

Поиск, чтение и организация научной литературы

эффективные техники

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- Организация систематического поиска
- Чтение научных статей
- Организация и хранение научной литературы



Организация систематического поиска

Этапы научного поиска

В процессе организованного научного поиска выделяют четыре этапа:

1. постановка вопроса и определение научной области поиска;
2. разработка стратегии и плана поиска,
3. проведение систематического поиска и упорядочивание полученных результатов;
4. оценка полученных результатов и, при необходимости, возврат к предыдущим этапам.



Поиск документа

Сравнить источники

Документы

Авторы

Организации

Расширенный поиск

Советы по поиску

Поиск

Поисковая строка для поисковых терминов

Например, "heart attack" AND stress

AND

Операторы AND, OR, AND NOT для объединения полей поиска

Поиск

Ограничить

Диапазон дат (включая граничные даты)

Опубликованные Все годы по Настоящее время

Добавленные в базу данных Scopus за последние 7 дней

Тип документа

ВСЕ

Ограничители временного охвата

Поля поиска

Название статьи, краткое описание

Название статьи, краткое описание

ключевые слова

Авторы

Первый автор

Название источника

Название статьи

Краткое описание

Ключевые слова

Организация

Поиск по теме
Поиск по автору
Поиск по журналу
Поиск по месту работы автора и т.д.

Расширенный поиск

Расширенный поиск

[Сравнить источники >](#)

Документы Авторы Организации **Расширенный поиск**

[Советы по поиску ?](#)

Введите запрос

SUBJAREA(ECON) and TITLE-ABS-KEY(bitcoin*) and AFFIL(Russia*)

Составить запрос Добавить автора и (или) организацию Очистить форму **Поиск**

Код: SUBJAREA

Имя: Отрасль знаний

Например: если ввести SUBJAREA(CHEM), то будут найдены документы, относящиеся к области знаний «Химия».

Возможные значения XX следующие:

сельскохозяйственные и биологические науки - **AGRI** / искусство и гуманитарные науки - **ARTS** / биохимия, генетика и молекулярная биология - **BIOC** / бизнес, управление и бухгалтерский учет - **BUSI** / химическая инженерия - **CENG** / химия - **CHEM** / информатика - **COMP** / теории принятия решений - **DECI** / науки о Земле и планетах - **EART** / экономика, эконометрия и финансы - **ECON** / энергетика - **ENER** / конструирование - **ENGI** / охрана окружающей среды - **ENVI** / иммунология и микробиология - **IMMU** / материаловедение - **MATE** / математика - **MATH** / медицина - **MEDI** / нейробиология - **NEUR** / сестринское дело - **NURS** / фармакология, токсикология и фармацевтика - **PHAR** / физика и астрономия - **PHYS** / психология - **PSYC** / социология - **SOCI** / ветеринария - **VETE** / стоматология - **DENT** / профессии в сфере здоровья - **HEAL** / междисциплинарные - **MULT**.

более 40 полей поиска, включая предметные области и финансирующие фонды

Операторы

AND	⊙
OR	⊙
AND NOT	⊙
PRE/	⊙
W/	⊙

Коды полей ⊙

REF TITLE	⊙
SEQBANK	⊙
SEQNUMBER	⊙
SRCTITLE	⊙
SRCTYPE	⊙
SUBJAREA	⊙
TITLE	⊙
TITLE-ABS	⊙
TITLE-ABS-KEY	⊙

Использование групповых символов, операторов при поиске и другое

1. ? – замена одного символа

Пример: *AFFIL(nure?berg)* находит *Nuremberg, Nurenberg*

2. * - замена 0 и более символов в любой части слова

Пример: *behav** находит *behave, behavior, behaviour, behavioural, behaviourism, и т.д.*

или **tocopherol* находит *α-tocopherol, γ-tocopherol, δ-tocopherol, tocopherol, tocopherols, и т.д.*

3. Оператор AND – находит варианты со всеми указанными терминами, но расположенными на разном расстоянии друг от друга

Пример: *lesion AND pancreatic*

4. Оператор OR – находит варианты с одним из указанных терминов

Пример: *kidney OR renal* найдет записи или с термином *kidney* или с термином *renal*

5. Оператор AND NOT – исключает указанный термин. Этот оператор используется в конце поискового запроса

Пример: *ganglia OR tumor AND NOT malignant*

6. При поиске точной фразы (без вариантов написания терминов) используйте {}

Пример: *{oyster toadfish}* результаты поиска будут содержать документы именно с этой фразой.

7. “ ” – поиск фразы в двойных кавычках возвращает такие же результаты как и при поиске с оператором AND

Пример: поиск *"criminal* insan*"* найдет результаты *criminally insane* и *criminal insanity*, с разным размещением терминов по отношению друг к другу и с разным окончанием

Дополнительно о правилах поиска см.: <http://help.elsevier.com/app/answers/list/p/8150/c/7956,8735>

Возможность поиска внутри полученных результатов

Отображение поискового запроса (в том числе примененных фильтров) и возможность его редактирования

Различные варианты сортировки

Возможность фильтрации (ограничение/исключение) по нескольким фильтрам сразу

Превью результатов фильтрации без перезагрузки страницы

The screenshot shows a search results page with the following elements:

- Search Bar:** Contains the search query "TITLE-ABS-KEY (bitcoin) AND SUBJMAIN (2003)".
- Navigation:** Includes buttons for "Редактировать", "Сохранить", "Настроить оповещение", and "Настроить канал".
- Filtering:** A sidebar on the left allows filtering by "Год" (Year) and "АВТОР" (Author). The "Год" filter is expanded to show years 2017, 2016, 2015, 2014, and 2013, each with a count of results.
- Sorting:** A dropdown menu at the top right is set to "Дата (самые новые)".
- Actions:** A toolbar above the results list includes "Все", "Экспорт", "Скачать", "Просмотреть обзор цитирования", "Просмотр цитирующих документов", and "Добавить в список".
- Results Table:** A table with columns "Год", "Источник", and "Цитирования". It lists several articles related to Bitcoin, such as "Research in International Business and Finance" and "Volatility estimation for Bitcoin: A comparison of GARCH".
- Callouts:** Four callout boxes highlight specific features:
 - Top left: "Возможность поиска внутри полученных результатов" (Search within results).
 - Top center: "Отображение поискового запроса (в том числе примененных фильтров) и возможность его редактирования" (Display search query and editability).
 - Top right: "Различные варианты сортировки" (Different sorting options).
 - Center: "Возможность фильтрации (ограничение/исключение) по нескольким фильтрам сразу" (Multi-filter filtering).
 - Bottom center: "Превью результатов фильтрации без перезагрузки страницы" (Filtering preview without page reload).

Основные проблемы при поиске

- Слишком много результатов
- Слишком мало результатов
- Результатов достаточно, но они не по теме



Слишком много результатов

- Добавьте еще ключевых слов в запрос или выберите из предложенных
- Ограничьте временной диапазон самыми новыми результатами
- От поиска по комбинации (название-аннотация-ключевые слова) перейдите к поиску только по названию
- Ограничьте поиск только обзорными статьями (review)
- Ограничьте перечень журналов наиболее престижными

Document Type		^
<input type="checkbox"/>	Article	(71,936)
<input type="checkbox"/>	Conference Paper	(18,373)
<input type="checkbox"/>	Review	(2,104)
<input type="checkbox"/>	Conference Review	(795)
<input type="checkbox"/>	Book Chapter	(668)

Слишком мало результатов

- Используйте ключевые слова из найденных статей вместо ваших
- Проверьте возможность альтернативного написания в поисковом запросе
- Добавьте больше вариантов (OR)
- Снимите имеющиеся временные и географические ограничения

Keyword		
<input type="checkbox"/>	Diamonds	(19,575) >
<input type="checkbox"/>	Diamond	(9,834) >
<input type="checkbox"/>	Article	(9,078) >
<input type="checkbox"/>	Diamond films	(7,999) >
<input type="checkbox"/>	Chemical vapor deposition	(7,526) >
<input type="checkbox"/>	Human	(4,772) >
<input type="checkbox"/>	Scanning electron microscopy	(4,518) >
<input type="checkbox"/>	Carbon	(4,432) >
<input type="checkbox"/>	Raman spectroscopy	(3,730) >
<input type="checkbox"/>	Diamond cutting tools	(3,595) >

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Результатов достаточно, но они не по теме

- Убедитесь, что символы-заменители не ведут к появлению ненужных слов, например, замените **car*** на **(car OR cars)**, чтобы убрать из поиска слова **careful, cara** и др.
- Если вы ищете устойчивые словосочетания, они должны быть заключены в кавычки или фигурные скобки
- Исключите неподходящие значения, например: **jaguar NOT car**, если вы ищете животное
- Ограничьте поиск только названием и ключевыми словами
- Ограничьте область знания

Subject Area	
<input type="checkbox"/> Physics and Astronomy	(40,947)
<input type="checkbox"/> Materials Science	(36,236)
<input type="checkbox"/> Engineering	(31,321)
<input type="checkbox"/> Chemistry	(11,636)
<input type="checkbox"/> Earth and Planetary Sciences	(7,547)
<input type="checkbox"/> Medicine	(5,342)
<input type="checkbox"/> Chemical Engineering	(4,672)
<input type="checkbox"/> Computer Science	(3,685)
<input type="checkbox"/> Biochemistry, Genetics and Molecular Biology	(3,266)
<input type="checkbox"/> Environmental Science	(3,006)

Как убедиться в качестве проведенного поиска?

- Видна ли в результатах вашего поиска последовательность исследований, отражающая процесс приращения знаний в искомой научной области?
- Имеют ли различные варианты ваших поисков тенденцию к использованию в качестве ссылок одного и того же «ядра» статей и авторов?
- Указывают ли различные варианты ваших поисков на одного и того же исследователя (или группу ученых), ставшего пионером в искомой научной теме?
- Вы изучили все подходящие ссылки на научные источники и возможные синонимы искомого поискового запроса.
- Вы уверены в актуальности найденной информации.

Процесс поиска должен быть документирован




Одно из условия качественного поиска – воспроизводимость.

Поэтому сохраняйте:

- Дату и базу данных проведения поиска,
- Используемый поисковый запрос,
- Возможные фильтры, использованные для сужения результатов поиска.
- Количество (или перечень найденных) реферативных записей.



Пример работы с сохраненными запросами в Scopus

<input type="checkbox"/> 23 TITLE-ABS-KEY (carbon) AND (TITLE-ABS-KEY (" PAN fiber ") OR TITLE-ABS-KEY (" polyacrylonitril* fiber "))  Create a new term-based search  Set alert  Set feed	27 Oct 2014 last run on View new results	671 documents
<input type="checkbox"/> 22 (TITLE-ABS-KEY (anti*friction*) AND TITLE-ABS-KEY (carbon)) OR (TITLE-ABS-KEY (" flow improvers ") AND TITLE-ABS-KEY (carbon))	27 Oct 2014	242
<input type="checkbox"/> 20 TITLE-ABS-KEY (" structur* graphite ") OR TITLE-ABS-KEY (" construct* graphite ") OR TITLE-ABS-KEY (" nanostruct* graphite ")	14 Jul 2015	1,002
<input type="checkbox"/> 19 TITLE-ABS-KEY (" carbon-ceramic composite material)	27 Oct 2014	380
<input type="checkbox"/> 18 (TITLE-ABS-KEY ({ carbon-carbon } composite material) AND TITLE ({ carbon-carbon }))	27 Oct 2014	611

Сохранение поискового запроса

Save search alert

Search: ALL(aircraft noise)

Alert name:

Email address:

Frequency:





|



 Your alert was saved as: **aeroacoustics**. To update your alerts, visit the [Manage my alerts page](#).

