

Лекция 7

Базы данных

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Темы лекции

- Патентные источники
- Базы данных NIST

Поисковые системы издательств:

- ScienceDirect
- SpringerLink
- Wiley
- SciFinder

Федеральное государственное бюджетное учреждение «Федеральный институт промышленной собственности» (ФИПС); РФ, Москва, Бережковская набережная, д. 30, корпус 1

На главную

РОСПАТЕНТ

новости

о ФИПС

Устав

Структура и руководство

История ФИПС

Основная деятельность

Вакансии

Закупки ФИПС

Обращения граждан

платные услуги ФИПС

ПАТЕНТНО-ИНФОРМАЦИОННЫЕ ПРОДУКТЫ

ПОШЛИНЫ

МЕЖДУНАРОДНОЕ СОТРУДНИЧЕСТВО

СОТРУДНИЧЕСТВО С РЕГИОНАМИ РОССИИ

КОНФЕРЕНЦИИ, СЕМИНАРЫ


ФИПС

О ФИПС

Федеральное государственное бюджетное учреждение «Федеральный институт промышленной собственности» (далее - Институт) создано в результате реорганизации Федерального государственного учреждения «Федеральный институт промышленной собственности Федеральной службы по интеллектуальной собственности, патентам и товарным знакам» и Федерального государственного учреждения «Палата по патентным спорам Федеральной службы по интеллектуальной собственности, патентам и товарным знакам» в форме присоединения второго учреждения к первому в соответствии с распоряжением Правительства Российской Федерации от 01 декабря 2008 г. № 1791-р.

Институт является правопреемником Федерального государственного учреждения "Федеральный институт промышленной собственности Федеральной службы по интеллектуальной собственности, патентам и товарным знакам", ранее именовавшегося Государственным учреждением "Федеральный институт промышленной собственности" (некоммерческая организация), созданного постановлением Правительства Российской Федерации от 19 сентября 1997 г. № 1203 на базе Всероссийского научно-исследовательского института государственной патентной экспертизы, Управления прав промышленной собственности и Производственного предприятия "Патент" путем их слияния и присоединения к нему в качестве структурных подразделений Всероссийской патентно-технической библиотеки и Российского агентства по правовой охране программ для электронных вычислительных машин, баз данных и топологий интегральных микросхем, и Федерального государственного учреждения "Палата по патентным спорам Федеральной службы по интеллектуальной собственности, патентам и товарным знакам", ранее именовавшегося Государственным учреждением "Палата по патентным спорам Российского агентства по патентам и товарным знакам", созданного в результате переименования Государственного учреждения "Апелляционная палата Российского агентства по патентам и товарным знакам" на основании приказа Российского агентства по патентам и товарным знакам от 13.02.2003 № 19.

Полное официальное наименование Института на русском языке: Федеральное государственное бюджетное учреждение



В меню (справа, сверху) - раздел «ССЫЛКИ»

Ссылки на интернет-ресурсы

ФИПС - Федеральное г

www1.fips.ru/wps/wcm/connect/content_ru/ru/link_resources

 **ФИПС** ФЕДЕРАЛЬНОЕ ГОСУДАРСТВЕННОЕ БЮДЖЕТНОЕ УЧРЕЖДЕНИЕ
ФЕДЕРАЛЬНЫЙ ИНСТИТУТ ПРОМЫШЛЕННОЙ СОБСТВЕННОСТИ

Поиск Карта сайта Контакты Ссылки English

Сайт ФИПС → Ссылки

На главную

РОСПАТЕНТ

НОВОСТИ
О ФИПС

ПЛАТНЫЕ УСЛУГИ ФИПС

ПАТЕНТНО-ИНФОРМАЦИОННЫЕ ПРОДУКТЫ

ПОШЛИНЫ

МЕЖДУНАРОДНОЕ СОТРУДНИЧЕСТВО

СОТРУДНИЧЕСТВО С РЕГИОНАМИ РОССИИ

КОНФЕРЕНЦИИ, СЕМИНАРЫ

НАУЧНАЯ ДЕЯТЕЛЬНОСТЬ

ОБУЧЕНИЕ

ОТДЕЛЕНИЕ «ВСЕРОССИЙСКАЯ ПАТЕНТНО-ТЕХНИЧЕСКАЯ БИБЛИОТЕКА»

ОТДЕЛЕНИЕ «ПАЛАТА ПО ПАТЕНТНЫМ СПОРАМ»

ЭЛЕКТРОННОЕ ВЗАИМОДЕЙСТВИЕ С ЗАЯВИТЕЛЯМИ

Ссылки на интернет ресурсы

Ссылки

Ссылки на сайты патентных ведомств и международных организаций, БД зарубежных патентных ведомств, российские научно-технические и патентные БД, полезные ресурсы для специалистов в области патентного дела, интернет ресурсы в области авторского права и смежных прав



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- [Российские БД](#)
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- [Полезные ресурсы](#)
- [Авторское право](#)

Дата последнего обновления:
04 апреля 2017

Нормативно-правовые акты
Библиотека загрузок

0:42
27.02.2019


Всемирная организация интеллектуальной собственности (ВОИС) – //www.wipo.int

«Патентные ведомства и международные организации» - ссылки на сайты большинства патентных ведомств мира и на сайты международных организаций по интеллектуальной собственности.

Международные организации

Название	Код*	URL-адрес
Африканская организация интеллектуальной собственности (OAPI)	OA	http://www.oapi.int/
Африканская региональная организация интеллектуальной собственности (ARIPO)	AP	http://www.aripo.org/
Ведомство Бенилюкса по интеллектуальной собственности (BOIP)	BX	http://www.boip.int/
Ведомство Европейского союза по интеллектуальной собственности (EUIPO)	EM	https://euipo.europa.eu/
Всемирная организация интеллектуальной собственности (ВОИС)	WO	http://www.wipo.int/
Евразийское патентное ведомство (EAПВ)	EA	http://www.eapo.org/
Европейское патентное ведомство (ЕПВ)	EP	http://www.epo.org/
Межгосударственный совет по охране интеллектуальной собственности (МГСИС)		http://www.rupto.ru/activities/inter/eapo
Международный союз по охране новых сортов растений (UPOV)	XU	http://www.upov.int/
Патентное ведомство совета по сотрудничеству арабских государств Персидского залива (GCC Patent Office)	GC	http://www.gccpo.org/

Национальные патентные ведомства

Страна	Код страны*	Промышленная собственность	Авторское право
 Азербайджан	AZ	http://www.azstand.gov.az/	http://www.copag.gov.az/

Database PATENTSCOPE – БД патентов

The screenshot shows a web browser window with the following elements:

- Browser Tab:** "ФИПС - Федеральное госу, PATENTSCOPE"
- Address Bar:** "https://www.wipo.int/patentscope/en/"
- Page Title:** "PATENTSCOPE"
- Main Text:**

The PATENTSCOPE database provides access to international Patent Cooperation Treaty (PCT) applications in full text format on the day of publication, as well as to patent documents of participating national and regional patent offices.

The information may be searched by entering keywords, names of applicants, international patent classification and many other search criteria in multiple languages.
- Call to Action:** A dark blue button with white text: "Access the PATENTSCOPE database"
- Video Placeholder:** A video thumbnail showing a world map with a play button and the caption: "Video: What is PATENTSCOPE and why use it?"
- News Section:**
 - News** (Section Header)
 - All news** (Filter button)
 - Substructure Search Now Available in PATENTSCOPE** (News Title)
February 11, 2019
 - Five New Collections now Available in PATENTSCOPE** (News Title)
December 20, 2018
- World Map:** A world map composed of colorful dots, with a caption: "(IMAGE: ISTOCKPHOTO.COM/CVASIMODO)"
- Taskbar:** Windows taskbar at the bottom with various application icons and system tray information (0:45, 27.02.2019).

