

# Science Direct – функциональные возможности и содержимое по областям наук

## Немного статистики

- Elsevier ежегодно публикует более 300 000 статей
- В ScienceDirect доступно более 13 млн статей из более чем 2 600 журналов, а также более 26 000 книг
- Российские федеральные вузы в среднем 3 000 раз обращаются к статьям на ScienceDirect в месяц
- Ученые крупного китайского ВУЗа за месяц читают более 10 000 статей на ScienceDirect
- В 2014 году исследователи скачали более 700 миллионов статей из ScienceDirect
- СВФУ в месяц читает немногим более 100 статей на ScienceDirect



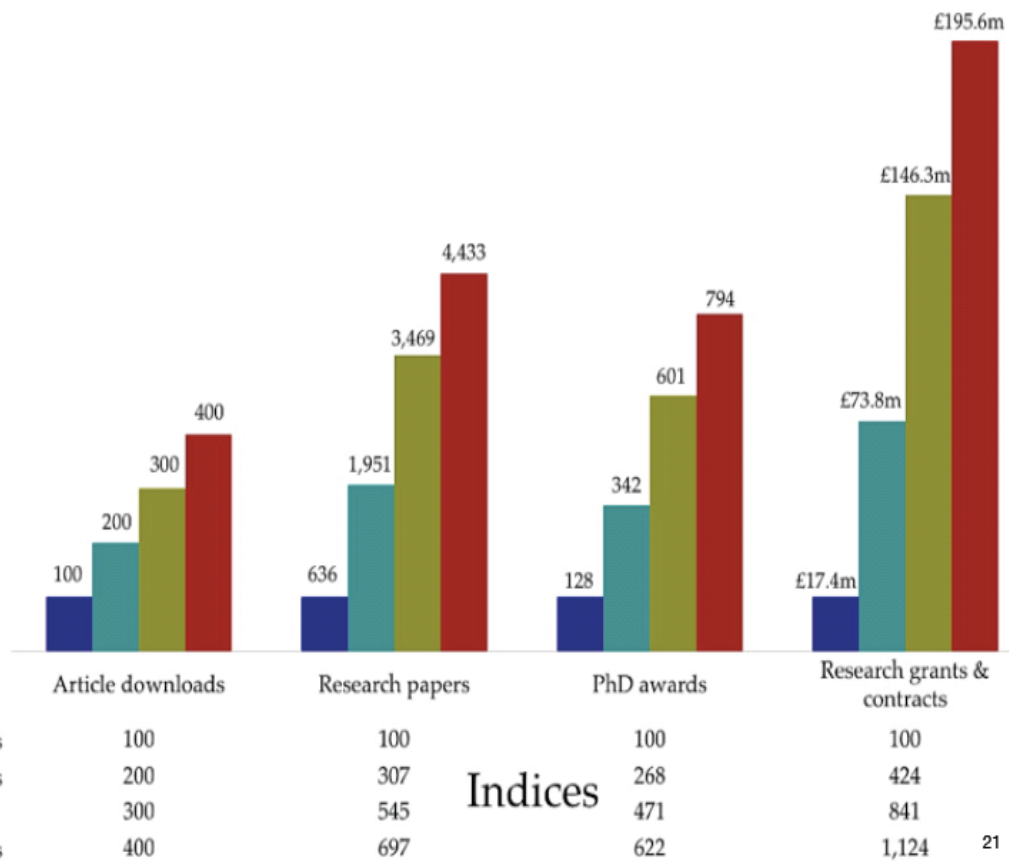
# Чтение научной литературы способствует созданию нового знания



# Публикационная активность и финансирование напрямую связаны с использованием научных ресурсов

## Journal use and research outcomes: a thought experiment

*CIBER institutional indicators*



“При двукратном увеличении количества скачиваемых статей, с 1 до 2 млн происходит статистически значимое, резкое увеличение публикационной активности”, в том числе:

- 1) Рост количества статей на 207%
- 2) Рост количества диссертаций на 168%
- 3) Увеличение внебюджетного финансирования на 324%

# ScienceDirect

- Содержит более **2500** полнотекстовых электронных журналов - 25% издаваемых статей
- Elsevier публикует 21% среди 1% наиболее цитируемых статей в мире\*
- В открытом доступе более **380** журналов, в том числе и 14 журналов издательства Cell Press (с 1995 года), рефераты всех статей
- Болкк **13** млн рефератов/полнотекстовых статей
  - Содержание сформировано с 1995 и далее
  - Ретроспективная коллекция вплоть до Vol. 1 Issue 1
  - Статьи еще не вышедшие в печать
- Электронные энциклопедии (Online Reference works) – 112 названий
- Электронный справочники (Handbooks) – 200 названий
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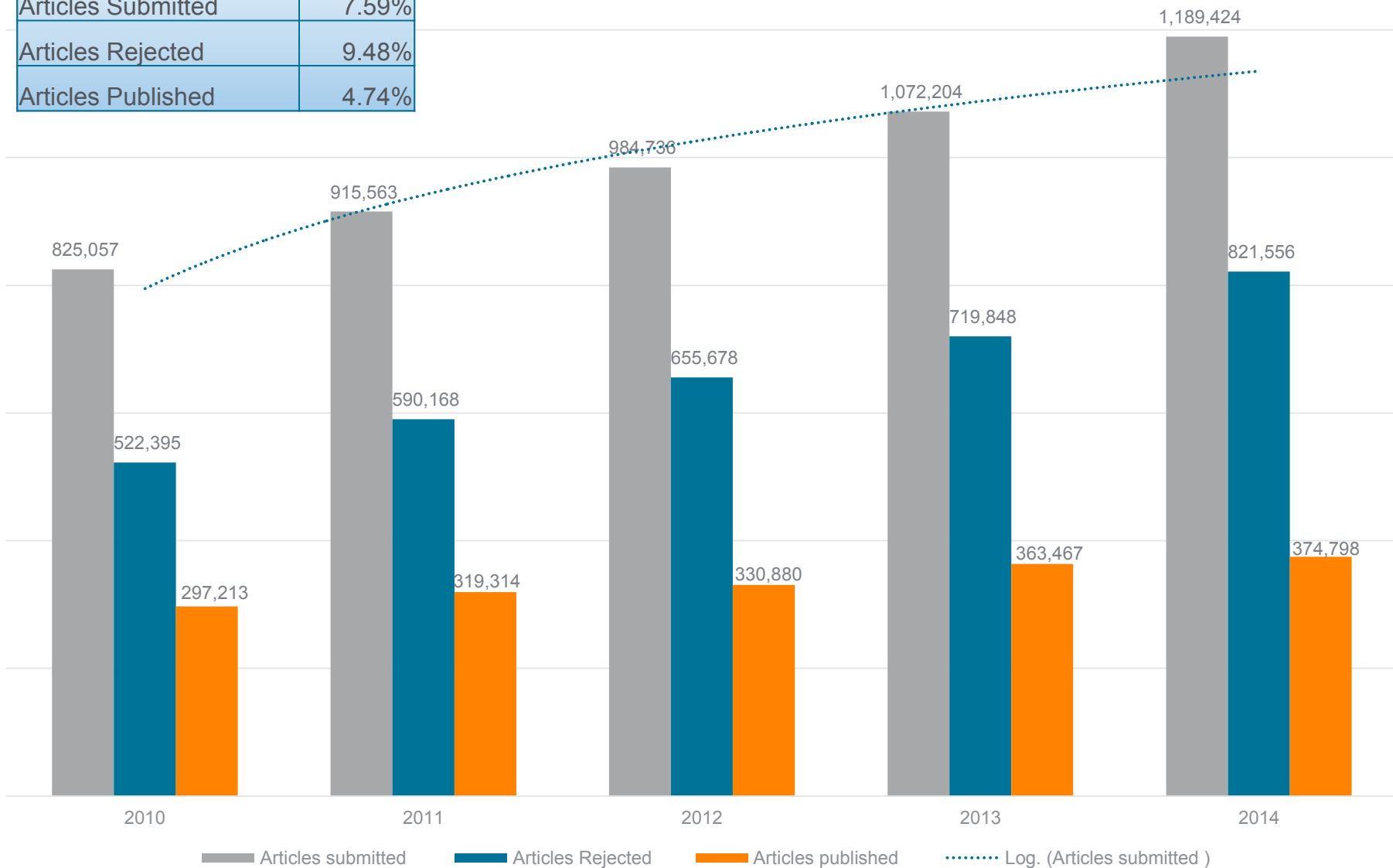
# Elsevier journals that rank No.1 in subject categories (2014)



No.1 in 62 categories  
(out of 232 categories)

# The work of a publisher: Submissions, Rejections and Publications

| 5 Year CAGR: 2010-2014 |       |
|------------------------|-------|
| Articles Submitted     | 7.59% |
| Articles Rejected      | 9.48% |
| Articles Published     | 4.74% |



