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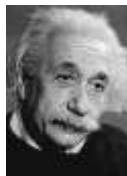
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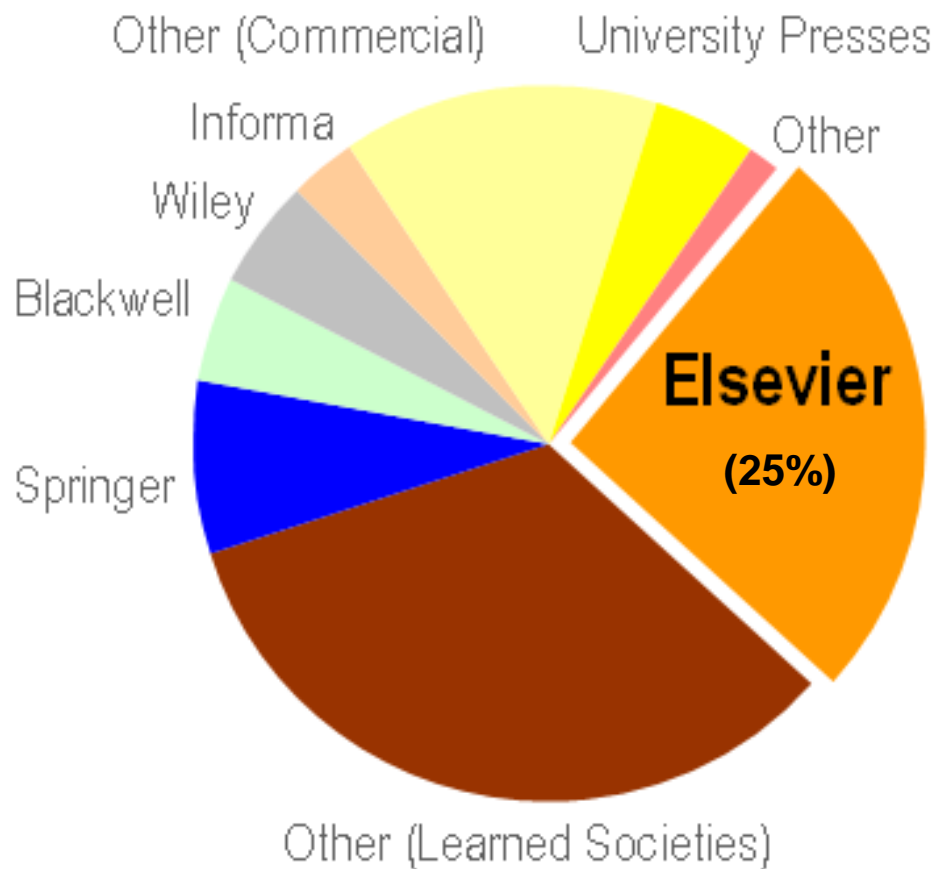
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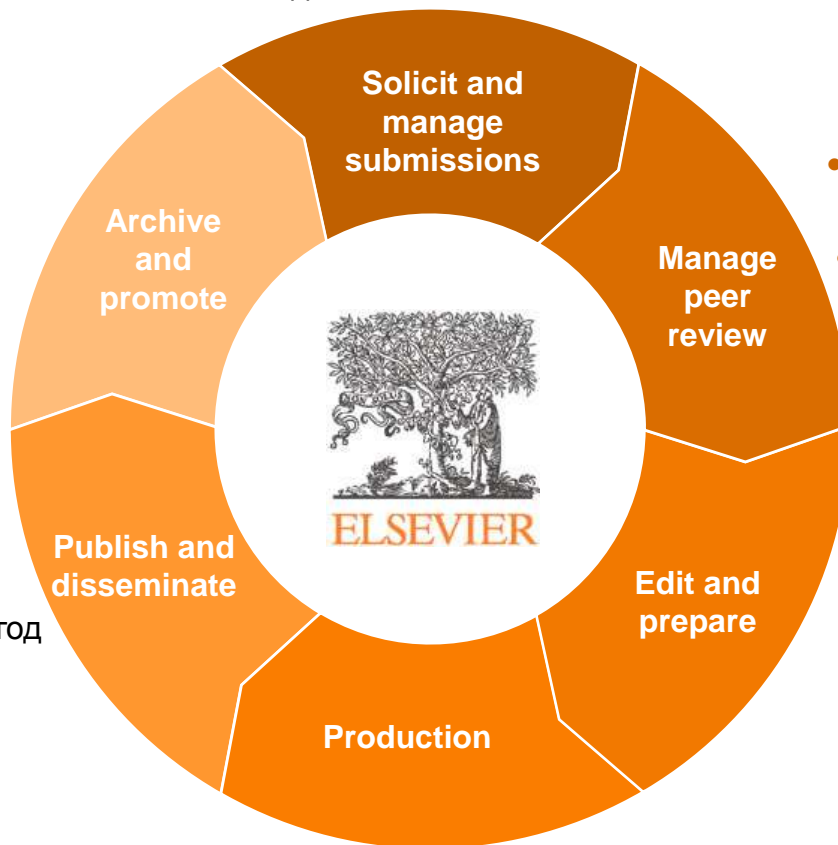
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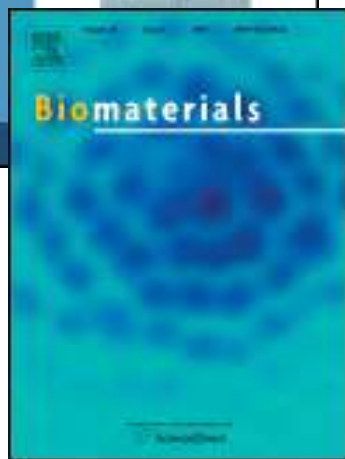
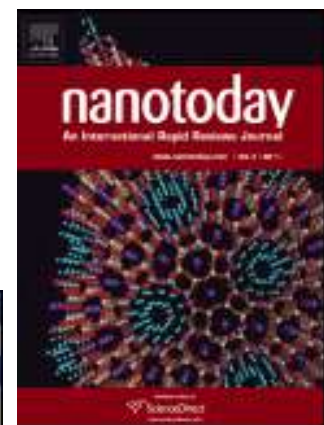
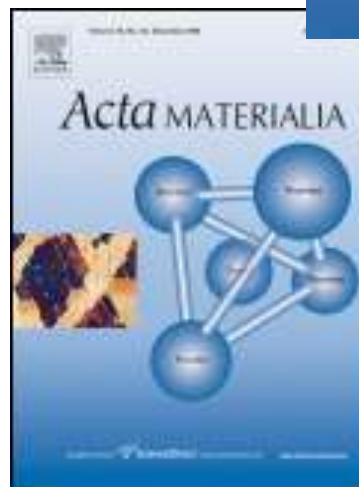
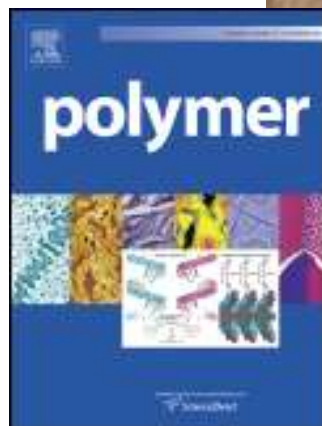
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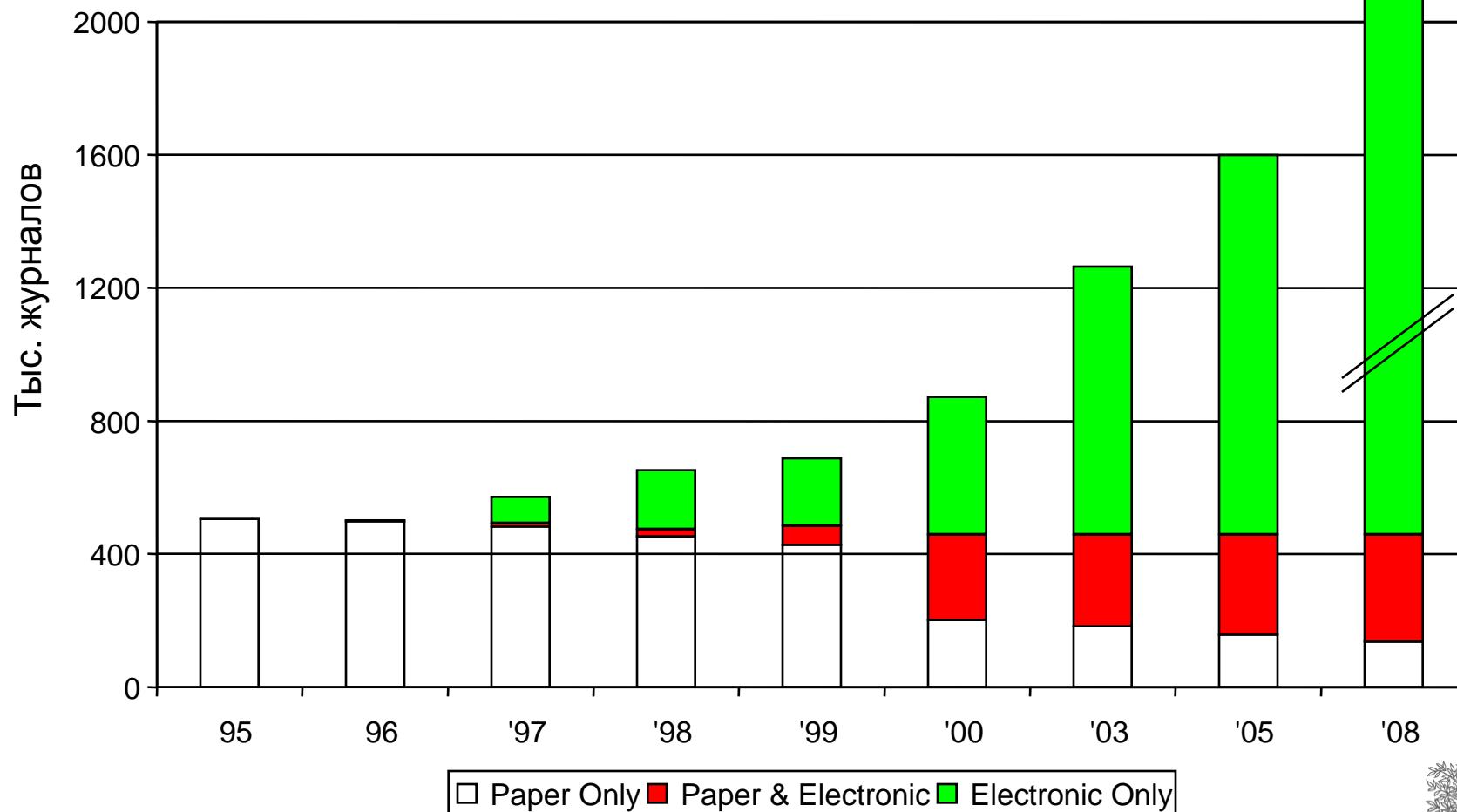
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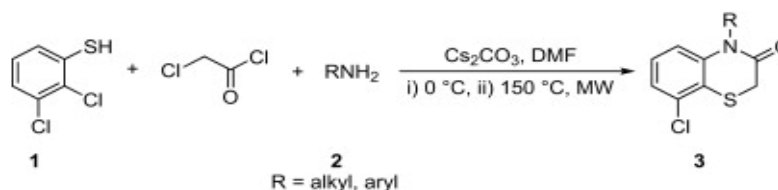
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Stephen P. Muench<sup>1</sup>, Markus Huss<sup>3</sup>, Chun Feng Song<sup>2</sup>, Clair Phillips<sup>1</sup>, Helmut Wieczorek<sup>3</sup>, John Trinick<sup>2</sup> and Michael A. Harrison<sup>1</sup>  