Меню поиска патентов

БД Patentscope содержит 74 млн. патентных документов,
3,5 млн. заявок на патент РСТ

ФИПС - Федеральное госу PATENTSCOPE VOИС - Поиск по нацц

https://patentscope.wipo.int/search/ru/search.jsf

Мобильная версия | Deutsch | English | Español | Français | 日本語 | 한국어 | Português | 中文 | العربية |

WIPO PATENTSCOPE
Поиск по международным и национальным патентным фондам

WORLD INTELLECTUAL PROPERTY ORGANIZATION

Поиск | Просмотреть | Перевод | Новости

Стартовая страница > Услуги в области ИС > PATENTSCOPE

Простой поиск

Система PATENTSCOPE позволяет производить поиск в 74 млн. патентных документов, включая 3.5 млн. опубликованных международных заявок на патент (РСТ). Подробную информацию о сфере охвата базы данных можно получить здесь

Титульный лист [?] Ведомство: Все [Показать результаты]

- Титульный лист
- Любое поле
- Полный текст
- Русский текст
- Идентификатор/Номер
- Междунар. классификация (МПК)
- Имена
- Даты

019 открыта для общего доступа. Следующая дата публикации запланирована следующим образом: Бюллетень

0:46 27.02.2019

Список найденных патентов

Тема поиска: Ионообменные смолы

ФИПС - Федеральное госу, PATENTSCOPE | ВОИС - Поиск по наци

https://patentscope.wipo.int/search/ru/result.jsf

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Поиск по международным и национальным патентным фондам

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Q Поиск | Просмотреть | Перевод | Новости

Стартовая страница | Услуги в области ИС | PATENTSCOPE

Результаты 1-10 по 195 484 для Критерий: ALLTXT:(ion exchange resins) Ведомство(-а): all Язык: RU Сокращение до основы слова (стемминг): true

1 2 3 4 5 6 7 8 9 10 Page: 1 / 19549 Go

Уточнить поиск ALLTXT:(ion exchange resins) Показать результаты RSS

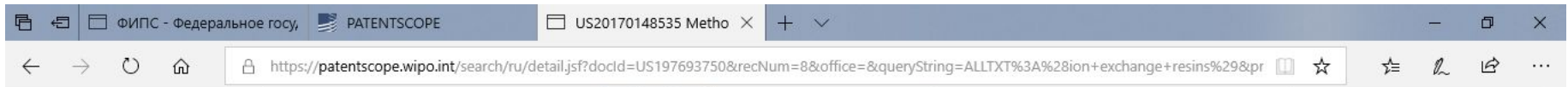
Анализ

Сортировать по: Релевантность View Все Длина списка 10 Автоматизированный перевод Side-by-side

Класс МПК	№ заявки	Название	Заявитель	Страна	Дата публикации	Изобретатель
1. 4191812	05943891	ion exchange process involving emulsion ion exchange resins	Rohm and Haas Company	US	04.03.1980	Chong Berni P.
<p>ions are exchanged between emulsion ion exchange resins and conventional ion exchange resins during both batch and column contact. This process may be used to place the emulsion resin or the conventional resin in the desired ionic form.</p>						
2. 0009396	79301938	Process for ion exchange between fine particle size ion exchange resins and macrobead ion exchange resins.	ROHM & HAAS	EP	02.04.1980	CHONG BERNI PATRICIA
<p>ion exchange can be carried out between ion exchange resins having a particle size of 0.01 to 1.5 micrometers and macrobead ion exchange resins having a particle size of at least 40 micrometers in batch and continuous processes. This can be used to place the fine resins in a desired ionic form either during their preparation or to regenerate them after use. Individual or mixed fine resins and individual or mixed macrobead resins can be used in this way.</p>						
3. 4122048	05822319	Process for conditioning contaminated ion-exchange resins	Commissariat a l'Energie Atomique	US	24.10.1978	Buchwalder Michel
<p>Process for conditioning contaminated ion-exchange resins, more particularly contaminated cationic resins, wherein the contaminated ion-exchange resin or resins are</p>						

0:48 27.02.2019

Библиографические данные патентов



8. (US20170148535) Method for treatment of spent radioactive ion exchange resins

Нац. библиограф. данные

Описание

Формула изобретения

Чертежи

Документы

Постоянная ссылка

Номер заявки: 15358216 Дата заявки: 22.11.2016

Номер публикации: 20170148535 Дата публикации: 25.05.2017

Номер предоставленного патента: 10157691 Дата выдачи патента: 18.12.2018

Вид публикации: B2

МПК:	G21F 9/04 ?	СРС:	C02F 1/42
	G21F 9/08		C02F 2101/006
	C02F 1/42		C02F 2103/023
	G21F 9/12		G21F 9/08
	G21F 9/16		G21F 9/12
	G21F 9/30		G21F 9/16
	C02F 101/00		G21F 9/30
	C02F 103/02		G21Y 2002/60
			G21Y 2004/201

Заявители: KOREA ATOMIC ENERGY RESEARCH INSTITUTE

Изобретатели:
Hee-Chul Yang
Min-Hoon Baik
Hyung-Ju Kim
Dong Yong Chung
Jong-Won Choi

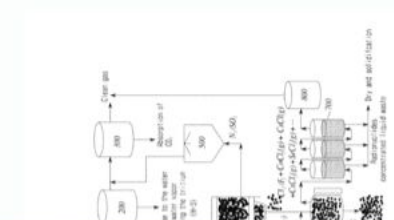
Агенты: Maier & Maier, PLLC

Дата приоритета: 10-2015-0165723 25.11.2015 KR

Название: (EN) Method for treatment of spent radioactive ion exchange resins

Реферат: (EN)

[A] method and an apparatus for the treatment of waste ion exchange resins containing radionuclides, and further relating to a method for the treatment of waste ion exchange resins containing radionuclides by the stepwise heat treatment and an apparatus to accomplish the method.



Patentscope

ФИПС - Федеральное госу, PATENTSCOPE US20170148535 Metho

https://patentscope.wipo.int/search/ru/detail.jsf?docId=US197693750&tab=PCTDESCRIPTION&office=&prevFilter=&sortOption=%D0%A0%D0%B5%D1

WIPO PATENTSCOPE

Поиск по международным и национальным патентным фондам

WORLD INTELLECTUAL PROPERTY ORGANIZATION

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Стартовая страница | Услуги в области ИС | PATENTSCOPE

← ↑ → Автоматизированный перевод

8. (US20170148535) Method for treatment of spent radioactive ion exchange resins

Нац. библиограф. данные | Описание | Формула изобретения | Чертежи | Документы

Примечание: Текст, основанный на автоматизированных процессах оптического распознавания знаков. Для юридических целей просьба использовать вариант в формате PDF

BACKGROUND OF THE INVENTION

1. Field of the Invention

The present invention relates to a method and an apparatus for the treatment of waste ion exchange resins containing radionuclides. More precisely, the present invention relates to a method for the treatment of waste ion exchange resins containing radionuclides by the stepwise heat treatment and an apparatus to accomplish the said method.

