Journal of the Brazilian Chemical Society

edited by

Sociedade Brasileira de Química

http://jbcs.sbq.org.br

J. Braz. Chem. Soc.
O desafio de editar uma revista de Química no Brasil

Prof. Watson Loh – Editor Coordenador
Instituto de Química – UNICAMP
wloh@iqm.unicamp.br

The *Journal of the Brazilian Chemical Society*

embraces all aspects of chemistry except education, philosophy and history of chemistry.

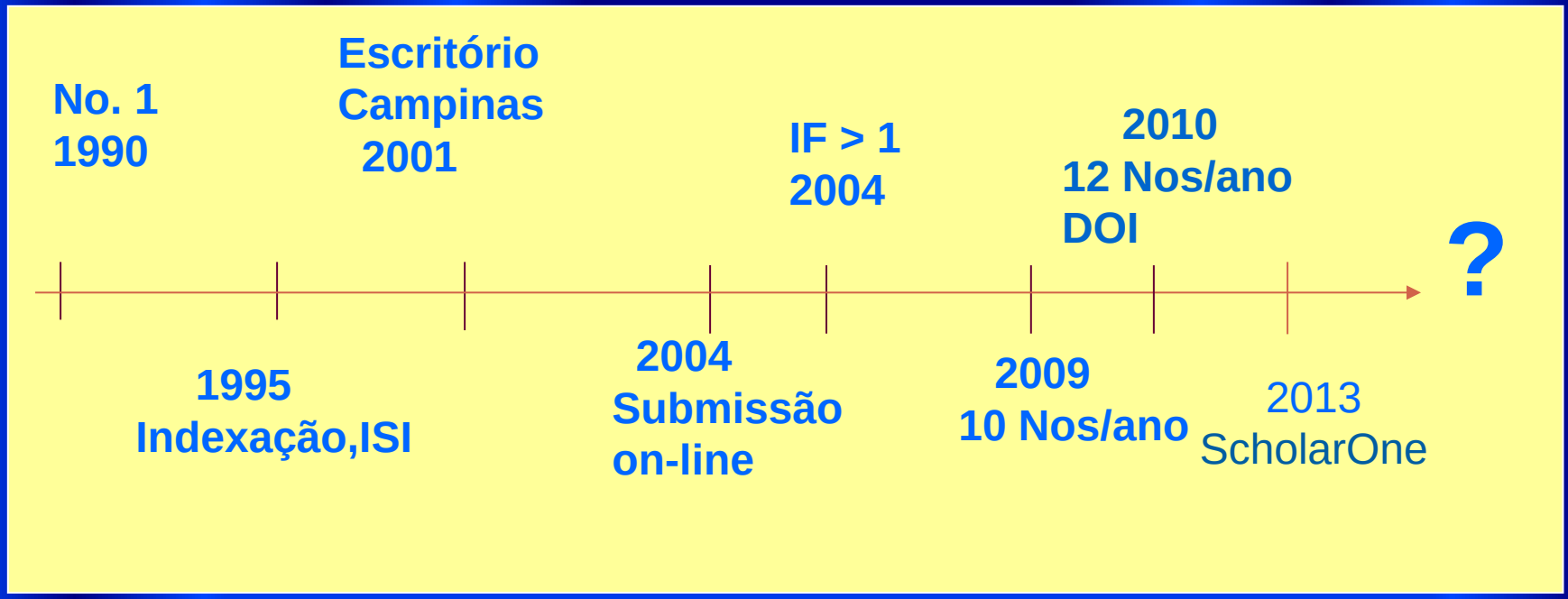
It is a medium for reporting selected original and significant contributions to new chemical knowledge.

The journal publishes Articles, Communications, Short Reports, Reviews and Letters.

Since 1990, the *J. Braz. Chem. Soc.* is the International Journal of the Brazilian Chemical Society - SBQ

Journal of the Brazilian Chemical Society

Linha do tempo



Journal of the Brazilian Chemical Society

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Journal of the Brazilian Chemical Society

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free lancers (formação em Química ou afins)

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Important Facts

Current issue
Indexing Graphical Abstracts (GA)

12 issues/Year

ca. 25 articles/issue

Forthcoming Papers

(assigned a valid DOI)

Thematic and Special Issues

Cover Gallery (Vol 22, 23 and 24_1 - 10)
e-PUB
Vol 24 -1 ao 10

All collection online - valid DOI

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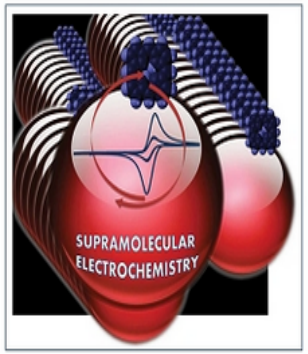
Qualis Capes A2
(Chemistry)

Journal of the Brazilian Chemical Society

vol. 24, No. 8, 2013, p. 1213-1384

Journal of the Brazilian Chemical Society

JBCS



Cover Picture

Nano-Assembled Supramolecular Films from Chitosan-Stabilized Gold Nanoparticles and Cobalt(II) Phthalocyanine

Anna T. B. Silva, Andreane G. Coelho, Lourdes C. da S. Lopes, Marccus V. A. Martins, Frank N. Crespilho, Arben Merkoçi and Welter C. da Silva

ePUB

More info

Journal Impact Factor: Expectations and Hopes

In the modern digital era, June is a month of anxiety for everybody involved with publishing in sciences. June is the moment for divulgation by the Journal Citation Reports of the new impact mfactors and certainly we want to fly to the blue skies. High expectations and hopes may be a source of motivation, but they may act as a nest for frustration and disillusion.