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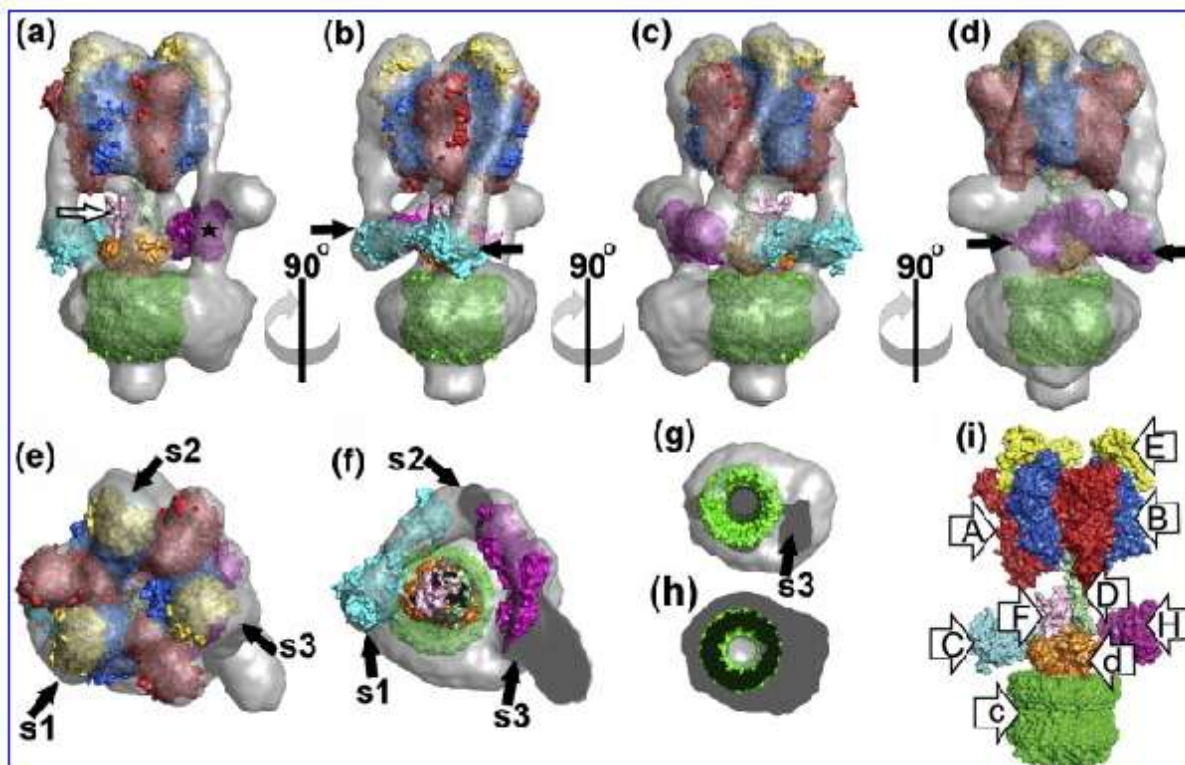
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makes minimal contact with V<sub>1</sub>. Several subunit crystal structures can be fit accurately into the reconstruction.

