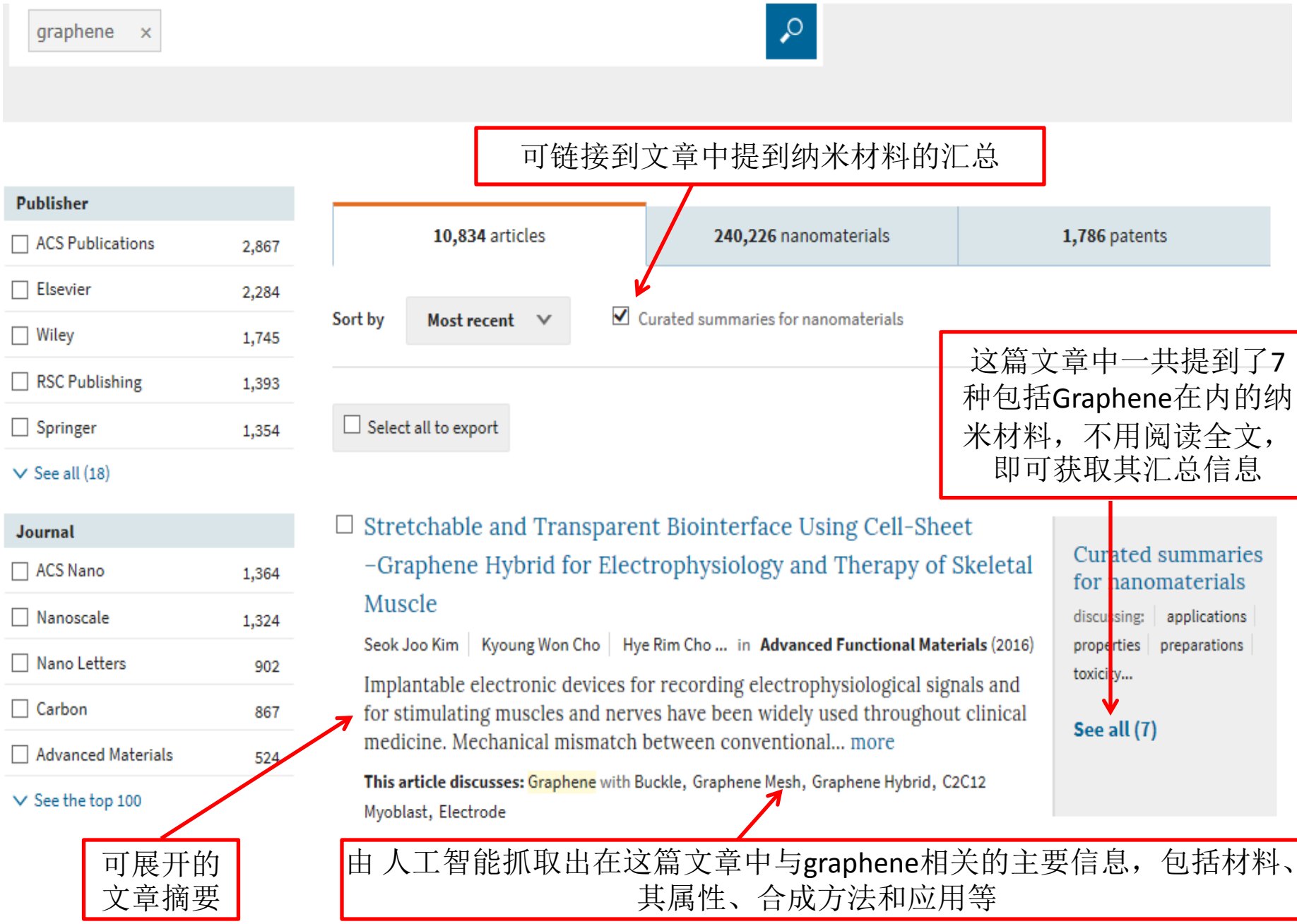
进入主页后：

可以直接点击“搜索”进入，也可以输入关键词后进入



未输入关键词进入的页面，
了解Nano内容功能

输入关键词graphene



独特的材料的分类，后面的数字表示具有这种结构的材料数量

与graphene有关的材料汇总有18016个，可再次筛选

Nanostructure

- Nanostructured materials 8,295
- Nanosheets 3,758
- Nanofilm 1,115
- Nanoporous materials 542
- Nanoparticles 450

See all (26)