It is important to have quantitative data in science and frequently Lord Kelvin is quoted by stating that "I often say that when you can measure what you are speaking about, and express it in numbers, you know something about it; but when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind; it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of science, whatever the matter may be".

Beginning | Index

Larger Cover

Cover Article

J. Braz. Chem. Soc. **2013**, *24(8)*, 1237-1245

Nano-Assembled Supramolecular Films from Chitosan-Stabilized Gold Nanoparticles and Cobalt(II) Phthalocyanine

Anna T. B. Silva; Andreane G. Coelho; Lourdes C. da S. Lopes; Marccus V. A. Martins; Frank N. Crespilho; Arben Merkoçi; Welter C. da Silva

Journal of the Brazilian Chemical Society

Graphical Abstracts (GA)

From 2005, *J. Braz. Chem. Soc.* publish Graphical Abstracts (GA) as part of the Table of Contents.

The GA should summarise the contents of the paper in a concise, pictorial form designed to capture the attention of a wide readership and for compilation of databases. In the

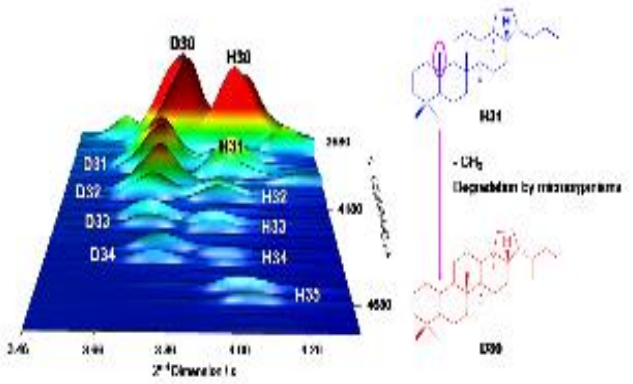
JBCS web page it looks like:

SI online

1570 **Comprehensive Two-Dimensional Gas Chromatography Coupled to Time of Flight Mass Spectrometry: New Biomarker Parameter Proposition for the Characterization of Biodegraded Oil**

SI online

Renata F. Soares, Ricardo Pereira, Raphael S. F. Silva, Leonardo Mogollon and Débora A. Azevedo



Graphical Abstract

Crude oil in subsurface petroleum reservoirs can undergo alteration processes, which results in aerobic and/or anaerobic degradation promoted by microorganisms with sequence removal of saturated hydrocarbons

Journal of the Brazilian Chemical Society

How the paper looks like when published

http://dx.doi.org/10.5935/0103-5053.20130198

J. Braz. Chem. Soc., Vol. 24, No. 10, 1570-1581, 2013.
Printed in Brazil - ©2013 Sociedade Brasileira de Química
0103 - 5053 $6.00+0.00

DOI number

Article

Comprehensive Two-Dimensional Gas Chromatography Coupled to Time of Flight Mass Spectrometry: New Biomarker Parameter Proposition for the Characterization of Biodegraded Oil

Renata F. Soares,*[a] Ricardo Pereira,[a] Raphael S. F. Silva,[a] Leonardo Mogollon[b] and Débora A. Azevedo*[a]

[a]*Instituto de Química, Universidade Federal do Rio de Janeiro, Ilha do Fundão, 21941-909 Rio de Janeiro-RJ, Brazil*

[b]*Instituto Colombiano del Petroleo, ECOPETROL S. A., Bucaramanga, Colombia*

Cromatografia gasosa bidimensional abrangente acoplada à espectrometria de massas por tempo de voo (GC×GC-TOFMS) é uma técnica apropriada para a elucidação da composição molecular de amostras petroquímicas, como óleos biodegradados. Biomarcadores foram separados, identificados e razões de biomarcadores convencionais foram determinados usando cromatografia gasosa acoplada à espectrometria de massas (GC-MS) e GC×GC-TOFMS. No cromatograma de íons extraídos *m/z* 123 + 177 + 191, coeluições entre terpanos tricíclicos, hopanos e 25-*nor*-hopanos com secohopanos foram resolvidas usando GC×GC-TOFMS. GC×GC-TOFMS permitiu a identificação da série completa dos 25-*nor*-hopanos, *nor*-gamacerano, C_{29} 28-*nor*-espergulano e oleanano, que não foram identificados por GC-MS. A avaliação dos parâmetros geoquímicos dos óleos estudados indicou uma origem marinha e um ambiente deposicional sob condições anóxicas. A alta resolução cromatográfica e sensibilidade alcançada usando GC×GC-TOFMS permitiram sugerir três novos parâmetros geoquímicos para a caracterização de óleos altamente biodegradados. Estes resultados demonstram a superioridade da técnica GC×GC-TOFMS na separação e identificação de compostos individuais e não-alvos em óleos severamente biodegradados.