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## Microwave-assisted one-pot synthesis of benzo[b][1,4]thiazin-3(4H)-ones via Smiles rearrangement

Hua Zuo<sup>a,c</sup>, Zhu-Bo Li<sup>a</sup>, Fang-Kui Ren<sup>a</sup>, J.R. Falck<sup>b</sup>, Meng Lijuan<sup>c</sup>, Chuljin Ahn<sup>c</sup>, Dong-Soo Shin<sup>c,\*</sup>

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One-pot

### ABSTRACT

The synthesis of benzo[b][1,4]thiazin-3(4H)-one derivatives in a simple and efficient method from the one-pot reaction of substituted 2-chlorobenzenethiols, chloroacetyl chloride, and primary amines via Smiles rearrangement under microwave irradiation gave high yields (65–92%) of the products with short reaction time (15–20 min).

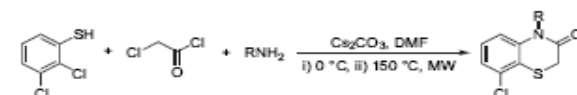
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### 1. Introduction

For heterocycles containing sulfur moieties, benzo[b][1,4]thiazin-3(4H)-one derivatives<sup>1</sup> scaffold are classified as privileged structures due to the large number of biologically active molecules and natural products containing this moiety.<sup>1–13</sup>

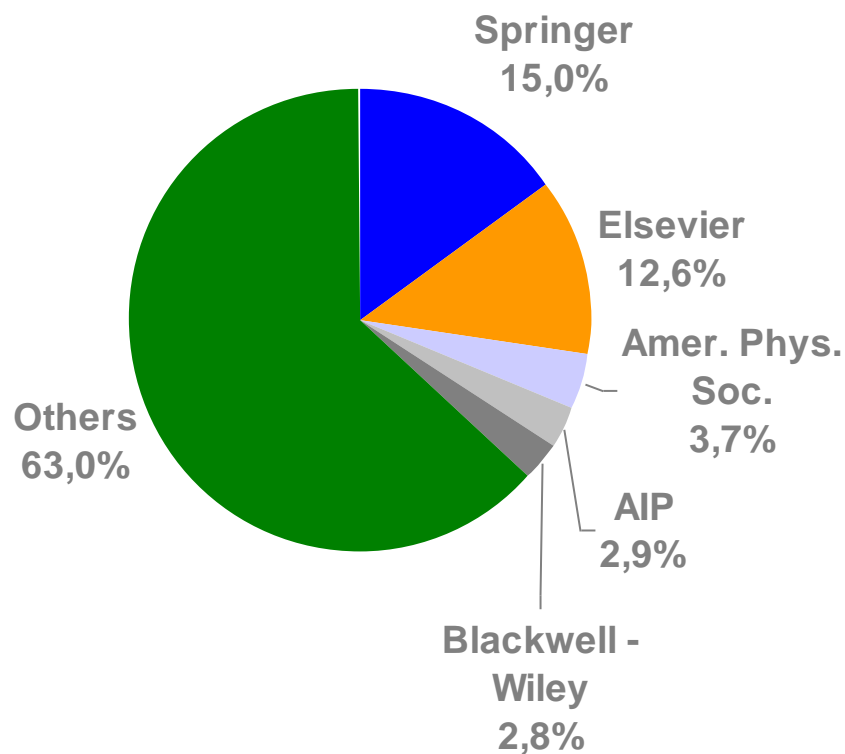
To date, the benzo[b][1,4]thiazin-3(4H)-one scaffold has been generated by several methods involving: (i) direct cyclization from 2-aminobenzenethiol by reacting with halo acetyl halide;<sup>14</sup> (ii) starting from halonitrophenol followed by substitution of halo atom by thiol acetates and then reduction to form ring system;<sup>10,15</sup> (iii) treatment of 2-chloroaniline with sodium sulfide, followed by the reaction with chloroacetic acid for cyclization.<sup>7,8</sup> However, the limited kinds of 2-aminobenzenethiol, halonitrophenol, and 2-chloroaniline hindered the structural diversity of benzo[b][1,4]-

ongoing studies on the development of new routes for the preparation of biologically active heterocyclic compounds,<sup>17</sup> we herein used substituted 2-chlorobenzenethiol **1**, chloroacetyl chloride, and primary amine **2** under microwave (MW) irradiation to synthesize benzo[b][1,4]thiazin-3(4H)-ones via Smiles rearrangement as one-pot reaction (Scheme 1). This method afforded an easy and efficient way to prepare benzo[b][1,4]thiazin-3(4H)-ones and permitted us to introduce great molecular diversity, including substitution diversity and skeleton diversity of benzo[b][1,4]thiazin-3(4H)-ones.