Search alerts

[Add a search alert](#)

Alert name 	Frequency 	Actions	Content view	RSS
aeroacoustics	Weekly	Edit alert Edit email Delete	Latest results Archive	
Rushydro	Inactive	Edit alert Edit email Edit search Delete	Latest results Archive	

Больше деталей и подробностей

- Ir. A.A.K. Boxem, Ir. W.C. Oosterling, University of Twente, Systematically and Efficiently Searching for Scientific Information
- R. Lewis, C. Sarli, Washington University Responsible and Efficient Literature Searching



Чтение научных статей

Как читать научные статьи

- Чтение по диагонали
- Повторное чтение
- Осмысление статьи
- Подведение итогов



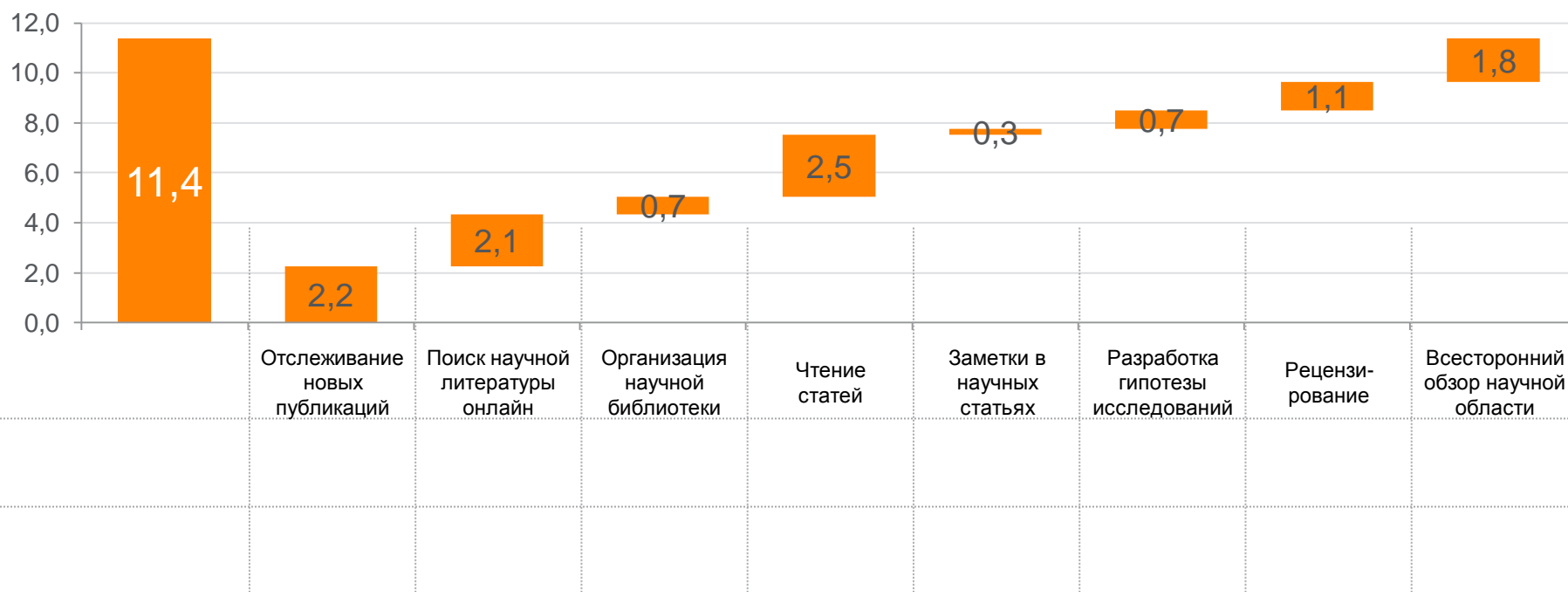
Почему это важно

- Затраты на чтение растут – более 100 часов в год (**The Impact of Electronic Publishing: The Future for Publishers and Librarians**, Авторы: David J. Brown, Richard Boulderstone)
- С другой стороны, с учетом количества задач, сложно выделить на чтение более 5% своего рабочего времени (**So Much to Do, So Little Time**, <https://www.insidehighered.com/news/2014/04/09/research-shows-professors-work-long-hours-and-spend-much-day-meetings>)



Временные затраты на чтение

Время (в часах): Сколько вы потратили времени на эти задачи на прошлой неделе?



Принятие решения о чтении полного текста

- Общее представление о статье – прочитайте внимательно название, ключевые слова и аннотацию (введение). В них содержатся основные открытия статьи и их научная значимость.
- Обратите внимание на дату публикации – для многих отраслей наук необходимо фокусироваться на актуальных исследованиях
- Если вы эксперт в своей отрасли – можете начинать с рисунков и графиков в статье.
- Примите решение о необходимости чтения полного текста

Принятие решения – ScienceDirect

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 [Relevance](#) ▼

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[Family history and body mass index predict perceived risks of diabetes and heart attack among community-dwelling](#)

[Caucasian, Filipino, Korean, and Latino Americans—DiLH Survey](#) Original Research Article

Diabetes Research and Clinical Practice, Volume 109, Issue 1, July 2015, Pages 157-163

Yoshimi Fukuoka, JiWon Choi, Melinda S. Bender, Prisila Gonzalez, Shoshana Arai

[▶ Abstract](#) | [Close research highlights](#) |  [PDF \(413 K\)](#)

 RSS

Highlights

- A multi-racial/ethnic sample of 904 adults answered a perceived risk survey.
- Only 9.3% perceived a dual risk with diabetes (DM) and heart attack (HA).
- BMI and a family history of DM/HA were related to a perceived risk of DM/HA.
- Age and physical activity were not associated with either risk perception.
- Discrepancies between risk perception and actual risks should be assessed.

[Efficacy of HMG-CoA reductase inhibitors in the prevention of cerebrovascular attack in 1016 patients older than 75 years among 4014 type 2 diabetic individuals](#) Original Research Article

International Journal of Cardiology, Volume 177, Issue 3, 20 December 2014, Pages 860-866

Toshio Hayashi, Kiyoshi Kubota, Seinosuke Kawashima, Hirohito Sone, Hiroshi Watanabe, Takashi Ohroi, Koutaro Yokote, Minoru Takemoto, Atsushi Araki, Mitsuhiro Noda, Hiroshi Noto, Ichiro Sakuma, Masao Yoshizumi, Koichiro Ina, Hideki Nomura

[Close abstract](#) | [▶ Research highlights](#) |  [PDF \(610 K\)](#)



Abstract

Citing articles (0)

Background/objectives

HMG-CoA reductase inhibitors (statins) reduce ischemic heart disease (IHD) in middle-aged diabetic individuals, and LDL-cholesterol (LDL-C) is a risk factor. However, their preventive effects on cerebrovascular attack (CVA) have not been identified in elderly, especially in elderly ≥ 75 years (late elderly), who account for approximately 30% of diabetic individuals in Japan. Randomized controlled studies of statins for late elderly are difficult to carry out, because many co-morbidities in elderly disrupt randomized controlled conditions.

Methods

Принятие решения – ScinceDirect

Download PDF
 Export

 Advanced search



Neuropsychologia

Volume 56, April 2014, Pages 90–100



170115||

Gray–white matter and cerebrospinal fluid volume differences in children with Specific Language Impairment and/or Reading Disability

Dolors Girbau-Massana^a, , Gracian Garcia-Marti^b, Luis Marti-Bonmati^b, Richard G. Schwartz^c

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Received 19 July 2012, Revised 21 December 2013, Accepted 4 January 2014, Available online 11 January 2014



Show less

doi:10.1016/j.neuropsychologia.2014.01.0

Дополнительные метрики статьи

Recommended articles

Waxholm Space atlas of the Sprague Dawley rat
2014, NeuroImage [more](#)

Task modulations of racial bias in neural respons
2014, NeuroImage [more](#)

Body mass index, but not *FTO* genotype or major
2013, Neuroscience [more](#)

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Citing articles (1)

Related book content

Metrics

- 8 Tweepers
- 1 Facebook user
- 1 Google+ user
- 20 Mendeley readers

Saved to reference managers
 ?

Принятие решения – Scopus

Scopus

Поиск Источники Оповещ

Сведения о документе

< Вернуться к результатам | 1 из 736 | Далее >

Экспорт Скачать Печать Электронная почта Сохранить в PDF Сохранить в список Еще... >

Proceedings - IEEE Symposium on Security and Privacy
2013, Номер статьи 6547123, Pages 397-411

34th IEEE Symposium on Security and Privacy, SP 2013; San Francisco, CA; United States; 19 May 2013 до 22 May 2013; Номер категории E4977; Код 98359

Zerocoin: Anonymous distributed e-cash from bitcoin (Conference Paper)

Miers, I. ✉ Garman, C. ✉ Green, M. ✉ Rubin, A.D. ✉

Johns Hopkins University, Department of Computer Science, Baltimore, MD, United States

Краткое описание

Bitcoin is the first e-cash system to see widespread adoption. While **Bitcoin** offers the potential for new types of financial interaction, it has significant limitations regarding privacy. Specifically, because the **Bitcoin** transaction log is completely public, users' privacy is protected only through the use of pseudonyms. In this paper we propose Zerocoin, a cryptographic extension to **Bitcoin** that augments the protocol to allow for fully anonymous currency transactions. Our system uses standard cryptographic assumptions and does not introduce new trusted parties or otherwise change the security model of **Bitcoin**. We detail Zerocoin's cryptographic construction, its integration into **Bitcoin**, and examine its performance both in terms of computation and impact on the **Bitcoin** protocol. © 2013 IEEE.

Включенные в указатель ключевые слова

Cryptographic assumptions

E-cash systems

Security model

System use

Просмотр пристатейных ссылок (42)

Модуль с Метриками статьи дает исследователю оперативную информацию о значимости статьи (на основе цитирования) и заинтересованности научного сообщества в статье.

Это помогает принять решение о необходимости обращения к полному тексту

Параметры

89 Цитаты в Scopus

99-е процентиль

35.97 Взвешенный по

области знаний индекс цитирования



Параметры PlumX

Использования, сбор данных, упоминания, записи в соцсетях и цитирования за пределами Scopus.

Просмотреть все параметры >

Цитирования в 89 документах

Multi-fingerprint unimodel-based biometric authentication supporting cloud computing

Rajeswari, P., Viswanadha Raju, S., Ashour, A.S.
(2017) *Studies in Computational Intelligence*

Blockchain

Nofer, M., Gomber, P., Hinz, O.

Чтение основного текста по диагонали

- Бегло просмотрите статью, фокусируясь на заголовках и подзаголовках
- Отметьте термины и части статей, которые вам непонятны
- Нет необходимости читать статью последовательно от названия до списка литературы



Повторное (основное) чтение

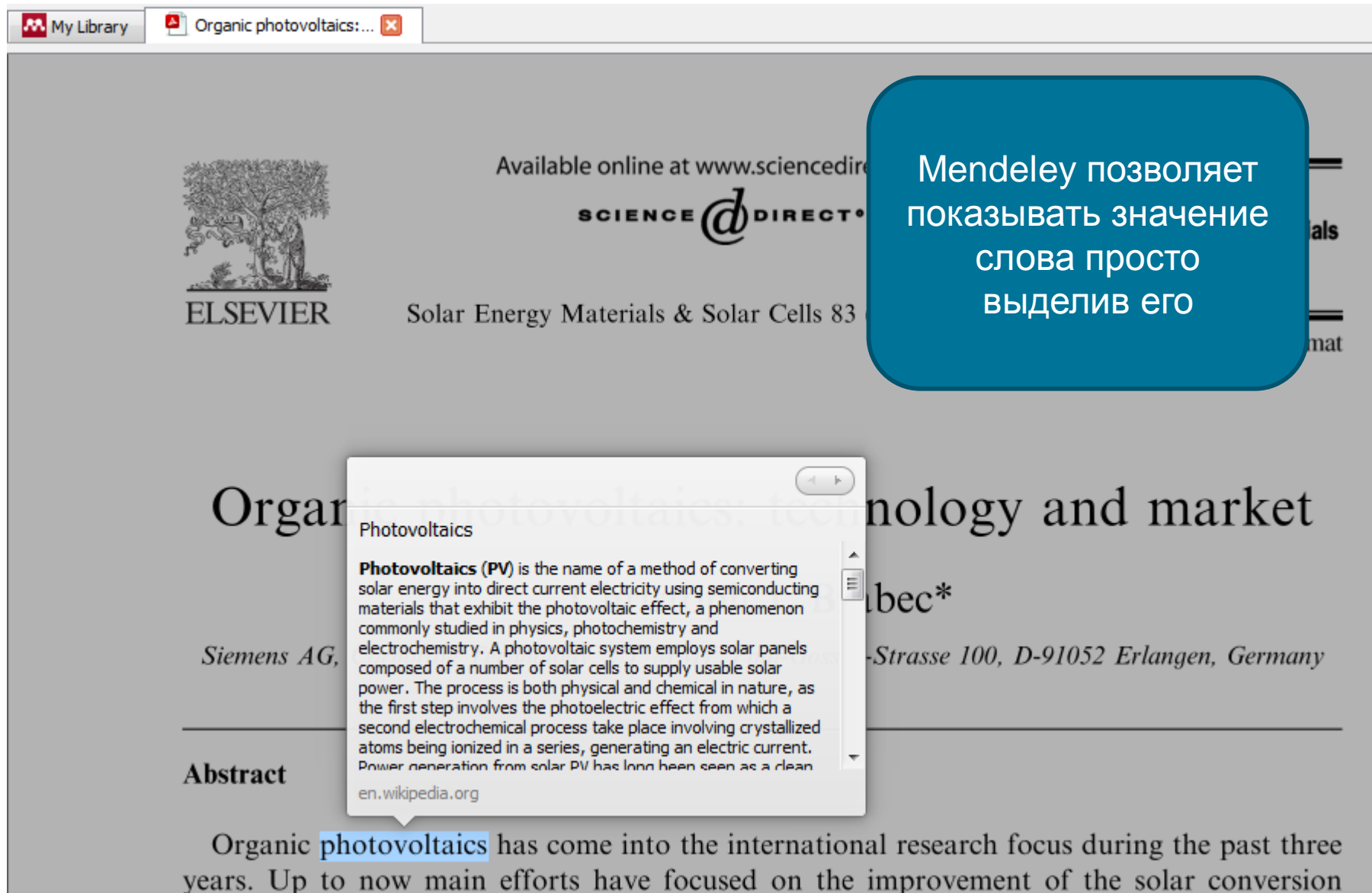
Многократное чтение статьи – это нормально

Прочитайте статью повторно и постарайтесь ответить на вопросы:

- Какую задачу пытаются решить авторы?
- Какие результаты исследования подтверждены доказательствами?
- Какие результаты исследования уникальны и подтверждаются другими статьями в этой научной области?
- Каков был размер выборки? Насколько он репрезентативен?
- Можно ли воспроизвести проведенное исследование?
- Какие факторы могли повлиять на полученный результат?

