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Vagner Alves

Instrutor

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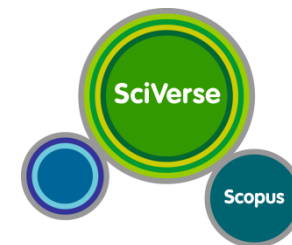
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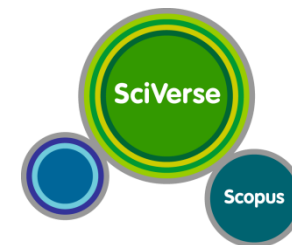
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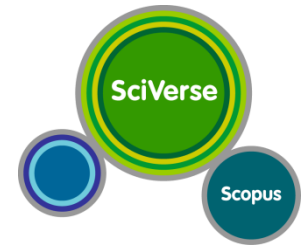
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# Características & Funcionalidade



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Premiação vai consagrar dez pesquisadoras brasileiras com significativa produção científica

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Acesse os tutoriais do Novo Portal de Periódicos

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Ajuda

#### Busca Integrada

BUSCA

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Buscar palavra  Todos os campos

Buscar palavra  Todos os campos

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Bases indicadas  Localizar por área de conhecimento  Localizar em base específica

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**Buscar Base**

BUSCA

RESULTADO DA BUSCA

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Título

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<input type="checkbox"/> Physics Letters Section A General Atomic and Solid State Physics (1,436)	<input type="checkbox"/> Vigier, J.P. (46)	<input type="checkbox"/> 2008 (1,436)	<input type="checkbox"/> University of Cambridge (351)	<input type="checkbox"/> Chemistry (5,667)
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<input type="checkbox"/> Nature (951)	<input type="checkbox"/> Rode, B.M. (42)	<input type="checkbox"/> 2006 (1,387)	<input type="checkbox"/> University of Oxford (306)	<input type="checkbox"/> Biochemistry, Genetics and Molecular Biology (2,051)

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1	<input type="checkbox"/> Mapping and reverse-mapping of the morphologies for a molecular understanding of the self-assembly of fluorinated block copolymers	Kacar, G., Atilgan, C., Özen, A.S.	2010	Journal of Physical Chemistry C 114 (1), pp. 370-382	0
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1	<input type="checkbox"/> [No title available]	Duvenhage, R.	2023	Recurrence in Quantum Mechanics	1
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- 2010 **SCIRUS** Web Result PhilSci Archive - Subject: Quantum Mechanics  
Lombardi, Olimpia and Fortin, Sebastian and Castagnino, Mario (2010) The problem of identifying the system and the environment in the phenomenon of decoherence.  
[philsci-archive.pitt.edu/.../quantum-mechanics.html]  
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- 2009 Theory: Quantum Mechanics (SLAC VVC)

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- polarization
- polarisation
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**GILBERT, RICHARD**  
A method for predicting the suitability of a material to support surface plasmon resonance (SPR) at a given wavelength comprising using quantum mechanics to predict the dielectric properties of a variety of metals to thereby derive mathematical models to ...  
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- 2005 [METHOD OF MODELING AND PREDICTING BINDING OF LIGAND MOLECULES TO TARGET MOLECULES BY METHODS OF QUANTUM MECHANICS TAKING EFFECT OF SOLVENT INTO ACCOUNT](#)

