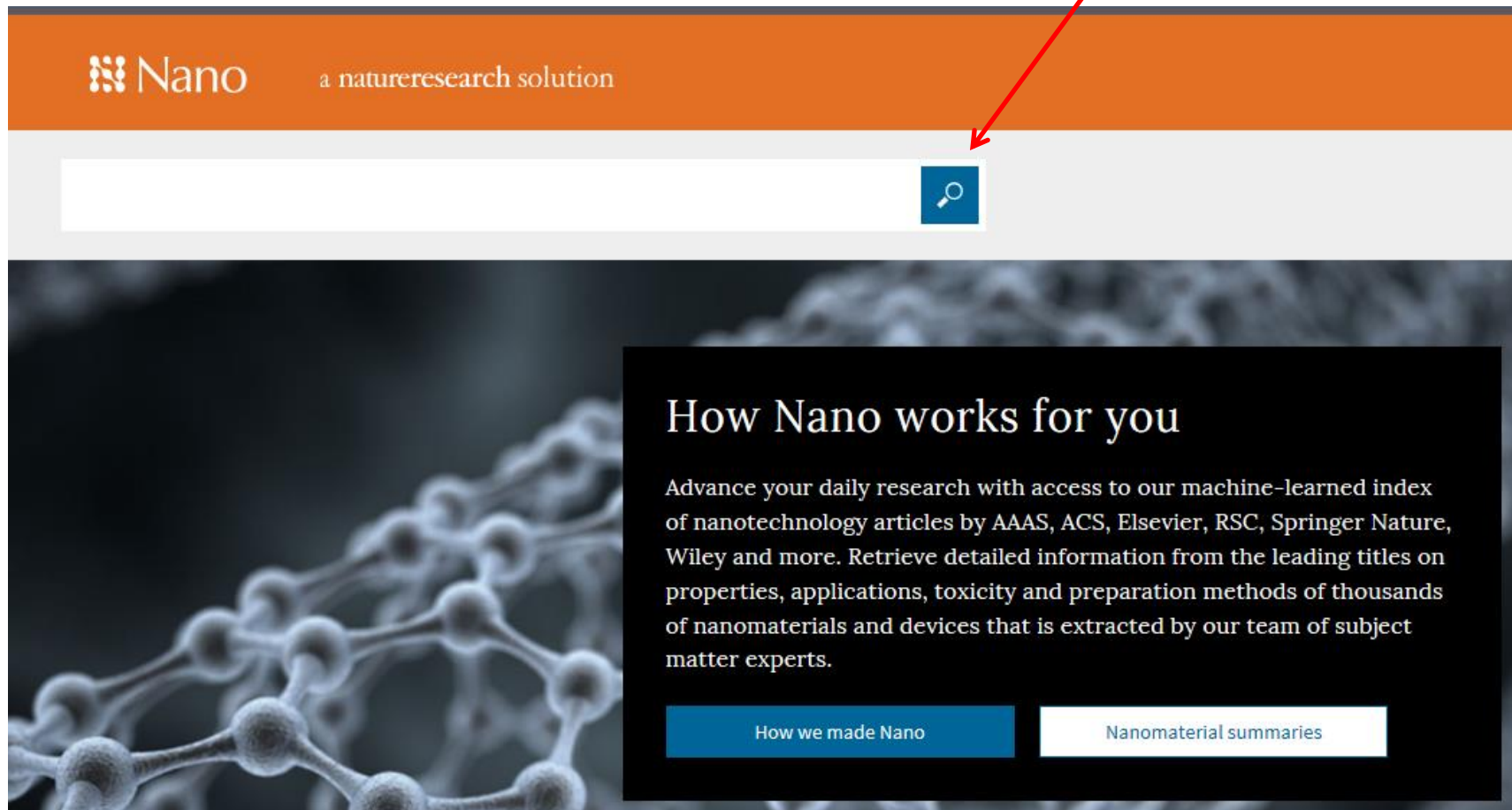


使用方法以及功能介绍

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



The image shows the homepage of the Nano website. At the top, there is an orange header with the Nano logo and the tagline "a natureresearch solution". Below the header is a search bar with a magnifying glass icon. A red box highlights the search bar, and a red arrow points from the text "可以直接点击“搜索”进入，也可以输入关键词后进入" to the search bar. Below the search bar is a large image of a molecular structure. On the right side of the image, there is a dark box with the title "How Nano works for you" and a paragraph of text. At the bottom of this box are two buttons: "How we made Nano" and "Nanomaterial summaries".

