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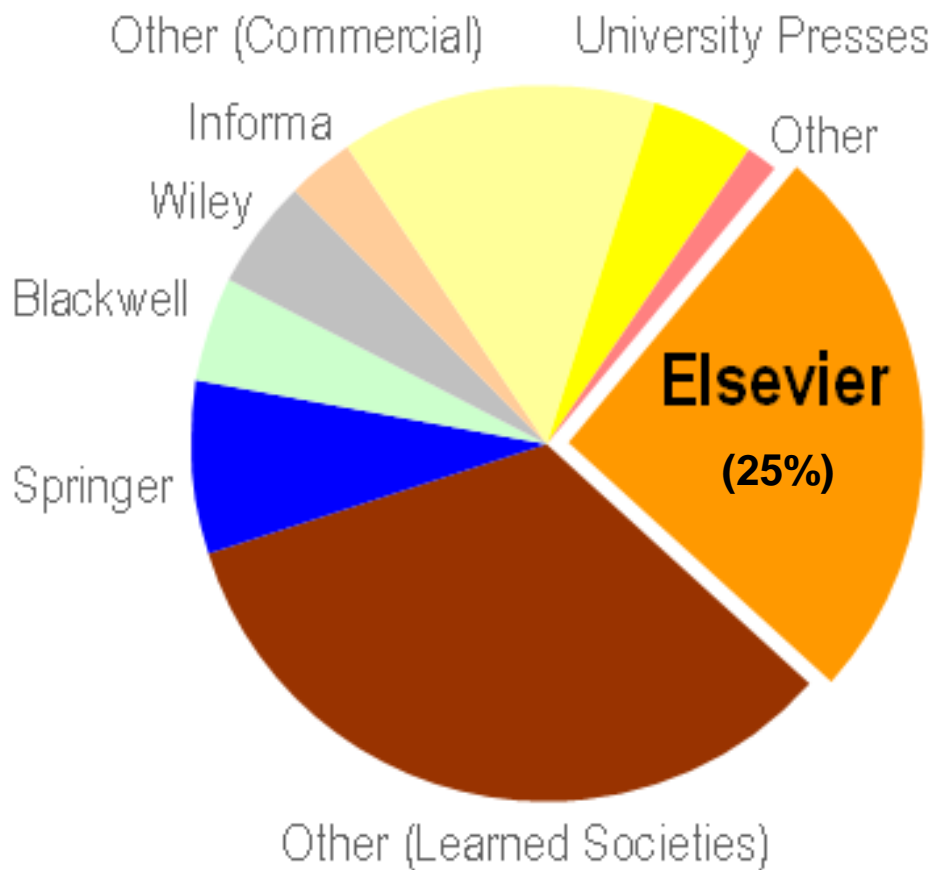
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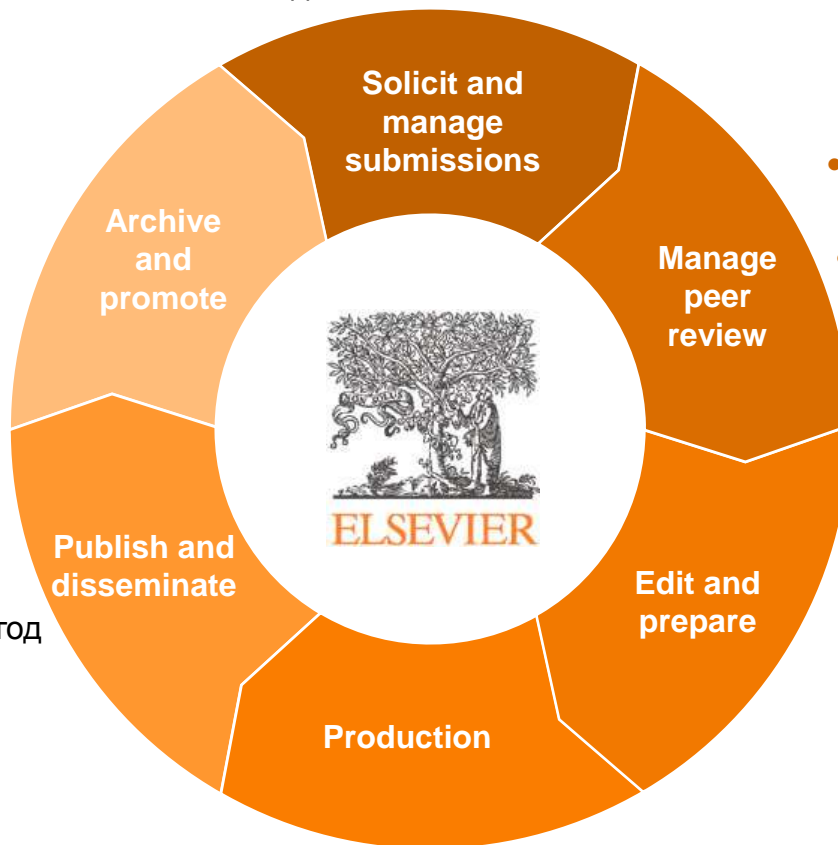


