

# API Web of Science

Какие возможности он открывает

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# Пользовательский интерфейс Web of Science

И эти же данные, полученные через API

**Electric field effect in atomically thin carbon films**

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[View Web of Science ResearcherID and ORCID](#) (provided by Clarivate)

SCIENCE  
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**Abstract**  
We describe monocrystalline graphitic films, which are a few atoms thick but are nonetheless stable under ambient conditions, metallic, and of remarkably high quality. The films are found to be a two-dimensional semimetal with a tiny overlap between valence and conduction bands, and they exhibit a strong ambipolar electric field effect such that electrons and holes in concentrations up to 10<sup>13</sup> per square centimeter and with room-temperature mobilities of similar to 10,000 square centimeters per volt-second can be induced by applying gate voltage.

**Keywords**  
Keywords Plus: [GRAPHITE](#); [NANOTUBES](#); [GRAPHENE](#); [DEVICES](#)

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Funding agency	Grant number	Show All Details
UK Research & Innovation (UKRI) Engineering & Physical Sciences Research Council (EPSRC)	GR/R73621/01	Show details

```
"Data": {
  "Records": {
    "records": {
      "REC": [
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          "static_data": {
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                "vol": 306,
                "pubyear": 2004,
                "issue": 5696,
                "sortdate": "2004-10-22",
                "has_abstract": "Y",
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                  "role": "author",
                  "full_name": "Novoselov, KS",
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                  "display_name": "Novoselov, KS",
                  "wos_standard": "Novoselov, KS",
                  "r_id": "G-9581-2014",
```

## Для чего

Необходим API

- Автоматизация выгрузки данных
- Получение данных Web of Science по большому массиву публикаций (больше 2000, но меньше 3 миллионов записей)
- Интеграция данных Web of Science в ваши приложения

## Какие API у нас бывают

- Web of Science Lite API
- Web of Science Expanded API
- Article Match Retrieve
- InCites API
- Journals API

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# Web of Science API

# Lite API

- Позволяет запрашивать отдельные публикации
- Возможности запросов практически идентичны возможностям запросов расширенного поиска в интерфейсе Web of Science

Позволяет получать следующие поля:

- **UT (Уникальный идентификатор публикации в Web of Science)**
- **Authors**
- Author keywords
- Document type
- Title
- Issue
- Pages
- Publication date
- **Source title**
- Volume
- **DOI**
- ISBN
- **ISSN**

## Expanded API

- Работает аналогично Lite API
  - Платный (с лимитом выгрузок в год)
  - Есть несколько разных уровней подписки
- Выгружает практически все метаданные публикаций Web of Science Core Collection, за исключением:
    - Ссылок на полный текст
    - Данных, связанных с импакт-фактором журнала (эти данные – в журнальном API)
  - Позволяет ли выгружать цитируемость?  
Да, конечно!

# Article Match Retrieve



# AMR

Он же – Links AMR

- Тоже бесплатный
- Возвращает данные о публикации, если у вас уже есть их идентификатор (DOI / UT / реквизиты издания)
- Позволяет регулярно обновлять цитируемость документов

```
<?xml version="1.0" encoding="UTF-8" ?>
<response xmlns="http://www.isinet.com/xrpc41" src="app.id=InternalVIVODemo">
  <fn name="LinksAMR.retrieve" rc="OK">
    <map>
      <map name="cite_1">
        <map name="WOS">
          <val name="sourceURL">
            <![CDATA[http://gateway.webofknowledge.com/gateway/Gateway.cgi?
GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=LinksAMR&KeyUT=WOS:000177861600001&DestLinkType=FullRecord&DestApp=ALL_WOS&UsrCustomerID=dc101
777b18a39292144c8423537a284]]>
          </val>
          <val name="issn">0029-5981</val>
          <val name="citingArticlesURL">
            <![CDATA[http://gateway.webofknowledge.com/gateway/Gateway.cgi?
GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=LinksAMR&KeyUT=WOS:000177861600001&DestLinkType=CitingArticles&DestApp=ALL_WOS&UsrCustomerID=d
c101777b18a39292144c8423537a284]]>
          </val>
          <val name="timesCited">49</val>
          <val name="relatedRecordsURL">
            <![CDATA[http://gateway.webofknowledge.com/gateway/Gateway.cgi?
GWVersion=2&SrcApp=PARTNER_APP&SrcAuth=LinksAMR&KeyUT=WOS:000177861600001&DestLinkType=RelatedRecords&DestApp=ALL_WOS&UsrCustomerID=d
c101777b18a39292144c8423537a284]]>
          </val>
          <val name="title">An efficient diagonal preconditioner for finite element solution of Biot's consolidation
equations</val>
          <val name="ut">000177861600001</val>
          <val name="doi">10.1002/nme.500</val>
        </map>
      </map>
    </map>
  </fn>
</response>
```