2. Description of the Related Art

The basic concept of treating liquid radioactive waste in light water nuclear power plants in Korea is to treat the waste by evaporating using a waste liquid evaporator, concentrating, and solidifying thereof using paraffin as a solidifying agent. However, all the different impurities included in the radioactive waste liquid generate foams and scales in the evaporator, and accordingly the performance of the evaporator is reduced and the operation costs is increased because of the frequent maintenance, resulting in the problem of continuous running of the evaporator. To solve the problem, studies have been actively going on about the method for the treatment of waste liquid using organic/inorganic ion exchange resins, microfiltration or ultrafiltration membranes, and reverse osmosis membranes.

The ion exchange resin being used to treat radioactive waste liquid is prepared by combining a polymeric gas in a fine three-dimensional structure with an ion exchanger, which is composed of the polymers to exchange and purify the ionic substances dissolved in the polar or non-polar solution. The system of purifying waste liquid is accomplished by replacing the movable ions included in the ion exchange resin with other ions. Such ion exchange resin has been used in various water treatment processes for the purpose of separation, purification, and decontamination. Particularly in nuclear power industry, the ion exchange resin has been used to purify cleaning water or cooling water in a nuclear power plant. However, the ion exchange resin becomes a waste ion exchange resin when it is worn out. The waste ion exchange resin is still in the form of a polymer having excellent mechanical strength or chemical resistance, and the functional group on the surface of the waste ion exchange resin remains as the ion exchange form after the replacement with radionuclides. Therefore, it is very difficult to separate and extract the radionuclide attached on the resin, making the waste ion exchange resin one of the most difficult combustible radioactive wastes to treat in a nuclear power plant.

0:49 27.02.2019

Patentscope

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Поиск | Просмотреть | Перевод | Новости

Стартовая страница | Услуги в области ИС | PATENTSCOPE

8. (US20170148535) Способ обработки отработанных ионообменных смол радиоактивных ионов

Нац. библиограф. данные | Описание | **Формула изобретения** | Чертежи | Документы

Примечание: Текст, основанный на автоматизированных процессах оптического распознавания знаков. Для юридических целей просьба использовать вариант в формате PDF

требования

- Способ обработки отходов **ионных обменных смол**, содержащих радионуклиды, включающие в себя следующие этапы:
 - сушки отходов **ионных обменных смол**, содержащих радионуклиды (этап 1);
 - отделяющее **ионный** теплообменник, содержащий радионуклиды из высушенных отходов **ионного обмена** смолы с поддержанием диоксида серы в реакторе (этап 2);
 - превращение летучего соединения, содержащего радионуклиды, полученные из **ионного** теплообменника, разделенный выше, в нелетучие оксиды серы, содержащих радионуклиды (этап 3);
 - превращения оксидов серы, содержащих радионуклиды выше, в хлориды, содержащих радионуклиды (этап 4); а также отделения и сбора радионуклидов из хлоридов, содержащих радионуклиды выше путем испарения и конденсации (стадия 5), отличающийся тем, что разделение **ионного** теплообменника на стадии 2 проводят при 150–400 ° C
- Способ обработки отходов **ионных обменных смол**, содержащих радионуклиды в соответствии с п.1, отличающимся тем, что способ дополнительно включает в себя этап формирования обугленных материалов из оставшегося органического материала, генерируемого в отходах **ионного обмена** смоле, чья **ионный** теплообменник был отделен на стадии 2 выше.
- Способ обработки отходов **ионных обменных смол**, содержащих радионуклиды в соответствии с п.2, отличающийся тем, что образование углеродистых материалов проводят при 550–700 ° C
- Способ обработки отходов **ионных обменных смол**, содержащих радионуклиды в соответствии с п.1, отличающийся тем, что сушку на стадии 1 проводят при 100–150 ° C

Translated by google
русский
Технологии Google Переводчик

0:51
27.02.2019

Международный патентный классификатор МПК (МКИ)

The image shows a screenshot of a web browser displaying the WIPO International Patent Classification (IPC) page. The browser's address bar shows the URL <https://www.wipo.int/classifications/ipc/en/>. The page header features the WIPO logo and the text "WORLD INTELLECTUAL PROPERTY ORGANIZATION". Below the header, there is a navigation menu with links for "IP Services", "Policy", "Cooperation", "Knowledge", "About IP", and "About WIPO". A search bar labeled "Search WIPO" is also present. The main content area includes a breadcrumb trail: "Home > Knowledge > International Classifications > International Patent Classification". The title of the page is "International Patent Classification (IPC)". The main text describes the IPC as a hierarchical system established by the [Strasbourg Agreement 1971](#), used for classifying patents and utility models. A blue button labeled "Access the International Patent Classification" is located below the text. On the right side, there is a "Resources" section with a list of links: "General information on the IPC", "Guide to the IPC PDF", "IPC statistics", and "Frequently asked questions". The Windows taskbar is visible at the bottom of the screen, showing the time as 0:58 on 27.02.2019.

International Patent Classification (IPC)

The International Patent Classification (IPC), established by the [Strasbourg Agreement 1971](#), provides for a hierarchical system of language independent symbols for the classification of [patents](#) and utility models according to the different areas of technology to which they pertain. A new version of the IPC enters into force each year on January 1. [Find out more about the IPC.](#)

[Access the International Patent Classification](#)

Resources

- [General information on the IPC](#)
- [Guide to the IPC PDF](#)
- [IPC statistics](#)
- [Frequently asked questions](#)

Классы патентов

The screenshot displays the WIPO International Patent Classification (IPC) website. The browser address bar shows the URL: <https://www.wipo.int/classifications/ipc/ipcpub/?notion=scheme&version=20190101&symbol=none&menulang=en&lang=en&viewmode=f&fipcp=n>. The page features a navigation menu with options like Home, Knowledge, International Classifications, International Patent Classification, and IPC Publication. The main content area is titled 'Scheme' and lists the following classes:

Class	Description
A	HUMAN NECESSITIES
B	PERFORMING OPERATIONS; TRANSPORTING
C	CHEMISTRY; METALLURGY
D	TEXTILES; PAPER
E	FIXED CONSTRUCTIONS
F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
G	PHYSICS
H	ELECTRICITY

The left sidebar contains a search bar, a 'Results' section, a version selector set to '2019.01', and a language selector set to 'English version'. The bottom of the image shows a Windows taskbar with various application icons and a system tray displaying the time '0:59' and date '27.02.2019'.

National Institute of Standards and Technology

www.nist.gov

The image shows a screenshot of the NIST website homepage as viewed in a web browser. The browser's address bar displays "https://www.nist.gov/". The website header includes the NIST logo (National Institute of Standards and Technology, U.S. Department of Commerce) and a search bar labeled "Search NIST". A navigation menu below the header lists: TOPICS, PUBLICATIONS, LABS & MAJOR PROGRAMS, SERVICES & RESOURCES, NEWS & EVENTS, and ABOUT NIST. The main content area features three featured articles:

- Moving Forward While Giving Back: Continuing the Cycle of Mentorship** (Accompanied by a photo of a scientist in a lab coat and safety glasses working with equipment.)
- Avoiding the Crack of Doom** (Accompanied by a scientific visualization showing a crack in a material with arrows indicating stress or strain, and a 50 nm scale bar.)
- The Summer Undergraduate Research Fellowship program is now accepting applications** (Accompanied by a photo of a laboratory and a cartoon character wearing a lab coat and safety glasses.)

At the bottom of the page, the slogan "MEASURE INNOVATE LEAD" is displayed in large, bold, white letters. The Windows taskbar is visible at the very bottom, showing the time as 1:01 on 27.02.2019.