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1	<input type="checkbox"/> Single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction	Chomczynski, P., Sacchi, N.	1987	<i>Analytical Biochemistry</i> 162 (1), pp. 156-159	42311
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2	<input type="checkbox"/> An improvement of the single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction	Puissant, C., Houdebine, L.M.	1990	<i>BioTechniques</i> 8 (2), pp. 148-149	417
3	<input type="checkbox"/> The single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction: Twenty-something years on	Chomczynski, P., Sacchi, N.	2006	<i>Nature Protocols</i> 1 (2), pp. 581-585	103
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4	<input type="checkbox"/> Development of a PCR amplification assay as a screening test using bulk milk samples for identifying dairy herds infected with bovine viral diarrhea virus	Radwan, G.S., Brook, K.V., Hogan, J.S., Smith, K.L.	1995	<i>Veterinary Microbiology</i> 44 (1), pp. 77-92	59
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5	<input type="checkbox"/> Rapid isolation method for lipopolysaccharide and lipid A from Gram-negative bacteria	Yi, E.C., Hackett, M.	2000	<i>Analyt</i> 125 (4), pp. 651-656	53
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6	<input type="checkbox"/> Optimization of extraction and PCR amplification of RNA extracts from paraffin-embedded tissue in different fixatives	Koopmans, M., Monroe, S.S., Coffield, L.M., Zaki, S.R.	1993	<i>Journal of Virological Methods</i> 43 (2), pp. 189-204	39
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7	<input type="checkbox"/> Extraction and isolation of mRNA from adult articular cartilage	Adams, M.E., Ding Qiu Huang, Lena Yue Yao, Sandell, L.J.	1992	<i>Analytical Biochemistry</i> 202 (1), pp. 89-95	38
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17  A comparison of two RNA isolation methods for double-stranded RNA of infectious bursal disease virus

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## Estimation of cellular DNA content in cell lysates suitable for RNA isolation<sup>1†</sup>

Zbigniew Rymaszewski<sup>1</sup>, William A. Abplanalp<sup>1</sup>, Robert M. Cohen<sup>1</sup> and Piotr Chomoszynski<sup>1</sup>

<sup>1</sup>Department of Medicine, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267-0547, USA  
<sup>†</sup>Department of Ophthalmology, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267-0547, USA  
Received 5 February 1990. Available online 08 December 2004.

**Abstract**  
Methods are described for the isolation of DNA and measurement of cell number and DNA content in cell lysates suitable for RNA isolation.

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16	Cytomegalovirus and Epstein-Barr virus active infection in periapical lesions of teeth with intact crowns	Sabeti, M., Simon, J.H., Nowzari, H., Slots, J.	2003	<i>Journal of Endodontics</i> 29 (5), pp. 321-323	16
17	A comparison of two RNA isolation methods for double-stranded RNA of infectious bursal disease virus	Akin, A., Wu, C.C., Lin, T.L.	1998	<i>Journal of Virological Methods</i> 74 (2), pp. 179-184	15

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ISSN: 17542189

DOI: 10.1038/nprot.2006.83

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## The single-step method of RNA isolation by acid guanidinium thiocyanate-phenol-chloroform extraction: Twenty-something years on

Chomczynski, P.<sup>1</sup>, Sacchi, N.<sup>2</sup>

<sup>1</sup> Molecular Research Center, 2600 Clifton Avenue, Cincinnati, OH 45221, United States

<sup>2</sup> Department of Cancer Genetics, Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, NY 14263, United States

### Abstract

Since its introduction, the 'single-step' method has become widely used for isolating total RNA from biological samples of different sources. The principle at the basis of the method is that RNA is separated from DNA after extraction with an acidic solution containing guanidinium thiocyanate, sodium acetate, phenol and chloroform, followed by centrifugation. Under acidic conditions, total RNA remains in the upper aqueous phase, while DNA and protein precipitate in the lower organic phase. The original procedure was modified to allow for the isolation of RNA from plant tissues in less than 20 minutes, as demonstrated.