# InCites API

# InCites API

- Также работает по запросам отдельных публикаций, по публикациям конкретного года или по публикациям вашей организации
- Отличное решение для продвинутой библиометрической аналитики
- Нет ограничения по количеству выгружаемых публикаций

```
"api": [  
  {  
    "name": "IncitesWebServices.getDocumentLevelMetricsByUT",  
    "rval": [  
      {  
        "IS_INTERNATIONAL_COLLAB": "1",  
        "TIMES_CITED": "42411",  
        "JOURNAL_EXPECTED_CITATIONS": "489.089965",  
        "IMPACT_FACTOR": "41.846",  
        "OPEN_ACCESS": {  
          "OA_FLAG": "0"  
        },  
        "IS_INDUSTRY_COLLAB": "0",  
        "JNCI": "86.71",  
        "PERCENTILE": [  
          {  
            "CODE": "R0",  
            "CAT_PERC": "100.0",  
            "SUBJECT": "MULTIDISCIPLINARY SCIENCES",  
            "CAT_EXP_CITATION": "115.76579284667969",  
            "IS_BEST": "true",  
            "CNCI": "366.3517"  
          }  
        ],  
        "IS_INSTITUTION_COLLAB": "1",  
        "HARMEAN_CAT_EXP_CITATION": "115.7658",  
        "AVG_CNCI": "366.3517",  
        "DOCUMENT_TYPE": "Article",  
        "ACCESSION_NUMBER": "000224756700045",  
        "ESI_HIGHLY_CITED_PAPER": "0",  
        "ESI_HOT_PAPER": "0"  
      }  
    ]  
  }  
]
```

# Journals API

# Journals API

Только появился в доступе

- Импакт-факторы, проценти́ли, кварти́ли
- Use case: многие университеты формируют свои «белые» списки для опубликования. Лучший способ автоматизировать подсчёт квартилей – это Web of Science Journals API

```
{
  "year": 2017,
  "journal": {
    "id": "PLOS_ONE",
    "self": "/journals/PLOS_ONE",
    "name": "PLoS One"
  },
  "metrics": {
    "impactMetrics": {
      "totalCites": 582878,
      "jif": "2.766",
      "jif5Years": 3.352,
      "immediacyIndex": 0.405
    },
    "influenceMetrics": {
      "eigenFactor": {
        "score": 1.86157,
        "normalized": 217.45
      },
      "articleInfluence": 1
    },
    "sourceMetrics": {
      "citableItems": {
        "total": 20328,
        "articlesPercentage": 97.993
      },
      "jifPercentile": 77.344,

```

# Технические вопросы доступа

# Clarivate Developer Portal

Все API Web of Science на одном портале

<https://developer.clarivate.com/>

- Описания всех API
- Техническая документация
- Регистрация собственных приложений

The screenshot shows the Clarivate Developer Portal's API index page. At the top, there is a navigation bar with the Clarivate logo and links for Home, APIs, Applications, Contact, and Content. The user's name, Pavel Kasyanov, and a settings gear icon are visible in the top right corner. The main heading is "APIs" with the subtitle "This is the index of available APIs." Below this, a note states: "Click on an API below to learn more and view subscription options. Or find information about Scholar One Manuscripts, Cortellis, or Derwent Innovation APIs by clicking on the appropriate links. Note: The approval process may take a few days." On the left, there is a filter section titled "API Categories" with checkboxes for EndNote, InCites, Web of Science, Publons, Converis, and Metabase. The "InCites", "Web of Science", and "Publons" categories are selected. There are "Filter" and "Clear" buttons below the list. The main content area displays three API cards, each with a gear icon and a key icon. The first card is for "InCites Document Level Metrics API", the second for "Web of Science API Expanded", and the third for "Web of Science API Lite". Each card includes a brief description and an "Information »" button.