## Предметные коллекции ScienceDirect

- Agricultural and Biological Sciences – 162 журнала
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- Chemical Engineering – 81 журнал
- Chemistry – 113 журналов
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- Decision Sciences – 47 журналов
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- Neuroscience – 113 журналов
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- Social Sciences – 171 журнал

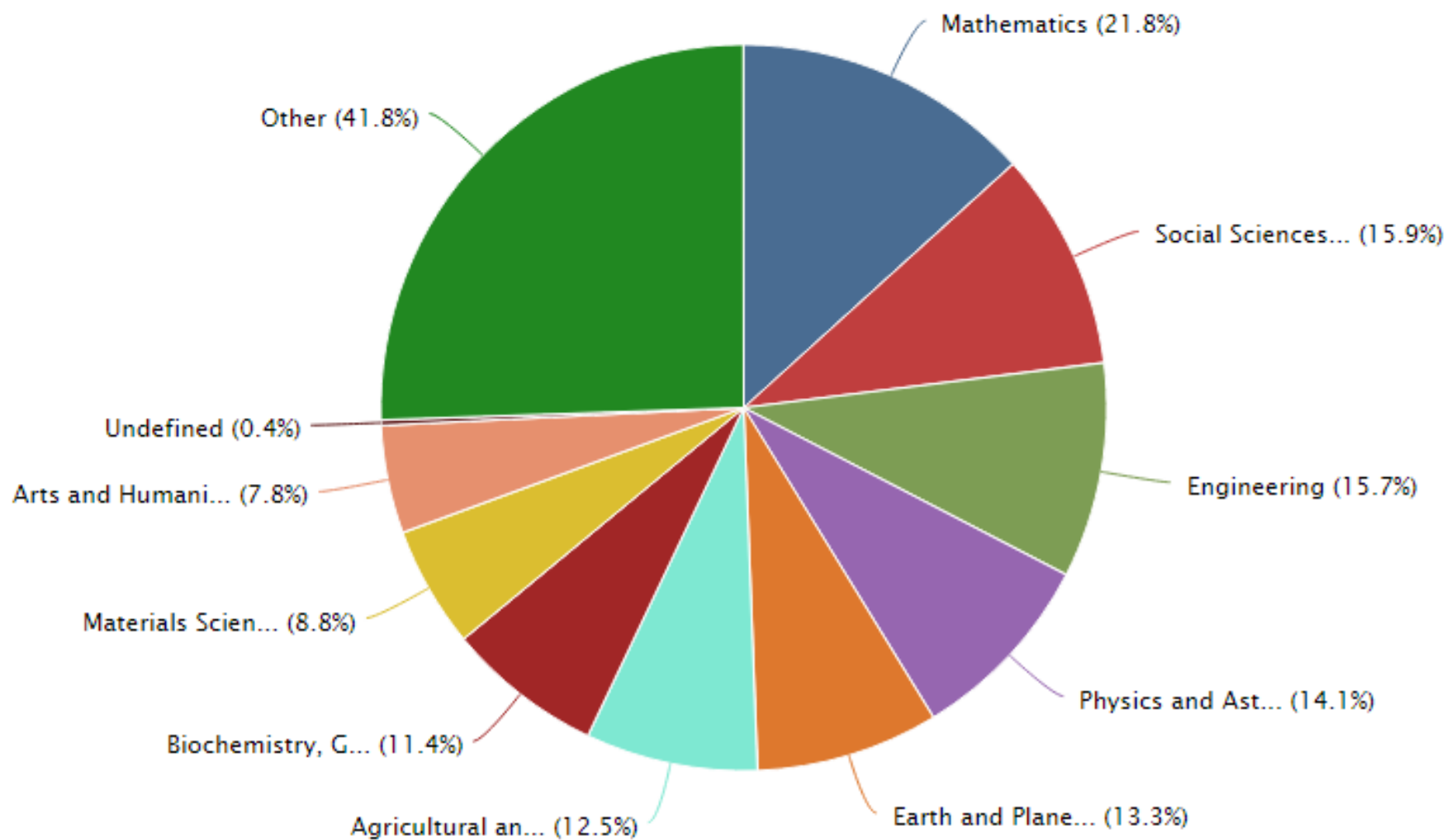


# Наиболее читаемые журналы СВФУ

- 1      Procedia - Social and Behavioral Sciences
- 2      Journal of Neuroimmunology
- 3      Journal of Environmental Management
- 4      Computers & Mathematics with Applications
- 5      Journal of Computational and Applied Mathematics
- 6      Energy Research & Social Science
- 7      Journal of Differential Equations
- 8      International Journal of Intercultural Relations
- 9      Teaching and Teacher Education
- 10     Applied Mathematical Modelling
- 11     Journal of Mathematical Analysis and Applications
- 12     Mathematical and Computer Modelling
- 13     International Journal of Solids and Structures
- 14     Journal of Dentistry
- 15     Personality and Individual Differences
- 16     Pacific Science Review
- 17     Social Science & Medicine
- 18     Ecological Complexity
- 19     Contaduría y Administración
- 20     International Journal of Rock Mechanics and Mining Sciences &  
Geomechanics Abstracts

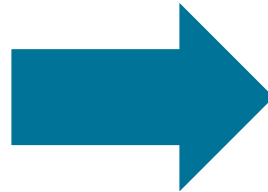
# Тематики исследований, востребованные в СВФУ

## Documents by subject area



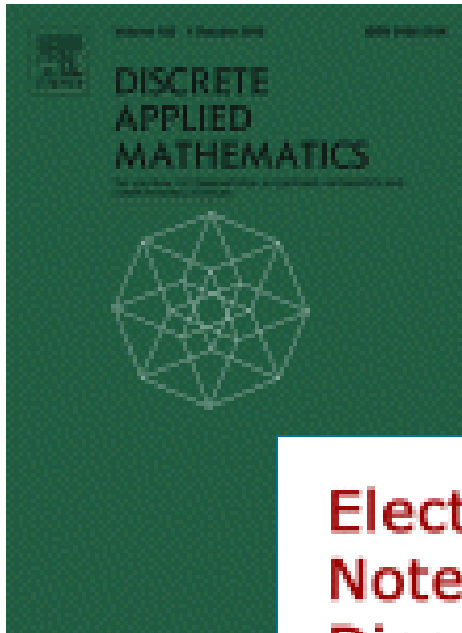
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- Sakha
- Siberia
- Planar graph
- Permafrost
- Polytetrafluoroethylenes
- Graph theory
- Wear resistance
- Ethnic group
- Haplotype
- Mitochondrial DNA
- Tribology
- Activation energy
- Friction
- Silicon
- Boreal forest
- Composite materials
- Cracks
- Phylogeny



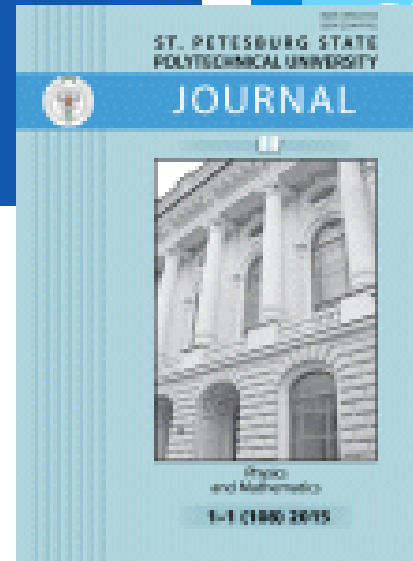
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- Silicon
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- Mitochondrial DNA
- Ethnic group
- Phylogeny