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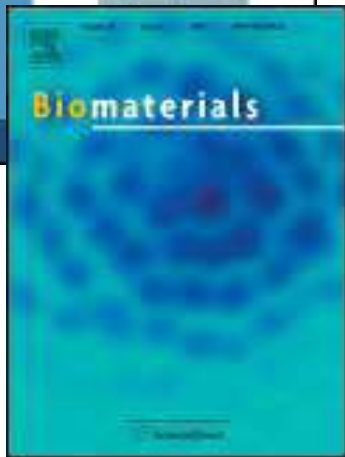
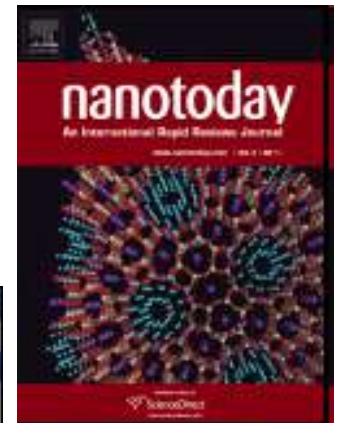
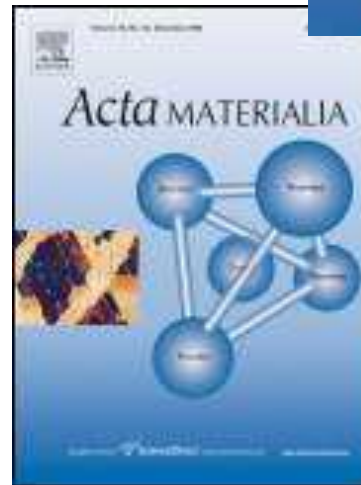
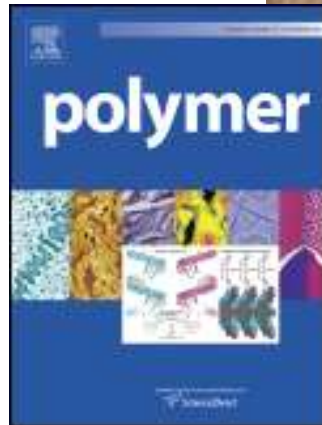
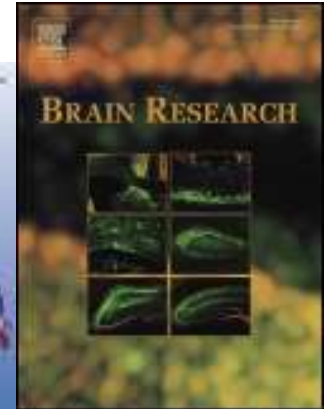
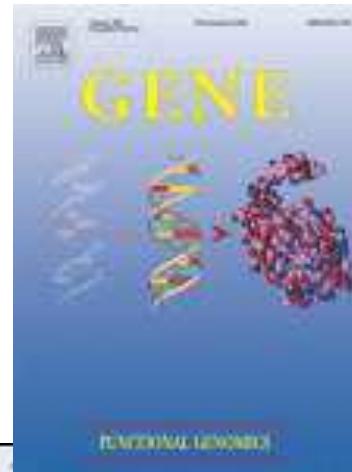
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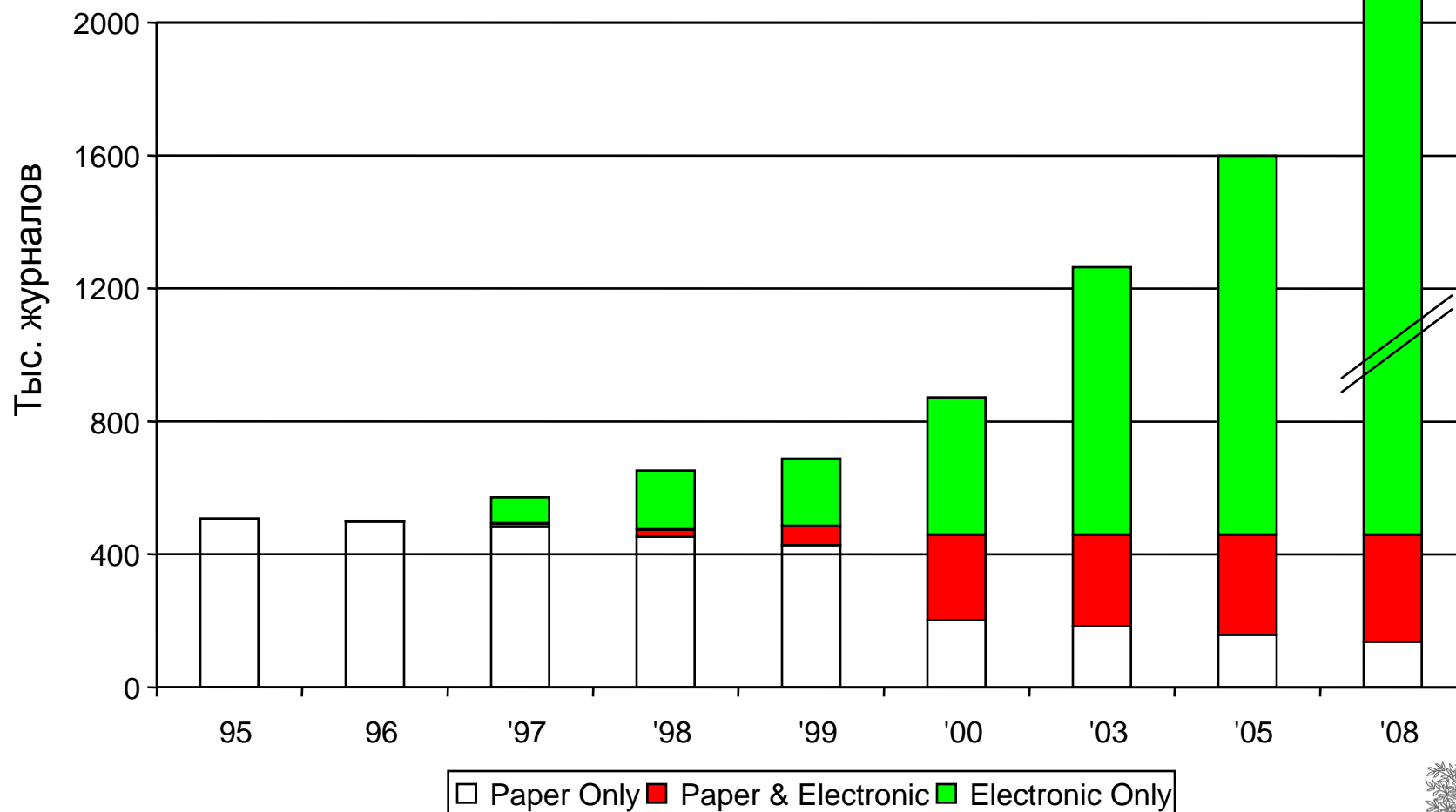
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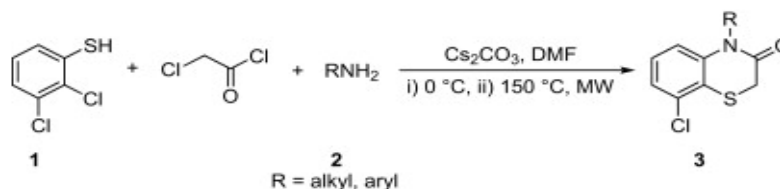
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Stephen P. Muench<sup>1</sup>, Markus Huss<sup>3</sup>, Chun Feng Song<sup>2</sup>, Clair Phillips<sup>1</sup>, Helmut Wieczorek<sup>3</sup>, John Trinick<sup>2</sup> and Michael A. Harrison<sup>1</sup>,