Clarivate™ Home APIs Applications Contact Content Pavel Kasyanov ⚙️

## APIs



This is the index of available APIs.

Click on an API below to learn more and view subscription options. Or find information about [Scholar One Manuscripts](#), [Cortellis](#), or [Derwent Innovation](#) APIs by clicking on the appropriate links.  
Note: The approval process may take a few days.

**API Categories**

- EndNote
- InCites
- Web of Science
- Publons
- Converis
- Metabase



Filter Clear



### InCites Document Level Metrics API

The InCites API provides document level metrics to support integration in Research Management Systems or Current Research Information Systems (CRIS).



Information »



### Web of Science API Expanded

Support search and data integration using Web of Science data returned as JSON or XML.

Information »



### Web of Science API Lite

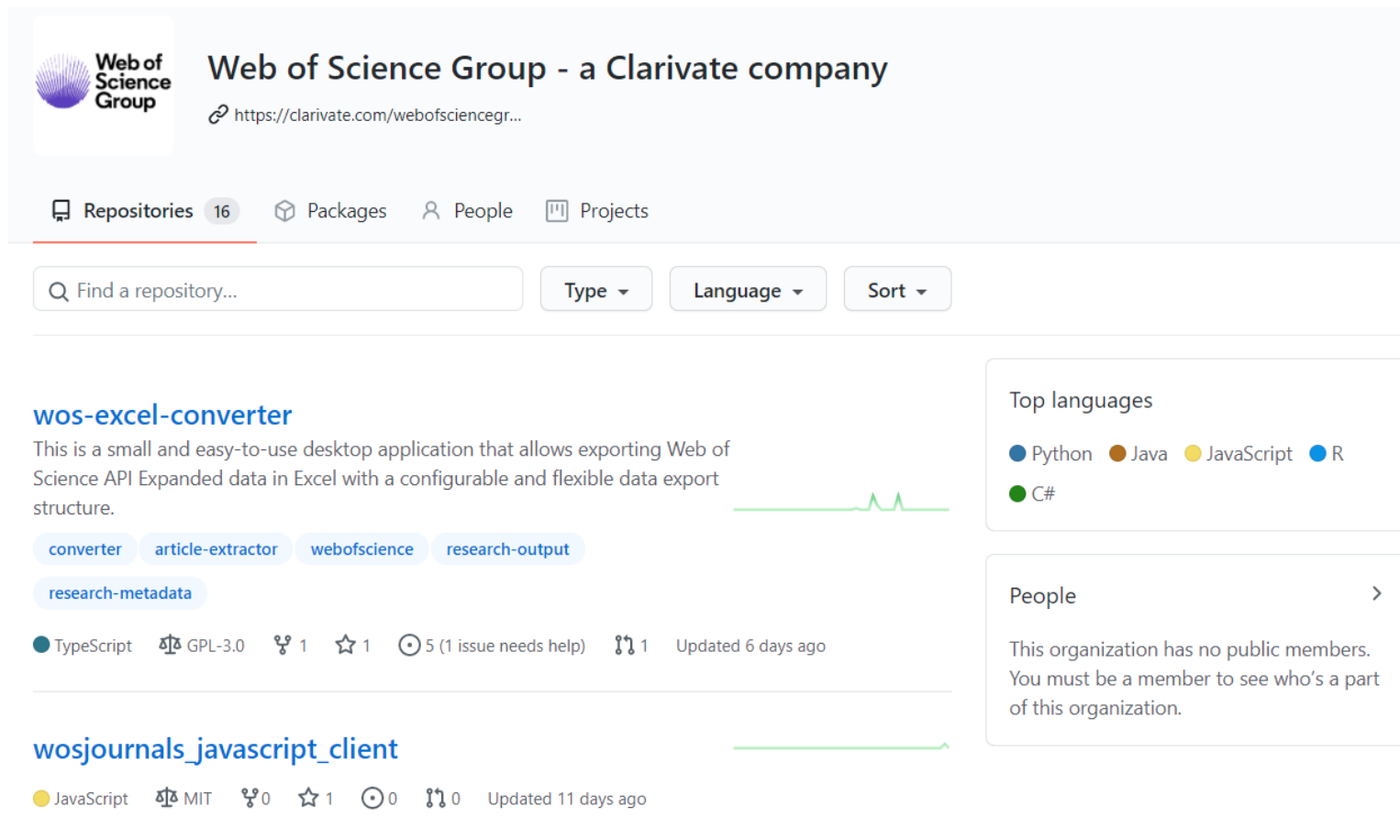
Support search and data integration using Web of Science data returned as JSON or XML.