独特的材料性质，可以勾选也可以自行输入

Property

Search

- Cyclic voltammogram 2,444
- Nyquist plot 1,653
- Catalytic activity 1,281
- Potential 1,217
- Current density 863

See the top 100

Source

10,834 articles | **18,016** nanomaterials | **1,786** patents

Sort by **Relevance**

graphene

Composition: graphite

Nanostructure: nanosheets

Based on 4429 articles and 134 patents (most recent: 2017)

Characterization (5731) | Property (4873) | Preparation (3064) | Application (1149) | Biological effects (293)

Hide quick view

Properties (4873)

Projected density of states dependent on p state projection axis

Value: Details in source

Source: Lorenzo Pardini *et al.*, Phys. Rev. Lett., 2016

Voltage drop at interface

Value: Details in source

Applications (1149)

Medicine/veterinary

Application: angiogenesis treatment, biocompatible and efficient agent

Source: Gurunathan S *et al.*, Int. J. Nanomed., 2014

Raw materials/precursors/templates

Application: precursor of air cathodes for lithium-oxygen

与graphene有关的材料汇总有18016个，可再次筛选

Source 期刊来源

Search

- Nanoscale 2,913
- ACS Nano 1,845
- Adv. Mater. 1,554
- Nano Lett. 1,408
- Adv. Funct. Mater. 1,323

See the top 100

Application

材料应用，可以勾选也可以自行输入

- Energy storage 2,728
- Electronics 1,931
- Catalysis 1,628
- Electrodes/electrolytes 1,307
- Power generation 1,045

See all (69)

10,834 articles | **18,016** nanomaterials | **1,786** patents

Sort by **Relevance**

graphene

Composition: graphite

Nanostructure: nanosheets

Based on 4429 articles and 134 patents (most recent: 2017)

Characterization (5731) | Property (4873) | Preparation (3064) | Application (1149) | Biological effects (293)

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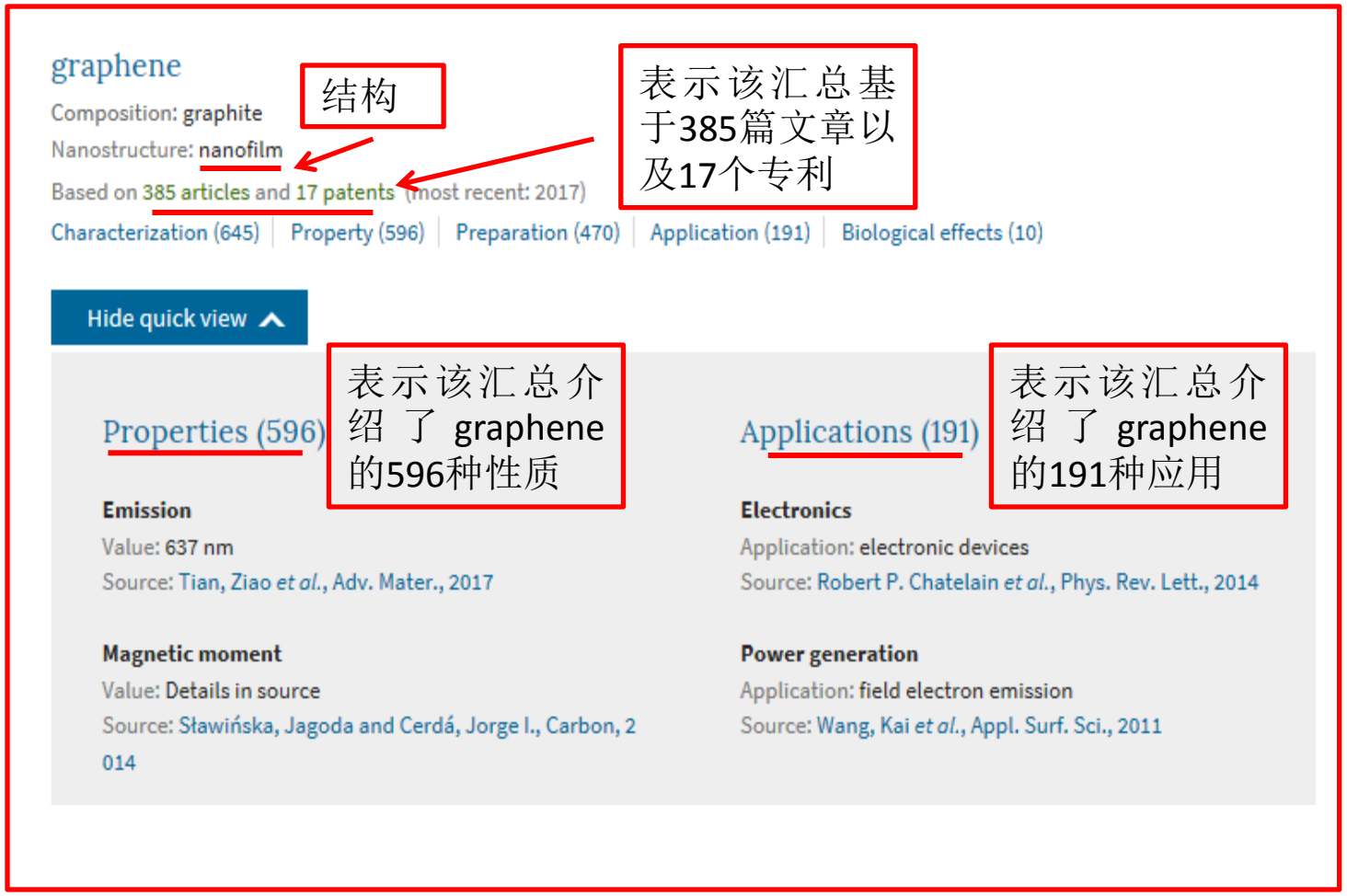
Application: precursor of air cathodes for lithium-oxygen