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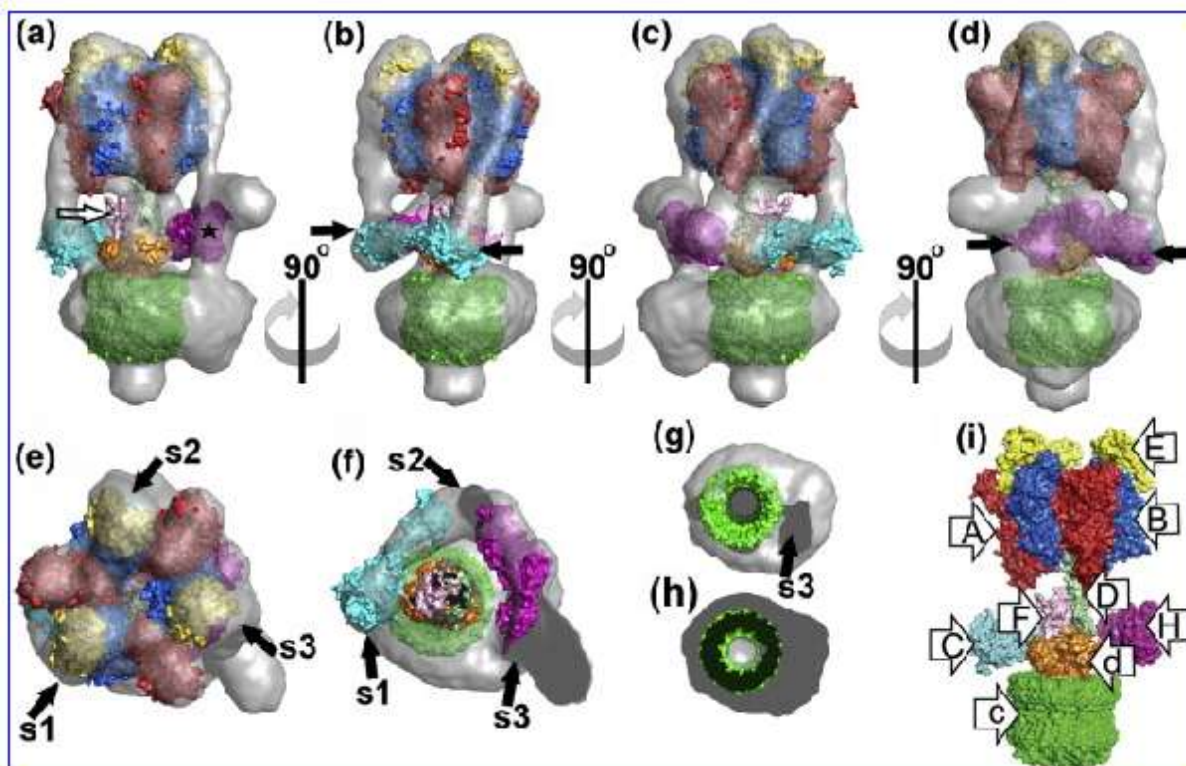
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makes minimal contact with V<sub>1</sub>. Several subunit crystal structures can be fit accurately into the reconstruction.