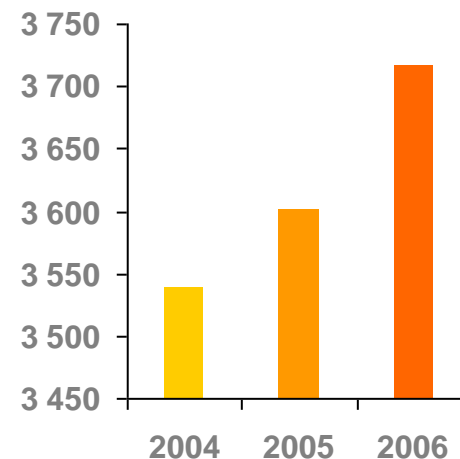
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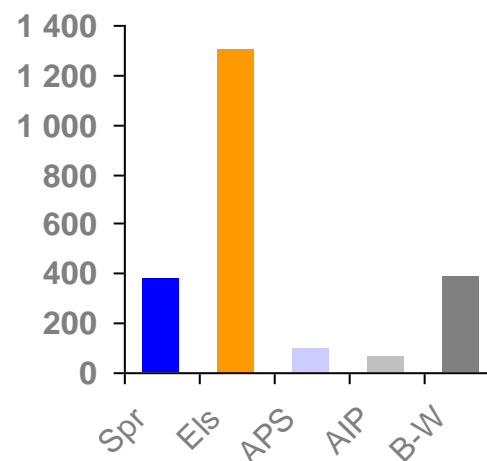


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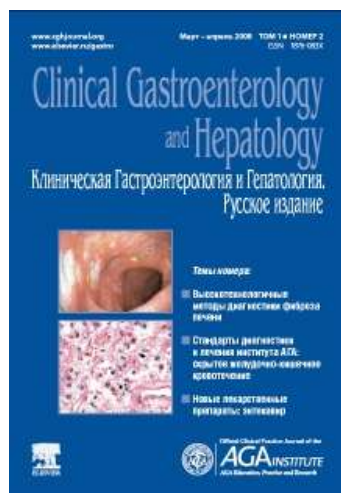
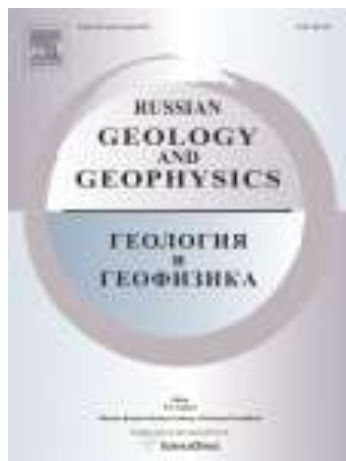
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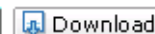
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**Help** [View at Publisher](#)[Full Text](#)[Library Catalogue](#)[Order Document](#)**Stereoselective free radical cycloaddition  
synthesis of trans-cyclohexano-fused**

[Troyansky, E.I.](#)<sup>a</sup> , [Ismagilov, R.F.](#)<sup>a</sup> , [Samoshin, V.V.](#)<sup>b</sup> ,  
[Lindeman, S.V.](#)<sup>c</sup> , [Khrustalyov, V.N.](#)<sup>c</sup> , [Struchkov, Y.](#)

<sup>a</sup> N.D. Zehnsky Institute of Organic Chemistry, Russian Academy of Sciences<sup>b</sup> M.V. Lomonosov Moscow State Academy of Fine Chemical Technology<sup>c</sup> A.N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, Russian Federation**Abstract**

Homolytic cycloaddition of dithiols 1,2 derived from trans-1-propanedithiol by  $\text{Pr}_3\text{B}-\text{O}_2$ , offers an extremely simple approach to the synthesis of thialactones 4a-c-7a-c. The reaction of trans-1-propanedithiol to give predominantly (1S\*, 6R\*, 12S\*)-4a-c, while mechanistic calculations the stereoselectivity is rationalized by macrocyclization.

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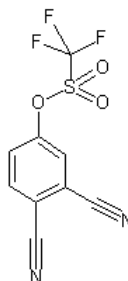
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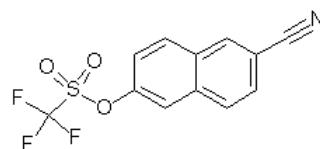


<b>Beilstein RN</b>	11369335
<b>Chemical name</b>	trifluoromethanesulfonic acid 3,4-dicyanophenyl ester
<b>CAS number</b>	
<b>Mol. formula</b>	$\text{C}_9\text{H}_3\text{F}_3\text{N}_2\text{O}_3\text{S}$
<b>Mol. weight</b>	276.196

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<b>Beilstein RN</b>	8560102
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<b>Mol. formula</b>	$\text{C}_{12}\text{H}_6\text{F}_3\text{NO}_3\text{S}$
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## Advances in the science and technology of carbon nanotubes and their composites: a review

Erik T. Thostenson<sup>a</sup>, Zhifeng Ren<sup>b</sup>, Tsu-Wei Chou<sup>a,\*</sup>

<sup>a</sup>Department of Mechanical Engineering and Center for Composite Materials, University of Delaware, Newark, DE 19716, USA  
<sup>b</sup>Department of Physics, Boston College, Chestnut Hill, MA 02167, USA

Received 1 May 2001; received in revised form 19 June 2001; accepted 21 June 2001

### Abstract

Since their first observation nearly a decade ago by Iijima (Iijima S. Helical microtubules of graphitic carbon Nature. 1991; 354:56–8), carbon nanotubes have been the focus of considerable research. Numerous investigators have since reported remarkable physical and mechanical properties for this new form of carbon. From unique electronic properties and a thermal conductivity higher than diamond to mechanical properties where the stiffness, strength and resilience exceeds any current material, carbon nanotubes offer tremendous opportunities for the development of fundamentally new material systems. In particular, the exceptional mechanical properties of carbon nanotubes, combined with their low density, offer scope for the development of nanotube-reinforced composite materials. The potential for nanocomposites reinforced with carbon tubes having extraordinary specific stiffness and strength represent tremendous opportunity for application in the 21st century. This paper provides a concise review of recent advances in carbon nanotubes and their composites. We examine the research work reported in the literature on the structure and processing of carbon nanotubes, as well as characterization and property modeling of carbon nanotubes and their composites. © 2001 Elsevier Science Ltd. All rights reserved.