Comprehensive two-dimensional gas chromatography with time of flight mass spectrometry (GC×GC-TOFMS) is an appropriate technique for the elucidation of molecular composition of petrochemical samples, such as biodegraded oils. Biomarkers were separated and identified, and conventional biomarker ratios were determined via gas chromatography-mass spectrometry (GC-MS) and GC×GC-TOFMS. In the extracted ion chromatogram *m/z* 123 + 177 + 191, coelutions between tricyclic terpanes, hopanes and 25-*nor*-hopanes with secohopanes were resolved by GC×GC-TOFMS. GC×GC-TOFMS allowed the identification of complete series of 25-*nor*-hopanes, *nor*-gammacerane, C_{29} 28-*nor*-spergulanes and oleanane not identified by using GC-MS. The biomarker ratios from the studied oils indicated that they derived from marine source rock deposited under anoxic conditions. The higher chromatographic resolution and sensitivity achieved by using GC×GC-TOFMS allowed for three new parameters to characterize biodegraded oils. These results indicated the superiority of GC×GC-TOFMS for separation and identification of individual and non-target compounds in severely biodegraded oils.

Keywords: heavily biodegraded oils, biomarker, geochemical parameters, comprehensive two-dimensional gas chromatography, time of flight mass spectrometry

Submission online (ScholarOne)

- Forthcoming Papers
- Forthcoming Papers XIX SIBEE
- Current Issue
- Past Issues
- Statistics
- Cover Gallery/ePUB
- Ethical Guides

Most Highly Cited Articles (1995-2012) Web of Science - Oct/2013

1. **Transesterification of vegetable oils: a review**
Schuchardt, U; Sercheli, R; Vargas, RM; 9 (3), 199-210 1998
Times Cited: 397

2. **On the solid, liquid and solution structural organization of imidazolium ionic liquids**
Dupont, J; 15 (3), 341-350 2004
Times Cited: 380

3. **The chemistry of isatins: a review from 1975 to 1999**
da Silva, JFM; Garden, SJ; Pinto, AC; 12 (3), 273-U86 2001
Times Cited: 340

4. **Biodiesel: An overview**
Pinto, AC; Guarieiro, LLN; Rezende, MJC, et al., 16 (6B), 1313-1330 2005
Times Cited: 288

5. **Chiral Lewis acid catalysts in Diels-Alder cycloadditions: Mechanistic aspects and synthetic applications of recent systems**

COVER GALLERY

2013

ePUB More info **Vol. 24, N.10** | ePUB More info **Vol. 24, N.9** | ePUB More info **Vol. 24, N.8** | ePUB More info **Vol. 24, N.7** | ePUB More info **Vol. 24, N.6** | ePUB More info **Vol. 24, N.5**

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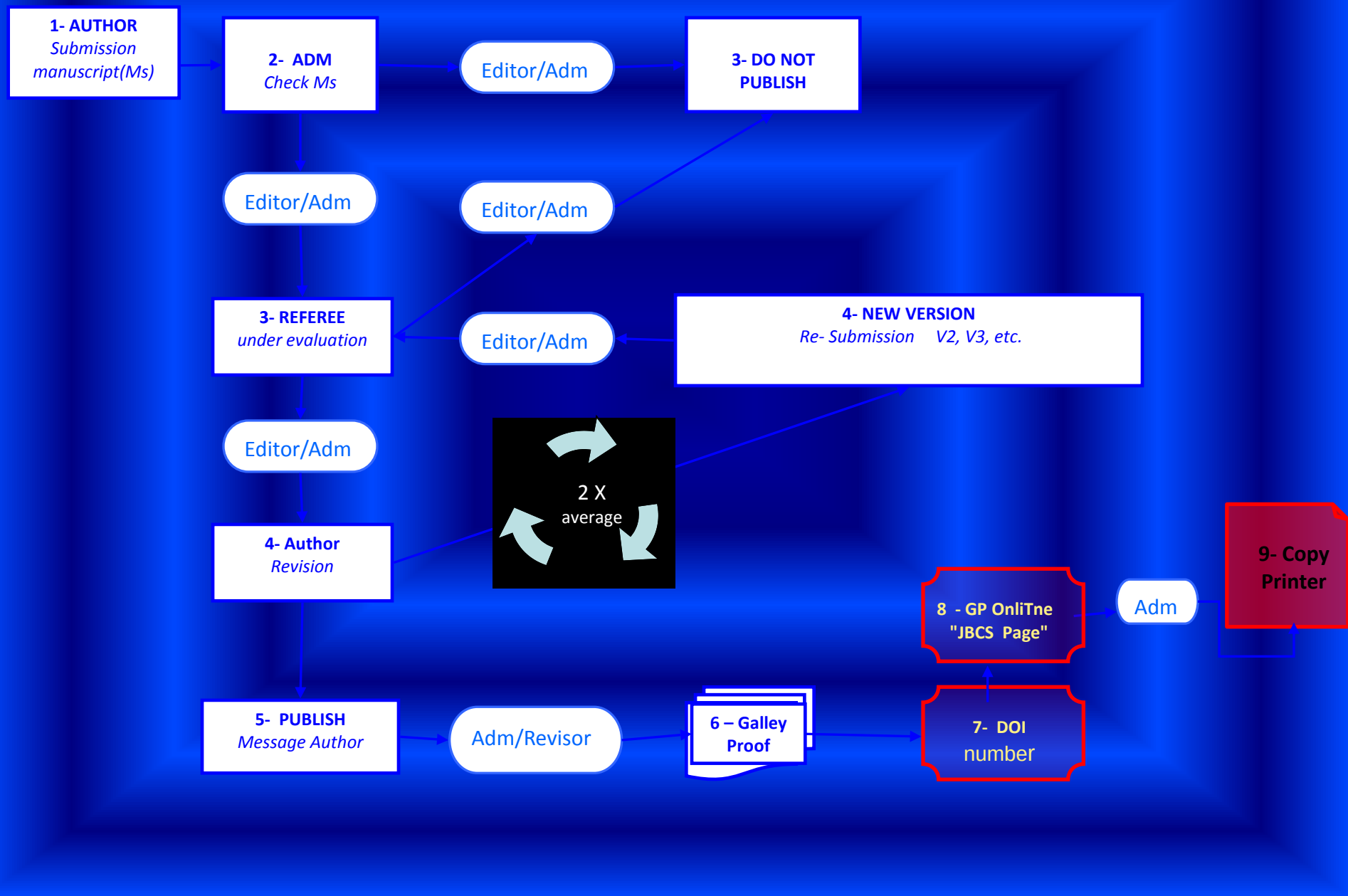
2012