Language of original document

English

Index Keywords

EMTREE drug terms: chloroform; guanidinium derivative; guanidinium thiocyanate; phenol; RNA; thiocyanic acid derivative; unclassified drug

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- 1  Chomczynski, P., Sacchi, N.  
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- 2  Wu, C.C., Lin, T.L., Zhang, H.G., Davis, V.S., Boyle, J.A.  
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- 3  Akin, A., Wu, C.C., Lin, T.L., Keirs, R.W.  
**Chemiluminescent detection of infectious bursal disease virus with a PCR-generated nonradiolabeled probe.**  
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**Characterization of the VPg-dsRNA linkage of infectious pancreatic necrosis virus**  
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**Isolation of viral double-stranded RNAs using a LiCl fractionation procedure**  
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doi: 10.1016/0003-2697(90)90039-C  
  
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- 9  Spies, U., Müller, H., Becht, H.  
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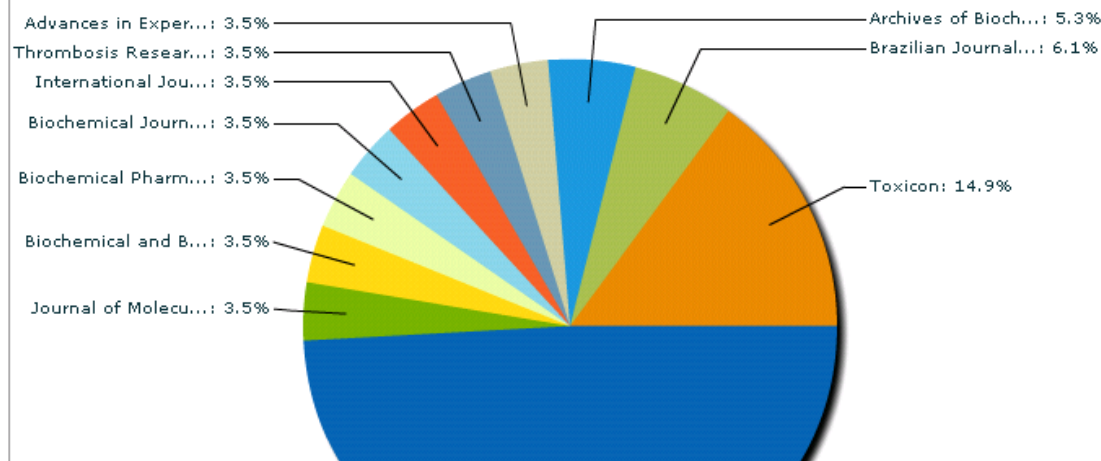
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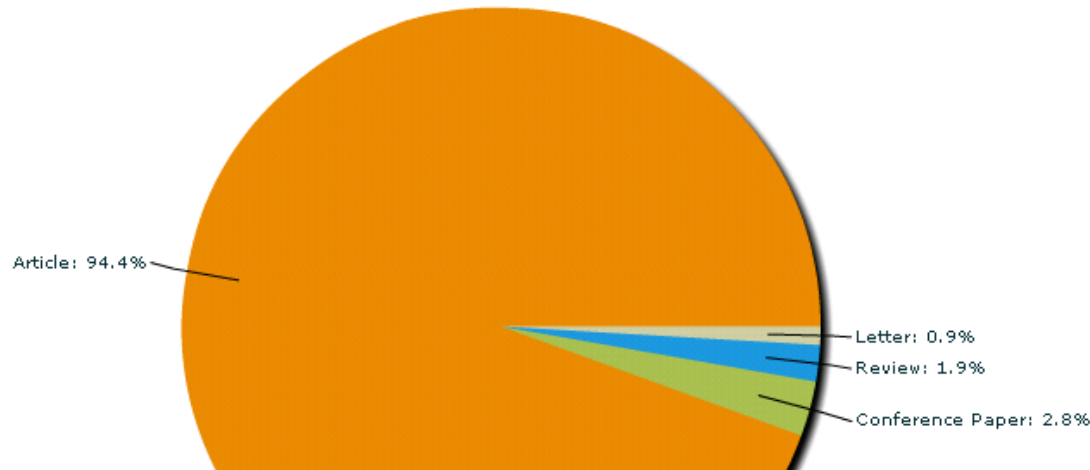