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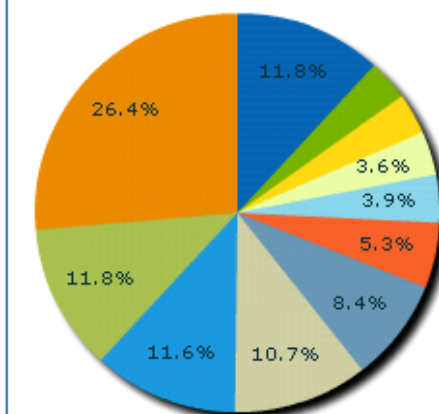
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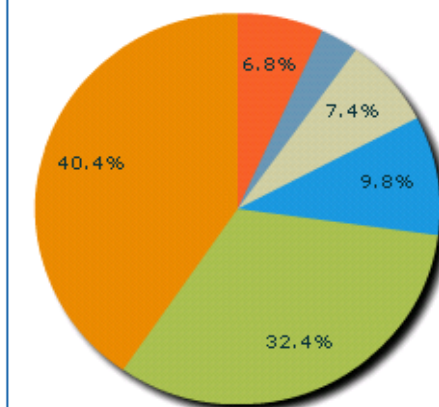
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
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9 <input type="checkbox"/> 1994	Possible impact of heterogeneous...	<a href="#">17</a>	<a href="#">4</a>	<a href="#">2</a>	<a href="#">1</a>	<a href="#">1</a>	<a href="#">2</a>	<a href="#">1</a>	<a href="#">1</a>	<a href="#">1</a>	<a href="#">13</a>		<a href="#">30</a>
10 <input type="checkbox"/> 1996	Fluidization of the active compo...	<a href="#">6</a>	<a href="#">5</a>	<a href="#">5</a>			<a href="#">1</a>	<a href="#">1</a>	<a href="#">3</a>	<a href="#">3</a>	<a href="#">18</a>	<a href="#">4</a>	<a href="#">28</a>



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- Определение**

ученый с индексом, равным 5, опубликовал 5 статей, каждая из которых цитировалась не менее 5 раз. Это означает, что остальные работы этого автора цитировались менее 5 раз каждая.

Article rank position	1	2	3	4	5	6	7	8	9	10	11
Citation count	49	23	15	14	6	3	1	1	0	0	0

J.E. Hirsch, “An index to quantify an individual’s scientific research output,”  
PNAS 102, 16569-16572 (2005)

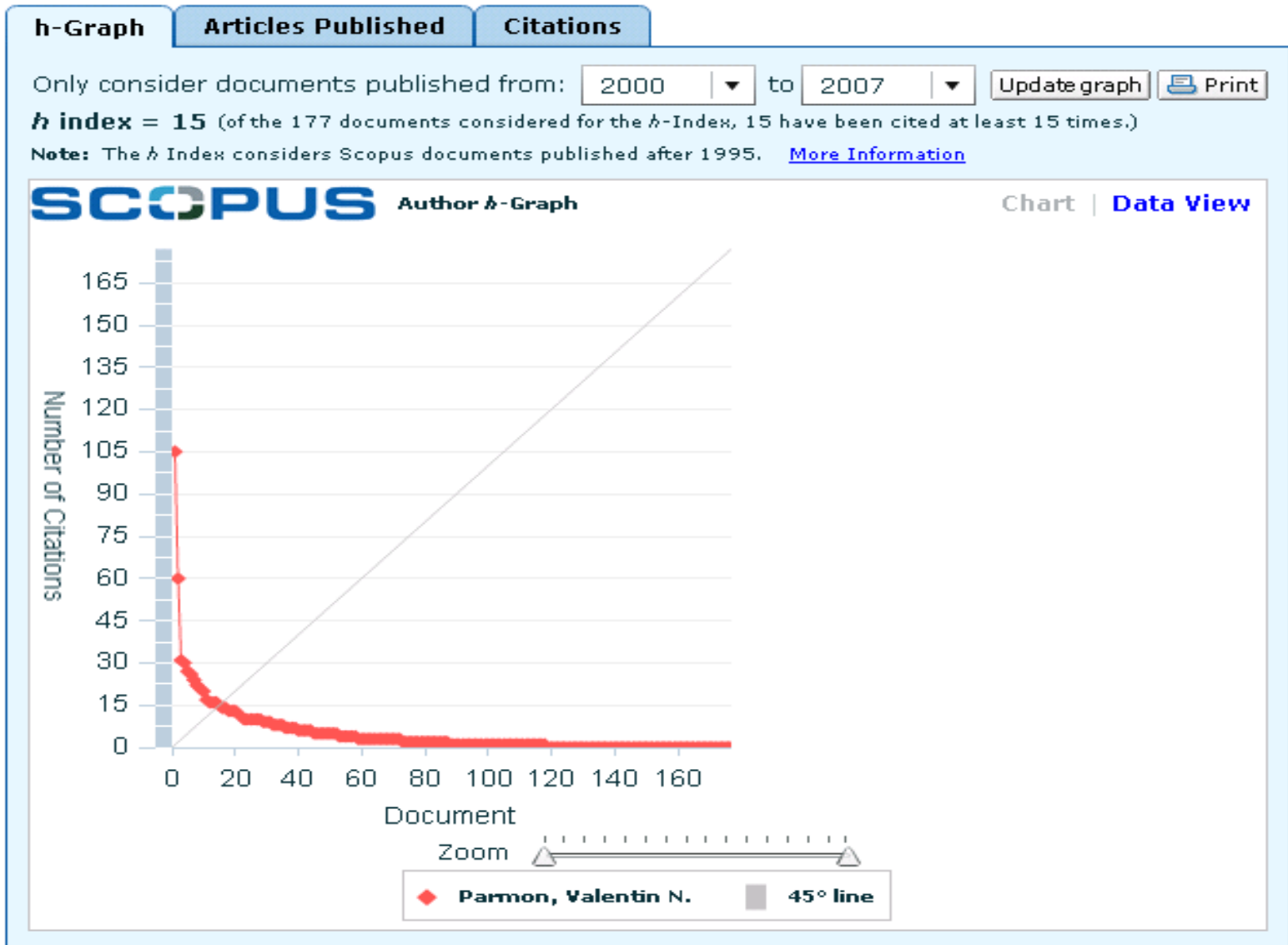
[http://arxiv.org/PS\\_cache/physics/pdf/0508/0508025.pdf](http://arxiv.org/PS_cache/physics/pdf/0508/0508025.pdf)



# Анализ работы ученого – Parmon Valentin, N.

**Author:** Parmon, Valentin N. (5 total)

The *h*-Graph measures an author's output and shows the number of citations per document.