Vol. 23, N.12 | **Vol. 23, N.11** | **Vol. 23, N.10** | **Vol. 23, N.9** | **Vol. 23, N.8** | **Vol. 23, N.7**

Reviewing process
5 months



Referees: choosing, function and decision

The Editors seek the advice of experts in the research areas of the submitted typescripts (from authors indication with no conflict of interests, references cited and ISI-Web-of-Science information).

Appropriate authors´ suggestions (*good ones !*) are encouraged and welcome !

Referees should estimate the scientific value of the work and also indicate whether the writing is clear and concise.

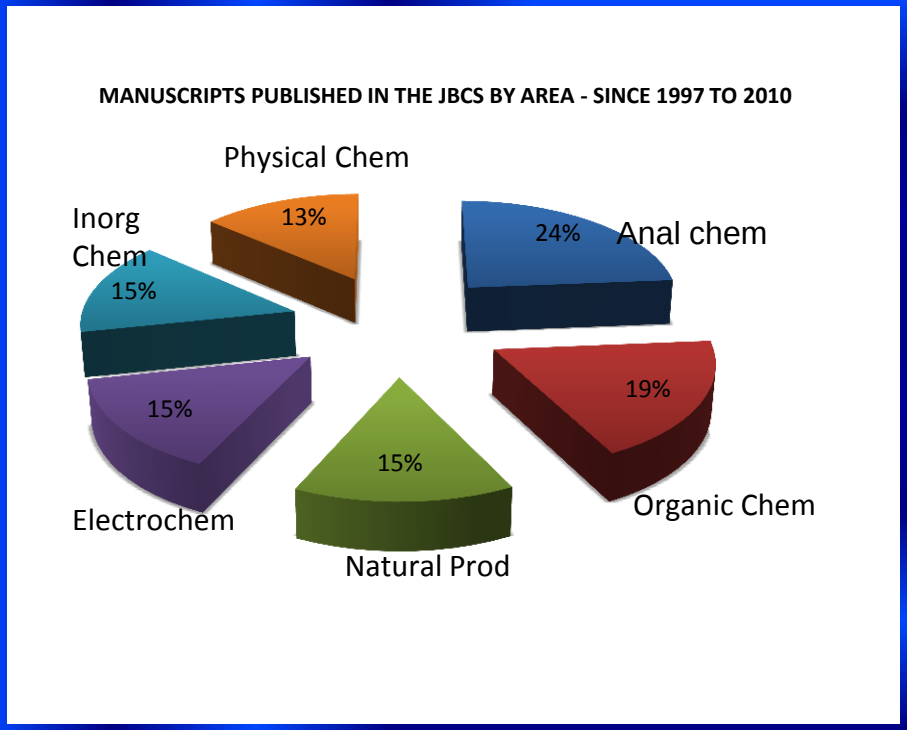
Invitation: We would appreciate having your comments returned to us within 21 days of receipt. If you expect to take significantly longer to evaluate this manuscript or if you feel that the paper in question is outside your specialist area, please DECLINE on-line, for reassignment as quickly as possible. It may be helpful if you can suggest an alternative referee.