# Planar Graph, Graph Theory

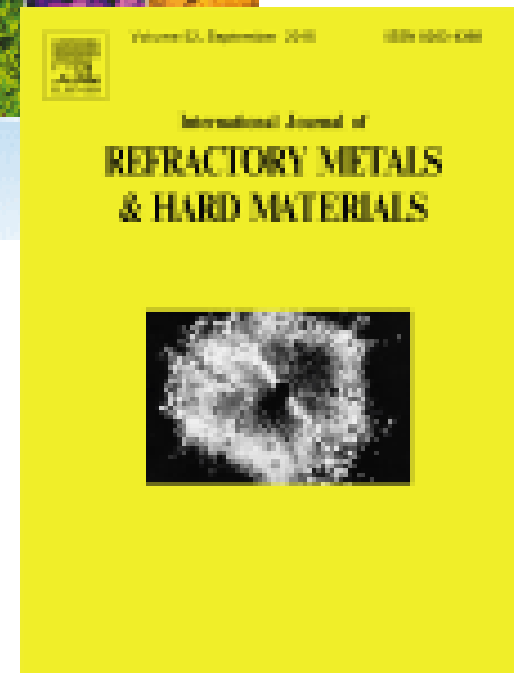


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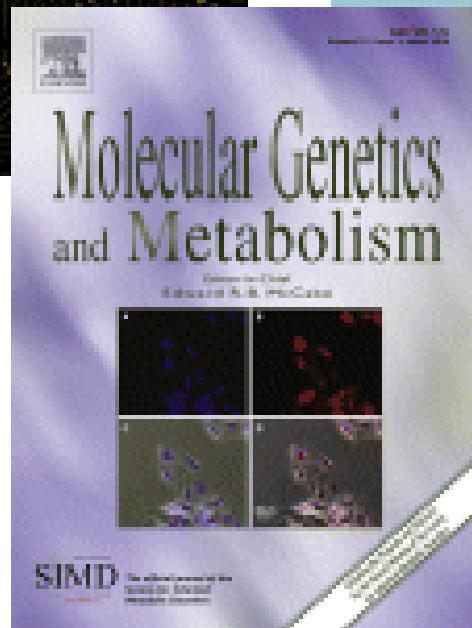
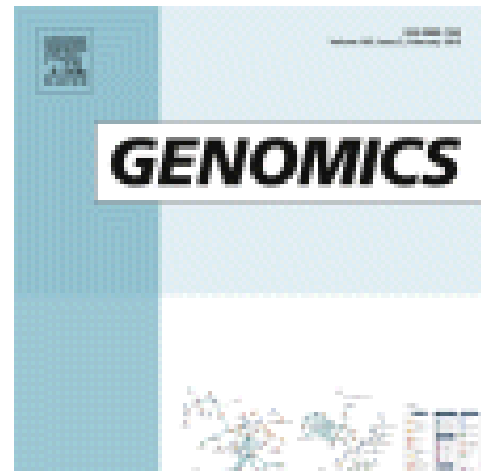
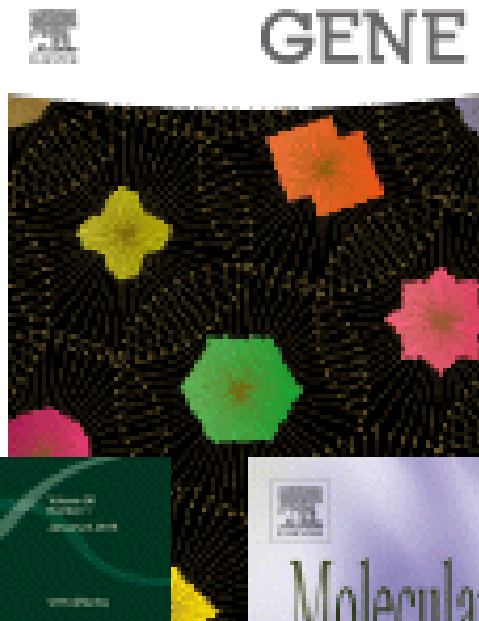
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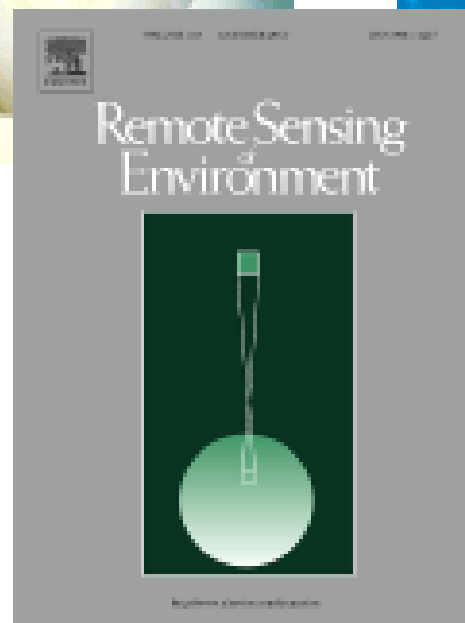
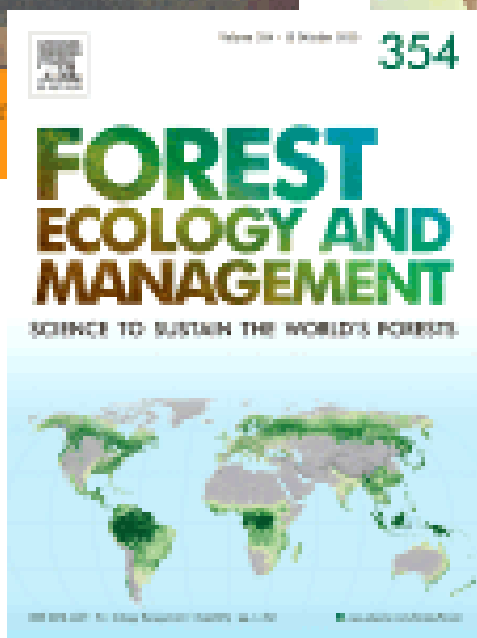
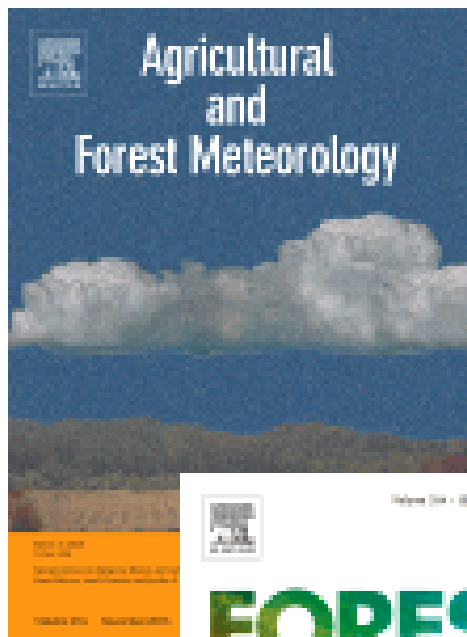
# Wear resistance, Friction, Silicon, Tribology



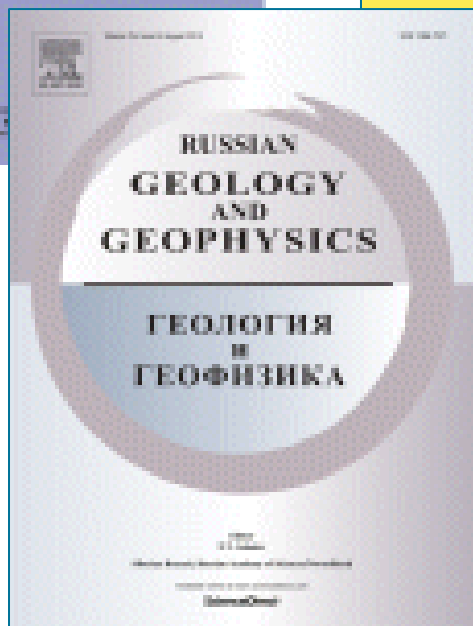
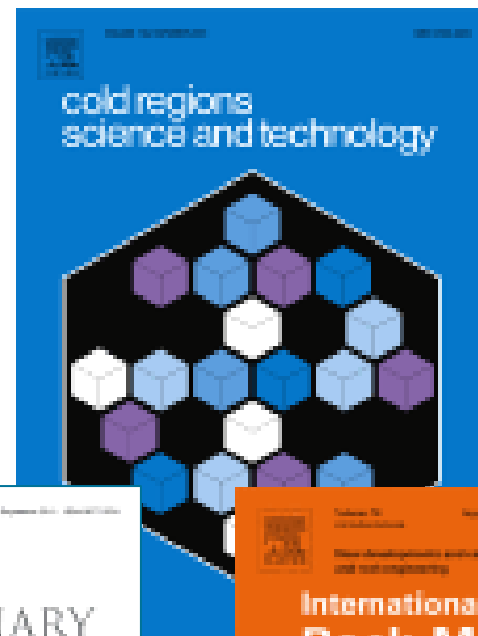
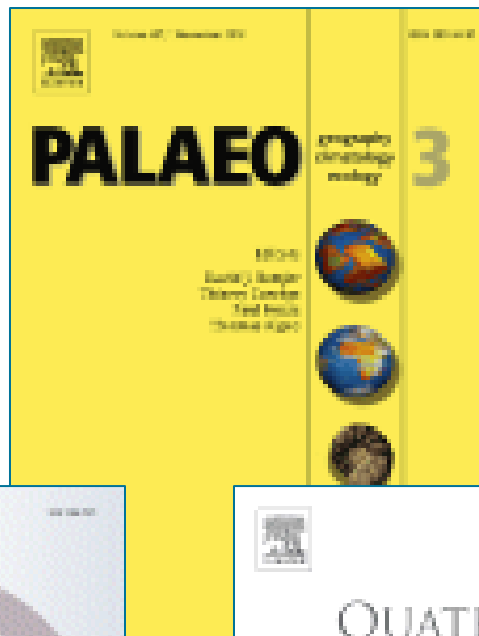
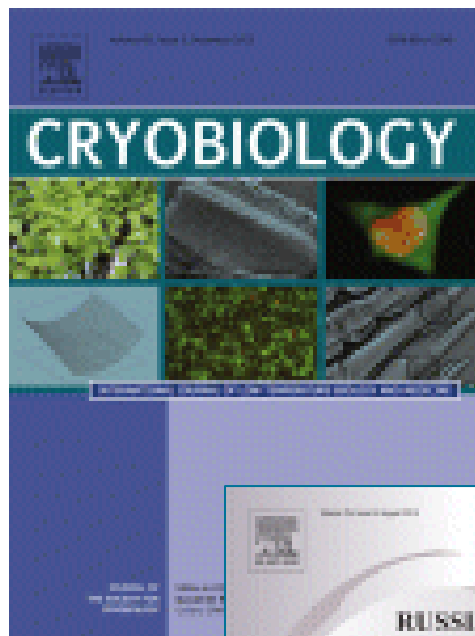
# Haplotype, Mitochondrial DNA, Ethnic group, Phylogeny