- Предложен в 2005 г. американским физиком Йоргом Хиршем из университета Сан-Диего, Калифорния
- *h-index* становится самой популярной альтернативой импакт-фактору ISI для оценки эффективности работы ученых на основе цитируемости их статей

*«Учёный имеет индекс  $h$ , если  $h$  из его  $N_p$  статей цитируются как минимум  $h$  раз каждая, в то время как оставшиеся  $(N_p - h)$  статей цитируются не более чем  $h$  раз каждая.»*



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
	2000	2001	2002	2003	2004	2005	2006	2007	ИТОГО
<b>SCI</b>	20	19	26	31	26	24	26	29	<b>201</b>
<b>WoS</b>	118	103	122	171	119	230	188	241	<b>1292</b>
<b>SCOPUS</b>	112	88	103	145	122	235	206	286	<b>1297</b>





Personal

Name	Sobolev, Nikolai V.		
Other formats	Sobolev, N. V. Sobolev, Nikolai Sobolev, Nikolay V.		
Author ID	7102710400		
Affiliation	Siberian Branch of the Russian Academy of Sciences, InstituteNovosibirsk Russian Federation of Geology and Mineralogy		

Research

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<i>h</i> Index	22	 <i>h</i> -graph		22	 <i>h</i> -graph	
The <i>h</i> Index considers Scopus articles published after 1995.						
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Web Search	<a href="#">9</a>			<a href="#">11</a>		
Subject Area	Earth and Planetary Sciences Physics and Astronomy Multidisciplinary <a href="#">More...</a>					

Source history	<a href="#">European Journal of Mineralogy</a>	 <a href="#">documents</a>	
	<a href="#">Russian Geology and Geophysics</a>	 <a href="#">documents</a>	
	Composition, structure and dynamics of the lithosphere-asthenosphere system		
	<a href="#">More...</a>		
Affiliation history	Russian Academy of Sciences, Institute of Geology and Mineralogy	Novosibirsk	Russian Federation
	Institute of Mineralogy and Petrography, SB RAS, Siberian Division	Novosibirsk	Russian Federation
	RAS		
	Ruhr University of Bochum, Institut für Geologie Min./Geophysik	Bochum	Germany
	Institute of Geology and Geophysics	Novosibirsk	Russian Federation

Documents

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- [Serdobintseva, V.V., Kalinin, D.V., Eliseev, A.P., Sobolev, N.V.](#)

**Structured chemosensor films based on silica nanoparticles modified by organic colorants**  
(2008) *Doklady Earth Sciences*

Abstract + Refs

- [Agashev, A.M., Pokhilenko, N.P., Takazawa, E., McDonald, J.A., Vavilov, M.A., Watanabe, T., Sobolev, N.V.](#)

**Primary melting sequence of a deep (> 250 km) lithospheric mantle as recorded in the geochemistry of kimberlite-carbonatite assemblages, Snap Lake**  
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39

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<a href="#">Delete</a>	Total	<a href="#">483</a>	<a href="#">195</a>	<a href="#">183</a>	<a href="#">199</a>	<a href="#">221</a>	<a href="#">359</a>	<a href="#">262</a>	<a href="#">305</a>	<a href="#">295</a>	<a href="#">326</a>	<a href="#">29</a>	<a href="#">0</a>	<a href="#">2374</a>	<a href="#">2857</a>
1 <input type="checkbox"/> 1990	Diamond inclusions in garnets fr...	<a href="#">74</a>	<a href="#">33</a>	<a href="#">28</a>	<a href="#">32</a>	<a href="#">29</a>	<a href="#">33</a>	<a href="#">34</a>	<a href="#">31</a>	<a href="#">29</a>	<a href="#">24</a>	<a href="#">2</a>		<a href="#">275</a>	<a href="#">349</a>
2 <input type="checkbox"/> 1997	Composition of the Siberian crat...	<a href="#">22</a>	<a href="#">11</a>	<a href="#">10</a>	<a href="#">7</a>	<a href="#">10</a>	<a href="#">16</a>	<a href="#">14</a>	<a href="#">14</a>	<a href="#">13</a>	<a href="#">18</a>	<a href="#">3</a>		<a href="#">116</a>	<a href="#">138</a>
3 <input type="checkbox"/> 1997	Metamorphic evolution of diamond...	<a href="#">15</a>	<a href="#">17</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">13</a>	<a href="#">12</a>	<a href="#">6</a>	<a href="#">14</a>	<a href="#">4</a>	<a href="#">10</a>			<a href="#">93</a>	<a href="#">108</a>
4 <input type="checkbox"/> 1995	High-3He plume origin and tempor...	<a href="#">33</a>	<a href="#">12</a>	<a href="#">5</a>	<a href="#">8</a>	<a href="#">9</a>	<a href="#">4</a>	<a href="#">6</a>	<a href="#">2</a>	<a href="#">7</a>	<a href="#">3</a>	<a href="#">2</a>		<a href="#">58</a>	<a href="#">91</a>
5 <input type="checkbox"/> 1973	Chrome-rich garnets from the kim...	<a href="#">26</a>	<a href="#">4</a>	<a href="#">3</a>	<a href="#">8</a>	<a href="#">3</a>	<a href="#">14</a>	<a href="#">7</a>	<a href="#">7</a>	<a href="#">10</a>	<a href="#">4</a>	<a href="#">4</a>		<a href="#">64</a>	<a href="#">90</a>
6 <input type="checkbox"/> 1991	Zircon response to diamond-press...	<a href="#">24</a>	<a href="#">12</a>	<a href="#">11</a>	<a href="#">4</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">5</a>	<a href="#">8</a>	<a href="#">4</a>	<a href="#">3</a>	<a href="#">1</a>		<a href="#">57</a>	<a href="#">81</a>
7 <input type="checkbox"/> 1995	Archaean Re-Os age for Siberian ...	<a href="#">27</a>	<a href="#">5</a>	<a href="#">5</a>	<a href="#">4</a>	<a href="#">5</a>	<a href="#">15</a>	<a href="#">9</a>	<a href="#">4</a>	<a href="#">4</a>	<a href="#">2</a>			<a href="#">53</a>	<a href="#">80</a>
8 <input type="checkbox"/> 1995	Geotectonic evolution of diamond...	<a href="#">16</a>	<a href="#">14</a>	<a href="#">7</a>	<a href="#">7</a>	<a href="#">7</a>	<a href="#">5</a>	<a href="#">2</a>	<a href="#">4</a>	<a href="#">2</a>	<a href="#">6</a>	<a href="#">1</a>		<a href="#">55</a>	<a href="#">71</a>
9 <input type="checkbox"/> 1999	Diamond formation from mantle ca...		<a href="#">1</a>	<a href="#">12</a>	<a href="#">10</a>	<a href="#">7</a>	<a href="#">9</a>	<a href="#">7</a>	<a href="#">7</a>	<a href="#">9</a>	<a href="#">4</a>			<a href="#">66</a>	<a href="#">66</a>
10 <input type="checkbox"/> 1998	Evidence of fluid inclusions in ...	<a href="#">4</a>	<a href="#">2</a>	<a href="#">6</a>	<a href="#">11</a>	<a href="#">9</a>	<a href="#">6</a>	<a href="#">7</a>	<a href="#">10</a>	<a href="#">3</a>	<a href="#">1</a>			<a href="#">55</a>	<a href="#">59</a>