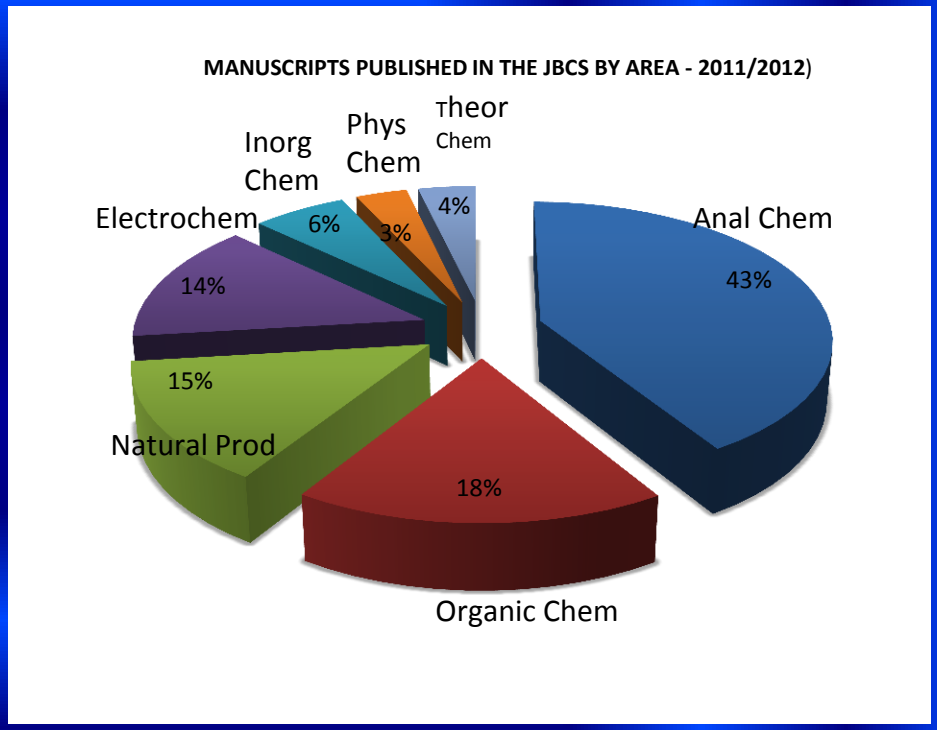
The recommendations from the referees may not always be followed by the Editor who accepts full responsibility for decisions about typescripts.

Authors have the right to appeal to the Editor-in-Chief if they regard a decision to reject as unfair.

JBCS Statistics

Distribution of the published manuscripts according to subject, until 2010 (left) and in 2012 (right)





SJR SCImago Journal & Country Rank

Journal Rankings - Chemistry Journals

	Title	SJR	H index	Total Docs. (2012)	Total Docs. (3years)	Total Refs.	Total Cites (3years)	Citable Docs. (3years)	Cites / Doc. (2years)	Ref. / Doc.	Country
274	Bulletin of the Chemical Society of Japan	0,595	69	160	578	8.135	787	577	1,33	50,84	
275	European Journal of Mass Spectrometry	0,520	30	54	197	2.191	228	192	1,32	40,57	
276	Propellants, Explosives, Pyrotechnics	0,558	33	90	216	2.268	326	210	1,32	25,20	
277	Journal of Porous Materials	0,444	31	174	279	5.596	357	265	1,32	32,16	
278	Reviews in Inorganic Chemistry	0,242	13	2	37	419	28	35	1,31	209,50	
279	Bioscience, Biotechnology and Biochemistry	0,499	71	445	1.480	12.296	2.086	1.472	1,31	27,63	
280	Journal of the Brazilian Chemical Society	0,416	40	289	883	10.056	1.258	844	1,31	34,80	
281	Science C[illegible]try	0,389	20	380	939	16.021	1.094	908	1,30	42,16	
282	Chemistry Education Research and Practice	0,888	12	55	112	2.540	135	109	1,29	46,18	
283	Journal of Chemical Sciences	0,407	29	158	335	6.034	413	324	1,29	38,19	
284	Annual Reports in Computational Chemistry	0,807	13	7	37	727	66	33	1,28	103,86	
285	Chinese Chemical Letters	0,387	22	363	1.172	6.381	1.416	1.168	1,28	17,58	
286	Journal of Heterocyclic Chemistry	0,428	42	234	714	7.749	887	702	1,27	33,12	
287	Atomic Spectroscopy	0,386	23	32	97	949	114	97	1,25	29,66	
	Digest Journal of										

view journal details

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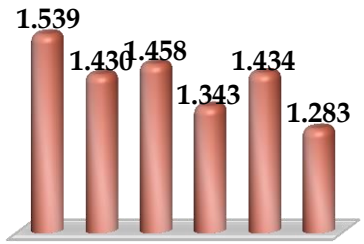
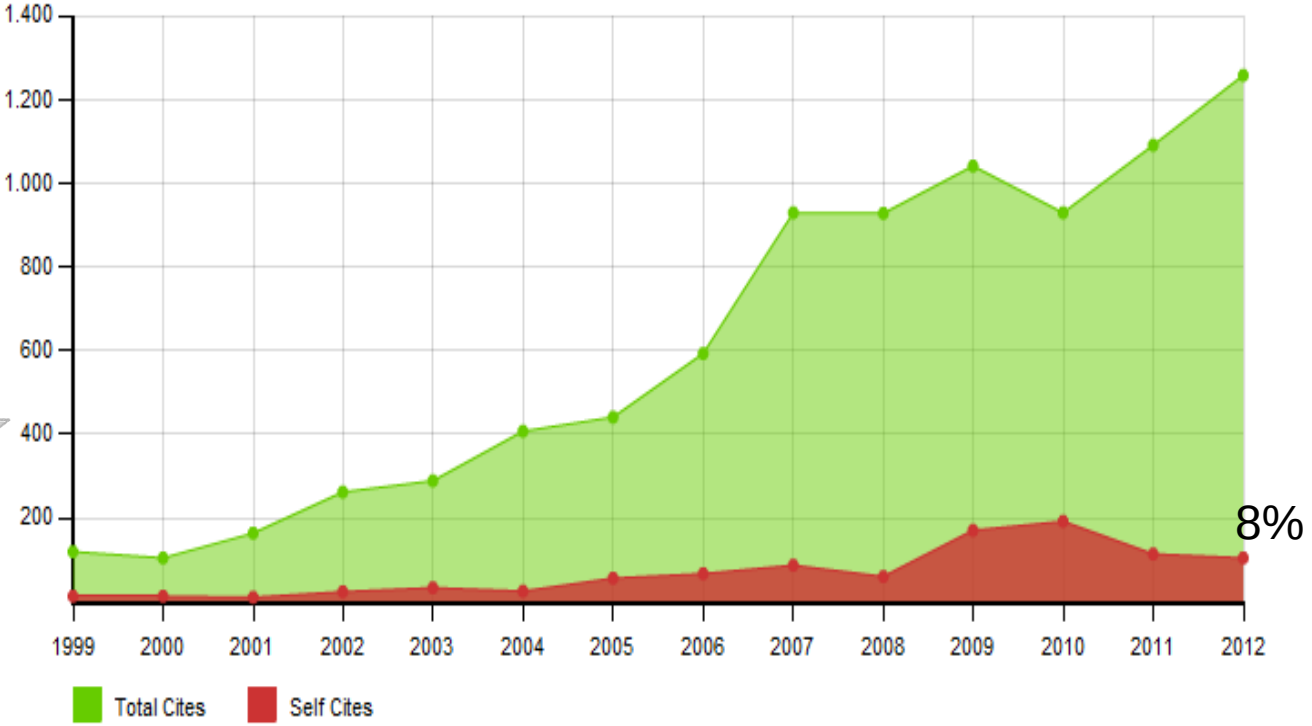
The SJR indicator measures the scientific influence of the average article in a journal, it expresses how central to the global scientific discussion an average article of the journal is. Cites per Doc. (2y) measures the scientific impact of an average article published in the journal, it is computed using the same formula that journal impact factor ™ (Thomson Reuters).