## Bookmarks

- Microwave-assisted one-pot synthesis of benzo[*b*][1,4]thiazin-3(4*H*)-ones via Smiles rearrangement
  - Introduction
  - Results and discussions
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    - General procedure for the synthesis of benzo[*b*][1,4]thiazin-3(4*H*)-ones (3)
      - 4-Benzyl-8-chloro-2*H*-benzo[*b*][1,4]thiazin-3(4*H*)-one (3a)
      - 8-Chloro-4-hexyl-2*H*-benzo[*b*][1,4]thiazin-3(4*H*)-one (3b)
      - 8-Chloro-4-cyclohexyl-2*H*-benzo[*b*][1,4]thiazin-3(4*H*)-one (3c)
      - 8-Chloro-4-((tetrahydrofuran-2-yl)methyl)-2*H*-benzo[*b*][1,4]thiazin-3(4*H*)-one (3d)
      - 4-Benzyl-7-chloro-2*H*-benzo[*b*][1,4]thiazin-3(4*H*)-one (3e)



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## Microwave-assisted one-pot synthesis of benzo[*b*][1,4]thiazin-3(4*H*)-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>

<sup>a</sup>College of Pharmaceutical Sciences, Southwest University, Chongqing 400716, China

<sup>b</sup>Departments of Biochemistry and Pharmacology, University of Texas Southwestern Medical Center, Dallas, TX 75390, USA

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### ARTICLE INFO

#### Article history:

Received 3 June 2008  
Received in revised form 17 July 2008  
Accepted 17 July 2008  
Available online 22 July 2008

#### Keywords:

Benzo[*b*][1,4]thiazin-3(4*H*)-one  
Microwave  
Smiles rearrangement  
2-Chlorobenzeneithiol  
One-pot

### ABSTRACT

The synthesis of benzo[*b*][1,4]thiazin-3(4*H*)-one derivatives in a simple and efficient method from the one-pot reaction of substituted 2-chlorobenzethiols, 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).

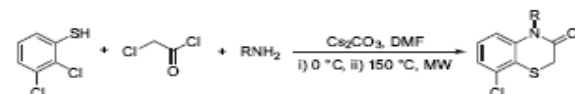
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### 1. Introduction

For heterocycles containing sulfur moieties, benzo[*b*][1,4]thiazin-3(4*H*)-one derivatives' scaffold are classified as privileged structures due to the large number of biologically active molecules and natural products containing this moiety.<sup>1–15</sup>

To date, the benzo[*b*][1,4]thiazin-3(4*H*)-one scaffold has been generated by several methods involving: (i) direct cyclization from 2-aminobenzethiol 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>7a</sup> However, the limited kinds of 2-aminobenzethiol, halonitrophenol, and 2-chloroaniline hindered the structural diversity of benzo[1,4]-

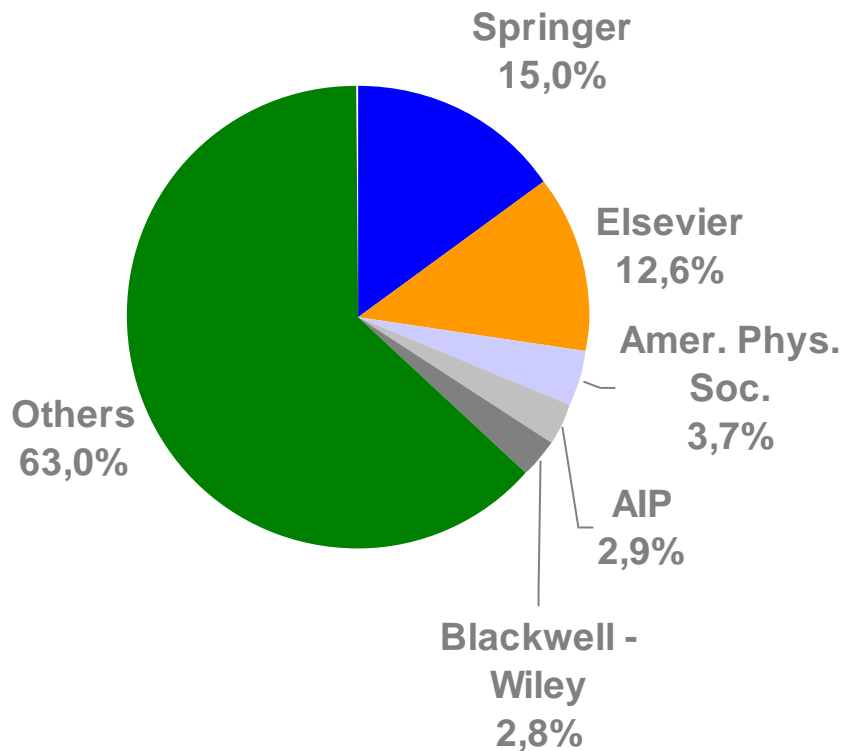
ongoing studies on the development of new routes for the preparation of biologically active heterocyclic compounds,<sup>17</sup> we herein used substituted 2-chlorobenzeneithiol 1, chloroacetyl chloride, and primary amine 2 under microwave (MW) irradiation to synthesize benzo[*b*][1,4]thiazin-3(4*H*)-ones 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(4*H*)-ones and permitted us to introduce great molecular diversity, including substitution diversity and skeleton diversity of benzo[1,4]thiazin-3(4*H*)-ones.