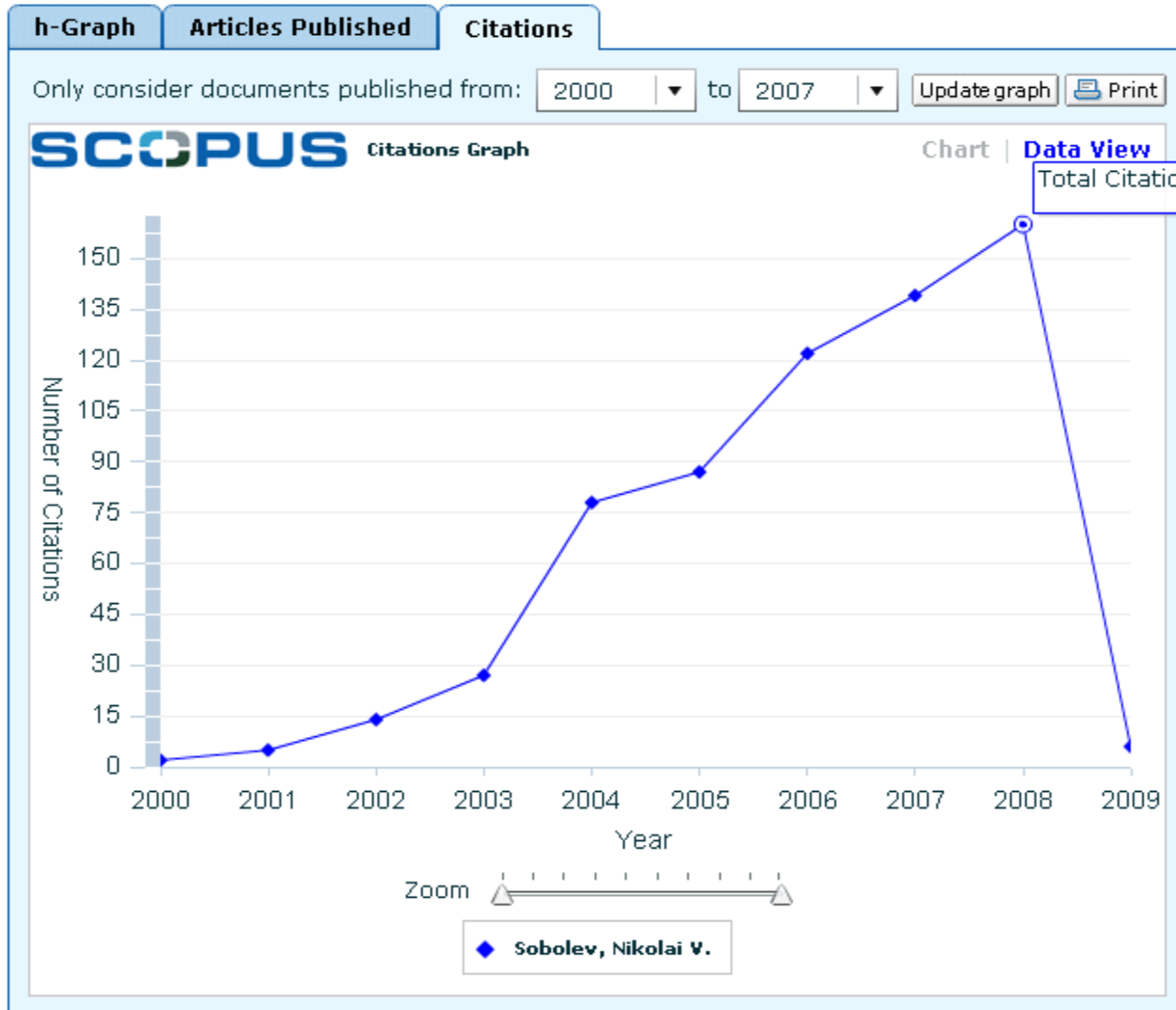


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# Анализ работы ученого – Sobolev Nikolai, V.

**Author:** Sobolev, Nikolai V. (31 total)

The Citations Graph shows the total number of citations received per year for an author's published works.



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	2000	2001	2002	2003	2004	2005	2006	2007	ИТОГО
SCI	93	97	86	93	162	79	74	79	763
WoS	266	262	221	255	451	289	403	405	2552
SCOPUS	195	183	199	221	359	262	305	295	2019



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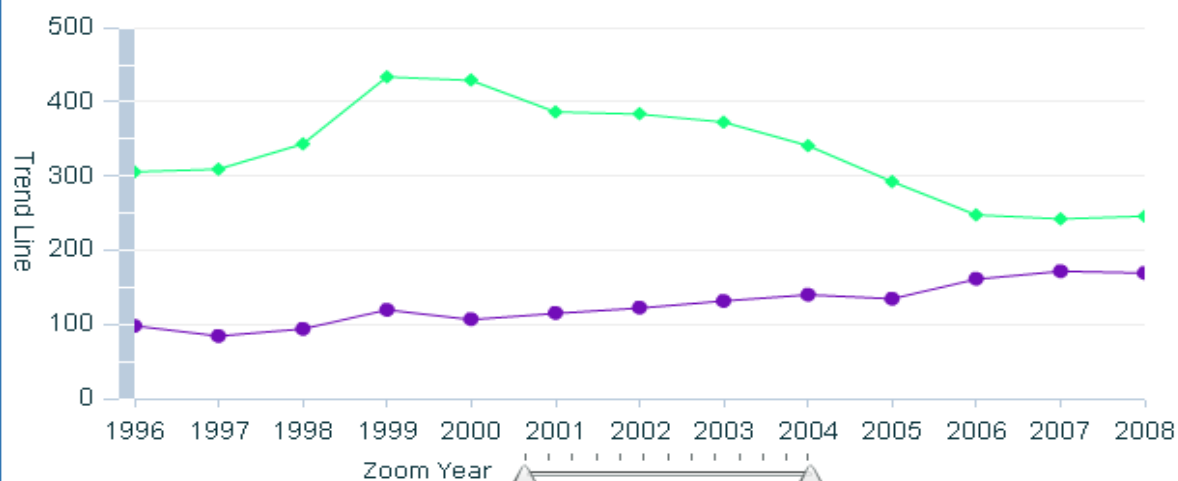
Journal Title	ISSN
Archives of Nature Conservation and Landscape	00039306
Bulletin de l'Institut Royal des Sciences Naturell	03746291
Bulletin de la Societe Vaudoise des Sciences Nat	00379603
Capitalism, Nature, Socialism	10455752
Discrete Dynamics in Nature and Society	10260226
Fortschritte der Chemie Organischer Naturstoffe	00717886
Human Nature	10456767
Humans and Nature	09181725
International Journal of Design and Nature	17443687
Journal for Nature Conservation	16171381
<b>Nature</b>	<b>00280836</b>
Nature and Human Activities	13420054
Nature Biotechnology	10870156
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Nature Chemical Biology	15524450
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Articles Published