На этом этапе при необходимости нужно уточнить ключевые термины и концепции статьи в справочной литературе

Основное чтение - инструменты



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ELSEVIER Solar Energy Materials & Solar Cells 83

Organic photovoltaics: technology and market

Siemens AG, ...-Strasse 100, D-91052 Erlangen, Germany

Abstract

Organic **photovoltaics** has come into the international research focus during the past three years. Up to now main efforts have focused on the improvement of the solar conversion

Mendeley позволяет показывать значение слова просто выделив его

Photovoltaics

Photovoltaics (PV) is the name of a method of converting solar energy into direct current electricity using semiconducting materials that exhibit the photovoltaic effect, a phenomenon commonly studied in physics, photochemistry and electrochemistry. A photovoltaic system employs solar panels composed of a number of solar cells to supply usable solar power. The process is both physical and chemical in nature, as the first step involves the photoelectric effect from which a second electrochemical process take place involving crystallized atoms being ionized in a series, generating an electric current. Power generation from solar PV has long been seen as a clean

en.wikipedia.org




Осмысление статьи

- Изучите таблицы и графики
- Попробуйте проинтерпретировать их, не обращаясь к подписям под ними
- Внимательно прочитайте Results и Discussion, обращая внимание на ключевые тезисы и новые научные достижения
- Убедитесь, что вы ухватили основные идеи статьи. Если нет – вернитесь к тексту



Осмысление статьи - инструменты

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Aspirin

Aspirin is a cyclo-oxygenase-1 inhibitor thereby preventing the production of thromboxane A₂ [93]. The inhibition of thromboxane A₂ production prevents pathological thrombus formation by decreasing platelet activation and aggregation [93]. It does not however prevent platelet activation by other activators, which could substantiate the use of a combination treatment [93]. The effect of aspirin on platelet activation is indicated in Fig. 3 and Table 2.

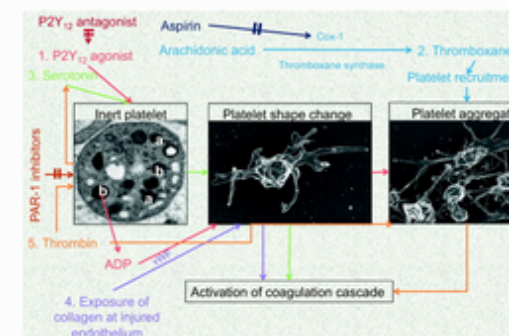
P2Y₁₂ ADP Receptor Antagonists

P2Y₁₂ receptor antagonists (e.g. Clopidogrel) inhibits the activation of the P2Y₁₂ receptor thereby preventing irreversible platelet aggregation, the release of thromboxane A₂ and the further recruitment of platelets [93]. By preventing the activation of platelets it also inhibits the activation of the coagulation cascade [85]. The effect of substances such as Clopidogrel on platelet activation is indicated in Fig. 3 and Table 2.

Glycoprotein IIb/IIIa Inhibitors


Glycoprotein IIb/IIIa inhibitors compete with von Willebrand factor and fibrinogen thereby interfering platelet cross-linking and the subsequent formation of a clot [93] and [97]. GP IIb/IIIa inhibition is summarized in Table 2.

« previous figure



Platelet activation pathways and the most prominent antiplatelet agents. 1. The P2Y₁₂ agonist activates the inert platelet by stimulating the release of ADP from dense bodies. The released ADP induces platelet shape change and platelet aggregation. 2. Arachidonic acid is enzymatically converted to thromboxane A₂ inducing platelet recruitment and aggregation. 3. Serotonin stimulates the activation of platelets by inducing shape change and thereby the coagulation cascade. 4. The exposure of collagen indirectly induces platelet shape change via von Willebrand factor and consequently the coagulation cascade. 5. Thrombin activates both the activation of platelets and the coagulation system, but differing concentrations. ADP: Adenosine diphosphate; vWF: von Willebrand factor; cox-1: Cyclo-oxygenase

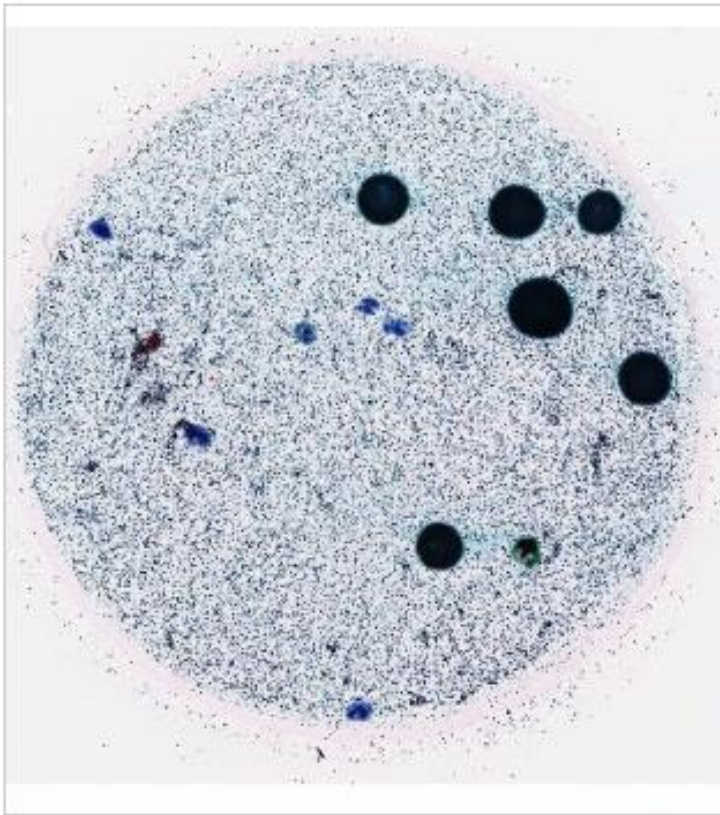
 [View in article](#)

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Осмысление статьи – работа с изображениями

Virtual Microscope [↗](#)

AUC-H, malignant follow-up ▾

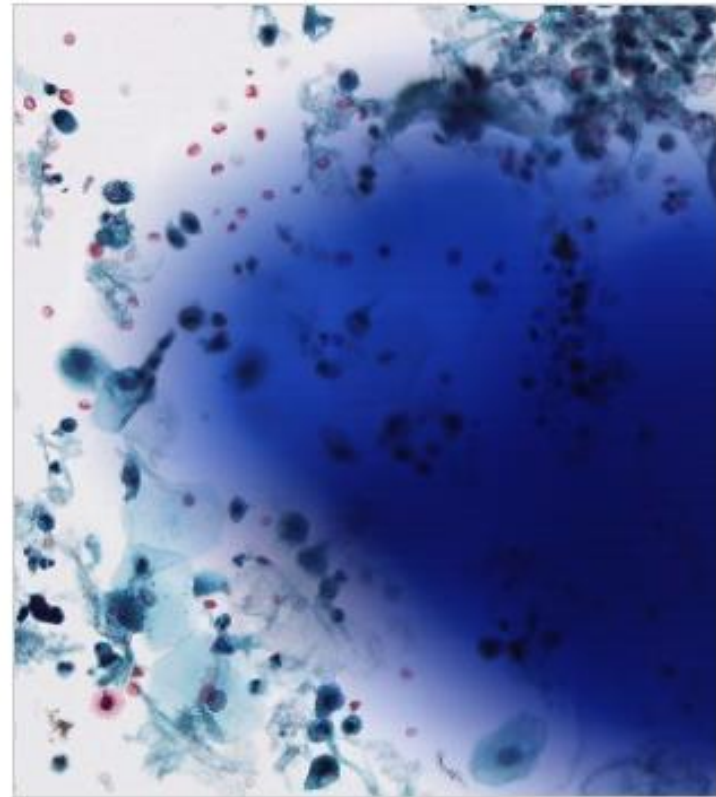


Reset

Zoom

Virtual Microscope [↗](#)

AUC-H, malignant follow-up ▾



Reset

Zoom

Интерактивные 3D модели

3D модели, специально подготовленные для быстрой загрузки и оперативного отклика на действия пользователя. Их можно приближать, крутить, смотреть стерео изображение и сохранять в различных форматах.

The screenshot shows a journal article page from Elsevier's *Digital Applications in Archaeology and Cultural Heritage*. The article title is "Another link between archaeology and anthropology: Virtual anthropology ☆". A blue callout box highlights the interactive 3D model features. The article abstract discusses the use of Virtual Anthropology (VA) and includes a list of bullet points. On the right, a sidebar contains a "Supplementary 3D models" section with a large 3D skull model viewer. The viewer includes controls for rotation, zoom, and stereo viewing, and a "Save data (83.7 MB)" button.

Review

Another link between archaeology and anthropology: Virtual anthropology ☆

- Emphasises the applicability of these methods in archaeology.
- Provides a 3D model to demonstrate a landmark-based measurement approach.
- Provides a movie of a virtual Venus from Willendorf, Austria.

Abstract

Archaeology and biological anthropology share research interests and numerous methods for field work. Both profit from collaborative work and diffusion of know-how. The last two decades have seen a technical revolution in biological anthropology: *Virtual Anthropology (VA)*. It exploits digital technologies and brings

Recommended articles

Citing articles (1)

Related book content

Supplementary 3D models

Rotate [Color palette] Reset

Zoom [Slider]

Stereo [Off]

Save data (83.7 MB)

Аудиослайды

The screenshot shows the article page for "Improved rate-based modeling of the process of CO₂ capture with PZ solution" in the journal "Chemical Engineering Research and Design". The page includes a "Download PDF" button, search bars, and a list of highlights. A blue callout box highlights the "View author presentation" section, which features a 9-slide, 4:19 min audio presentation by Moiola, S., and Pellegrini, L.A. The presentation has not been peer-reviewed.

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Chemical Engineering Research and Design
Available online 6 April 2014
In Press, Corrected Proof — Note to users

Improved rate-based modeling of the process of CO₂ capture with PZ solution

Stefania Moiola, Laura A. Pellegrini

Show more
doi:10.1016/j.cherd.2014.03.022

Highlights

- A rate-based model is proposed for CO₂ capture with PZ solution.
- The proposed model has been validated in comparison with experimental data.
- An improvement in the prediction of mass transfer coefficient has been obtained.

View author presentation

Improved rate-based modeling of the process of CO₂ capture with PZ solution

Moioli, S., Pellegrini, L.A.
Chemical Engineering Research and Design
9 slides, 04:19 min

This presentation has not been peer-reviewed.
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Короткие, 5-минутные презентации, в которых авторы объясняют суть своей работы

Подведение итогов

- Ведите заметки – они способствуют пониманию текста статьи и запоминанию основных положений
- Выделите в тексте статьи ключевые для вас положения
- Не забудьте сохранить текст с вашими заметками в вашу персональную библиотеку



Подведение итогов – ведение заметок

My Library Organic photovoltaics:...

each series and are presented in box plot diagram. The rectangular area in the box plot diagram represents 75% of the devices, the highest and lowest values are marked by crosses.

Category	Sub-category	Percentage
Off-Grid	Telecom & Transportation	12%
	Rural	25%
On-Grid	Residential & Commercial	51%
	Wholesale	1%
Other	Portables & Consumer Products	11%

Fig. 12. Market segments of photovoltaics: approximately 50% of the produced solar cells are used in on-grid applications, where high efficiency and high lifetime are essential. The shaded market segments, especially rural and consumer electronics partially require a lower performance profile, making them more suitable for organic solar cells.

5. Conclusion

Fig. 12 summarizes the market opportunities for organic photovoltaics. However, not enough experimental data to speculate on life time certainly would be necessary to enter the on-grid market segments with more relaxed restrictions on the performance and open enough possibilities for first applications. A new market entry of these first applications is that organic photovoltaics with respect to all criteria presented in Fig. 12 applications will go into consumer electronics, including innovative applications. This may happen within the next

You 18/08/2015 17:05:02
More research in this area needed

Details Notes Contents Enrichments

Notes:

B I U [List Icon] [List Icon] [List Icon]

the economical and technical production aspects for organic photovoltaics are discussed

Annotations:

01 You Page no. 3
Today 14:06 in My Library
EQE defined here

02 You Page no. 19
Today 14:05 in My Library
More research in this area needed

Больше деталей и подробностей

- Allen H. Renear, PhD, and Carole L. Palmer, PhD. "Strategic Reading, Ontologies, and the Future of Scientific Publishing," *Science* (2009).
- Robert Siegel, PhD. "READING SCIENTIFIC PAPERS", Stanford University <http://web.stanford.edu/~siegelr/readingsci.htm>
- "How to Read and Review a Scientific Journal Article: Writing Summaries and Critiques," Writing Studio, Duke University http://twp.duke.edu/uploads/media_items/scientificarticlereview.original.pdf



Организация и хранение научной литературы

Почему это важно

Процесс подготовки, написания и отправки статей должен быть максимально продуман и автоматизирован. Это не разовый подход.