Nano a natureresearch solution

How Nano works for you

Advance your daily research with access to our machine-learned index of nanotechnology articles by AAAS, ACS, Elsevier, RSC, Springer Nature, Wiley and more. Retrieve detailed information from the leading titles on properties, applications, toxicity and preparation methods of thousands of nanomaterials and devices that is extracted by our team of subject matter experts.

How we made Nano Nanomaterial summaries

未输入关键词进入的页面，
了解Nano内容功能

Publisher		出版社来源
<input type="checkbox"/>	Elsevier	161,931
<input type="checkbox"/>	RSC Publishing	123,720
<input type="checkbox"/>	Springer	102,965
<input type="checkbox"/>	ACS Publications	41,534
<input type="checkbox"/>	NPG	41,291
See all (26)		

Journal		期刊来源
<input type="checkbox"/>	RSC Advances	35,316
<input type="checkbox"/>	PLOS ONE	25,441
<input type="checkbox"/>	Journal of Alloys and Compounds	21,533
<input type="checkbox"/>	Scientific Reports	21,399
<input type="checkbox"/>	Applied Surface Science	19,333
See the top 100		

Publication Year		文章发表时间
<input type="checkbox"/>	2017	91,663
<input type="checkbox"/>	2015	86,073

文章数量: 573,827 articles

纳米材料汇总数量: 240,226 nanomaterials

专利数量: 1,786 patents

Sort by: Most recent

Curated summaries for nanomaterials

Select all to export

可以按时间，相关度，以及引用次数排序

Polypyrrole–vanadium oxide nanocomposite: polymer dominates crystallinity and oxide dominates conductivity

Swarup Roy | Suryakant Mishra | Priyanka Yogi ... in **Applied Physics A: Materials Science & Processing** (2018)

A hybrid nanocomposite of polypyrrole (Ppy)–V2O5 has been fabricated and characterized for better understanding of material enabling one to use this for appropriate application as the nanocomposite shows... [more](#)

Utmost response time of long-wave HgCdTe photodetectors operating under zero voltage condition

P. Martyniuk | P. Madejczyk | M. Kopytko ... in **Optical and Quantum Electronics** (2018)

The paper reports on the long-wave infrared HgCdTe detector for utmost short response time operating for unbiased and room temperature condition. The response time was calculated at the level of ~ 220–520... [more](#)

输入关键词graphene

graphene x



Publisher	
<input type="checkbox"/> ACS Publications	2,867
<input type="checkbox"/> Elsevier	2,284
<input type="checkbox"/> Wiley	1,745
<input type="checkbox"/> RSC Publishing	1,393
<input type="checkbox"/> Springer	1,354
See all (18)	

Journal	
<input type="checkbox"/> ACS Nano	1,364
<input type="checkbox"/> Nanoscale	1,324
<input type="checkbox"/> Nano Letters	902
<input type="checkbox"/> Carbon	867
<input type="checkbox"/> Advanced Materials	524
See the top 100	

10,834 articles 240,226 nanomaterials 1,786 patents

Sort by **Most recent** Curated summaries for nanomaterials

Select all to export

可链接到文章中提到纳米材料的汇总

这篇文章中一共提到了7种包括Graphene在内的纳米材料，不用阅读全文，即可获取其汇总信息

[Stretchable and Transparent Biointerface Using Cell-Sheet -Graphene Hybrid for Electrophysiology and Therapy of Skeletal Muscle](#)

Seok Joo Kim | Kyoung Won Cho | Hye Rim Cho ... in **Advanced Functional Materials** (2016)

Implantable electronic devices for recording electrophysiological signals and for stimulating muscles and nerves have been widely used throughout clinical medicine. Mechanical mismatch between conventional... [more](#)

This article discusses: Graphene with Buckle, Graphene Mesh, Graphene Hybrid, C2C12 Myoblast, Electrode

Curated summaries for nanomaterials

discussing: applications properties preparations toxicity...

[See all \(7\)](#)