一个汇总的概览！


graphene
Composition: graphite
Nanostructure: nanofilm
Based on 385 articles and 17 patents (most recent: 2017)
Characterization (645) | Property (596) | Preparation (470) | Application (191) | Biological effects (10)
结构
表示该汇总基于385篇文章以及17个专利
Hide quick view
Properties (596)
表示该汇总介绍了graphene的596种性质
Emission
Value: 637 nm
Source: Tian, Ziao et al., Adv. Mater., 2017
Magnetic moment
Value: Details in source
Source: Sławińska, Jagoda and Cerdá, Jorge I., Carbon, 2014
Applications (191)
表示该汇总介绍了graphene的191种应用
Electronics
Application: electronic devices
Source: Robert P. Chatelain et al., Phys. Rev. Lett., 2014
Power generation
Application: field electron emission
Source: Wang, Kai et al., Appl. Surf. Sci., 2011

点击进入这个nanofilm的“graphene”汇总

汇总中有关graphene的性质，应用，表征手段，生物效应，制备手段，以及数据来源（直接点击即可链接到原文）

Properties | Applications | Characterization | Biological effects | Preparation | References

Properties

材料性质的三种大的分类，点击即可查看具体性质

General physical and chemical | Catalytic | Sensor

Search for a property

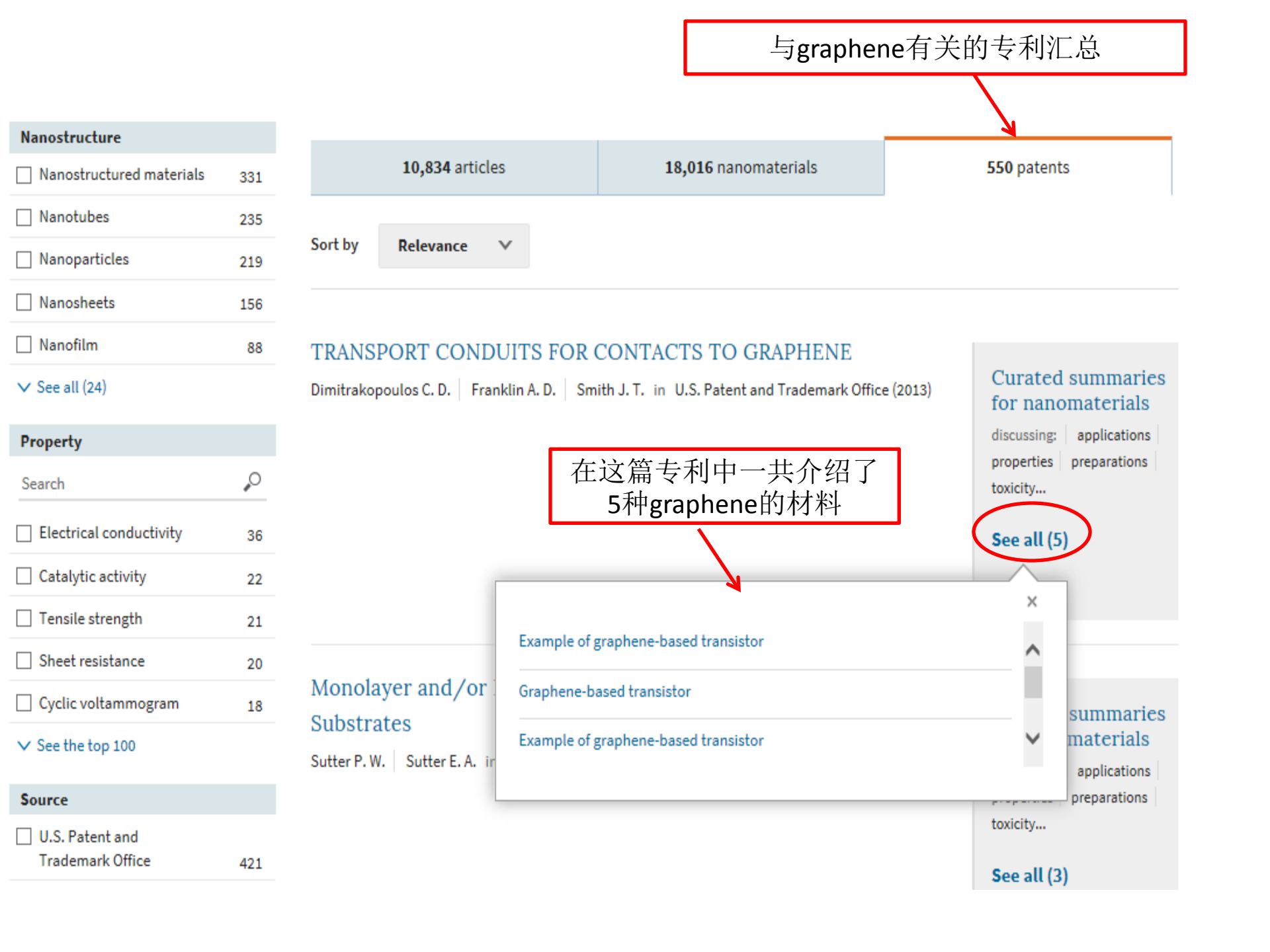
可以选择手动输入要查看的性质

Property	Value	Nanomaterial Variant	Source
electrical resistivity	0.167 Ω·cm [0.00167 Ω·m]	Thickness: 40 nm Medium/Support: none	Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	0.040 Ω·cm [0.0004 Ω·m]	Thickness: 20 nm Medium/Support: none	Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	312 Ω·cm [3.12 Ω·m]	