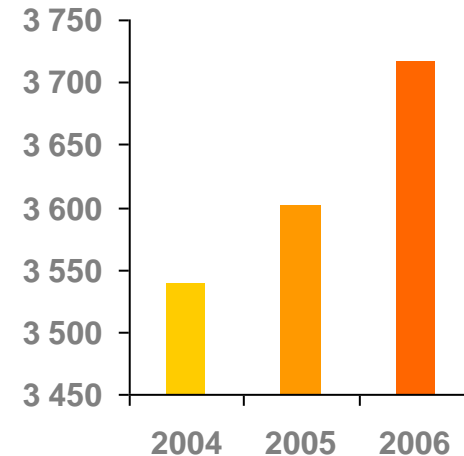
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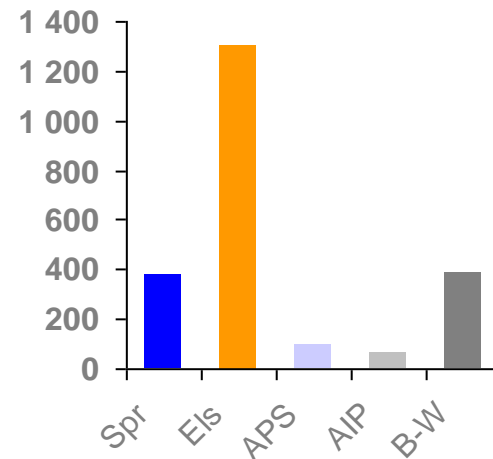
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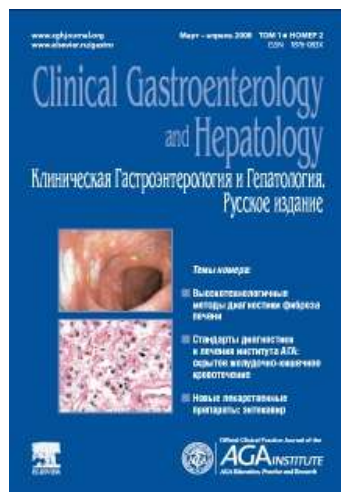
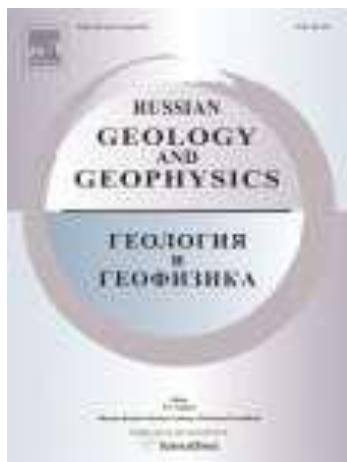
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<sup>c</sup> A.N.Nesmeyanov Institute of Organoelement Compounds, Russian Federation

### Abstract

Homolytic cycloaddition of dithiols 1,2 derived from t by Pr<sub>3</sub>B-O<sub>2</sub>, offers an extremely simple approach to t thialactones 4a-c-7a-c. The reaction of trans-1-pro to give predominantly (1S\*, 6R\*, 12S\*)-4a-c, while mechanics calculations the stereoselectivity is ration macrocyclization.

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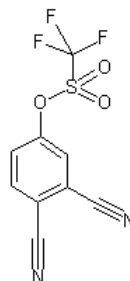
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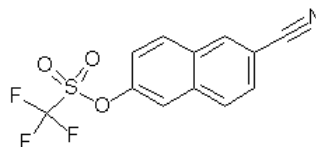


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Chemical name	trifluoromethanesulfonic acid 3,4-dicyanophenyl ester
CAS number	
Mol. formula	C <sub>9</sub> H <sub>3</sub> F <sub>3</sub> N <sub>2</sub> O <sub>3</sub> S
Mol. weight	276.196

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Beilstein RN	8560102
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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>