# Boreal Forest, Siberia

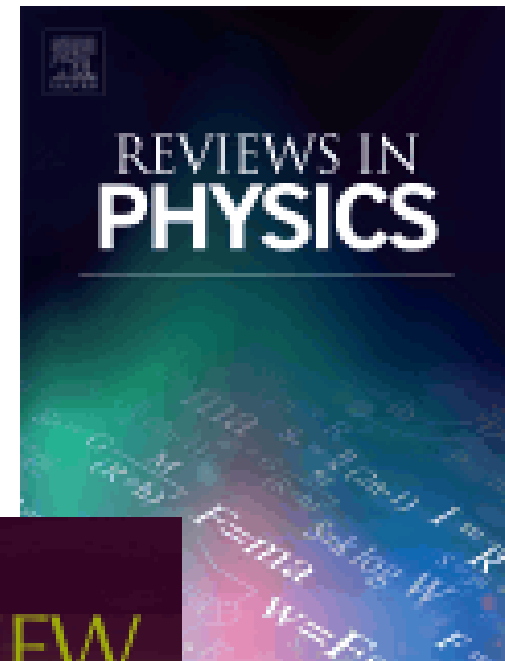
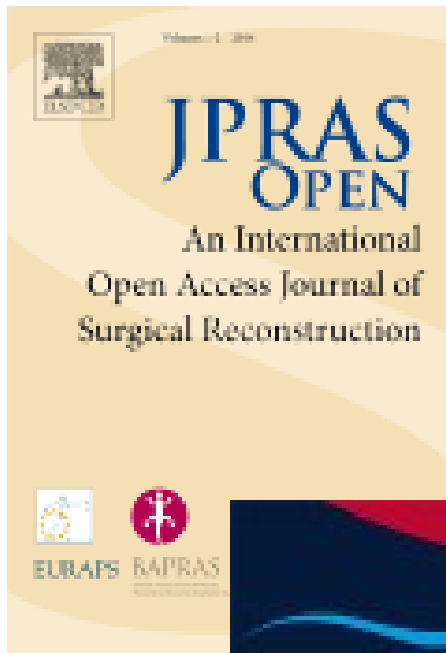


# Permafrost, Sakha

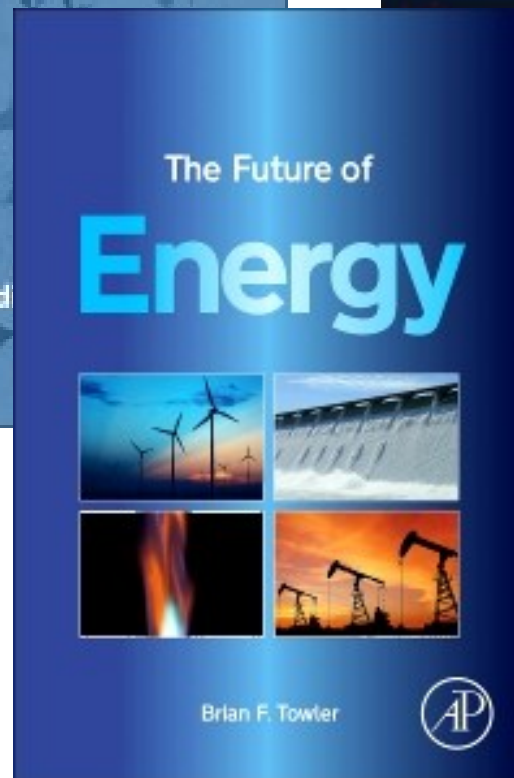
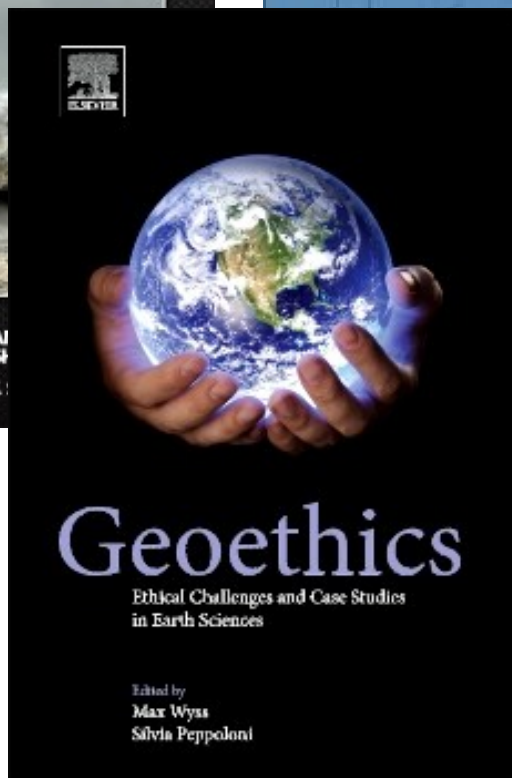
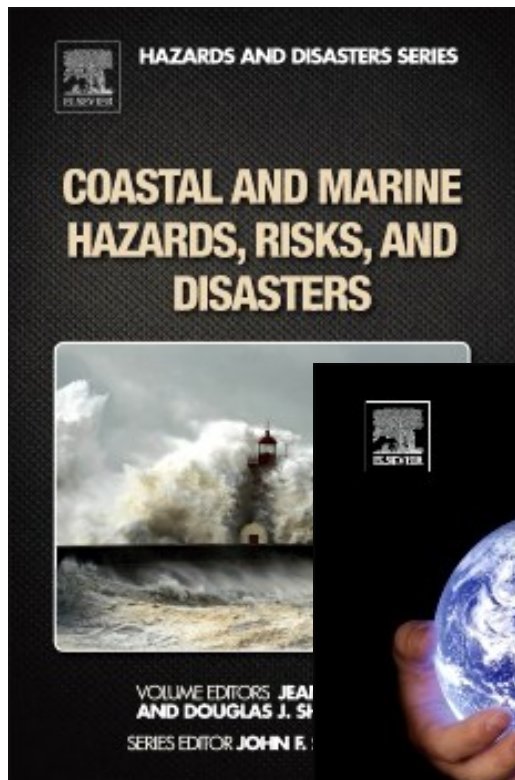




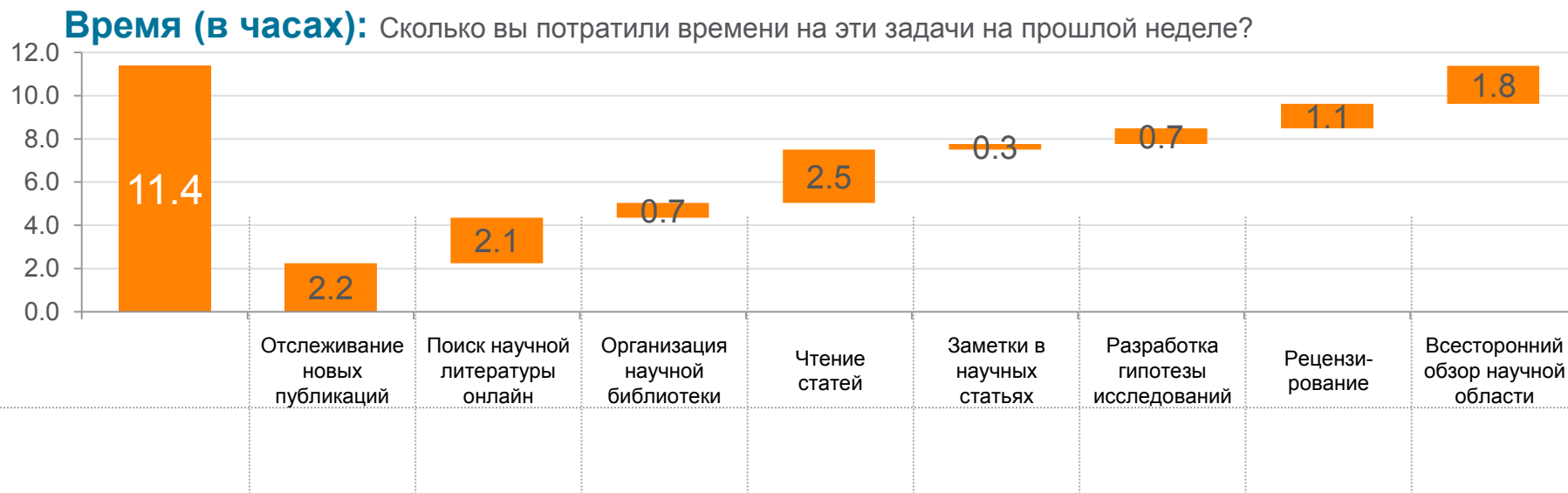
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1. Чтение