NIST – Reference Data

www.nist.gov/srd

STANDARD REFERENCE DATA

For over 50 years, NIST has developed and distributed Standard Reference Data in Chemistry, Engineering, Fluids and Condensed Phases, Material Sciences, Mathematical and Computer Sciences and Physics..

SHOP +

- SRD Catalog
- Free SRD
- SRD Sorted by Topic
- Public Law
- SRD Definition
- Critical Evaluation Criteria
- Journal of Physical and Chemical Reference Data
- National Standard Reference Data Series
- Related Data Products and Links +

Mass Spec: NIST/EPA/NIH Mass Spectral Library

ICSD: FIZ/NIST Inorganic Crystal Structure Database

REFPROP: NIST Reference Fluid Thermodynamic and Transport Properties

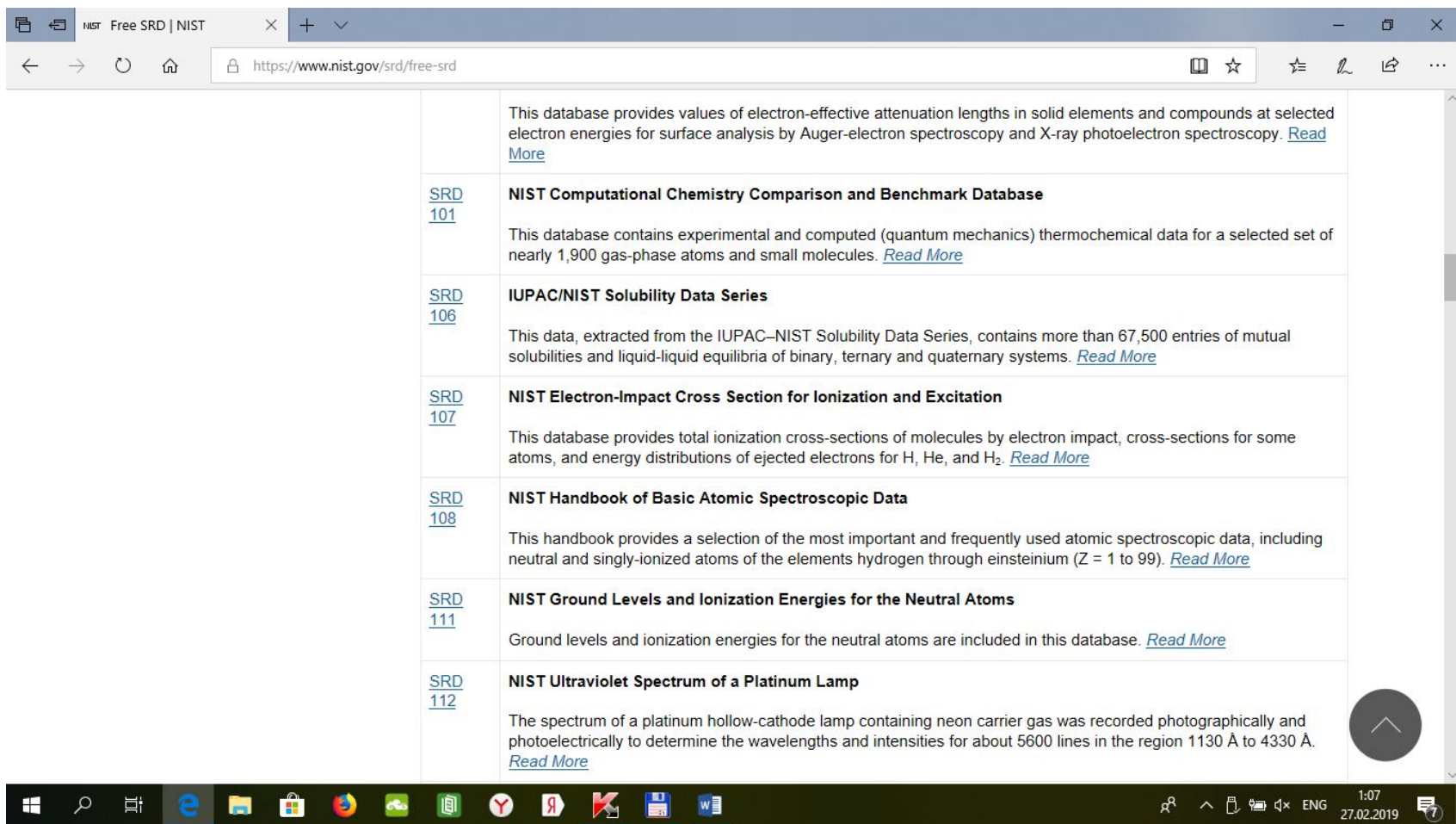
NIST produces the Nation's Standard Reference Data (SRD). These data are assessed by experts and are trustworthy such that people can use the data with confidence and base significant decisions on the data. NIST provides 49 free SRD databases and 41 fee-based SRD databases. SRD must be compliant with rigorous critical evaluation criteria.

Send questions to data@nist.gov or call 1(844) 374-0183 (Toll Free).

POPULAR DATA PRODUCTS

Windows taskbar: 1:03, 27.02.2019

NIST – Standard Reference Data



The screenshot shows a web browser window with the address bar displaying <https://www.nist.gov/srd/free-srd>. The page content is a list of seven databases, each with a link to 'Read More'.

	<p>This database provides values of electron-effective attenuation lengths in solid elements and compounds at selected electron energies for surface analysis by Auger-electron spectroscopy and X-ray photoelectron spectroscopy. Read More</p>
SRD 101	<p>NIST Computational Chemistry Comparison and Benchmark Database</p> <p>This database contains experimental and computed (quantum mechanics) thermochemical data for a selected set of nearly 1,900 gas-phase atoms and small molecules. Read More</p>
SRD 106	<p>IUPAC/NIST Solubility Data Series</p> <p>This data, extracted from the IUPAC–NIST Solubility Data Series, contains more than 67,500 entries of mutual solubilities and liquid-liquid equilibria of binary, ternary and quaternary systems. Read More</p>
SRD 107	<p>NIST Electron-Impact Cross Section for Ionization and Excitation</p> <p>This database provides total ionization cross-sections of molecules by electron impact, cross-sections for some atoms, and energy distributions of ejected electrons for H, He, and H₂. Read More</p>
SRD 108	<p>NIST Handbook of Basic Atomic Spectroscopic Data</p> <p>This handbook provides a selection of the most important and frequently used atomic spectroscopic data, including neutral and singly-ionized atoms of the elements hydrogen through einsteinium (Z = 1 to 99). Read More</p>
SRD 111	<p>NIST Ground Levels and Ionization Energies for the Neutral Atoms</p> <p>Ground levels and ionization energies for the neutral atoms are included in this database. Read More</p>
SRD 112	<p>NIST Ultraviolet Spectrum of a Platinum Lamp</p> <p>The spectrum of a platinum hollow-cathode lamp containing neon carrier gas was recorded photographically and photoelectrically to determine the wavelengths and intensities for about 5600 lines in the region 1130 Å to 4330 Å. Read More</p>

The Windows taskbar at the bottom shows the time as 1:07 on 27.02.2019.

J. Phys. Chem. Ref. Data

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Journal of Physical and Chemical Reference Data

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A Reference Equation of State for Heavy Water

A Relativistic Complex Optical Potential Calculation for Electron-Beryllium Scattering: Recommended Cross Sections

Reference Values and Reference Correlations for the Thermal Conductivity and Viscosity of Fluids

Temperature Dependence of Mineral Solubility in Water. Part 3. Alkaline and Alkaline Earth Sulfates

Phase Transition Enthalpy Measurements of Organic and Organometallic Compounds and Ionic Liquids. Sublimation, Vaporization, and Fusion Enthalpies from 1880 to 2015. Part 3

This website uses cookies to ensure the best user experience. [Learn more](#)

Got it!