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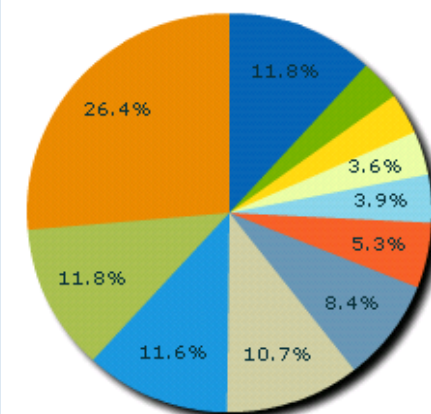
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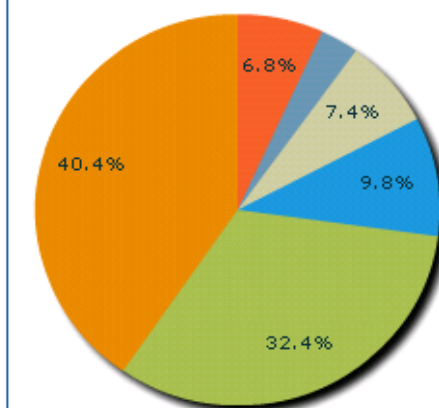
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J.E. Hirsch, “An index to quantify an individual’s scientific research output,”  
PNAS 102, 16569-16572 (2005)