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Система управления библиографией (Reference management software) - это система, позволяющие исследователям, учёным и писателям создавать, организовывать в персональной библиотеке и повторно использовать библиографические ссылки

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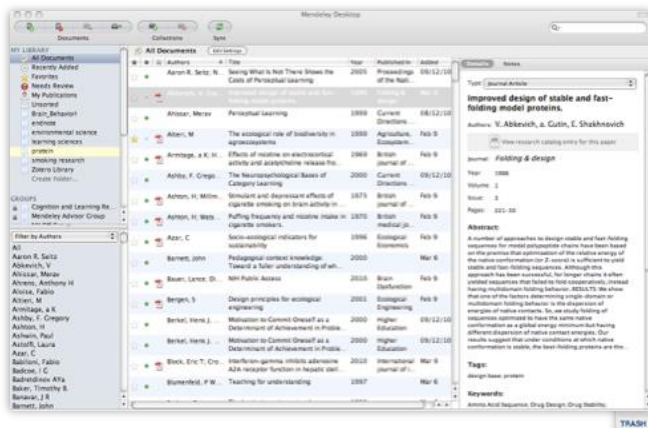
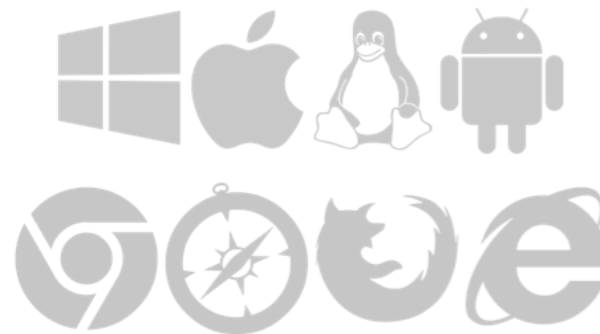
Что такое Mendeley?

Приложение для научной работы

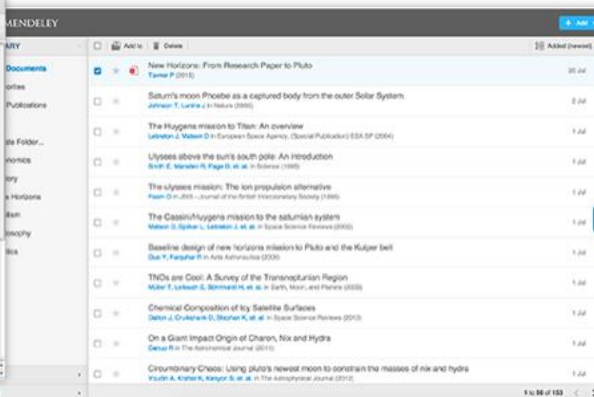
Поддержка всех основных платформ

(Win/Mac/Linux/Mobile)

и всех браузеров



Desktop

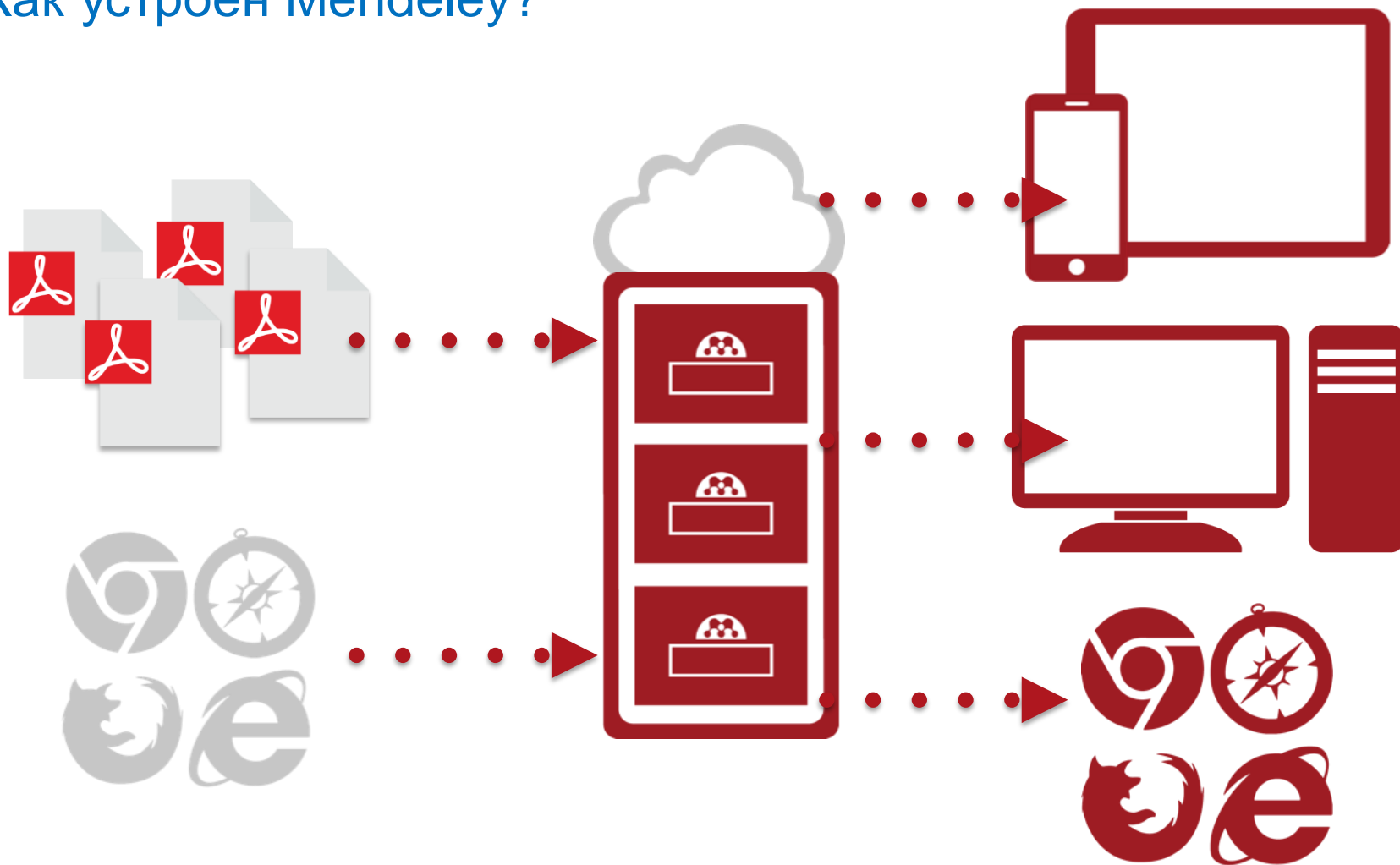


Web



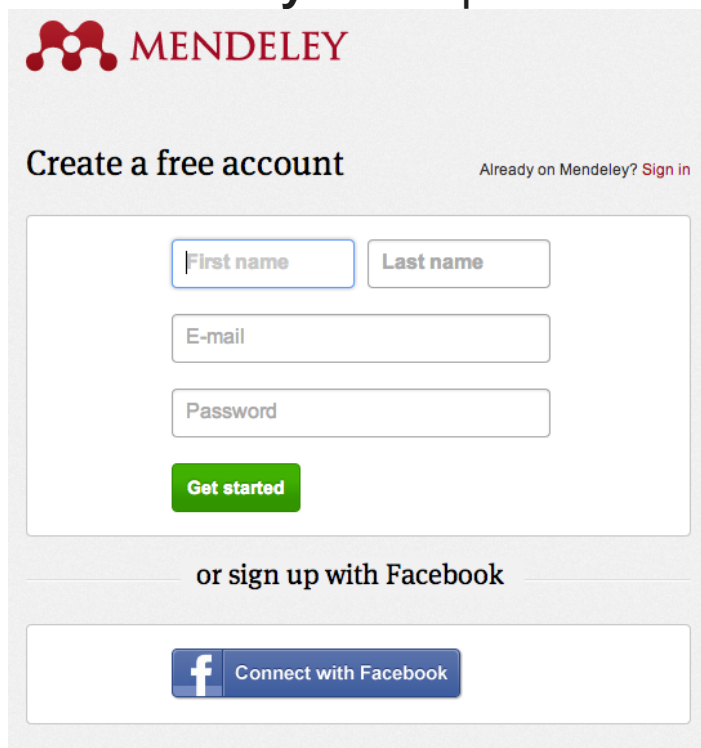
Mobile

Как устроен Mendeley?

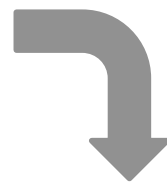


Организация персональной библиотеки в Mendeley

Шаг 1:
Зарегистрироваться в
Mendeley в интернет



The screenshot shows the Mendeley registration interface. At the top left is the Mendeley logo (three red circles) and the word "MENDELEY" in red. Below it, the text "Create a free account" is displayed, with a link "Already on Mendeley? Sign in" to its right. The registration form contains four input fields: "First name", "Last name", "E-mail", and "Password". A green "Get started" button is positioned below the password field. Below the form, there is a section titled "or sign up with Facebook" with a blue button that says "Connect with Facebook".



Шаг 2:
Скачать **Mendeley Desktop**

Mendeley Desktop for Mac OS X

Version 1.11 for Mac OS X 10.6+

Your download should start automatically in a few seconds.

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Шаг 3:
Организовать свою библиотеку



Mendeley Desktop

Mendeley Desktop

Documents Folders Related Sync

MENDELEY
Literature Search
Mendeley Suggest

MY LIBRARY
All Documents
Recently Added
Favorites
Needs Review
My Publications
Unsorted
The Lancet
Create Folder...

GROUPS
Create Group...

Filter by My Tags

All
mendeley

All Documents Edit Settings

Authors	Title	Year	Published In
Cobb, Paul; C...	Design Experiments in Educational Research	2003	Educational Researcher
Attwell, Grah...	Personal Learning Environments - the fut...	2007	Lifelong Learning
Henning, V.; ...	Mendeley - A Last.fm For Research?	2008	2008 IEEE Fourth Inte...
Ingleby, Ewan	Research methods in education	2012	Professional Developm...
Sanger, Andrew	Transnational Human Rights Cases? Not in O...	2013	The Cambridg...
Lancet, The	Statins for millions more?	2014	The Lancet

Details Notes

Type: Journal Article

Mendeley - A Last.fm For Research?

Authors: V. Henning, J. Reichelt

View research catalog entry for this paper

Journal: *2008 IEEE Fourth International Conference on eScience*

Year: 2008

Volume:

Issue:

Pages:

Abstract:

This paper aims to explore how the principles of a well-known Web 2.0 service, the world's largest social music service "Last.fm" (www.last.fm), can be applied to research, which potential it could have in the world of research (e.g. an open and interdisciplinary database, usage-based reputation metrics, and collaborative filtering) and which challenges such a model would face in academia. A real-world application of these principles, "Mendeley" (www.mendeley.com), will be demoed at the IE...

1 of 6 documents selected

Структура библиотеки

The screenshot displays the Mendeley Desktop application window. The interface is divided into several sections:

- Top Bar:** Includes window control buttons (red, yellow, green), a search bar, and navigation tabs for Documents, Folders, Related, and Sync.
- Left Sidebar:**
 - MENDELEY:** Literature Search, Mendeley Suggest.
 - MY LIBRARY:** All Documents (selected), Recently Added, Favorites, Needs Review, My Publications, Unsorted, The Lancet, Create Folder...
 - GROUPS:** Create Group...
 - Filter by My Tags:** A dropdown menu currently showing 'All mendeley'.
- Main Document List:** A table with columns: Authors, Title, Year, and Published In. The selected document is highlighted in blue.

Authors	Title	Year	Published In
Cobb, Paul; C...	Design Experiments in Educational Research	2003	Educational Researcher
Attwell, Grah...	Personal Learning Environments - the fut...	2007	Lifelong Learning
Henning, V.; ...	Mendeley - A Last.fm For Research?	2008	2008 IEEE Fourth Inte...
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Sanger, Andrew	Transnational Human Rights Cases? Not in O...	2013	The Cambridg...
Lancet, The	Statins for millions more?	2014	The Lancet
- Right Panel (Details):** Shows the details for the selected document.
 - Type:** Journal Article
 - Title:** Mendeley - A Last.fm For Research?
 - Authors:** V. Henning, J. Reichelt
 - Journal:** 2008 IEEE Fourth International Conference on eScience
 - Year:** 2008
 - Volume:**
 - Issue:**
 - Pages:**
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At the bottom of the window, a status bar indicates "1 of 6 documents selected".

ССЫЛКИ

Mendeley Desktop

Documents Folders Related Sync

MENDELEY
Literature Search
Mendeley Suggest

MY LIBRARY
All Documents
Recently Added
Favorites
Needs Review
My Publications
Unsorted
The Lancet
Create Folder...

GROUPS
Create Group...