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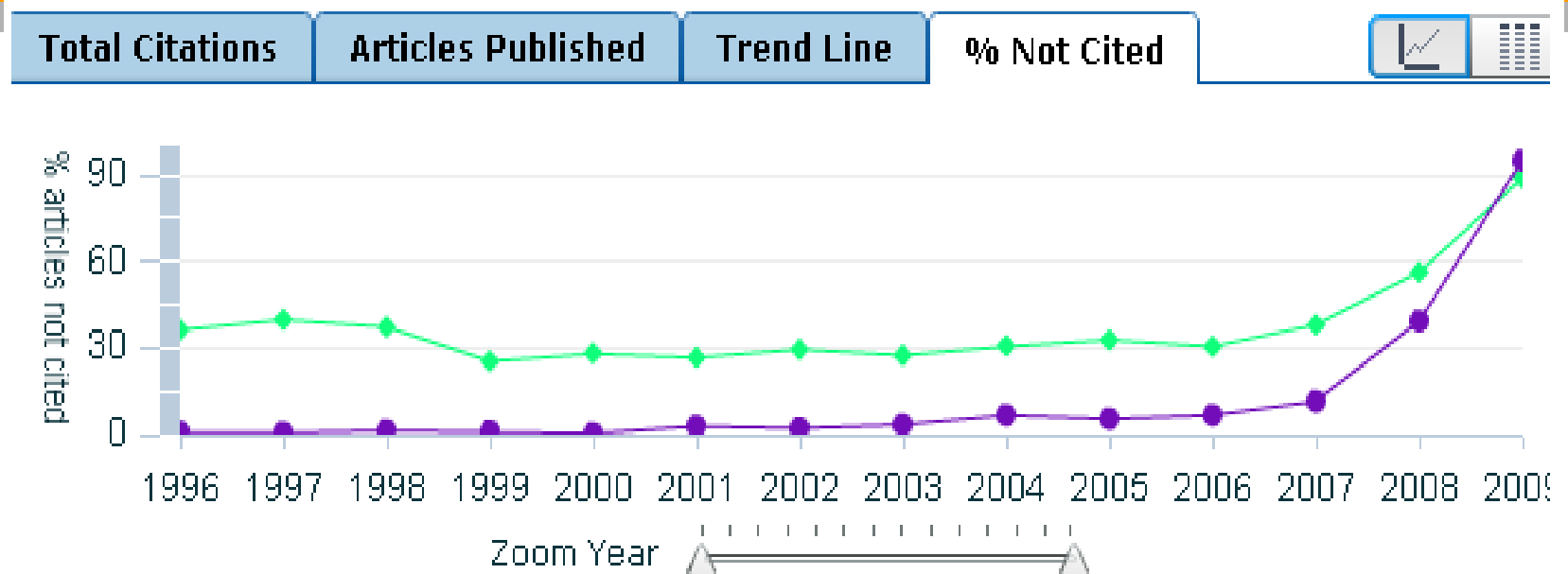
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● Nature

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[X](#)

# Journal Evaluation: Как это выглядит ?



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% Not Cited = Percentage of articles published in that year that have never been cited to date [Close](#)

**Journals In Chart** [X Clear chart](#)

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- Транспарентность

# Российский рейтинг университетов РейТОр использует данные Scopus

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В СФЕРЕ ОБРАЗОВАНИЯ



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47

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 Country:  Year:    
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 1 - 50 of 244 << First | < Previous | [Next >](#) | [Last >>](#)

SJR is developed by:



Data source:



	Title	SJR	H index	Total Docs. (2007)	Total Docs. (3years)	Total Refs.	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc.	Country
1	<a href="#">Reviews on Advanced Materials Science</a>	0,079	13	82	225	1.700	253	215	1,18	20,73	RUSSIAN FEDERATION
2	<a href="#">Astronomy Letters</a>	0,069	16	88	294	2.350	188	289	0,64	26,70	RUSSIAN FEDERATION
3	<a href="#">Uspekhi Khimii</a>	0,066	17	0	114	0	161	114	1,43	0,00	RUSSIAN FEDERATION
4	<a href="#">Molekulyarnaya Biologiya</a>	0,064	14	110	342	2.089	138	341	0,43	18,99	RUSSIAN FEDERATION
5	<a href="#">JETP Letters</a>	0,064	34	321	790	5.957	594	783	0,78	18,56	RUSSIAN FEDERATION
6	<a href="#">Pediatric Dentistry</a>	0,060	25	66	329	247	211	281	0,73	3,74	RUSSIAN FEDERATION
7	<a href="#">Advances in gerontology = Uspekhi gerontologii / Rossiiskaia akademiia nauk, Gerontologicheskoe obshchestvo</a>	0,059	4	65	108	481	22	107	0,26	7,40	RUSSIAN FEDERATION
8	<a href="#">Paleontological Journal</a>	0,057	9	100	314	3.031	66	306	0,20	30,31	RUSSIAN FEDERATION
9	<a href="#">Uspekhi Fizicheskikh Nauk</a>	0,056	15	0	136	0	135	136	0,00	0,00	RUSSIAN FEDERATION
10	<a href="#">Bioorganicheskaya Khimiya</a>	0,056	13	80	252	834	102	246	0,44	10,43	RUSSIAN FEDERATION

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- Получение конкурентной информации, позволяющей оставаться в курсе последних научных разработок
- Открытие новых направлений работы в интересующей предметной области
- Оценка научной работы отдельных авторов, организаций и целых государств (**Research Performance Measurement**)
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