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

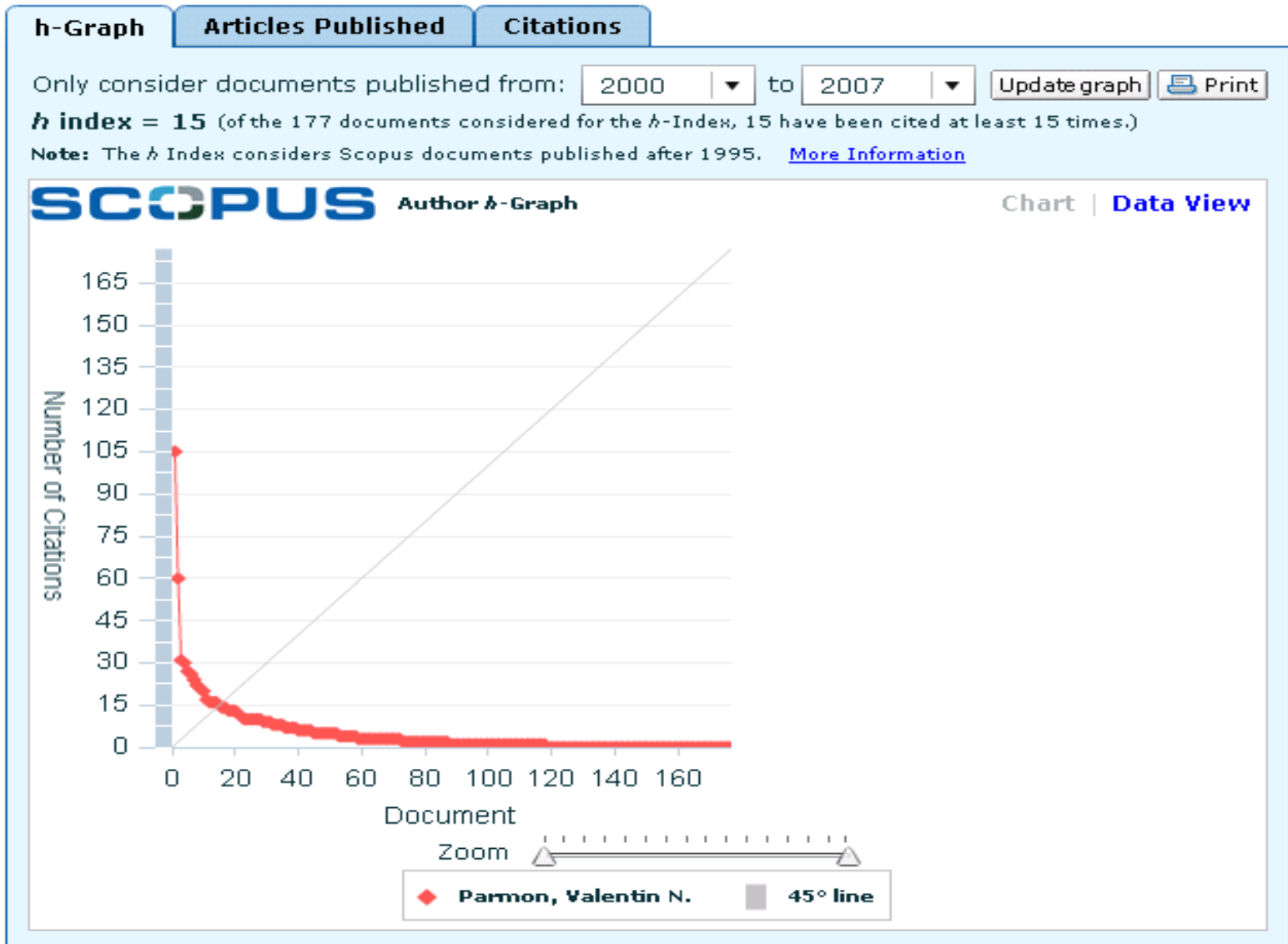


# Анализ работы ученого – Parmon Valentin, N.

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

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

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

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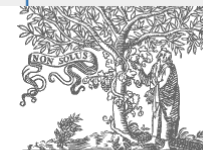
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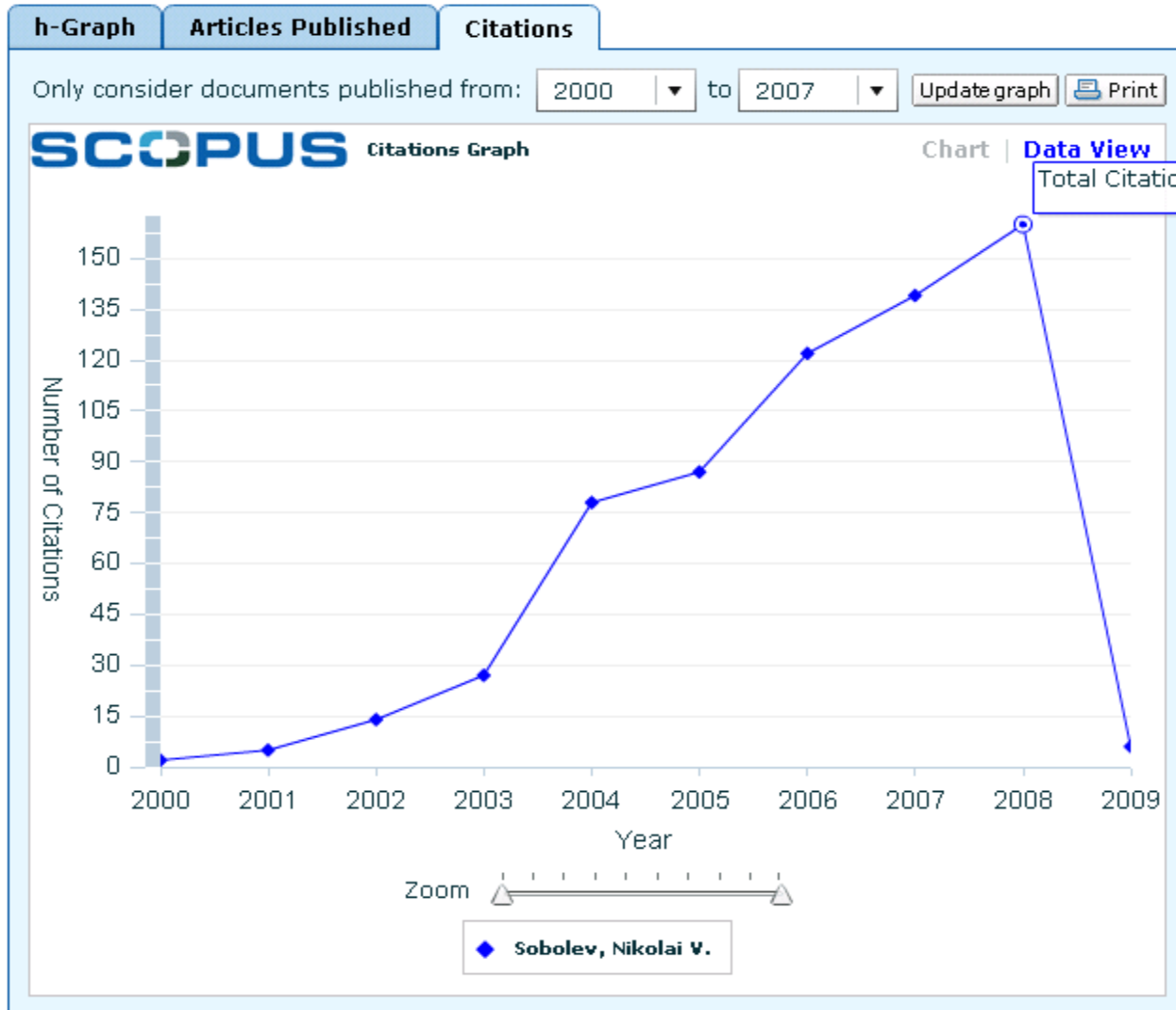
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5	<input type="checkbox"/>	1973 Chrome-rich garnets from the kim...	<a href="#">26</a>	<a href="#">4</a>	<a href="#">3</a>	<a href="#">8</a>	<a href="#">3</a>	<a href="#">14</a>	<a href="#">7</a>	<a href="#">7</a>	<a href="#">10</a>	<a href="#">4</a>	<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>
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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>



# Анализ работы ученого – Sobolev Nikolai, V.

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

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<b>WoS</b>	266	262	221	255	451	289	403	405	<b>2552</b>
<b>SCOPUS</b>	195	183	199	221	359	262	305	295	<b>2019</b>