2. Отслеживание новых публикаций

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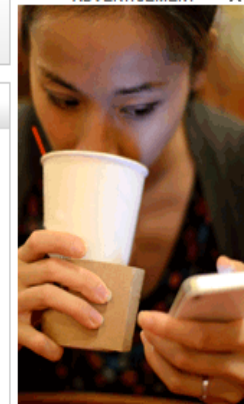
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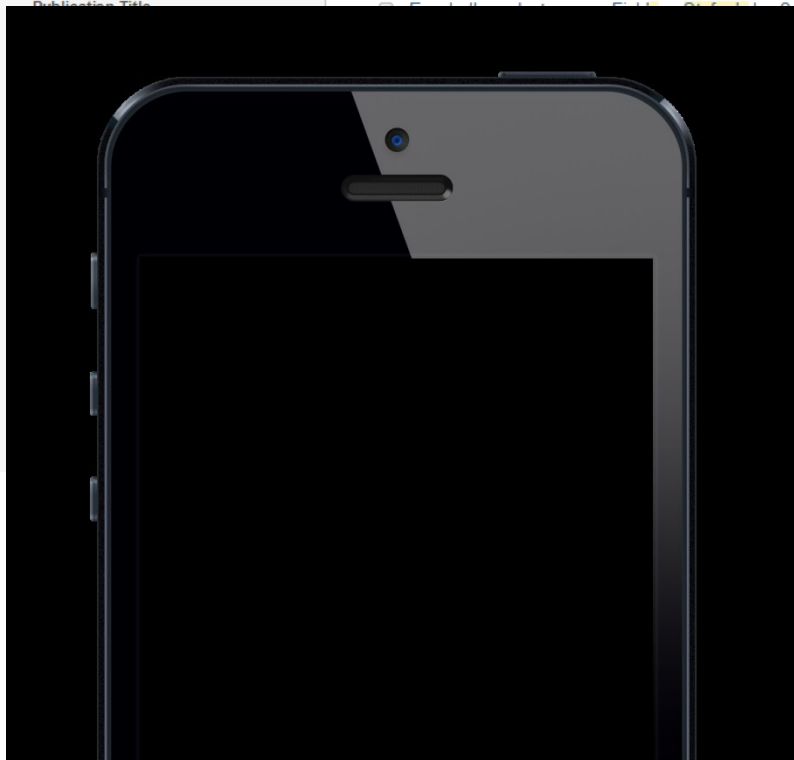
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Discover this journal's metrics

Impact

Authors

Speed



# Рейтинги журналов SJR и SNIP

## Source-Normalized Impact per Paper – SNIP

• Разработчик: Henk Moed, CWTS



- **Контекстуальный импакт цитирования (Contextual citation impact):**
  - выравнивает различия в вероятности цитирования
  - выравнивает различия в предметных областях



## SCImago Journal Rank – SJR

• Разработчик: SCImago – Felix de Moya

- **Метрика престижа (Prestige metrics)**

Цитирование имеет вес в зависимости от престижа научного источника

## Сравнительные характеристики SJR, SNIP, JIF

| Аспект                                     | SJR  | SNIP   | JIF                               |
|--|--|--|-----------------------------------|
| Публикационное окно                        | 3 года   | 3 года   | 2 года или 5 лет                  |
| Отношение к самоцитированию журнала        | Не более 33% от общего числа                                 | Не имеет значения  | Не имеет значения                 |
| Нормализация по предметной области         | Да   | Да   | Нет                               |
| Тип документов, используемых в числителе   | Только реферируемые, статьи, обзоры, доклады на конференциях | Только реферируемые, статьи, обзоры, доклады на конференциях | Все документы                     |
| Тип документов, используемых в знаменателе | Только реферируемые: статьи, обзоры, труды конференций       | Только реферируемые: статьи, обзоры, труды конференций       | Статьи, обзоры, труды конференций |
| Статус цитируемого источника               | Вес цитаты на основе престижа журнала                        | Не имеет значения  | Не имеет значения                 |
| Источник данных                            | Scopus   | Scopus   | JCR (WoS)                         |

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- Более 40 членов
- Включает ученых, библиотекарей, научных редакторов, специалистов по библиометрии
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- Submission declaration and verification
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- Changes to authorship

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- Formatting requirements

#### • REVISED SUBMISSIONS

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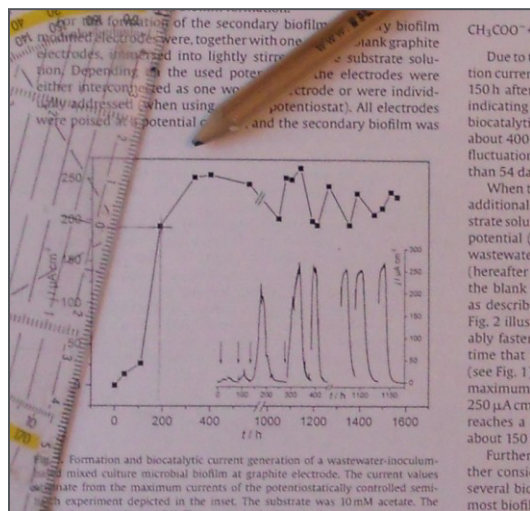
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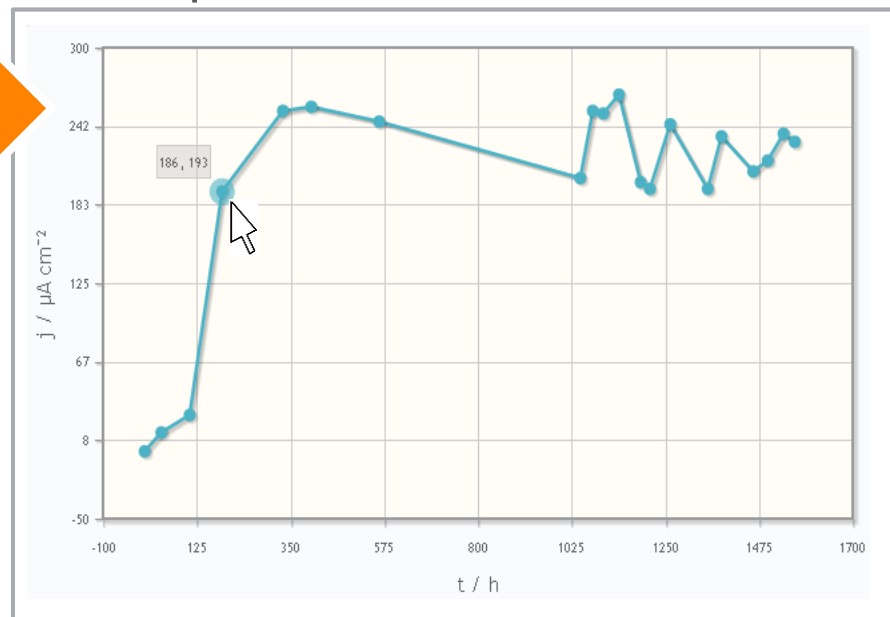
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## Digital Applications in Archaeology and Cultural Heritage

Volume 1, Issue 1, 2014, Pages 3–11



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

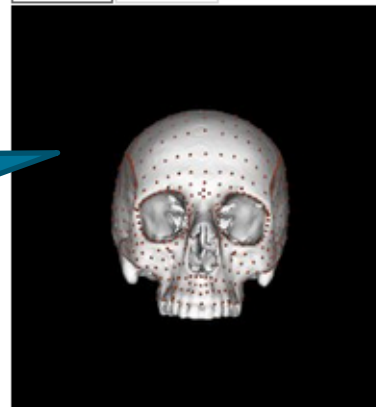
*Archaeology and biological anthropology* share research interests and numerous methods for field work. Both profit from collaborative work and diffusion of know-how. The last two decades have seen a technical revolution in biological anthropology: *Virtual Anthropology (VA)*. It exploits digital technologies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

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# Виртуальный микроскоп



Oral and maxillofacial pathology

## Oral hairy leukoplakia in patients without HIV: presentation of 2 new cases

Слайды с высоким разрешением (увеличение до 40 раз) загружаются практически мгновенно

We report 2 cases of oral hairy leukoplakia (OHL) in patients without HIV and present a comprehensive review of OHL in HIV-negative individuals.