Thickness: 3 nm Medium/Support: none	Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	0.034 Ω·cm [0.00034 Ω·m]	Thickness: 30 nm Medium/Support: none	Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	0.00074 Ω·cm [0.0000074 Ω·m]	RMS roughness: ~ 5 nm Thickness: 20 nm Medium/Support: none	Experiment in Matti Tomi et al., Nanoscale, 2015
	0.000015 Ω·m	Thickness: 74 nm Medium: none Support: silica glass	Experiment in Lai, Liang-Hsun et al., Thin Solid Films, 2014

具体数值

材料的尺寸以及基底类别

数据来源以及该性质是由实验证明还是模拟计算


与graphene有关的专利汇总
Nanostructure
Nanostructured materials 331
Nanotubes 235
Nanoparticles 219
Nanosheets 156
Nanofilm 88
See all (24)
Property
Search
Electrical conductivity 36
Catalytic activity 22
Tensile strength 21
Sheet resistance 20
Cyclic voltammogram 18
See the top 100
Source
U.S. Patent and Trademark Office 421
10,834 articles
18,016 nanomaterials
550 patents
Sort by
Relevance
TRANSPORT CONDUITS FOR CONTACTS TO GRAPHENE
Dimitrakopoulos C. D. | Franklin A. D. | Smith J. T. in U.S. Patent and Trademark Office (2013)
Curated summaries for nanomaterials
discussing: applications properties preparations toxicity...
See all (5)
在这篇专利中一共介绍了5种graphene的材料
Example of graphene-based transistor
Graphene-based transistor
Example of graphene-based transistor
Monolayer and/or
Substrates
Sutter P. W. | Sutter E. A. in
summaries
materials
applications
preparations
toxicity...
See all (3)