Filter by My Tags
All
mendeley

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1 of 6 documents selected

Details Notes

Type: Journal Article

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[View research catalog entry for this paper](#)

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Библиографические данные

The screenshot displays the Mendeley Desktop application. The main window is titled "Mendeley Desktop" and features a menu bar with "Documents", "Folders", "Related", and "Sync". Below the menu bar is a toolbar with icons for document management. The left sidebar contains navigation options: "MENDELEY" (Literature Search, Mendeley Suggest), "MY LIBRARY" (All Documents, Recently Added, Favorites, Needs Review, My Publications, Unsorted, The Lancet, Create Folder...), and "GROUPS" (Create Group...). A "Filter by My Tags" dropdown is set to "All", and the tag "mendeley" is visible. The central pane shows a table of documents under the "All Documents" view.

Authors	Title	Year	Published In
Cobb, Paul; C...	Design Experiments in Educational Research	2003	Educational Researcher
Attwell, Grah...	Personal Learning Environments - the fut...	2007	Lifelong Learning
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Lancet, The	Statins for millions more?	2014	The Lancet

The right pane shows the details for the selected document, "Mendeley - A Last.fm For Research?". The "Type" is "Journal Article". The authors are "V. Henning, J. Reichelt". A button "View research catalog entry for this paper" is present. The journal information is: "2008 IEEE Fourth International Conference on eScience". The year is "2008". The abstract text is: "This paper aims to explore how the principles of a well-known Web 2.0 service, the world's largest social music service 'Last.fm' (www.last.fm), can be applied to research, which potential it could have in the world of research (e.g. an open and interdisciplinary database, usage-based reputation metrics, and collaborative filtering) and which challenges such a model would face in academia. A real-world application of these principles, 'Mendeley' (www.mendeley.com), will be demoed at the IE..."

1 of 6 documents selected

Добавление «Drag and Drop»

Mendeley Desktop

Documents Folders Related Sync

MENDELEY
Literature Search
Mendeley Suggest

MY LIBRARY
All Documents
Recently Added
Favorites
Needs Review
My Publications
Unsorted
The Lancet
Create Folder...

GROUPS
Create Group...

Filter by My Tags
All
mendeley

All Documents Edit Settings

Authors	Title	Year	Published In
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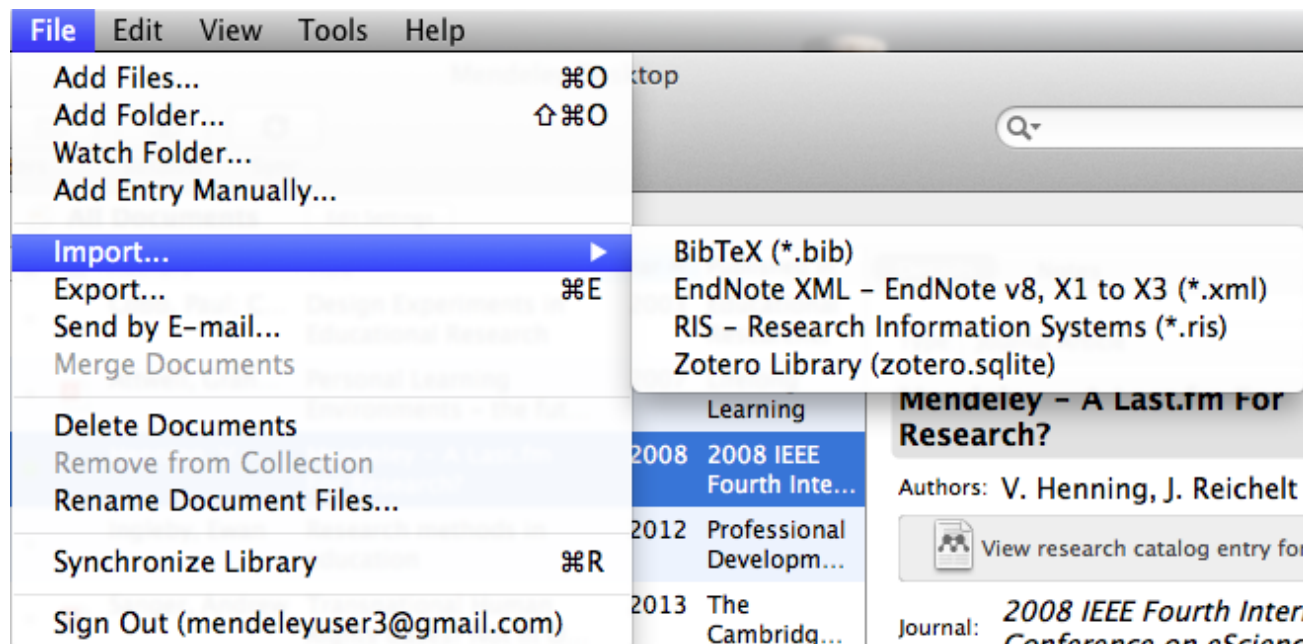
Добавление документов

Выбор файл или папки для добавления с жесткого диска

Импорт ссылок из BibTex, Endnote или Zotero

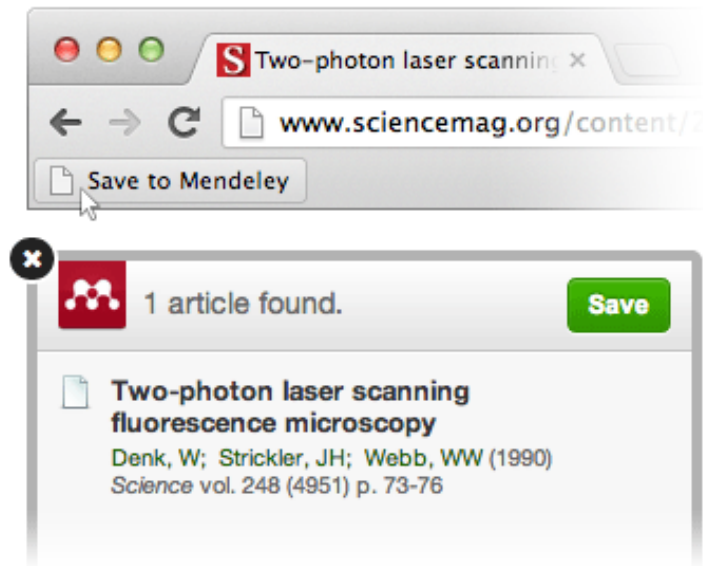
Слежение за папкой

Добавление вручную



Добавление новых ссылок

Mendeley Web Importer



Mendeley Research Catalog

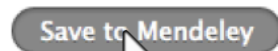


Web Importer

сохранение данных в процессе работы с веб-страницами

How it works

1. Drag the "Save To Mendeley" button to your Bookmarks Bar



Can't see your Bookmarks Bar?

2. Find an article

Search for articles in a wide variety of sites, such as those listed below.

3. Click the "Save to Mendeley" bookmark

Click the **"Save to Mendeley"** bookmark you just created, and the article details will display on the right hand side of the page.

4. Review the details and Save

If the details look ok, click the "Save" button.

Next time you sync Mendeley Desktop, any newly saved articles will appear in the "Recently Added" section.



Пример использования Web Importer

По клику 'Save to Mendeley' открывается окно импорта с найденными статьями

The screenshot shows a web browser window with the address bar containing the URL: `scholar.google.co.uk/scholar?hl=en&q=Mendeley&btnG=&as_sdt=1%2C5&as_sdtp=`. The search results for 'Mendeley' are displayed, with a 'Save to Mendeley' button highlighted by a grey arrow. A modal window is open, showing 10 articles found, with a 'Save all' button highlighted by another grey arrow. The modal window lists the following articles:

- Mendeley-A Last. fm For Research?** (Henning, V; Reichelt, J (2008) *eScience, 2008. eScience'08. IEEE ...*)
- Generic assignments, strain histories and properties of pure cultures of cyanobacteria** (Rippka, R; Deruelles, J (1979) *Journal of General ...*)
- International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (Serotonin).** (Hoyer, D; Clarke, DE; Fozard, JR (1994) *Pharmacological ...*)
- The membrane actions of anesthetics and tranquilizers** (Seeman, P (1972) *Pharmacological Reviews*)

Возможности сохранения всех или выборочных статей. При наличии PDF – сохраняет с полным текстом

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ScienceDirect

Journals Books

Remote access

Andrey Loktev

ultra-short electromagnetic pulses

Author name

Journal or book title

Volume

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Page



Advanced search

Search results: 14,224 results found.

See image results



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RSS

Refine filters

Year

- 2016 (438)
- 2015 (763)
- 2014 (713)
- 2013 (672)
- 2012 (564)

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Publication title

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- Ultrasonics (310)
- NDT & E International (278)
- Physics Reports (242)
- Optics Communications (224)

View more >>

Topic

- laser (757)
- electron (489)
- energy (487)
- surface (361)

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Relevance

All access types

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You have selected 1 citation for export.

Help

Direct export



Save to Mendeley



Save to RefWorks

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- RIS (for EndNote, Reference Manager, ProCite)
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Content

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Выбор статьи

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ultra-short electromagnetic pulses

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Journal or book title

Volume

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Page



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- Dynamics of ultra-short electromagnetic pulses in the system of chiral carbon nanotube waveguides in the presence of external alternating electric field Original Research Article
Physica B: Condensed Matter, Volume 438, 1 April 2014, Pages 45-47
N.N. Konobeeva, M.B. Belonenko

▶ Abstract | PDF (398 K)

- Generation of ultra-short quasi-unipolar electromagnetic pulses in the system of quasi-planar electron bunches Original Research Article
Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, Volume 475, Issue 1, December 2001, Pages 436-440
V.L. Bratman, D.A. Jaroszynski, S.V. Samsonov, A.V. Savilov

▶ Abstract | PDF (228 K)

- Few-cycle optical pulses in a thin film of a topological insulator Research Article
Optics Communications, Volume 329, 15 October 2014, Pages 151-153
Alexander V. Zhukov, Roland Bouffanais, Mikhail B. Belonenko, N.N. Konobeeva, Thomas F. George

▶ Abstract | PDF (324 K)



1 article found

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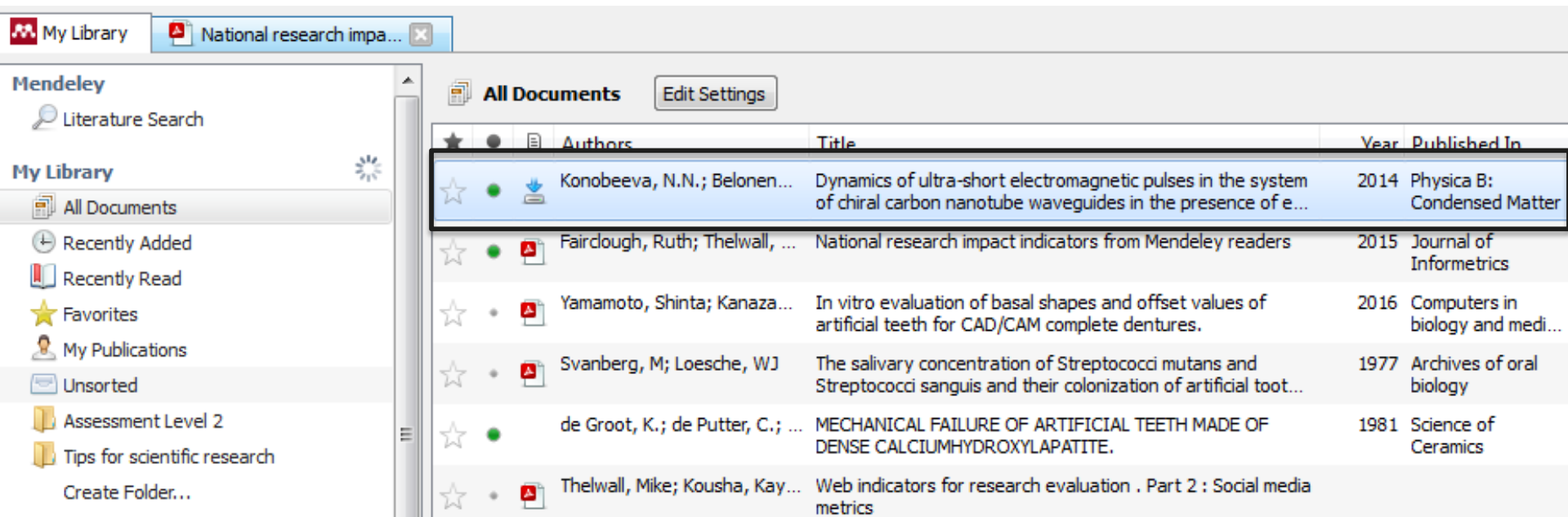


Dynamics of ultra-short electromagnetic pulses in the system of chiral carbon nanotube waveguides in the presence of external alternating electric field

Konobeeva, N.N.; Belonenko, M.B. (2014)
Physica B: Condensed Matter vol. 438 p. 45-47

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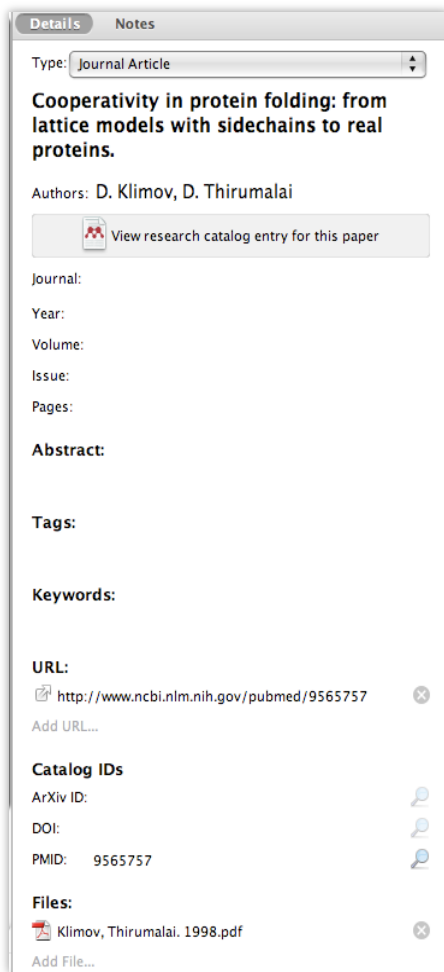


The screenshot displays the Mendeley Desktop interface. On the left is a sidebar with navigation options: Literature Search, My Library (with a refresh icon), All Documents, Recently Added, Recently Read, Favorites, My Publications, Unsorted, Assessment Level 2, and Tips for scientific research. The main window shows a list of documents under the 'All Documents' tab. The table has columns for Authors, Title, Year, and Published In. The first row is highlighted in blue.