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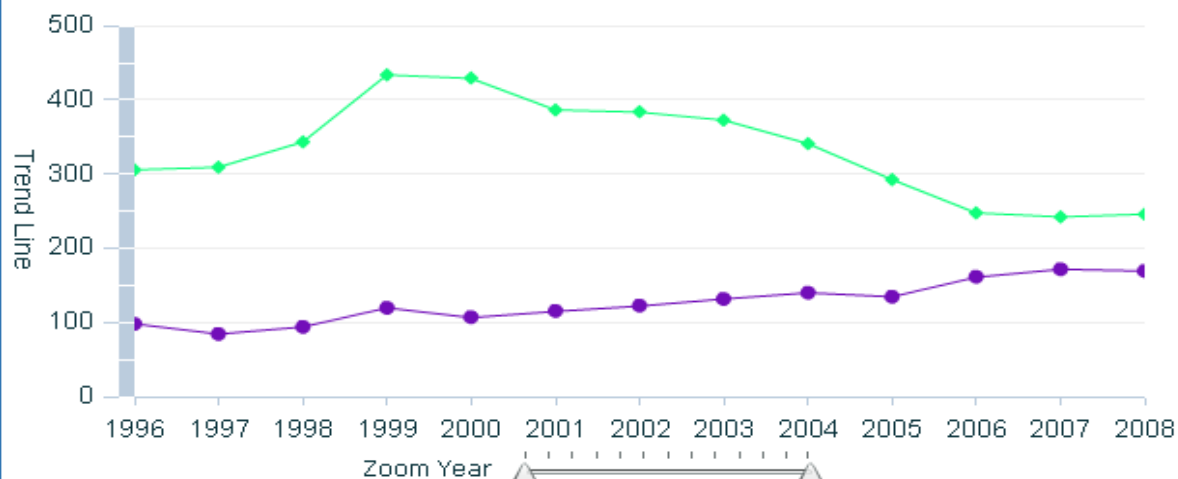
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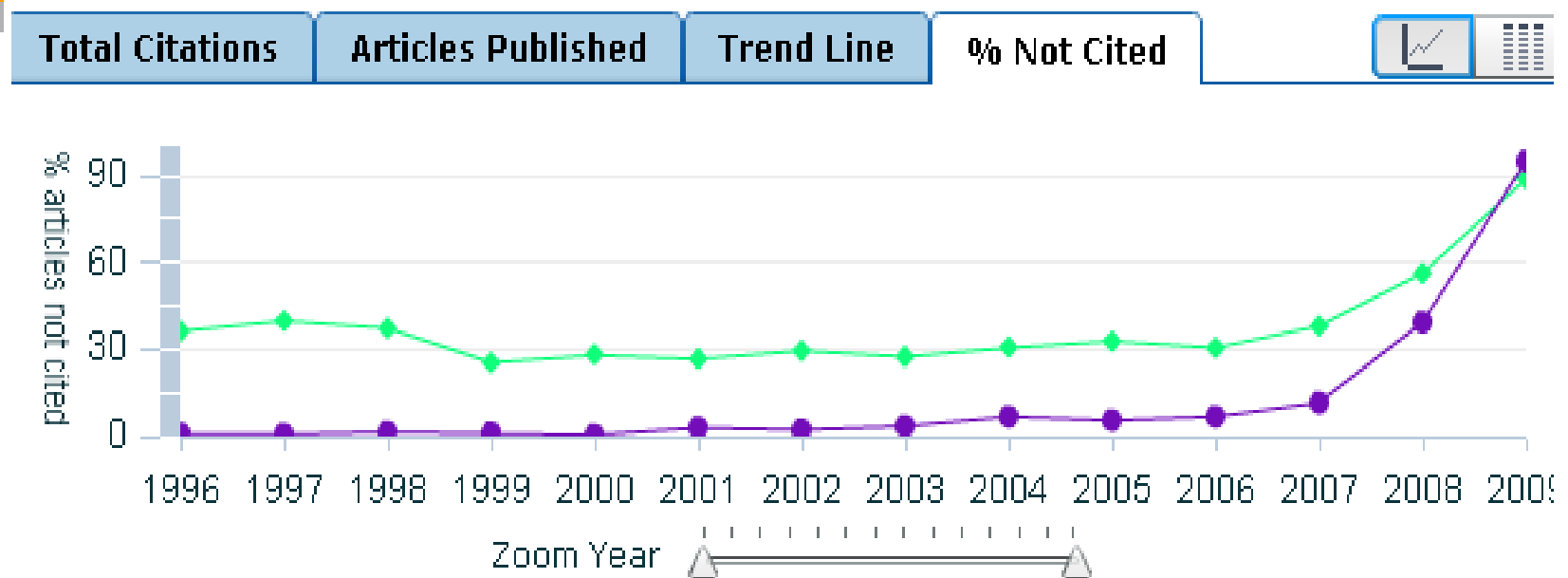
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- Лучшая репрезентативность неанглоязычных журналов
- Возможность отследить новые организации (неамериканские, незападно-европейские)
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2	<a href="#">Astronomy Letters</a>	0,069	16	88	294	2.350	188	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
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- Оценка научной работы отдельных авторов, организаций и целых государств (**Research Performance Measurement**)
- Повышение статуса/рейтинга организации



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