1:04 27.02.2019

IUPAC – NIST Solubility Database

The image shows a screenshot of a web browser displaying the IUPAC-NIST Solubility Database website. The browser's address bar shows the URL <https://srdata.nist.gov/solubility/>. The website has a yellow background and a white sidebar on the left containing a list of navigation links: [Home](#), [Introduction](#), [Search Menu](#), [IUPAC Series \(PDF\)](#), [Reference](#), [Version History](#), [About the Project](#), [Disclaimer](#), [Contact Us](#), [Acknowledgements](#), and [Rate Our Products](#). The main content area is centered and features the following text:

IUPAC-NIST SOLUBILITY DATA SERIES

IUPAC-NIST Solubility Database, Version 1.1
NIST Standard Reference Database 106

Last Update to Data Content: 2012
DOI: <http://dx.doi.org/10.18434/T4QC79>

Data compiled and evaluated by
IUPAC (International Union of Pure and Applied Chemistry)

Distributed by the Office of Data and Informatics of the National Institute of Standards and Technology (NIST) Material Measurement Laboratory (MML).
Website is owned by NIST (an agency of the U.S. Department of Commerce)

[NIST Home Page](#) | [NIST Databases](#) | [Privacy Policy / Security Notice / Accessibility Statement](#)

Last updated: February 18, 2015 (Created: August 17, 2007)

The browser's taskbar at the bottom shows various application icons, including Windows, Edge, File Explorer, and several other programs. The system tray on the right indicates the time as 1:07 and the date as 27.02.2019.

Solubility Data Series – список томов в pdf-формате

Home
Introduction
Search Menu
[IUPAC Series \(PDF\)](#)
Reference
Version History
About the Project
Disclaimer
Contact Us
Acknowledgements
Rate Our Products

IUPAC SOLUBILITY DATA SERIES (ONLINE)

This website is the product of a collaboration between NIST and the IUPAC Analytical Chemistry Division, Commission on Solubility Data. The IUPAC Solubility Data Series documents found on this site are web-versions of the volumes. The original volumes were scanned by NIST into PDF files and digitized. Table of Contents are provided for Volumes 20-40, providing a description of the organization of each of the volumes. These volumes are available in sections. Other volumes will become available split into sections as time permits.

The best way to find a particular solubility system is to go to the system index given in each volume, look for the particular system, and (if found) go to the appropriate section(s) given in the table of contents.

[Volumes 1-19](#) [Volumes 20-38](#) [Volumes 39-65](#) [Volumes 66-103](#)

Volumes 1-19 are currently only available as single PDF files

YEAR	VOL	TITLE	SOURCE	EDITORS
1979	1	Helium and Neon	IUPAC SDS Vol 1	H.L. Clever
1979	2	Krypton, Xenon and Radon	IUPAC SDS Vol 2	H.L. Clever
1979	3	Silver Azide, Cyanide, Cyanamides, Cyanate, Selenocyanate and Thiocyanate	IUPAC SDS Vol 3	M. Salomon
1980	4	Argon	IUPAC SDS Vol 4	H.L. Clever
1981	5/6	Hydrogen and Deuterium	IUPAC SDS Vol 5/6	C.L. Young
1981	7	Oxygen and Ozone	IUPAC SDS Vol 7	R. Battino
1981	8	Oxides of Nitrogen	IUPAC SDS Vol 8	C.L. Young
1982	9	Ethane	IUPAC SDS Vol 9	W. Hayduk
1982	10	Nitrogen and Air	IUPAC SDS Vol 10	R. Battino

1:09
27.02.2019

NIST Chemistry WebBook. / US: National Institute of Standards and Technology. <http://webbook.nist.gov/chemistry>

webbook.nist.gov — Яндекс: x NIST Welcome to the NIST WebBook x

webbook.nist.gov

NIST National Institute of Standards and Technology
U.S. Department of Commerce

NIST Chemistry WebBook, SRD 69

Home Search NIST Data About

Welcome to the NIST Chemistry WebBook

The NIST Chemistry WebBook provides access to data compiled and distributed by NIST under the [Standard Reference Data Program](#).

The [NIST Chemistry WebBook](#) contains:

- **Thermochemical data for over 7000 organic and small inorganic compounds:**
 - Enthalpy of formation
 - Enthalpy of combustion
 - Heat capacity
 - Entropy
 - Phase transition enthalpies and temperatures
 - Vapor pressure
- **Reaction thermochemistry data for over 8000 reactions.**
 - Enthalpy of reaction
 - Free energy of reaction
- **IR spectra for over 16,000 compounds.**
- **Mass spectra for over 33,000 compounds.**
- **UV/Vis spectra for over 1600 compounds.**
- **Gas chromatography data for over 27,000 compounds.**
- **Electronic and vibrational spectra for over 5000 compounds.**
- **Constants of diatomic molecules (spectroscopic data) for over 600 compounds.**
- **Ion energetics data for over 16,000 compounds:**
 - Ionization energy
 - Appearance energy

10.1134-51063774509...pdf

Все скачанные файлы...

пуск Welcome to the NIST ... Total Commander 8.5... ЛЕКЦИЯ.doc [Режим...]

12:08

Поиск термодинамических данных по формуле

webbook.nist.gov — Яндекс. Chemical Formula Search

webbook.nist.gov/chemistry/form-ser/

NIST National Institute of Standards and Technology U.S. Department of Commerce **NIST Chemistry WebBook, SRD 69**

Home Search NIST Data About

Search for Species Data by Chemical Formula

Please follow the steps below to conduct your search ([Help](#)):

1. Enter the desired chemical formula (e.g., C₄H*Cl):
2. Select any desired options for the search:
 - Exactly match the specified isotopes. ([Help](#))
 - Allow elements not specified in formula. ([Help](#))
 - Allow more atoms of elements in formula than specified. ([Help](#))
 - Exclude ions from the search. ([Help](#))
3. Select the desired units for thermodynamic data:
 - SI calorie-based
4. Select the desired type(s) of data:

Thermodynamic Data	Other Data
<input type="checkbox"/> Gas phase	<input type="checkbox"/> IR spectrum
<input type="checkbox"/> Condensed phase	<input type="checkbox"/> THz IR spectrum
<input type="checkbox"/> Phase change	<input type="checkbox"/> Mass spectrum
<input type="checkbox"/> Reaction	<input type="checkbox"/> UV/Vis spectrum
<input type="checkbox"/> Ion energetics	<input type="checkbox"/> Gas Chromatography
<input type="checkbox"/> Ion cluster	<input type="checkbox"/> Vibrational & electronic energy levels
	<input type="checkbox"/> Constants of diatomic molecules
	<input type="checkbox"/> Henry's Law
5. Press here to search:

Chemical Formula Search Help

Rules for chemical formulas ([Back to search](#))

10.1134-51063774509...pdf

Все скачанные файлы...

ПУСК Chemical Formula Sea... Total Commander 8.5... ЛЕКЦИЯ.дос [Режин...]