★	●	📄	Authors	Title	Year	Published In
☆	●	📄	Konobeeva, N.N.; Belonen...	Dynamics of ultra-short electromagnetic pulses in the system of chiral carbon nanotube waveguides in the presence of e...	2014	Physica B: Condensed Matter
☆	●	📄	Fairdough, Ruth; Thelwall, ...	National research impact indicators from Mendeley readers	2015	Journal of Informetrics
☆	●	📄	Yamamoto, Shinta; Kanaza...	In vitro evaluation of basal shapes and offset values of artificial teeth for CAD/CAM complete dentures.	2016	Computers in biology and medi...
☆	●	📄	Svanberg, M; Loesche, WJ	The salivary concentration of Streptococci mutans and Streptococci sanguis and their colonization of artificial toot...	1977	Archives of oral biology
☆	●	📄	de Groot, K.; de Putter, C.; ...	MECHANICAL FAILURE OF ARTIFICIAL TEETH MADE OF DENSE CALCIUMHYDROXYLAPATITE.	1981	Science of Ceramics
☆	●	📄	Thelwall, Mike; Kousha, Kay...	Web indicators for research evaluation . Part 2 : Social media metrics		



Обеспечение полноты библиотеки




Details Notes

Type: Journal Article

Cooperativity in protein folding: from lattice models with sidechains to real proteins.

Authors: D. Klimov, D. Thirumalai

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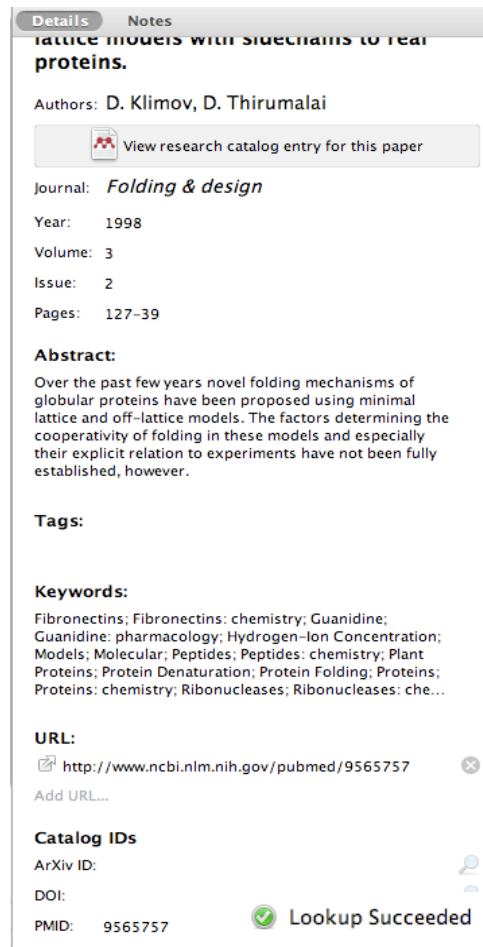
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Cooperativity in protein folding: from lattice models with sidechains to real proteins.

Authors: D. Klimov, D. Thirumalai

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Journal: *Folding & design*

Year: 1998

Volume: 3



Issue: 2

Pages: 127-39

Abstract:
Over the past few years novel folding mechanisms of globular proteins have been proposed using minimal lattice and off-lattice models. The factors determining the cooperativity of folding in these models and especially their explicit relation to experiments have not been fully established, however.

Tags:

Keywords:
Fibronectins; Fibronectins: chemistry; Guanidine; Guanidine: pharmacology; Hydrogen-Ion Concentration; Models; Molecular; Peptides; Peptides: chemistry; Plant Proteins; Protein Denaturation; Protein Folding; Proteins; Proteins: chemistry; Ribonucleases; Ribonucleases: che...


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The screenshot shows the Mendeley Desktop application window. The interface includes a top toolbar with icons for Documents, Folders, Related, and Sync. A left sidebar contains sections for MENDELEY, MY LIBRARY, and GROUPS. The main area displays a list of documents under the 'All Documents' view. Annotations with lines pointing to specific elements are provided:

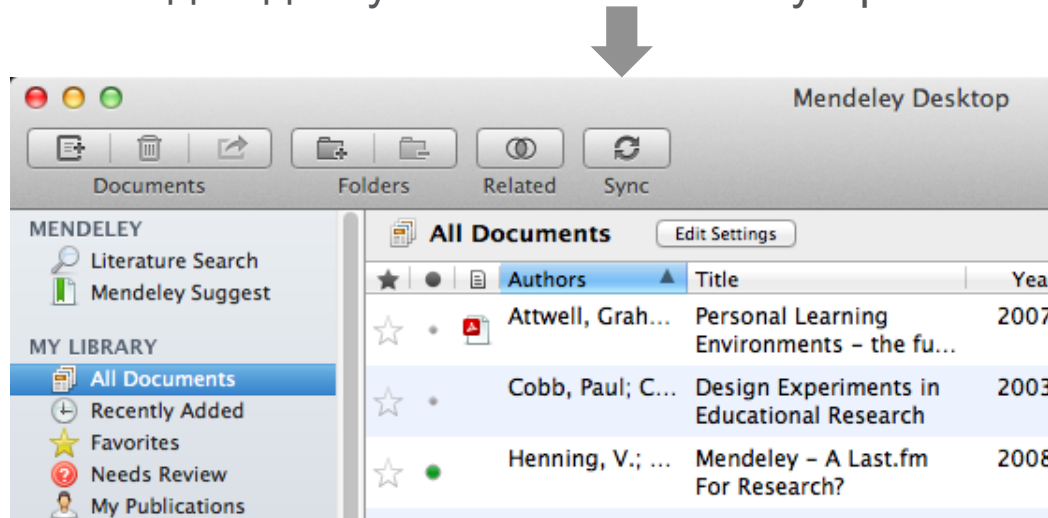
- Выделить избранное**: Points to a yellow star icon in the document list.
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- Индикатор типа прикрепленного документа (.pdf, .ppt, .docx, excel и др.)**: Points to a red document icon in the document list.

The document list table is as follows:

Star	Dot	Icon	Authors	Title	Count
★	●	PDF	Antelman, K	Do open-access articles have a greater resear...	2
★	●		Bailey, Charl...	Open Access and Libraries	2
☆	●		Bryne, JC; Val...	JASPAR, the open access database of tra...	2
★	●	PDF	Carroll, Mich...	Why full open access matters	2
☆	●		Eysenbach, G	Citation advantage of open access articles	2

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The screenshot shows the Mendeley Desktop interface. At the top, there is a search bar containing the text "open access". A dropdown menu is visible below the search bar, listing filter options: Authors, Titles, Publication Names, Year, and Notes. The main area displays search results for "open access" in "All Documents". The results list includes:

- Ten-year cross-disciplinary comparison of the growth of open access and how it increases C Hajjem; S Harnad; Y Gingras – 2006 – arXiv preprint cs/0606079
- The access/impact problem and the green and gold roads to open access S Harnad; T Brody; F Vallières; L Carr – 2004 – Serials review
- When is open access not open access? Catriona J MacCallum – 2007 – PLoS biology
Author Keywords: Access to Information, Humans, Internet, Periodicals as Topic, Periodicals as ...been a spectacular growth in "open-access" journals. The Directory of Open Access ...
- Comparing the impact of open access (OA) vs. non-OA articles in the same journals S Harnad; T Brody – 2004 – D-lib Magazine
- Citation advantage of open access articles G Eysenbach – 2006 – PLoS biology
- JASPAR: an open-access database for eukaryotic transcription factor binding profiles A Sandelin; W Alkema – 2004 – Nucleic acids ...
- JASPAR, the open access database of transcription factor-binding profiles: new content ar JC Bryne; E Valen; M Tang – 2008 – Nucleic acids ...
Tags: open access

On the left side, the "GROUPS" section is visible, with a filter menu open over it. The filter menu options are:

- Filter by Author Keywords
- Filter by Authors
- Filter by My Tags
- Filter by Publications

The "MY LIBRARY" section on the left includes "All Documents", "Recently Add...", "Favorites", "My Publicatio...", "Unsorted", and "Create Folder...".

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Тэги

Details Notes Contents Enrichments

Type: Journal Article

Why full open access matters

Authors: M. Carroll

 View research catalog entry for this paper

Journal: *PLoS Biology*

Year: 2011

Volume: 9

Issue: 11

Pages: e1001210

Abstract:

This perspective explains the mechanics of copyright and scholarly publishing and warns authors who support open-access publishing about a new pseudo open-access publishing model in which authors pay but publishers still retain commercial reuse rights.

Tags:

Mendeley; Open Access



Mendeley Desktop

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- Unsorted
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- Create Group...

TRASH

- All Deleted Documents

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- Mendeley
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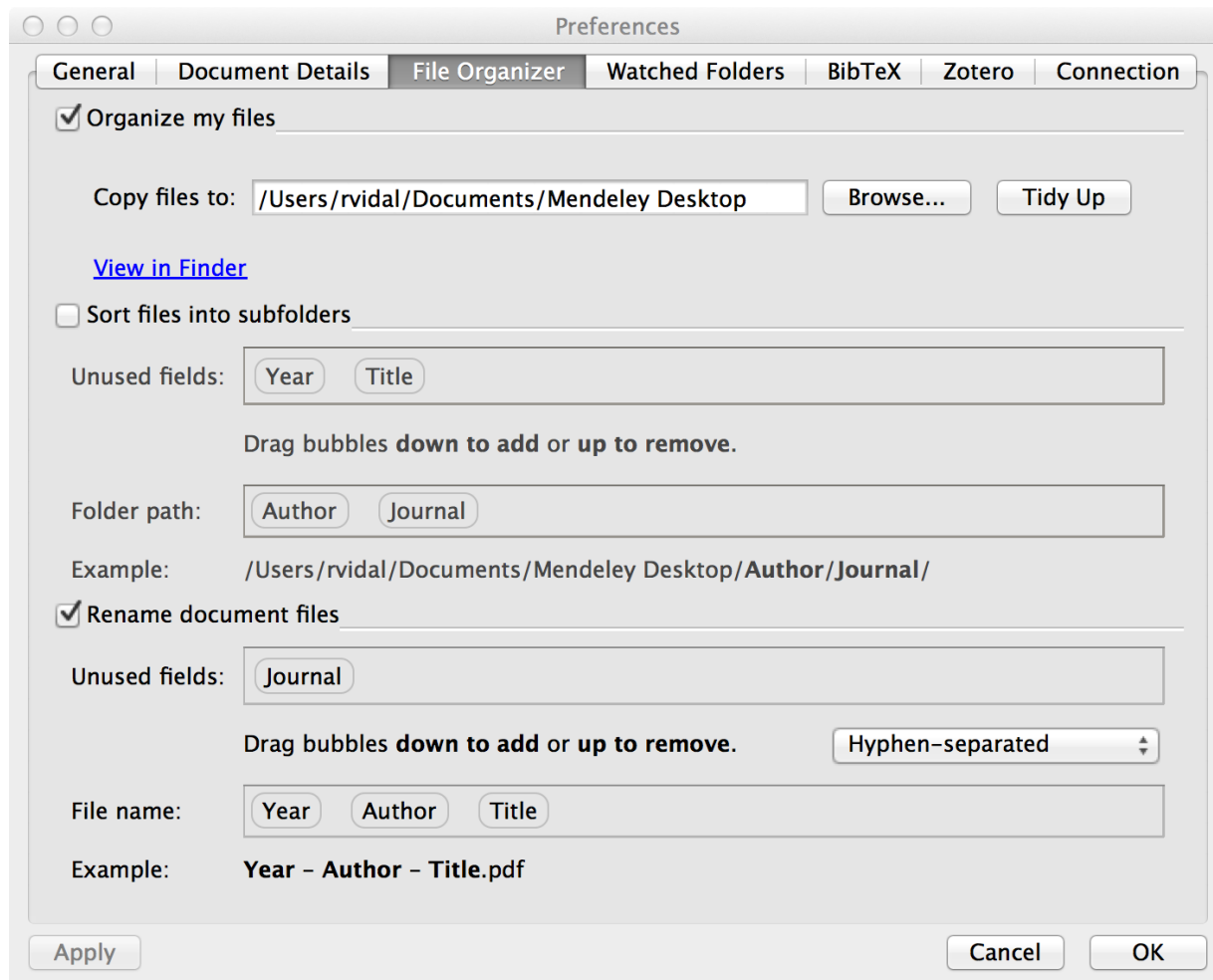
Showing documents tagged "open access" Clear

★	●	📄	Authors	Title	Year	Published In
★	●		Bailey, Charl...	Open Access and Libraries	2007	Collection Management
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★	●	📄	Carroll, Mich...	Why full open access matters	2011	PLoS Biology
☆	●		Eysenbach, G...	The open access advantage.	2006	Journal of medical Int...
☆	●	📄	Homans, FR; ...	A model of regulated open access resource use	1997	Journal of Environme...
☆	●		Lewis, David W	The Inevitability of Open Access	2012	College & Research Li...