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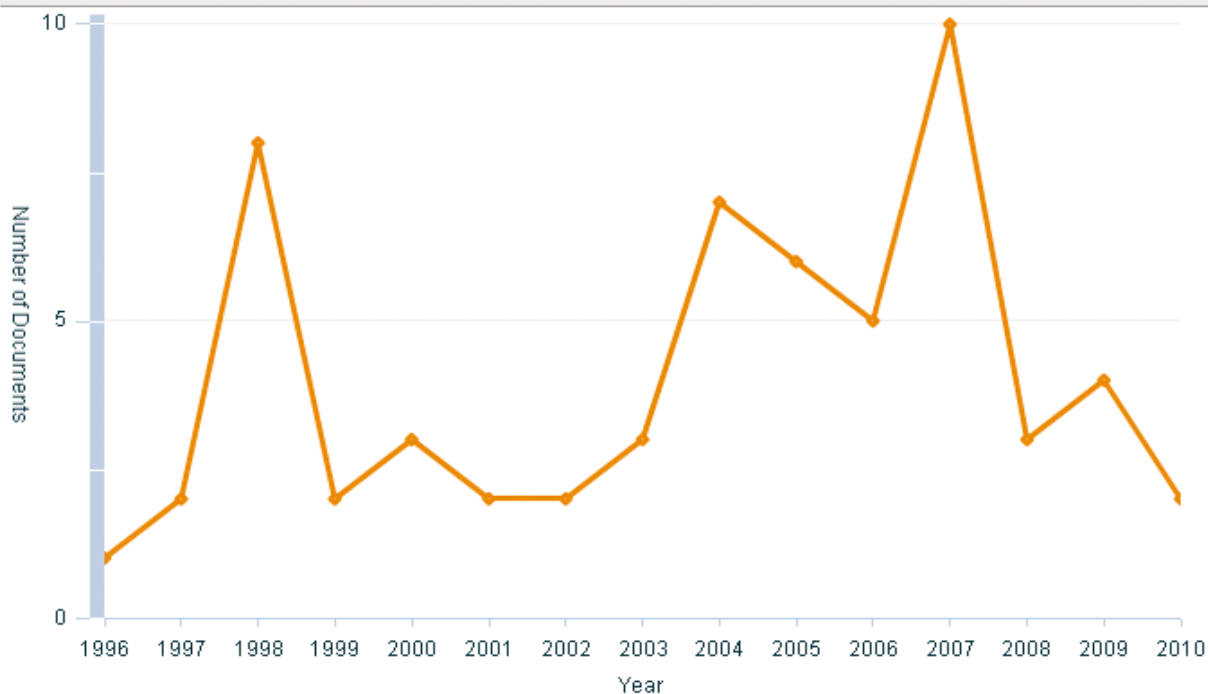
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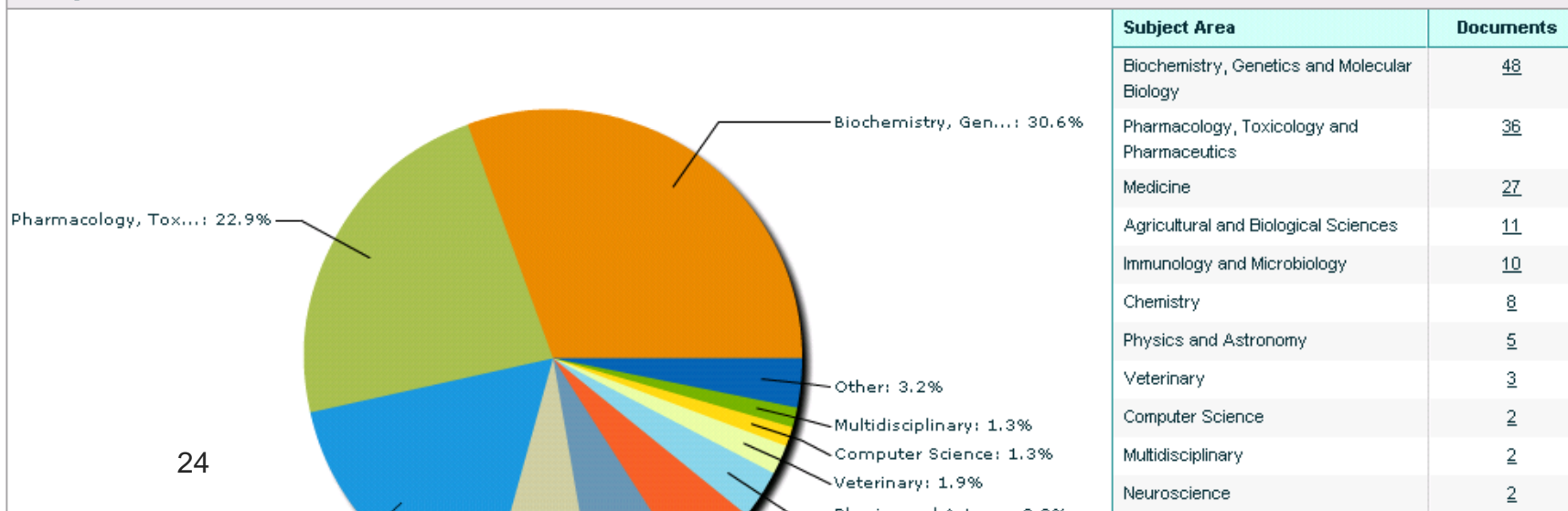
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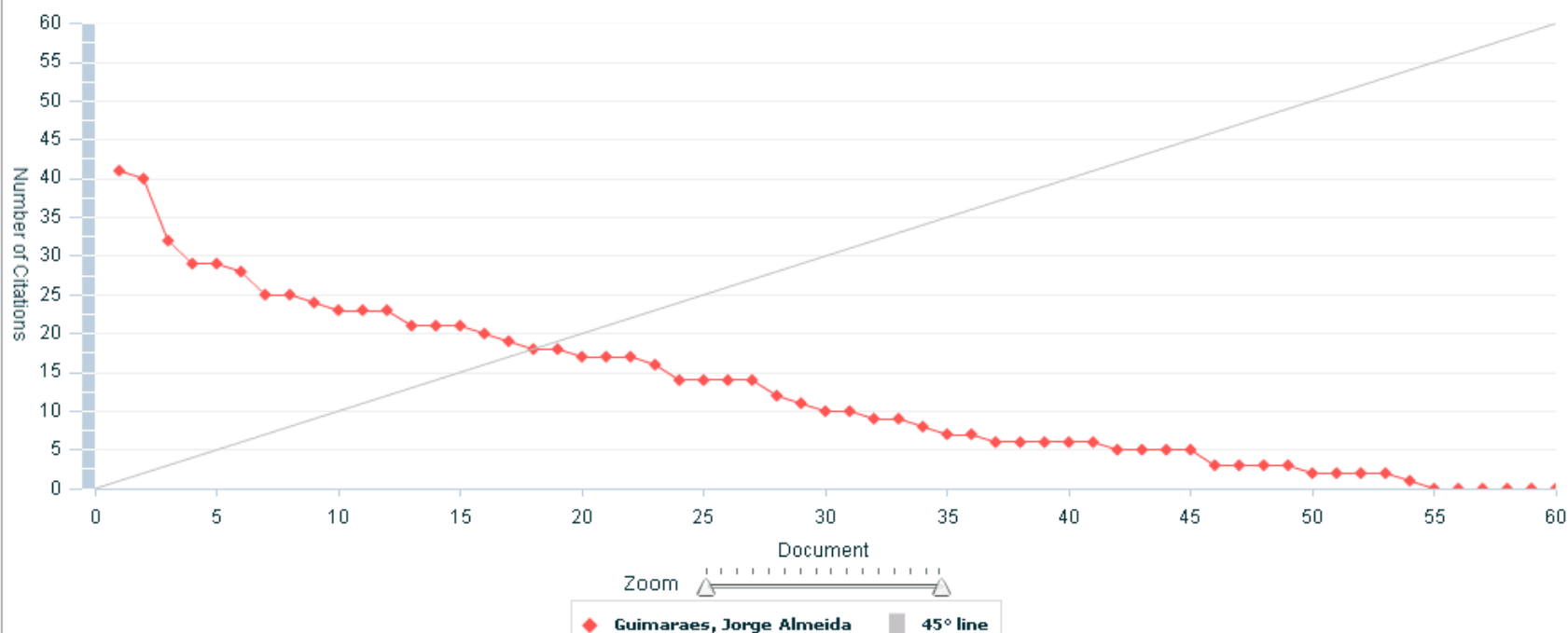
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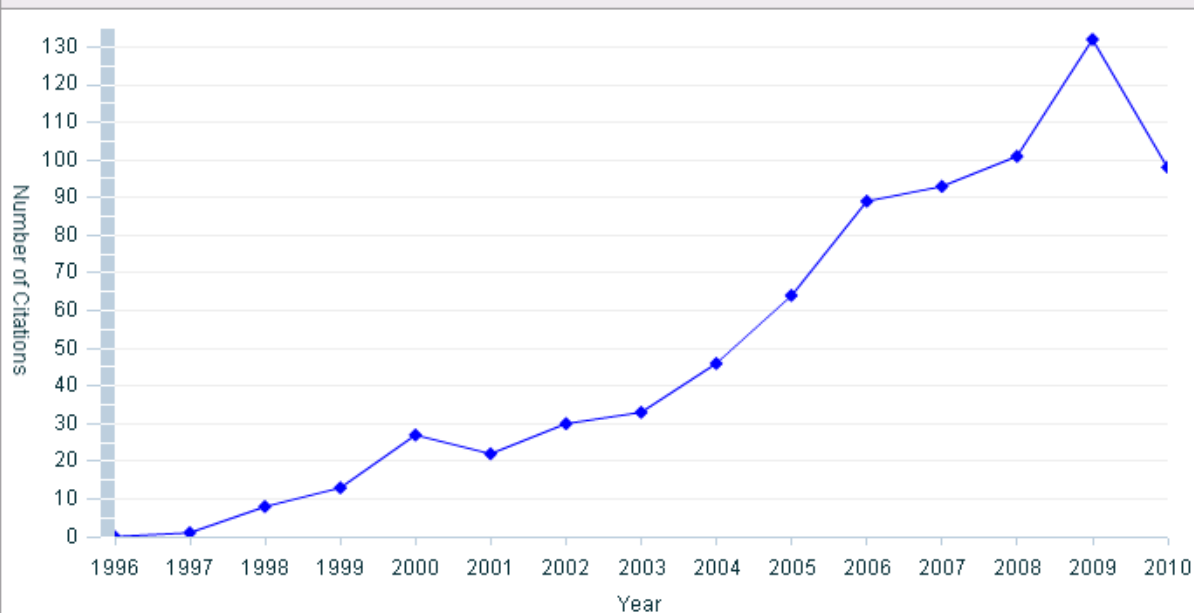
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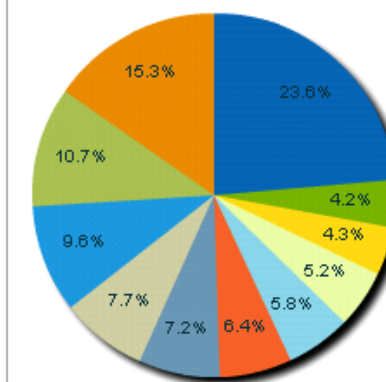
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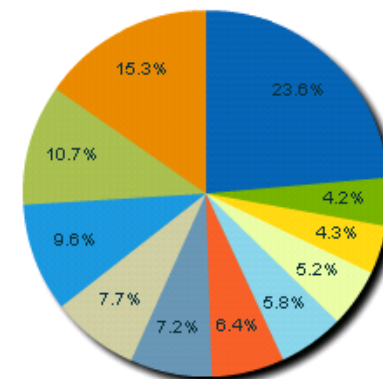
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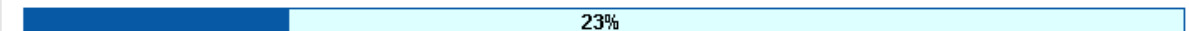