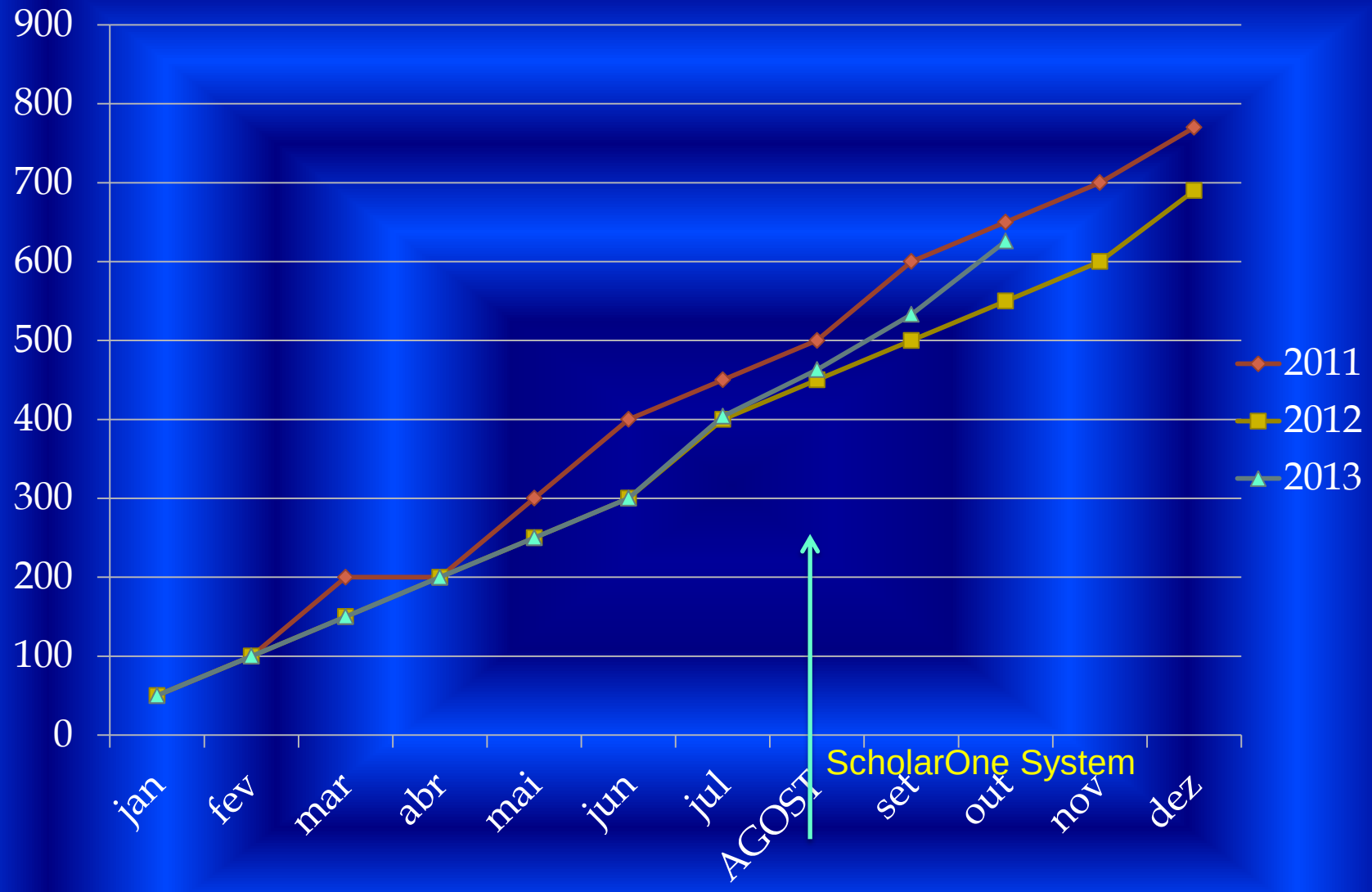
JBCS Impact Factor Evolution



Citation vs. Self-Citation



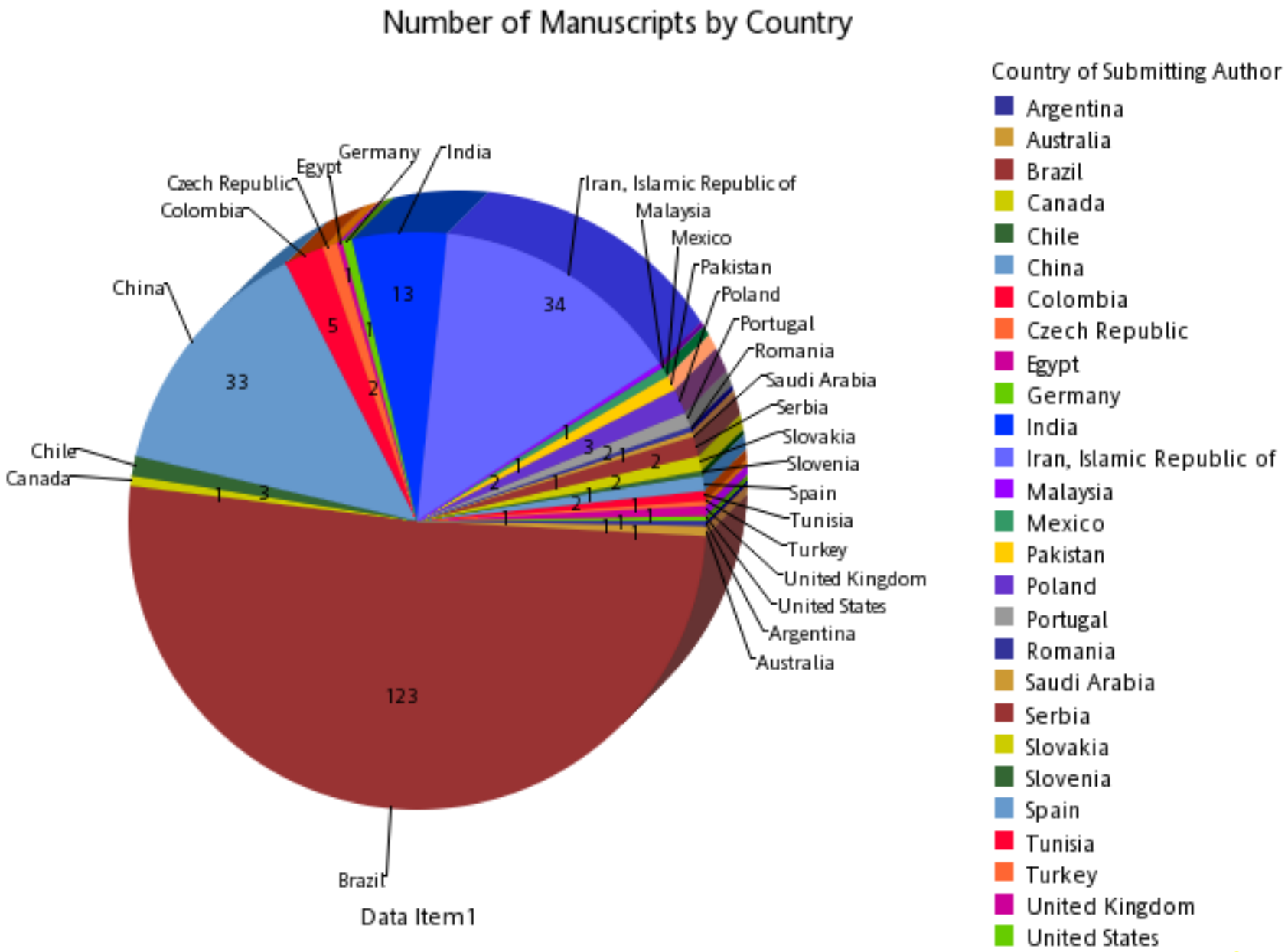
8%

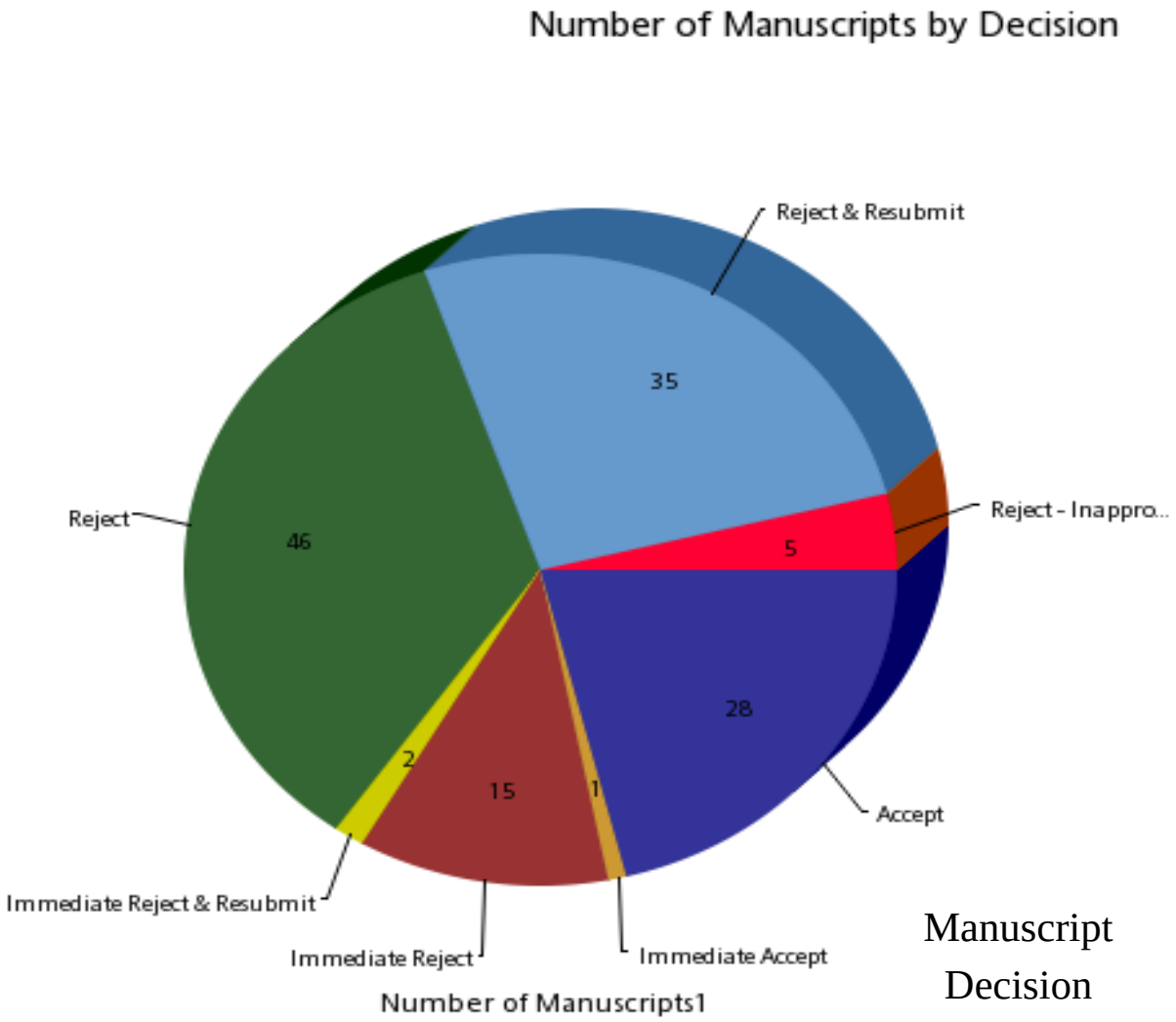


Ms. submitted – Jan – Oct/ 2013 = 620

ScholarOne
Jul – Oct 2013

RECEIVED - Total manuscripts = 240





Manuscript Decision	Number of Manuscripts	Percentage of Total
Accept	29	22,0 %
Reject	66	50,0 %
Others	37	28,0 %
Total	132	100%

Main causes of rejection of the manuscripts/JBCS :

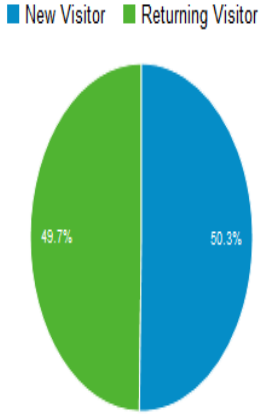
- Refusal by the Editor (without sending to referees)
- Out of scope (very specific, technological, not enough Chemistry) Only reporting data (without discussion/analysis)