### Study Design

Two cases of non-HIV-associated OHL are described. A PubMed search identified previously reported cases. The attributes of those cases were ascertained.

### Results

OHL was confirmed in both of our cases. Both patients used inhaled steroids for pulmonary disorders, and were identified in the literature, with the majority of cases reported most frequently.

patients without HIV



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# Интерактивные графики



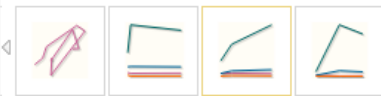
- Achieving smaller particle size during precipitation and aging is critical to obtain high performance catalysts.
- Higher reduction temperatures (of larger CuO crystallites) promote sintering of Cu crystallites.

## Abstract

Binary Cu/ZnO methanol synthesis catalysts were prepared by the co-precipitation of copper and zinc at different initial solution concentrations, stirring rates and aging times and different calcination temperatures of the precipitated catalyst precursors), fresh catalyst and were characterized at desorption isotherm, X-ray diffraction (XRD), temperature desorption and particle size distributions measurement techniques. The synthesis activity in fixed-bed reactor under conditions similar to that of industrial process (10 bar and GHSV of  $17,250 \text{ h}^{-1}$ ), using of  $\text{H}_2$ ,  $\text{CO}$ , and  $\text{CO}_2$  (80/12/8 mol ratio) mixture as the feed. During aging of the precursor, a sharp pH drop along with color change (from blue to green) was observed after certain aging time. Further, the particle size of precursors showed a decrease after color change. The time of this change was strongly dependent on the aging temperature and decreased by increasing aging temperature. At  $40^\circ\text{C}$  aging temperature, the catalyst activity increased with aging time but the resulting catalyst exhibited poor performance because the color change did not occur even after 65 h of aging of the mother liquor. At  $80^\circ\text{C}$  aging temperature, a color change took place rapidly after about 0.5–0.75 h of aging, and the catalyst activity increased with aging time followed by a decrease upon further aging. At a constant aging time of 5 h, the catalyst activity increased with temperature in the range of  $40$ – $60^\circ\text{C}$  and then decreased when temperature rose further from  $60$ – $80^\circ\text{C}$ . The maximum catalyst activity ( $555 \text{ g}_{\text{MeOH}}/\text{kg}_{\text{cat}} \text{ h}$ ) was observed for the catalyst prepared and aged at  $60^\circ\text{C}$ . This was attributed to the small CuO resulting catalyst.

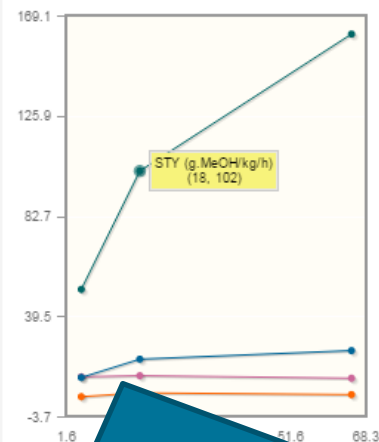
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Plot

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 **Chemical Engineering Research and Design**  
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**Improved rate-based modeling of the process of CO<sub>2</sub> capture with PZ solution**  
Stefania Moioli  , Laura A. Pellegrini 

Show more  
doi:10.1016/j.cherd.2014.03.022

**Highlights**

- A rate-based model is proposed for the process of CO<sub>2</sub> 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.

**Abstract**  
In recent years the interest in the development of CO<sub>2</sub> capture technology has increased due to global

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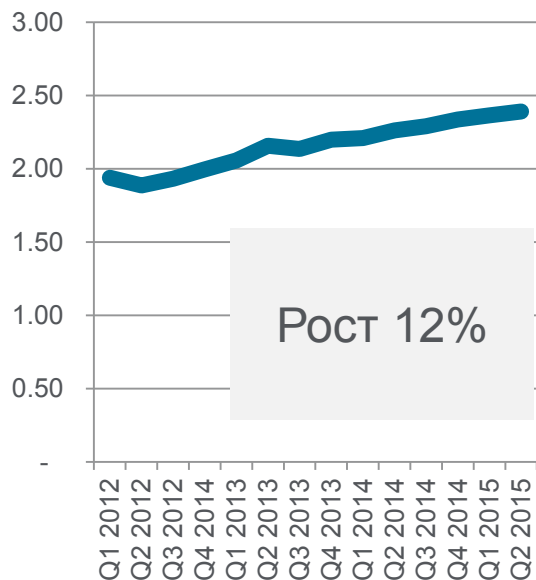
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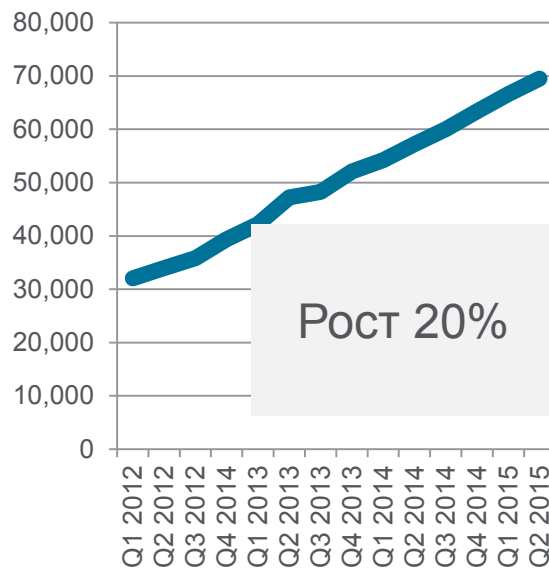
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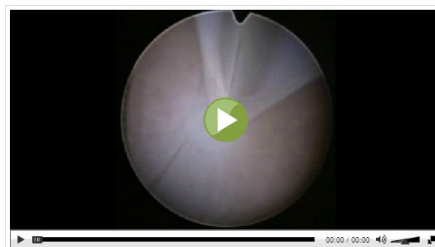
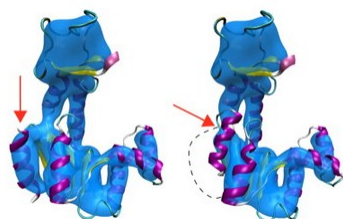
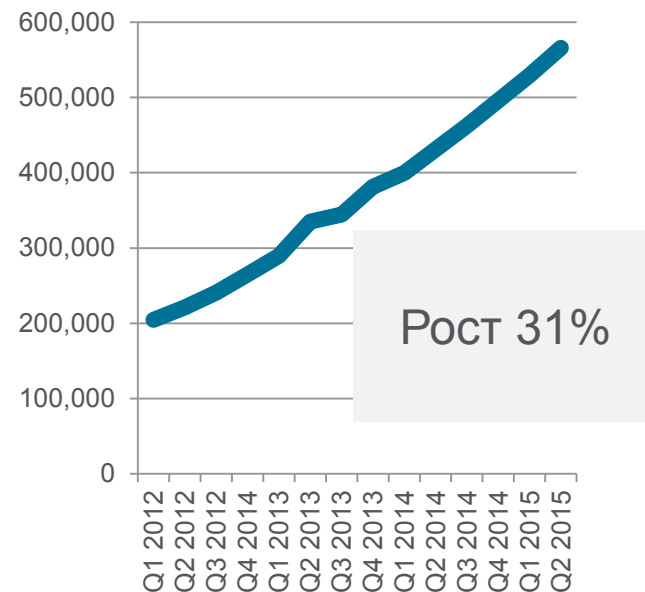
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Carbon isotope fractionation during high pressure and high temperature crystallization of

Original Research Article

*Earth and Planetary Science Letters*, Volume 406, 16 June 2015, Pages 18-24

Yutsky, Yu.M. Borzdov, Yu.N. Palyanov

[Abstract](#) | [Close research highlights](#) | PDF (1070 K)

### Highlights

- Crystallization of Fe-C melt at high pressure and high temperature accompanied by carbon isotope fractionation
- Fe<sub>3</sub>C is 2‰ heavier in C isotopes than its parent Fe-C melt at 6.3 GPa and 1400 °C
- Diamond works as a trap for <sup>13</sup>C isotope in Fe-C system
- Peritectic reaction of diamond with liquid provides increase of δ<sup>13</sup>C in the melt
- MORB and OIB mantle source should be distinct in carbon isotope signature

Technical aspects of applying high frequency densitometry: Probe-sample contact, sample surface preparation and integration width of different dielectric probes

*Dendrochronologia*, Volume 34, 2015, Pages 10-18

Marc Wassenberg, Martin Schinker, Heinrich Spiecker

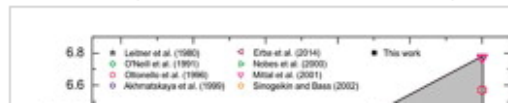
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Diamond–garnet geobarometry: The role of garnet compressibility and expansivity Original Research Article