12:08

Поиск по формуле: $C_7H_6O_2$

webbook.nist.gov — Яндекс Search Results

webbook.nist.gov/cgi/cbook.cgi?Formula=c7h6o2&NoIon=on&Units=SI&cTG=on&cIR=on&cTC=on&cTZ=on&cTP=on&cMS=on&cJW=on&cGC=on&cE=on

NIST National Institute of Standards and Technology
U.S. Department of Commerce

NIST Chemistry WebBook, SRD 69

Search NIST Data About

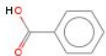




Search Results

11 matching species were found.

For each matching species the following will be displayed:

- Chemical name
- Chemical formula
- Structure image (if available)

Click on the name to see more data.

1. [Benzoic Acid](#) ($C_7H_6O_2$)

2. [Benzaldehyde, 2-hydroxy-](#) ($C_7H_6O_2$)

3. [Benzaldehyde, 4-hydroxy-](#) ($C_7H_6O_2$)

4. [p-Benzoquinone, 2-methyl-](#) ($C_7H_6O_2$)

5. [2-Hydroxy-2,4,6-cycloheptatriene-1-one](#) ($C_7H_6O_2$)

6. [2-\(2-Ethynyl\)-2-propenal](#) ($C_7H_6O_2$)

10.1134-S1063774509....pdf

Все скачанные файлы...

пуск Search Results - Goo... Total Commander 8.5... ЛЕКЦИЯ.doc [Режим...]

12:09

Данные: бензойная кислота

webbook.nist.gov — Яндекс: Benzoic Acid

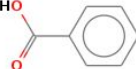
webbook.nist.gov/cgi/cbook.cgi?ID=C65850&Units=SI&Mask=2F97

NIST National Institute of Standards and Technology
U.S. Department of Commerce

NIST Chemistry WebBook, SRD 69

Home Search NIST Data About

Benzoic Acid

- Formula:** C₇H₆O₂
- Molecular weight:** 122.1213
- IUPAC Standard InChI:**
 - InChI=1S/C7H6O2/c8-7(9)6-4-2-1-3-5-6/h1-5H,(H,8,9)
 - [Download the identifier in a file.](#)
- IUPAC Standard InChIKey:** WPMKLEBDIGXBTP-UHFFFAOYSA-N
- CAS Registry Number:** 65-85-0
- Chemical structure:** 

This structure is also available as a [2d Mol file](#) or as a [computed 3d SD file](#).
The 3d structure may be viewed using [Java](#) or [Javascript](#).

- Other names:** Benzenecarboxylic acid; Benzeneformic acid; Benzenemethanoic acid; Benzoesaure GK; Benzoesaure GV; Carboxybenzene; Dracylic acid; Phenylcarboxylic acid; Phenylformic acid; Retarder BA; Retardex; Salvo, liquid; Solvo, powder; Tenn-Plas; Acide benzoique; Benzoic acid, tech.; Kyselina benzoova; Benzoesaure; Salvo powder; E 210; HA 1; HA 1 (acid); Phenylcarboxy; Benzenemethonic acid; Diacylic acid; Flowers of benjamin; Flowers of benzoïn; Oracylic acid; Retarder BAX; NSC 149
- Permanent link** for this species. Use this link for bookmarking this species for future reference.
- Information on this page:**
 - [Gas phase thermochemistry data](#)
 - [Condensed phase thermochemistry data](#)
 - [Phase change data](#)
 - [Henry's Law data](#)
 - [IR Spectrum](#)
 - [Mass spectrum \(electron ionization\)](#)
 - [UV/Visible spectrum](#)
 - [Gas Chromatography](#)
 - [References](#)
 - [Notes](#)
- Other data available:**

пуск Benzoic Acid - Google... Total Commander 8.5... ЛЕРЦИЯ.doc [Режим...]

12:09

Поиск по названию: benz*

- Methyl benzoate ($C_8H_8O_2$)
- Benzoic Acid ($C_7H_6O_2$)
- Methyl anthranilate ($C_8H_9NO_2$)
- Acetylsalicylic acid ($C_9H_8O_4$)
- Butyl benzoate ($C_{11}H_{14}O_2$)
- Salicylic acid ($C_7H_6O_3$)
- methyl p-anisate ($C_9H_{10}O_3$)
- Methyl vanillate ($C_9H_{10}O_4$)
- methyl o-anisate ($C_9H_{10}O_3$)
- Benzoic acid, 4-chloro- ($C_7H_5ClO_2$)
- 4-hydroxybenzoic acid ($C_7H_6O_3$)
- Benzoic acid trimethylsilyl ester ($C_{10}H_{14}O_2Si$)
- Benzoic acid, 4-methyl- ($C_8H_8O_2$)
- o-Toluic acid ($C_8H_8O_2$)
- m-Toluic acid ($C_8H_8O_2$)
- p-anisic acid ($C_8H_8O_3$)
- 4-aminobenzoic acid ($C_7H_7NO_2$)
- methyl 4-nitrobenzoate ($C_8H_7NO_4$)
- Benzoic acid, 4-bromo- ($C_7H_5BrO_2$)
- Benzoic acid, 4-chloro-, methyl ester ($C_8H_7ClO_2$)
- 3-hydroxybenzoic acid ($C_7H_6O_3$)
- Methyl 4-methylbenzoate ($C_9H_{10}O_2$)
- Cyclohexanecarboxylic acid ($C_7H_{12}O_2$)
- 3,4-Dimethylbenzoic acid ($C_9H_{10}O_2$)

Поисковая система ScienceDirect (Elsevier)

The screenshot displays the ScienceDirect website interface. At the top, the browser's address bar shows the URL <https://www.sciencedirect.com/>. The ScienceDirect logo is on the left, and navigation links for "Journals & Books", "Register", and "Sign in" are on the right. A search bar contains the text "Phase Equilibria" with filters for "Volume", "Issue", and "Page". Below the search bar is a large dark green banner with the text: "More than 1 million researchers are already using ScienceDirect Recommendations". Underneath this, it says "Our free Recommendations service uses machine learning and your online activity to suggest research tailored to your needs". A blue button with the text "Start receiving recommendations" is centered in the banner. At the bottom of the page, there is a navigation bar with the text "Explore scientific, technical, and medical research on ScienceDirect" and a "Feedback" button. The Windows taskbar is visible at the very bottom of the image.

ScienceDirect Journals & Books Register Sign in > ?

Search for peer-reviewed journals, articles, book chapters and [open access](#) content.

Keywords Author name Phase Equilibria X Volume Issue Page Advanced search

More than 1 million researchers are already using
ScienceDirect Recommendations

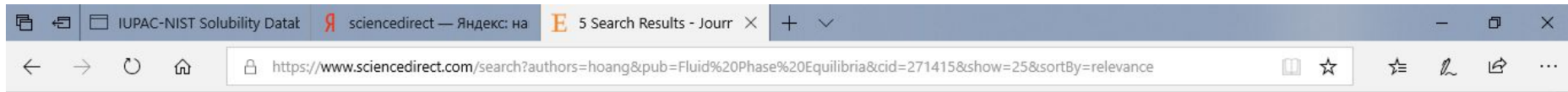
Our free *Recommendations* service uses machine learning and your online activity to suggest research tailored to your needs

Start receiving recommendations >

Explore scientific, technical, and medical research on ScienceDirect

Feedback

ScienceDirect



ScienceDirect

Journals & Books

Register

Sign in >



Keywords

hoang

Fluid Phase Equilibria

Volume

Issue

Pages



Advanced search

5 results

sorted by *relevance* | [date](#)

Set search alert

Refine by:

Years

2018 (2)

2016 (2)

2015 (1)

Volumes

472 (1)

456 (1)

429 (1)

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Research article Abstract only