Information »

# Наша страничка на GitHub

<https://github.com/Clarivate-SAR>

- Удобные приложения и примеры кода для автоматизации запросов и обработки наших данных популярными языками программирования
- Регулярно обновляется



The screenshot shows the GitHub organization page for "Web of Science Group - a Clarivate company". The page header includes the organization's logo and name, along with a link to their website. Below the header, there are navigation tabs for "Repositories" (16), "Packages", "People", and "Projects". A search bar is present with the text "Find a repository...". The main content area displays two repositories:

- wos-excel-converter**: A TypeScript application for exporting Web of Science API data to Excel. It includes tags for "converter", "article-extractor", "webofscience", "research-output", and "research-metadata". It has 1 star, 5 issues (1 needs help), and was updated 6 days ago.
- wosjournals\_javascript\_client**: A JavaScript client for Web of Science journals. It has 1 star and was updated 11 days ago.

On the right side, there are two sidebars:

- Top languages**: A chart showing the most used languages: Python, Java, JavaScript, R, and C#.
- People**: A section indicating that the organization has no public members and that users must be members to see who's a part of the organization.



# Пример приложения

Если вы не программист, но у вашей организации есть доступ к Web of Science Expanded API и вы хотите выгрузить большие объёмы данных Web of Science Core Collection в MS Excel

**Web of Science™**  
API Expanded Excel Converter

1. API Token  Remaining records: 981,721

2. Search details  Records found: 1,163

3. Attribute selection

4. Generate File

4. Generate file

Directory of file: C:\Users\Pavel

Filename: WOS\_Export

For every 10,000 records will be created, i.e. pages

Define the range: 1

**Start export**

	A	B	C	D	E	F	G	H	I	
1	UT	Database	edition	doctype_1	doctype_2	doctype_3	doctype_4	primaryLanguage	citedReferences	cita
2	WOS:000660773800002	WOS	WOS.ESCI	Review				English	82	
3	WOS:000660592000001	WOS	WOS.SCI	Article	Early Access			English	29	
4	WOS:000660061800001	WOS	WOS.SCI	Article				English	65	
5	WOS:000656589700148	WOS	WOS.ISTP	Proceedings Paper				English	16	
6	WOS:000659922300001	WOS		Article				English	50	
7	WOS:000656251000013	WOS	WOS.SSCI	Article				English	34	
8	WOS:000656251000003	WOS	WOS.SSCI	Article				English	60	
9	WOS:000656638700329	WOS	WOS.SCI	Meeting Abstract				English	0	
10	WOS:000656719000007	WOS	WOS.SCI	Article				English	19	
11	WOS:000657739900003	WOS		Editorial Material				English	11	
12	WOS:000655594700014	WOS	WOS.SCI	Article				English	81	
13	WOS:000657121200031	WOS	WOS.SCI	Review				English	76	
14	WOS:000657393800002	WOS	WOS.SCI	Editorial Material				English	8	
15	WOS:000657704900001	WOS	WOS.ESCI	Article				English	18	
16	WOS:000649299600010	WOS	WOS.SCI	Article				English	37	
								English	11	

ResearchOutput | AddressesAndAuthors | AuthorsWOAddress | Grants

## В заключение

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# Спасибо!

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