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S. Milani, F. Nestola, M. Alvaro, D. Pasqual, M.L. Mazzucchelli, M.C. Domeneghetti, C.A. Geiger

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1. Introduction
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3. Test methodology
4. Results and discussion
5. Conclusions

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Glossary

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**Figures and tables**

Table 1


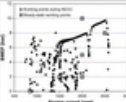







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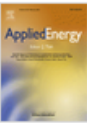








## Applied Energy

Volume 102, February 2013, Pages 13–23

Special Issue on Advances in sustainable biofuel production and use - XIX International Symposium on Alcohol Fuels - ISAF



### Application of bioethanol/RME/diesel blend in a Euro5 automotive diesel engine: Potentiality of closed loop combustion control technology

Chiara Guido<sup>a,\*</sup>, Carlo Beatrice<sup>a</sup>, Pierpaolo Napolitano<sup>a,b</sup>

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DOI: 10.1016/j.apenergy.2013.01.020

**Abstract**

... require the use of biofuels by at least 10% as energy source in transport by means of the use of different renewable fuels; bioethanol (BE) is one production cost and availability. BE usually replaces gasoline in petrol low concentrations to feed diesel engines.

... experimental activity aimed to study the impact of a BE/biodiesel/mineral emissions in a last generation automotive diesel engine are presented.

... state in eight partial load engine conditions and at 2500 rpm in full load.

Two fuel blends have been compared: the Rapeseed Methyl Ester (RME)/diesel with 10% of biodiesel by volume (B10), and the BE/RME/diesel with 20% of BE and 10% of biodiesel by volume (E20B10).

The experimental campaign was carried out on a 2.0 L diesel engine compliant with Euro5 regulation. The engine features the closed loop combustion control system for the injection phasing and the Electronic Control Unit (ECU) for the real-time control of the engine with the

▼ This article belongs to a special issue

**Special Issue on Advances in sustainable biofuel production and use - XIX International Symposium on Alcohol Fuels - ISAF**

Edited By Jinyue Yan, Gunnar Lidén and David Chiaramonti

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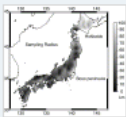
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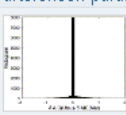


3.2. Definition of background seismicity rate

[3.3. Detection of anomalous background seismicity](#)

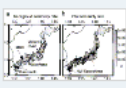
[3.4. Monte Carlo simulation](#)

[3.5. Susceptibility of the result to aftershock parameters](#)

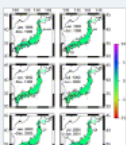


4. Results

4.1. Annual background seismicity rate of 5.5 recent years



4.2. Detected quiescence and activation anomalies



Some cases a positive value for activation anomalies and a negative value for quiescent anomalies. The absolute magnitude of SAIC represents statistical significance because it is the difference of AICs between two models. If the AIC of the first model is smaller, the anomaly is not significant and SAIC is set as zero by the boxcar function in the equation.

While the number of background events was not determined in any stages of our analysis, the expectation of the number of background events could be estimated because we estimated the probability that a certain event was a background event. By plotting the cumulative expected number of events versus time, we could visualize the temporal rate change within a window period. This is similar to a generalization of the cumulative number plot of independent events obtained by the de-clustering algorithm that separates events. The probability that a certain event was a background event was estimated by maximizing the likelihood with the application of the EM algorithm (Dempster et al., 1977) to the ETAS model, as described in Appendix A.

3.4. Monte Carlo simulation

We conducted a Monte Carlo experiment to compare the observed distribution of AIC to that from an ideally constant background seismicity model, to find out whether the observed background seismicity was almost regular or not. First, we simulated an earthquake using the extended ETAS model shown above.

The simulation was conducted in a circular area with a radius twice that of the sampling area. We did not simulate earthquakes over all the Japanese islands at once because doing so would require too much computational time. However, we carefully considered the effect from the limited size of the area. The radius had to be greater than the sampling radius because we needed to estimate the effect of earthquakes around a hypocenter and an origin time of a simulated event were considered in Ogata (1998). His algorithm simulates earthquakes in a circular area with a radius twice that of the sampling area. We did not simulate earthquakes over all the Japanese islands at once because doing so would require too much computational time. However, we carefully considered the effect from the limited size of the area. The radius had to be greater than the sampling radius because we needed to estimate the effect of earthquakes around a hypocenter and an origin time of a simulated event were considered in Ogata (1998). His algorithm simulates earthquakes in a circular area with a radius twice that of the sampling area.

The set of parameters  $\mu$ ,  $K$ ,  $c$  and  $b$  value of Gutenberg and Richter's magnitude frequency distribution were randomly selected from a set of parameters estimated in all the cases (all study areas and all models with constant or varying rate of background seismicity) with the observed catalog. The  $b$  value was not required in the background seismicity analysis, but it was necessary to produce the synthetic catalog and was determined by the maximum likelihood estimate (MLE) of the observed catalog. In our analysis, we assumed aftershock parameters as  $a = 1$  and  $p = 1.1$ , and therefore may have biased the analysis of background activity. As an alternative set of parameters, we also adopted parameters proposed by Utsu (1969) to represent aftershocks of Japan ( $a = 0.85$  and  $p = 1.3$ ) and re-analyzed the observed seismic activity. As a result, we concluded that the choice of the aftershock parameters was unimportant as

3.5. Susceptibility of the result to aftershock parameters

In our analysis, we assumed aftershock parameters as  $a = 1$  and  $p = 1.1$ , and therefore may have biased the analysis of background activity. As an alternative set of parameters, we also adopted parameters proposed by Utsu (1969) to represent aftershocks of Japan ( $a = 0.85$  and  $p = 1.3$ ) and re-analyzed the observed seismic activity. As a result, we concluded that the choice of the aftershock parameters was unimportant as

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Y. Ogata

**Space-time point-process model for earthquake occurrence**

Ann. Inst. Stat. Math., 50 (2) (1998), pp. 379–402

Abstract

Several space-time statistical models are constructed based on both classical empirical studies of clustering and some more speculative hypotheses. Then we discuss the discrimination between models incorporating contrasting assumptions concerning the form of the space-time clusters. We also examine further practical extensions of the model to situations where the background seismicity is spatially non-homogeneous, and the clusters are non-isotropic. The goodness-of-fit of the models, as measured by AIC values, is discussed for two high quality data sets, in different tectonic regions. AIC also allows the details of the clustering structure in space to be clarified. A simulation algorithm for the models is provided, and used to confirm the numerical accuracy of the likelihood calculations. The simulated data sets show the similar spatial distributions to the real ones, but differ from them in some features of space-time clustering. These differences may provide useful indicators of directions for further study.

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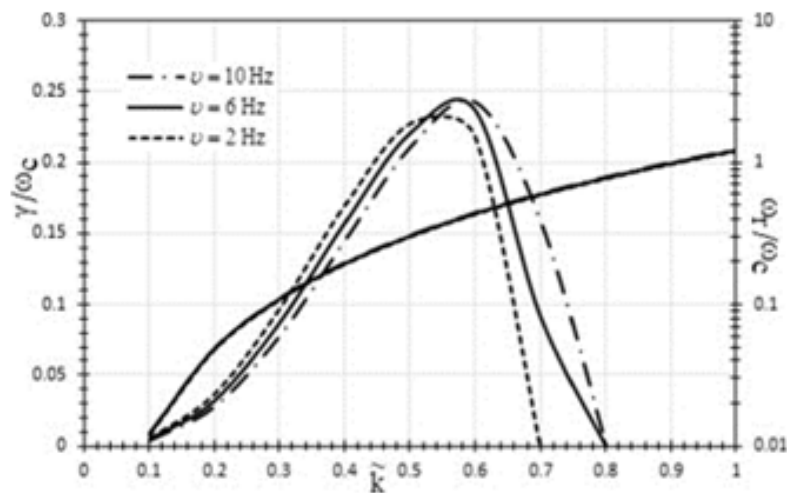


Fig. 3 Variation of growth rate and real frequency with respect to for various values of AC frequency

R.S. Pandey , Rajbir Kaur

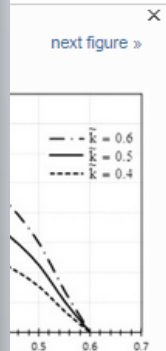
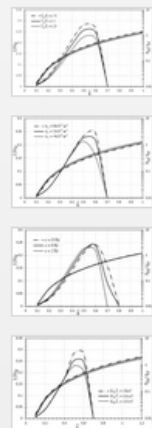
**Theoretical study of electromagnetic electron cyclotron waves in the presence of AC field in Uranian magnetosphere**  
 New Astronomy, Volume 40, 2015, 41 - 48

<http://dx.doi.org/10.1016/j.newast.2015.04.001>

Article outline

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- Keywords
- 1. Introduction
- 2. Mathematical formul
- 3. Results and discuss
- 4. Conclusion
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Figures and tables



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Fig. 5. HC (on the left) and CO (on the right) emissions, in all test points, for B10 and E20B10 blends.