Measuring and modeling thermodynamic properties of aqueous lysozyme and BSA solutions

Fluid Phase Equilibria, Volume 472, 25 September 2018, Pages 62-74

Martin Hübner, Christoph Lodziak, **Hoang** Tam Joseph Do, Christoph Held

[Sign in to check access](#)

Research article Abstract only

Predictive Tait equation for non-polar and weakly polar fluids: Applications to liquids and liquid mixtures

Fluid Phase Equilibria, Volume 425, 15 October 2016, Pages 143-151

Hai **Hoang**, Guillaume Galliero

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[Sign in >](#)

Feedback

Research article Abstract only



Поисковая система SpringerLink (Springer)

keyword: solubility

The screenshot shows the SpringerLink search results page for the keyword 'solubility'. The browser address bar shows the URL: <https://link.springer.com/search?query=solubility>. The page features the SpringerLink logo, a search bar with the query 'solubility', and navigation links for 'Home' and 'Contact Us'. The search results are displayed in a list format, showing 247,256 results. The results are sorted by 'Relevance' and are displayed on page 1 of 12,363. The first three results are reference work entries for 'Solubility' from the 'Encyclopedic Dictionary of Polymers' (2011 and 2007). The fourth result is a chapter titled 'Solubility' from 'Characterization of Compounds in Solution' (2001) by William H. Streng. The page also includes a 'Refine Your Search' section with filters for Content Type, Discipline, Subdiscipline, and Language. A cookie consent banner is visible at the bottom of the page.

Springer Link

solubility

247,256 Result(s) for 'solubility'

Sort By: Relevance | Date Published

Page 1 of 12,363

Reference Work Entry | At a glance
Solubility
Jan W. Gooch in *Encyclopedic Dictionary of Polymers* (2011)
» Download PDF (1388 KB)

Reference Work Entry | At a glance
Solubility
Encyclopedic Dictionary of Polymers (2007)
» Download PDF (1061 KB)

Reference Work Entry | At a glance
Solubility
Jan W. Gooch in *Encyclopedic Dictionary of Polymers* (2011)
» Download PDF (1388 KB)

Reference Work Entry | At a glance
Solubility
Encyclopedic Dictionary of Polymers (2007)
» Download PDF (1061 KB)

Chapter
Solubility
There was a park near my house when I was growing up and during the summer months a group of us boys would go there and divide into two teams to play baseball. Usually everyone was selected to be on one of the...
William H. Streng in *Characterization of Compounds in Solution* (2001)

Content Type

Article	176,310
Chapter	62,747
Conference Paper	7,298
Reference Work Entry	4,394
Protocol	3,804
Book	1

Discipline

Chemistry	92,159
Life Sciences	32,145
Biomedicine	17,523
Medicine & Public Health	16,487
Physics	15,254

Subdiscipline

Physical Chemistry	35,964
Biochemistry, general	28,832
Industrial Chemistry/Chemical Engineering	25,489
Characterization and Evaluation of Materials	24,472
Polymer Sciences	24,432

Language

English	244,754
German	
French	137

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Российские журналы на сайте Springer Russ Chem Bull – Изв. РАН. Сер. Хим.

The screenshot shows a web browser window displaying the Springer Link search results for the query "russ chem bull". The browser's address bar shows the URL: <https://link.springer.com/search?query=russ+chem+bull&facet-content-type=%22Journal%22>. The Springer Link logo is visible in the top left corner, and the search bar contains the text "russ chem bull".

The search results section displays "1 Result(s) for 'russ chem bull' within Journal". The result is for the journal "Russian Chemical Bulletin", with the volume information "Volume 1 / 1952 - Volume 67 / 2018". A small thumbnail image of the journal cover is shown on the right. The "Sort By" dropdown is set to "Relevance", and there is a "Date Published" link.

On the left side, there are filters for "Content Type" (Journal), "Discipline" (Chemistry), "Subdiscipline" (Chemistry/Food Science, general; Inorganic Chemistry; Organic Chemistry), and "Language" (English). A yellow box indicates that "Include Preview-Only content" is checked.

A cookie consent banner is visible at the bottom of the page, stating: "We use cookies to improve your experience with our site. [More information](#) [Accept](#)".

The Windows taskbar at the bottom shows the system tray with the date "10.05.2018" and time "7:42".

Russ Chem Bull – Изв. РАН. Сер. Хим.

springerlink journals — Янд Russian Chemical Bullet x

https://link.springer.com/journal/11172

» Browse Volumes & Issues Search within this journal

Russian Chemical Bulletin

ISSN: 1066-5285 (Print) 1573-9171 (Online)

This journal was previously published under other titles ([view Journal History](#))

Description

Publishing nearly 500 original articles a year, *Russian Chemical Bulletin* is a prominent international journal. The coverage of the journal spans practically all areas of fundamental chemical research and is presented in five sections:

General and Inorganic Chemistry; Physical Chemistry; Organic Chemistry; Organometallic Chemistry; Chemistry of Natural Compounds and Bioorganic Chemistry.


The Bulletin's International Advisory ... [show all](#)

[Browse Volumes & Issues](#)

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Impact Factor	Available
0.529	1952 - 2018
Volumes	Issues
67	769
Articles	Open Access
35,876	1 Article

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7:51 10.05.2018 ENG

Выбор типа публикации

The screenshot shows a web browser window displaying the Springer Link search results for the query "liquid crystals". The browser's address bar shows the URL: <https://link.springer.com/search?query=liquid+crystals>. The Springer Link logo is visible at the top left of the page. The search bar contains the text "liquid crystals" and has a "New Search" button and a search icon. Below the search bar, there are navigation links for "Home" and "Contact Us".

The main content area displays "250,762 Result(s) for 'liquid crystals'". To the left of the results, there is a sidebar with a filter for "Include Preview-Only content" (checked) and a "Refine Your Search" section. The "Content Type" filter shows the following counts:

Content Type	Count
Article	168,119
Chapter	75,059
Conference Paper	11,132
Reference Work Entry	4,374
Protocol	3,137
Book	72
Conference Proceedings	8
Book Series	1

The "Discipline" filter shows the following counts:

Discipline	Count
Chemistry	66,521
Physics	53,884

The results are sorted by "Relevance" (with a dropdown menu) and "Date Published". The first two results are books:

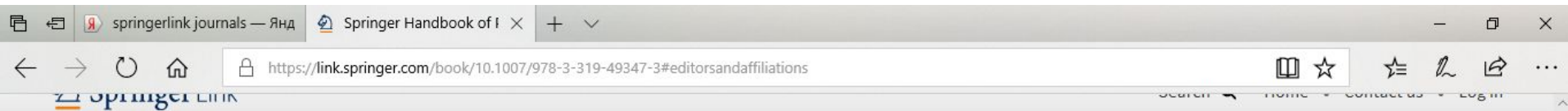
- Book**
Liquid Crystals
Materials Design and Self-assembly
Carsten Tschierske in *Topics in Current Chemistry* (2012)
- Book**
Liquid Crystals
Prof. Dr. Horst Stegemeyer... in *Topics in Physical Chemistry* (1994)

The third result is a "Reference Work Entry" titled "At a glance".

On the right side of the page, there is a vertical banner for the "Official journal of The European Society of Intensive Care Medicine" (ESICM), with Editor-in-Chief Mervyn Singer. The ESICM logo is visible at the bottom of the banner.

The Windows taskbar at the bottom shows the system tray with the date and time: 7:54, 10.05.2018, and the language set to ENG.