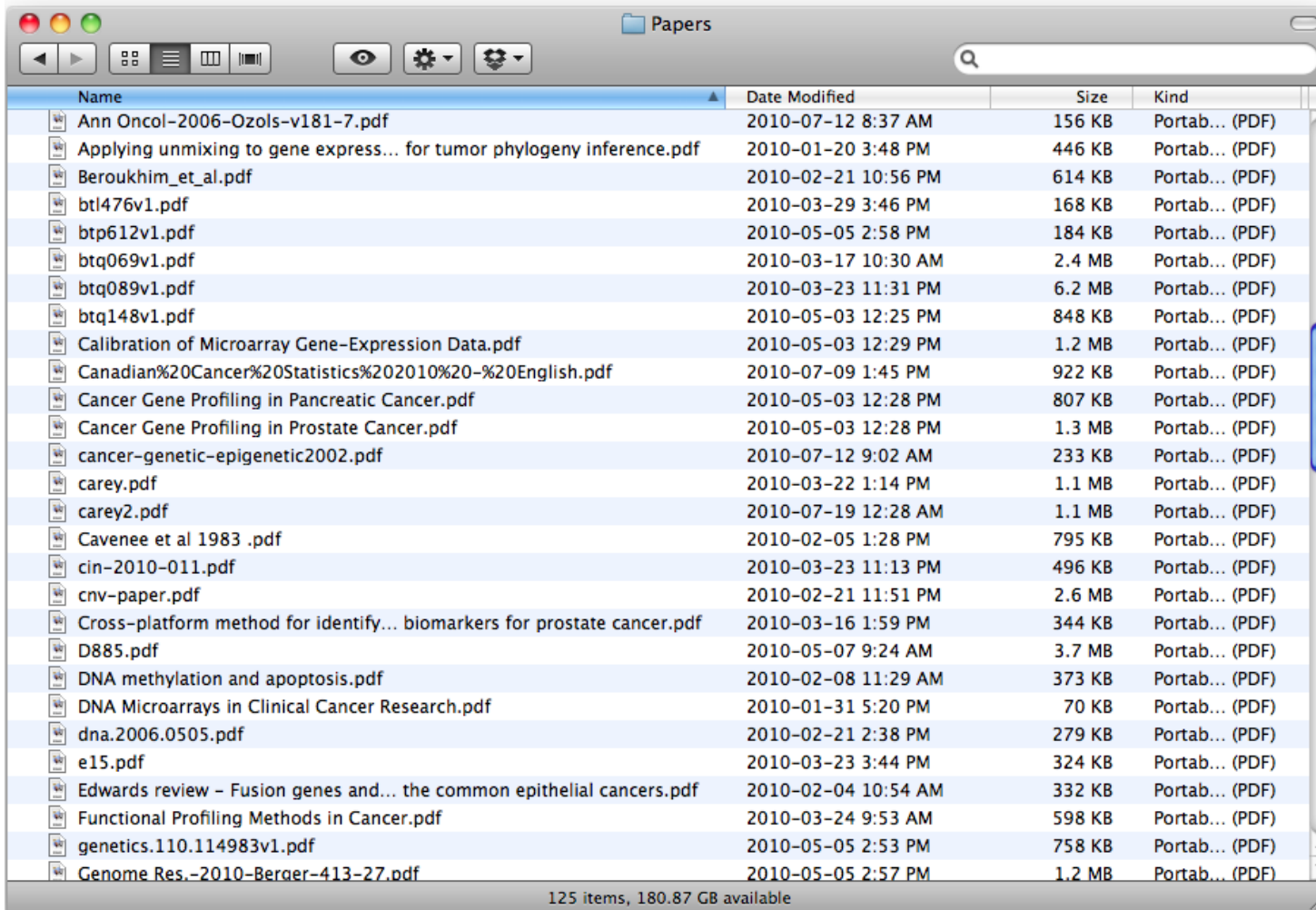
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Beroukhim_et_al.pdf	2010-02-21 10:56 PM	614 KB	Portab... (PDF)
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btp612v1.pdf	2010-05-05 2:58 PM	184 KB	Portab... (PDF)
btq069v1.pdf	2010-03-17 10:30 AM	2.4 MB	Portab... (PDF)
btq089v1.pdf	2010-03-23 11:31 PM	6.2 MB	Portab... (PDF)
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Canadian%20Cancer%20Statistics%202010%20-%20English.pdf	2010-07-09 1:45 PM	922 KB	Portab... (PDF)
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Alkan et al. - 2009 - Personalized ...ing next-generation sequencing.pdf	2010-05-10 12:00 PM	815 KB	Portab... (PDF)
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Anderson et al. - 2008 - BBF RFC 0 Instructions to BBF RFC Authors.pdf	2010-03-17 4:23 PM	41 KB	Portab... (PDF)
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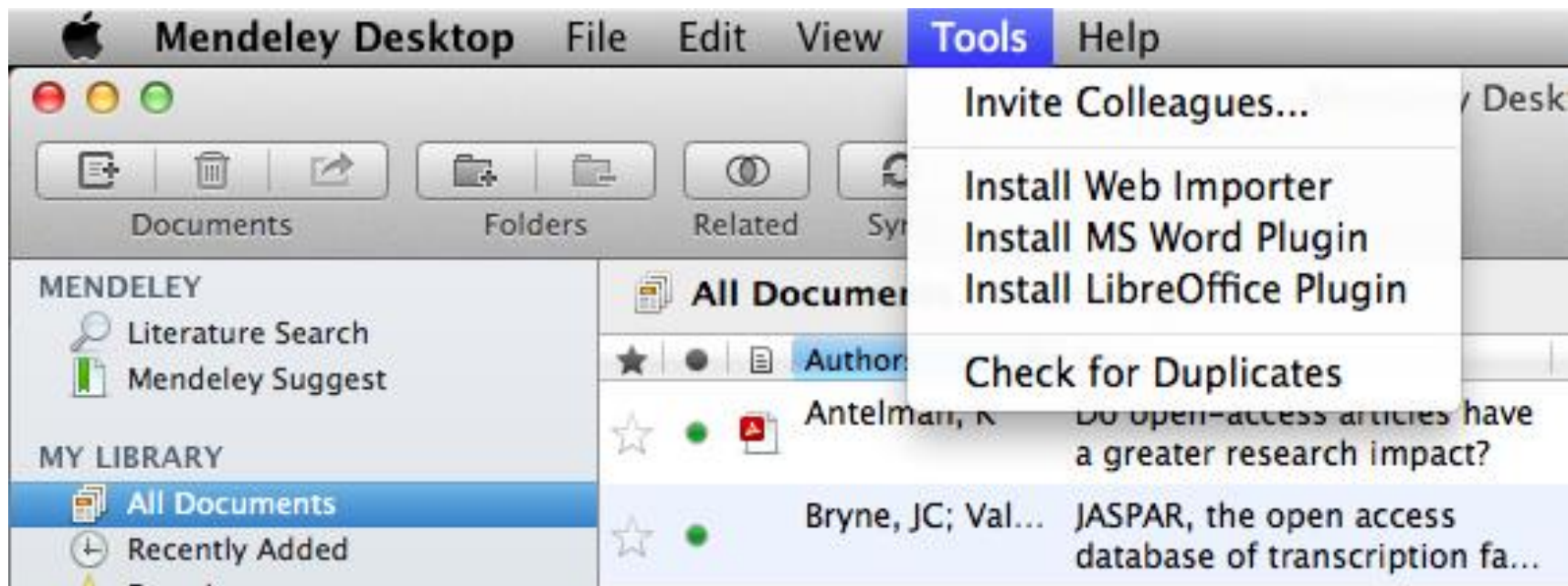
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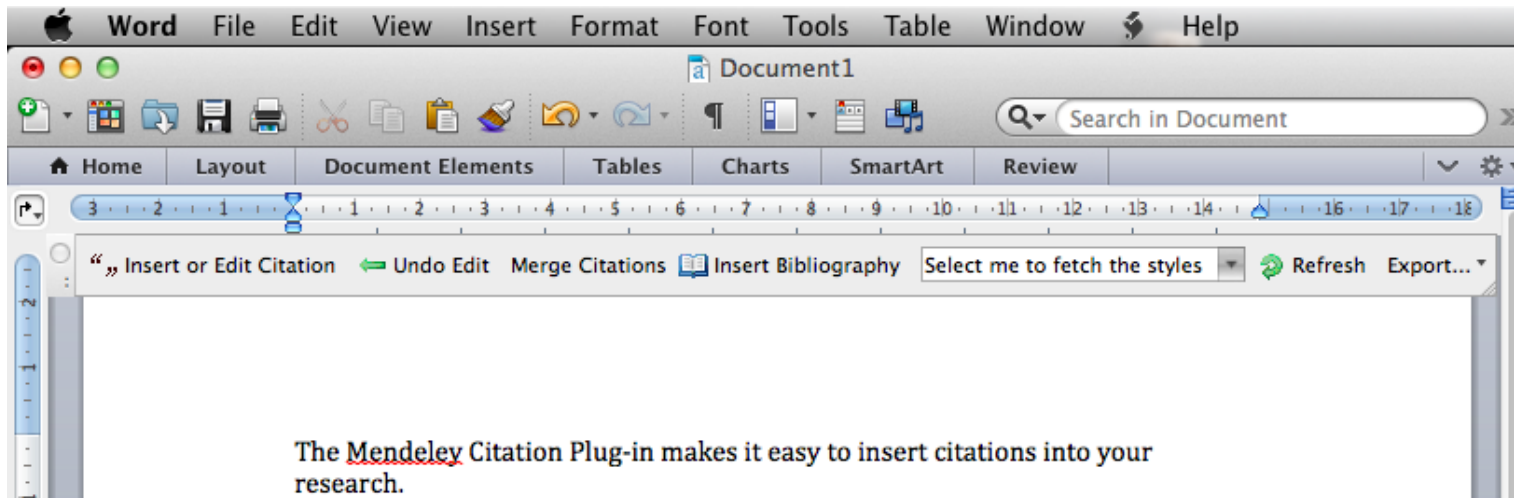
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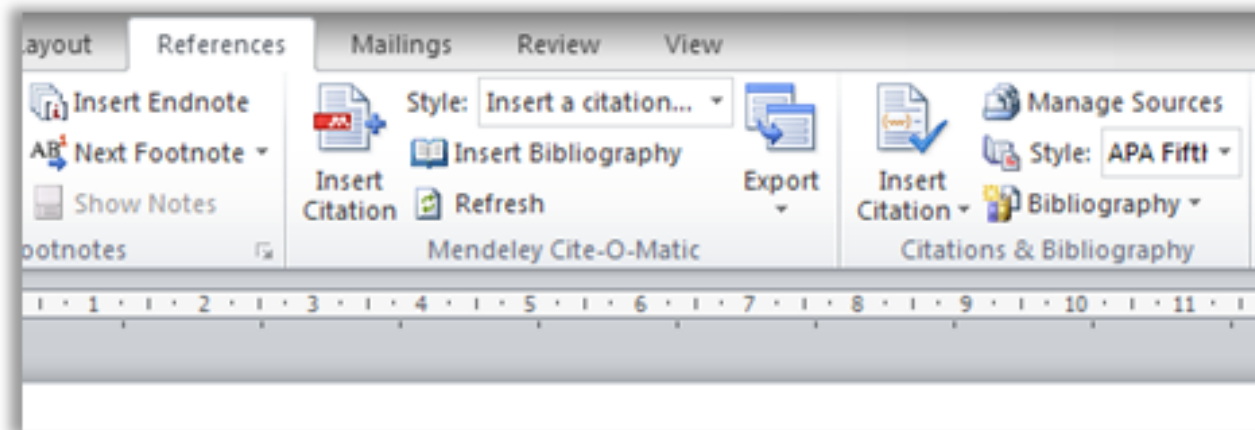