Fig. 6. Cylinder pressure and energizing current (on the left), rate of heat release and heat release (on the right), for B10 and E20B10, at 1500 rpm and 2 bar of BMEP.

4.2. Indicated curves analysis

In this second part of the paragraph the evolution of in-cylinder pressure and of heat release versus crank angle (c.a.) are analyzed. For brevity, only some test points are reported; in particular Figs. 6 and 7 refer respectively to 1500 × 2 and 2000 × 2, chosen to analyze by

the fuelling rate (increment of the main injection fuel quantity) to obtain the same Indicated Mean Effective Pressure (IMEP) and the same torque level of the reference blend. The authors want to stress that the variation of the injection timing and of the injected fuel quantity are automatically actuated by the CLCC system and are not the results of a manual setting of calibration. For other details on the CLCC benefits burning alternative fuel or blends, refer to [20].

In the right diagrams of Figs. 6 and 7 the rate of heat release (ROHR) and the heat release (HR) curves are reported. In both test points it is evident a reduced effect of pilot injection combustion for E20B10. Various factors are behind this behavior: the first one is the low cetane number of the E20B10 blend, of course, that delays the pilot ignition timing. This effect, in turns, requires an earlier injection timing (see energizing current traces), promoting the fuel overmixing of the pilot injection. As a consequence, a lower combustion efficiency of the pilot injection occurs. Additionally, the CLCC system is designed to correct only the fuel quantity of

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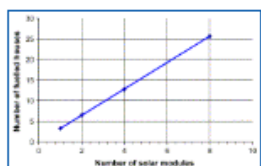
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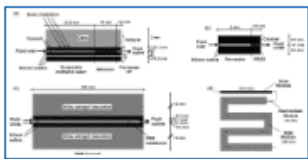
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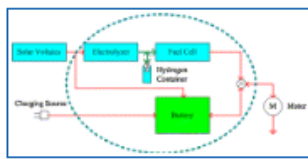
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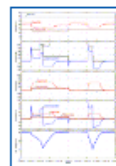
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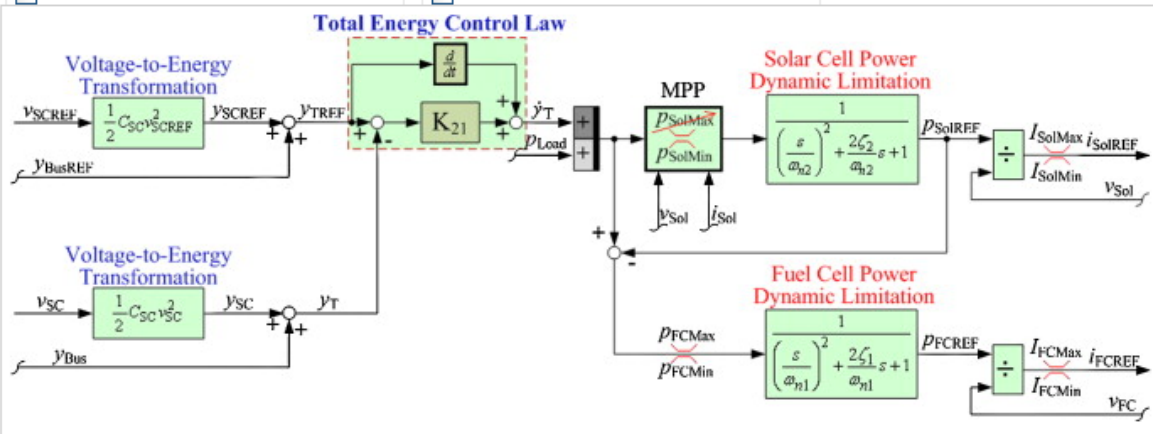
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**Total Energy Control Law**

The diagram shows a control system for a hybrid energy system. It includes two 'Voltage-to-Energy Transformation' blocks. The top block takes  $v_{SCREF}$  and  $v_{BusREF}$  as input and outputs  $y_{SCREF}$ . The bottom block takes  $v_{SC}$  and  $v_{Bus}$  as input and outputs  $y_{SC}$ . Both  $y_{SCREF}$  and  $y_{SC}$  are summed to produce  $y_{TREF}$ . This signal  $y_{TREF}$  is fed into a block labeled 'Total Energy Control Law' which contains a derivative operator  $\frac{d}{dt}$  and a gain  $K_{21}$ . The output of this block is summed with  $y_{SC}$  to produce  $y_T$ . This signal  $y_T$  is then fed into an 'MPP' (Maximum Power Point) block, which also receives  $v_{Sol}$  and  $i_{Sol}$  as inputs. The MPP block outputs  $p_{SolMax}$  and  $p_{SolMin}$ . These are used to calculate 'Solar Cell Power Dynamic Limitation' and 'Fuel Cell Power Dynamic Limitation'. The solar cell limitation block has a transfer function  $\frac{1}{(\frac{s}{\omega_{h2}})^2 + \frac{2\zeta_2}{\omega_{h2}}s + 1}$  and outputs  $p_{SolREF}$ . The fuel cell limitation block has a transfer function  $\frac{1}{(\frac{s}{\omega_{h1}})^2 + \frac{2\zeta_1}{\omega_{h1}}s + 1}$  and outputs  $p_{FCREF}$ . Both  $p_{SolREF}$  and  $p_{FCREF}$  are summed to produce the final output  $p_{Load}$ .

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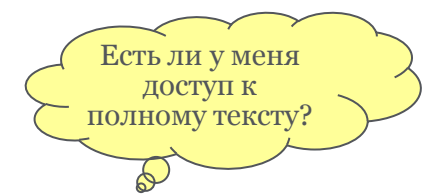
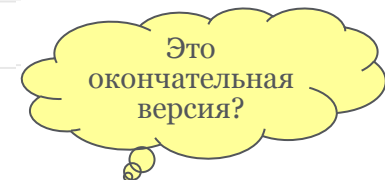
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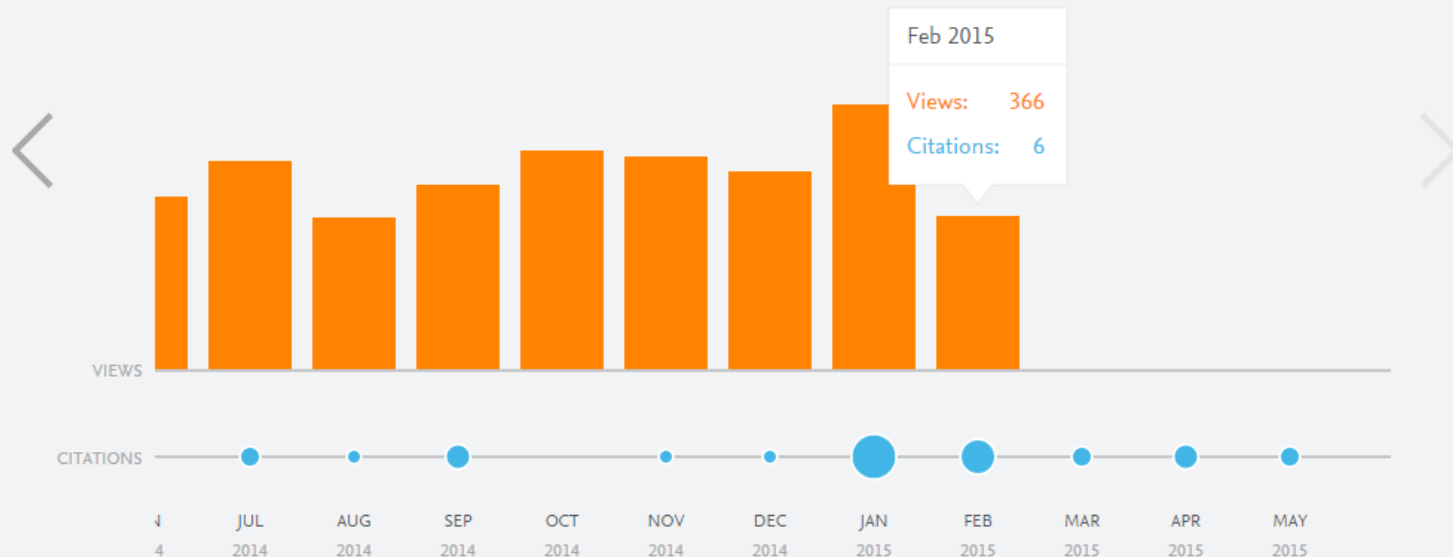


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