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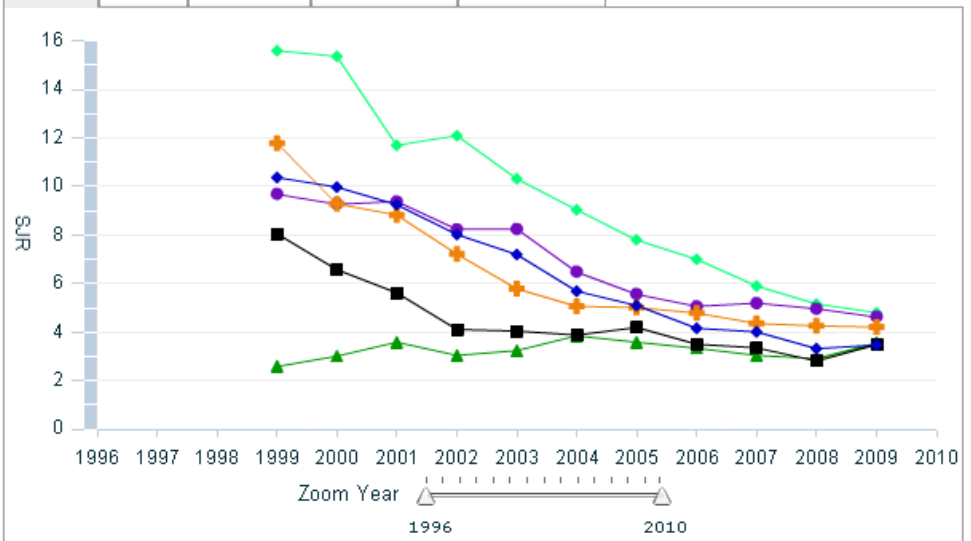
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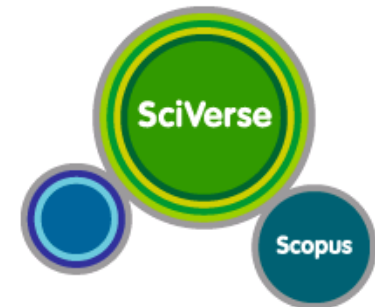
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- Nearly **18,000 titles** from more than **5,000 international publishers**, including coverage of
  - 16,500 peer-reviewed journals (inc > 1,200 Open Access journals)
  - 600 trade publications
  - 350 book series
  - Extensive conference coverage (3.6 million conference papers)
- 40 million records, of which:
  - 20 million records going back to 1996 seeking to capture complete metadata (78% include references)
  - 20 million pre-1996 records captured without references go back as far as 1823.

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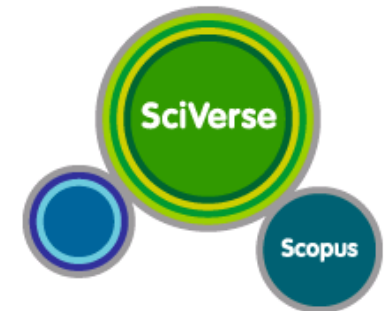
Scopus is the largest abstract and citation database of peer-reviewed literature and quality web sources with smart tools to track, analyze and visualize research.

For an up-to-date list of publishers, see [Latest Features](#)

### Updated

- New journals, including trade publishers, in 2010:
  - 16,500 peer-reviewed journals (inc > 1,200 Open Access journals)
  - 600 trade publications
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