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Editors ([view affiliations](#))

Chang Samuel Hsu (許強), Paul R. Robinson

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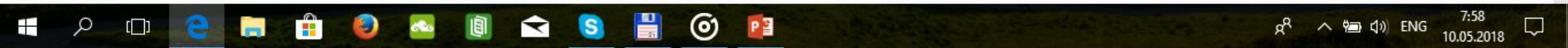
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Introduction

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The screenshot shows the Wiley Online Library website in a browser window. The browser's address bar displays the URL <https://onlinelibrary.wiley.com>. The website header includes the logo "Wiley Online Library", the text "Access by Moscow Technological University", and a "Login / Register" link. The main banner features a blue and green abstract background with the text "Accelerating research discovery to shape a better future" and "Today's research, tomorrow's innovation". Below this is a search bar with the placeholder text "Search publications, articles, keywords, etc." and a magnifying glass icon, with a link to "Advanced Search". A dark blue bar below the search bar lists three categories: "1,600+ Journals", "200+ Reference Works", and "21,000+ Online Books".

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Subjects

- Agriculture, Aquaculture & Food Science
- Architecture & Planning

The bottom of the screenshot shows the Windows taskbar with the Start button, several open applications (Wiley Online Library, Total Commander, and a document), and the system tray with the date and time (14:36).

Поиск по ключевым словам

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The main banner features a blue and green abstract background with the text "Accelerating research discovery to shape a better future" and "Today's research, tomorrow's innovation". A search bar is positioned over the banner, containing the text "liquid crystals". Below the search bar, a dropdown menu lists search results:

- Everything **liquid crystals**
- Book **Blaxial Nematic Liquid Crystals**
- Book **Liquid Crystals**
- Book **Liquid Crystals**
- Book **Liquid Crystals Beyond Displays**
- Book **Polarized Light in Liquid Crystals and Polymers**

To the left of the search results, the text "1,600+ J" is visible. Below the banner, the "Resources" section is divided into four columns:

- Researchers**: Register online, Discover tools and manage alerts, Learn about how to access
- Librarians**: Manage your account, View products and solutions, Find resources and support
- Societies**: Publish with Wiley, Explore our resource library, Learn about topics and trends
- Authors**: Submit a paper, Track your article, Learn about Open Access

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- Agriculture, Aquaculture & Food Science
- Architecture & Planning

The bottom of the image shows a Windows taskbar with the Start button, taskbar icons for "Wiley.pdf", "01.pdf", "Total Commander 8.5...", and "author-1.doc [Режим...]", and a system tray with the date and time "14:37".

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- Chemical Structure
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SciFinder – поиск по ученым

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The main content area is titled 'Author Name "Pestov, Sergel" > references (24)'. It features a toolbar with options for 'Get Substances', 'Get Reactions', 'Get Related Citations', and 'Tools'. Below this, a list of 24 references is shown, with the first six displayed in detail. Each reference entry includes a title, author information, and a brief abstract.

REFERENCE 1: Biocide sorbent based on chloromethylated styrene copolymers. By Pestov, S. M.; Leikin, Yu. A.; Fomin, P. A.; Dorskaya, E. V. From Russ. (2018), RU 2645137 C1 20180215. | Language: Russian, Database: CAPLUS. Biol. active sorbent consists of a porous sorption material substrate from chloromethylated styrene copolymer and divinyl-contg. linking agent. As the biol. active component, heterocyclic skeletal compd. 1,3,6,8-tetraazatricyclo[4.4.1.1^{1,2}]dodecane (teotropine) is applied to the substrate. Teotropin is applied to the substrate by the amination reaction of chloromethyl groups of the copolymer with teotropin to form covalent bonds in the presence of org. solvents selected from the classes of higher alcs. and glycols.

REFERENCE 2: Catalysts for anode oxidation of formic acid on carbon nanotubes "taunit". By Yashulov, N. A.; Lebedeva, M. V.; Pestov, S. M. From *Tonkie Khimicheskie Tekhnologii* (2016), 11(5), 51-56. | Language: Russian, Database: CAPLUS. Platinum-palladium/carbon nanitubes (CNT) carbon nanocomposites were synthesized by chem. redn. of ions in water-org. solns. of reverse micromulsions. Physico-chem. characteristics of the nanocomposites were studied by at. force microscopy, transmission electron microscopy, photon-correlation spectroscopy, X-ray phase anal. and chronopotentiometry. It was found that the smallest platinum-palladium nanoparticles size is obsd. when the metal ratio is 3:1 and the water pool size is minimal ($\omega = 1.5$). Testing of catalytic activity in the oxidn. of formic acid showed that the platinum-palladium...

REFERENCE 3: Dual Localization of Paramagnetic Probe Molecules in Smectic Liquid Crystals. By Pomogailo, Daria A.; Chumakova, Natalia A.; Pestov, Sergei M.; Vorobiev, Andrey Kh. From *Applied Magnetic Resonance* (2015), 46(12), 1343-1357. | Language: English, Database: CAPLUS. Mol. localization of nitroxide stable radicals in three smectic liq. crystals (4-n-octyl-4'-cyanobiphenyl (8CB), p-hexyloxyphenyl ester of p-octyloxybenzoic acid (HOPOOB) and p-hexyloxyphenyl ester of p-decyloxybenzoic acid (HOPDOB)) was analyzed by means of numerical simulation of ESR spectra. It was shown that admixt. mol. can be localized in the structure of smectic LC in several different ways. The studied nitroxide mols. demonstrated dual localization in HOPOOB and HOPDOB but unique localization in 8CB. The radical mols. with different localization are distinguished by the values of ρ_{eff} .

REFERENCE 4: Cross aldol condensation of acetaldehyde and formaldehyde in the presence of bifunctional systems. By Dashko, L. V.; Dmitriev, D. V.; Pestov, S. M.; Flid, V. R. From *Russian Journal of Organic Chemistry* (2014), 50(12), 1732-1737. | Language: English, Database: CAPLUS. Liq.-phase cross-aldol condensation of acetaldehyde and formaldehyde in the presence of salts of various satd. and unsatd. linear amines, arom. amines, diamines, and nitrogen bases, as well as in the presence of substituted piperazines, linear and cyclic amino acids and their derivs., and nitrogen-contg. ionic liqs., was studied. The cross-condensation products were formed in considerable amts. when amine hydrochlorides, N-benzoyl amino acids, and amino acid esters were used as catalyst. The formation of cross-condensation products is favored by increased basicity of the amino nitrogen atom ...

REFERENCE 5: Progress in the design and synthesis of chiral discotic mesogens. By Akopova, O. B.; Pestov, S. M. From *Zhidkie Kristally i Ikh Prakticheskoe Ispol'zovanie* (2012), (4), 20-33. | Language: Russian, Database: CAPLUS. A review. The results of the studies over the last 10 years on the chiral induction in achiral discotic mesogens, the design and the synthesis of discotic mesogens with supramol. chirality have been analyzed.

REFERENCE 6: Molecular and crystal structures of p-heptyloxyphenyl p-hexyloxybenzoate and p-butyloxyphenyl p-heptyloxybenzoate: Mesophase design.

On the left side, there is a sidebar with 'Analyze by:' options, including 'Author Name' and a list of authors with their respective reference counts (e.g., Pestov S M: 22, Kuz Mina L G: 8, Molochko V A: 6, Churakov A V: 5, Gunina M A: 3, Kochetov A N: 3, Lidine R A: 3, Molotchko V A: 3, Howard J A K: 2, Kucherepa N S: 2). A 'Show More' button is located at the bottom of this sidebar.

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