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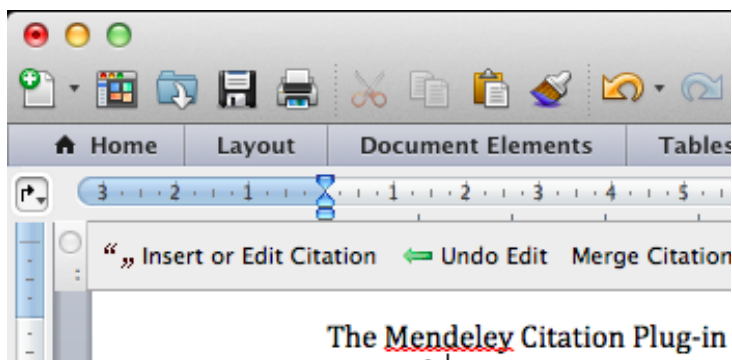


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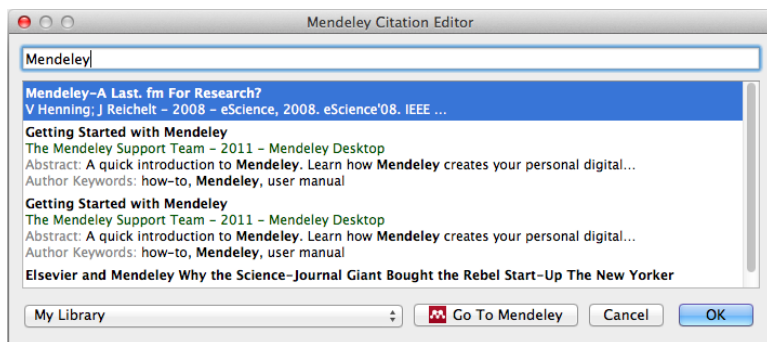
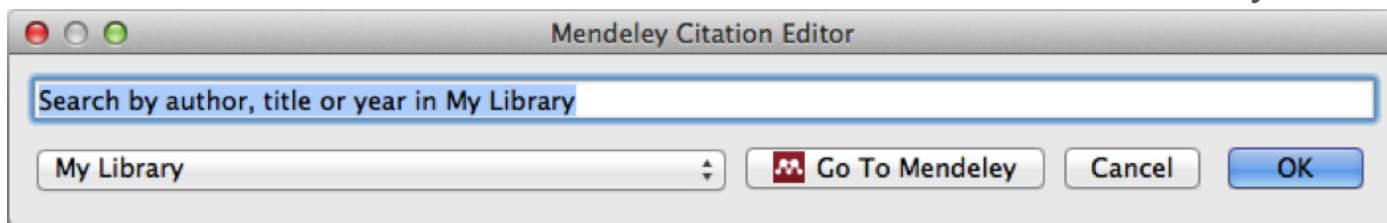
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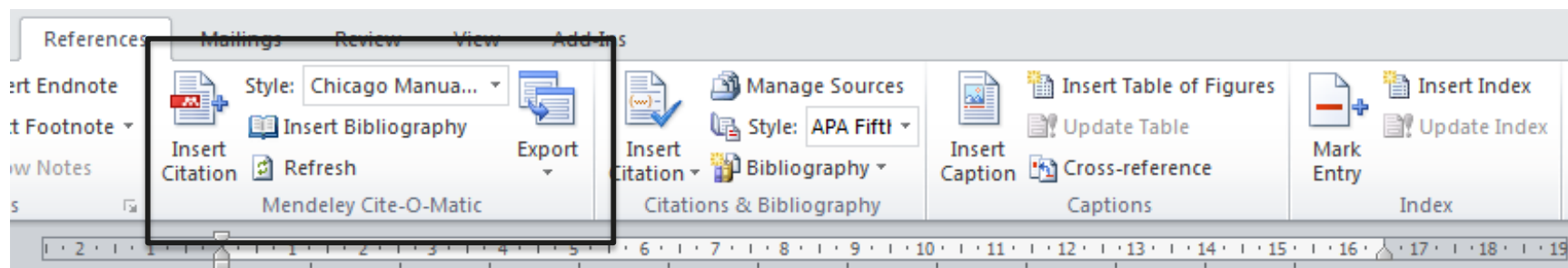


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Another part (Murzabulatov, Pangonis, and Shustin 2004)

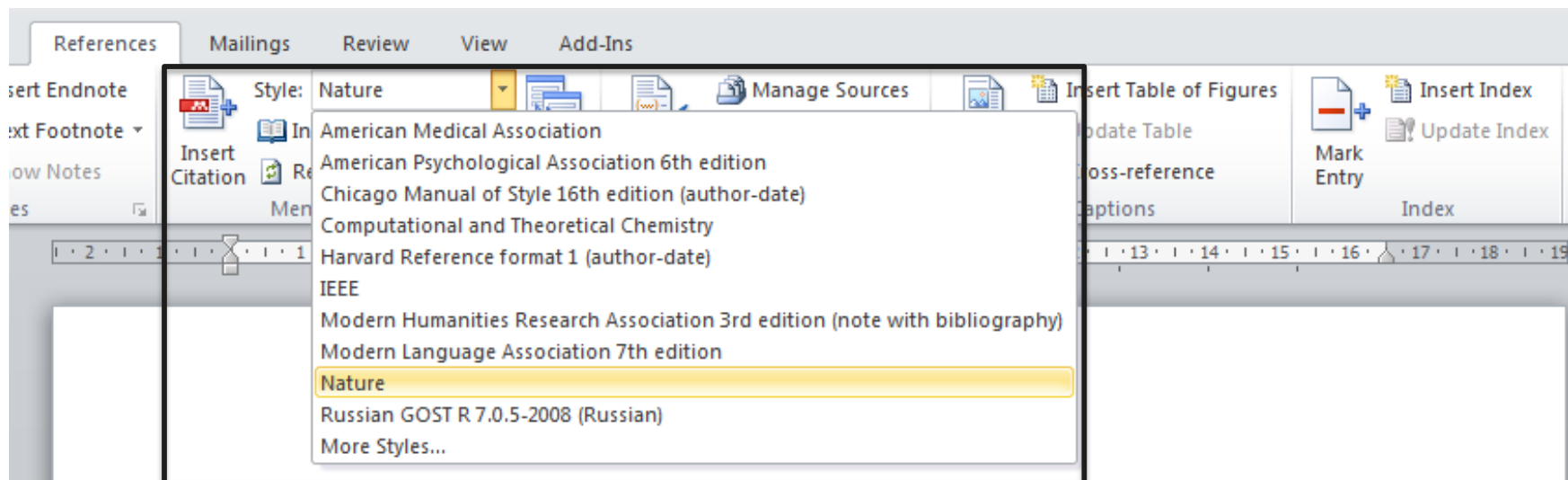
BIBLIOGRAPHY

Borisov, B.S., N.V. Isaev, L.Yu. Kochmarev, V.A. Strashinskii, and E.G. Shustin. 1998. "Scattering of Probing Radio Waves by Highly Turbulent Beam-Plasma Structures." *Journal of Communications Technology and Electronics* 43 (9).

Isaev, N.V., L.Yu. Kochmarev, and E.G. Shustin. 1997. "Energy Distribution of Ions Escaping from a Beam-Plasma Discharge." *Plasma Physics Reports* 23 (10).

Klykov, I.L., V.P. Tarakanov, and E.G. Shustin. 2012. "Energy Characteristics of Beam-Plasma Interaction in a Closed Volume." *Plasma Physics Reports* 38 (3). doi:10.1134/S1063780X12020067.

Murzabulatov, K.T., L.I. Pangonis, and E.G. Shustin. 2004. "Strongly Dispersed Wave-Guiding Microwave Structures for Monitoring the Moisture Content in Gas Media." *Gazovaya Promyshlennost*, no. 10.



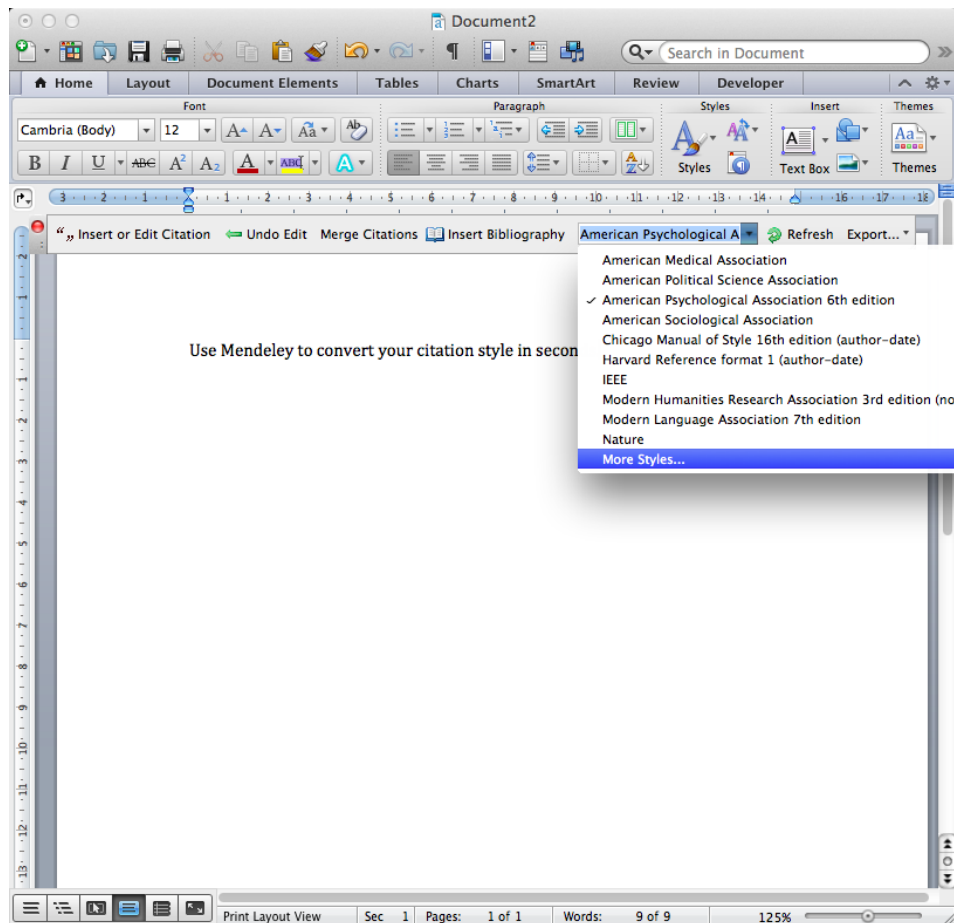
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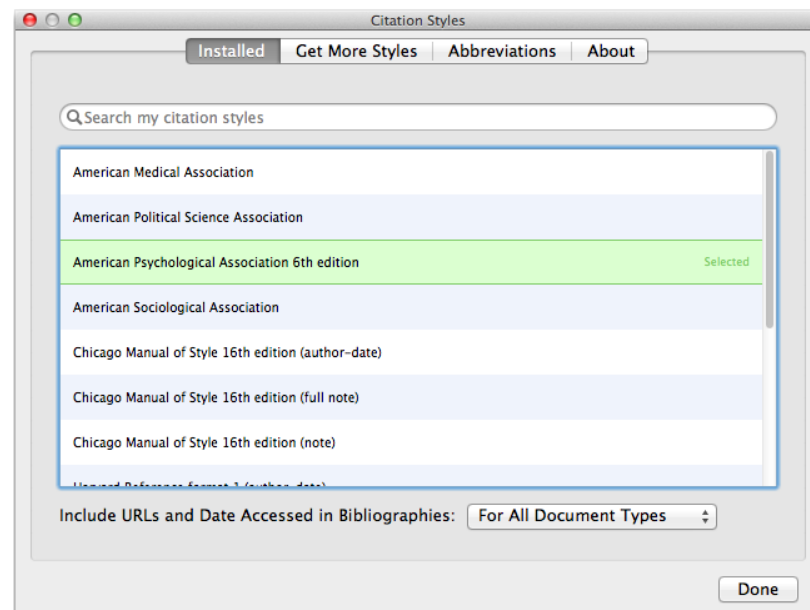
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1. Borisov, B. S., Isaev, N. V., Kochmarev, L. Y., Strashinskii, V. A. & Shustin, E. G. Scattering of Probing Radio Waves by Highly Turbulent Beam-Plasma Structures. *J. Commun. Technol. Electron.* **43**, (1998).
2. Klykov, I. L., Tarakanov, V. P. & Shustin, E. G. Energy characteristics of beam-plasma interaction in a closed volume. *Plasma Phys. Reports* **38**, (2012).
3. Isaev, N. V., Kochmarev, L. Y. & Shustin, E. G. Energy distribution of ions escaping from a beam-plasma discharge. *Plasma Phys. Reports* **23**, (1997).
4. Murzabulatov, K. T., Pangonis, L. I. & Shustin, E. G. Strongly dispersed wave-guiding microwave structures for monitoring the moisture content in gas media. *Gazov. Promyshlennost* (2004).

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