可展开的文章摘要

由人工智能抓取出在这篇文章中与graphene相关的主要信息，包括材料、其属性、合成方法和应用等

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

The screenshot displays a materials database interface with several filter panels on the left and a main results area on the right. The 'Nanostructure' panel lists categories like 'Nanostructured materials' (8,295), 'Nanosheets' (3,758), 'Nanofilm' (1,115), 'Nanoporous materials' (542), and 'Nanoparticles' (450). The 'Property' panel lists 'Cyclic voltammogram' (2,444), 'Nyquist plot' (1,653), 'Catalytic activity' (1,281), 'Potential' (1,217), and 'Current density' (863). The main results area shows '10,834 articles', '18,016 nanomaterials' (circled in red), and '1,786 patents'. Below this, the search term 'graphene' is shown with filters for 'Composition: graphite' and 'Nanostructure: nanosheets'. A 'Sort by' dropdown is set to 'Relevance'. The 'Based on' section indicates 4429 articles and 134 patents (most recent: 2017). Navigation links for 'Characterization (5731)', 'Property (4873)', 'Preparation (3064)', 'Application (1149)', and 'Biological effects (293)' are provided. A 'Hide quick view' button is visible. The 'Properties (4873)' section includes 'Projected density of states dependent on p state projection axis' (Source: Lorenzo Pardini et al., Phys. Rev. Lett., 2016) and 'Voltage drop at interface'. The 'Applications (1149)' section includes 'Medicine/veterinary' (Application: angiogenesis treatment, biocompatible and efficient agent; Source: Gurunathan S et al., Int. J. Nanomed., 2014) and 'Raw materials/precursors/templates' (Application: precursor of air cathodes for lithium-oxygen).

Nanostructure	Count
<input type="checkbox"/> Nanostructured materials	8,295
<input type="checkbox"/> Nanosheets	3,758
<input type="checkbox"/> Nanofilm	1,115
<input type="checkbox"/> Nanoporous materials	542
<input type="checkbox"/> Nanoparticles	450

Property	Count
<input type="checkbox"/> Cyclic voltammogram	2,444
<input type="checkbox"/> Nyquist plot	1,653
<input type="checkbox"/> Catalytic activity	1,281
<input type="checkbox"/> Potential	1,217
<input type="checkbox"/> Current density	863

Category	Count
Articles	10,834
Nanomaterials	18,016
Patents	1,786

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)

Applications (1149)

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

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

独特的材料性质，可以勾选也可以自行输入

与graphene有关材料汇总有18016个，可再次筛选

期刊来源

Source	
Search	<input type="text"/>
<input type="checkbox"/> Nanoscale	2,913
<input type="checkbox"/> ACS Nano	1,845
<input type="checkbox"/> Adv. Mater.	1,554
<input type="checkbox"/> Nano Lett.	1,408
<input type="checkbox"/> Adv. Funct. Mater.	1,323
See the top 100	

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 ▲

材料应用，可以勾选也可以自行输入

Application	
<input type="checkbox"/> Energy storage	2,728
<input type="checkbox"/> Electronics	1,951
<input type="checkbox"/> Catalysis	1,628
<input type="checkbox"/> Electrodes/electrolytes	1,307
<input type="checkbox"/> Power generation	1,045
See all (69)	

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

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)

Hide quick view ^

Properties (596)
Emission
Value: 637 nm
Source: Tian, Ziao *et al.*, *Adv. Mater.*, 2017
Magnetic moment
Value: Details in source
Source: Stawińska, Jagoda and Cerdá, Jorge I., *Carbon*, 2014

Applications (191)
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

结构

表示该汇总基于385篇文章以及17个专利

表示该汇总介绍了 graphene 的596种性质

表示该汇总介绍了 graphene 的191种应用

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	具体数值 0.167 $\Omega\cdot\text{cm}$ [0.00167 $\Omega\cdot\text{m}$]	材料的尺寸以及基底类别 Thickness: 40 nm Medium/Support: none	数据来源以及该性质是由实验证明还是模拟计算 Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	0.040 $\Omega\cdot\text{cm}$ [0.0004 $\Omega\cdot\text{m}$]	Thickness: 20 nm Medium/Support: none	Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	312 $\Omega\cdot\text{cm}$ [3.12 $\Omega\cdot\text{m}$]	Thickness: 3 nm Medium/Support: none	Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	0.034 $\Omega\cdot\text{cm}$ [0.00034 $\Omega\cdot\text{m}$]	Thickness: 30 nm Medium/Support: none	Experiment in Morteza Najarian, Amin et al., ACS Nano, 2016
	0.00074 $\Omega\cdot\text{cm}$ [0.0000074 $\Omega\cdot\text{m}$]	RMS roughness: ~ 5 nm Thickness: 20 nm Medium/Support: none	Experiment in Matti Tomi et al., Nanoscale, 2015
	0.000015 $\Omega\cdot\text{m}$	Thickness: 74 nm Medium: none Support: silica glass	Experiment in Lai, Liang-Hsun et al., Thin Solid Films, 2014

与graphene有关的专利汇总

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)

在这篇专利中一共介绍了
5种graphene的材料

Curated summaries
for nanomaterials

discussing: applications
properties | preparations
toxicity...

[See all \(5\)](#)

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 \(3\)](#)

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