- Repetition of similar study, without important novelty (striping of articles)
- Outside the formal standard (language, standards JBCS)
- Copy/plagiarism (self and others ...)
- Manuscripts without Supplementary Information, mandatory for syntheses of new compounds
- Low quality or relevance (novelty)

Visitas ao nosso site abril – out 2013 por País

26.198 pessoas acessaram esse site

Visitas	Visitantes únicos	Visualizações de página	Páginas/visita	Duração média da visita
49.651	26.198	117.650	2,37	00:02:44

Taxa de rejeição	Porcentagem de novas visitas
54,18%	50,18%



Informações demográficas

- Idioma
- País/território
- Cidade

Sistema

- Navegador
- Sistema operacional
- Provedor de serviços

Celular

- Sistema operacional
- Provedor de serviços
- Resolução de tela

	País/território	Visitas	Porcentagem de Visitas
1.	Brazil	28.598	57,60%
2.	India	2.962	5,97%
3.	Iran	2.651	5,34%
4.	China	2.281	4,59%
5.	United States	1.826	3,68%
6.	Colombia	620	1,25%
7.	Portugal	575	1,16%
8.	Turkey	536	1,08%
9.	Germany	535	1,08%
10.	Japan	514	1,04%

visualizar relatório completo

Visitas por cidades

Informações demográficas

Idioma

País/território

Cidade

Sistema

Navegador

Sistema operacional

Provedor de serviços

Celular

Sistema operacional

Provedor de serviços

Resolução de tela

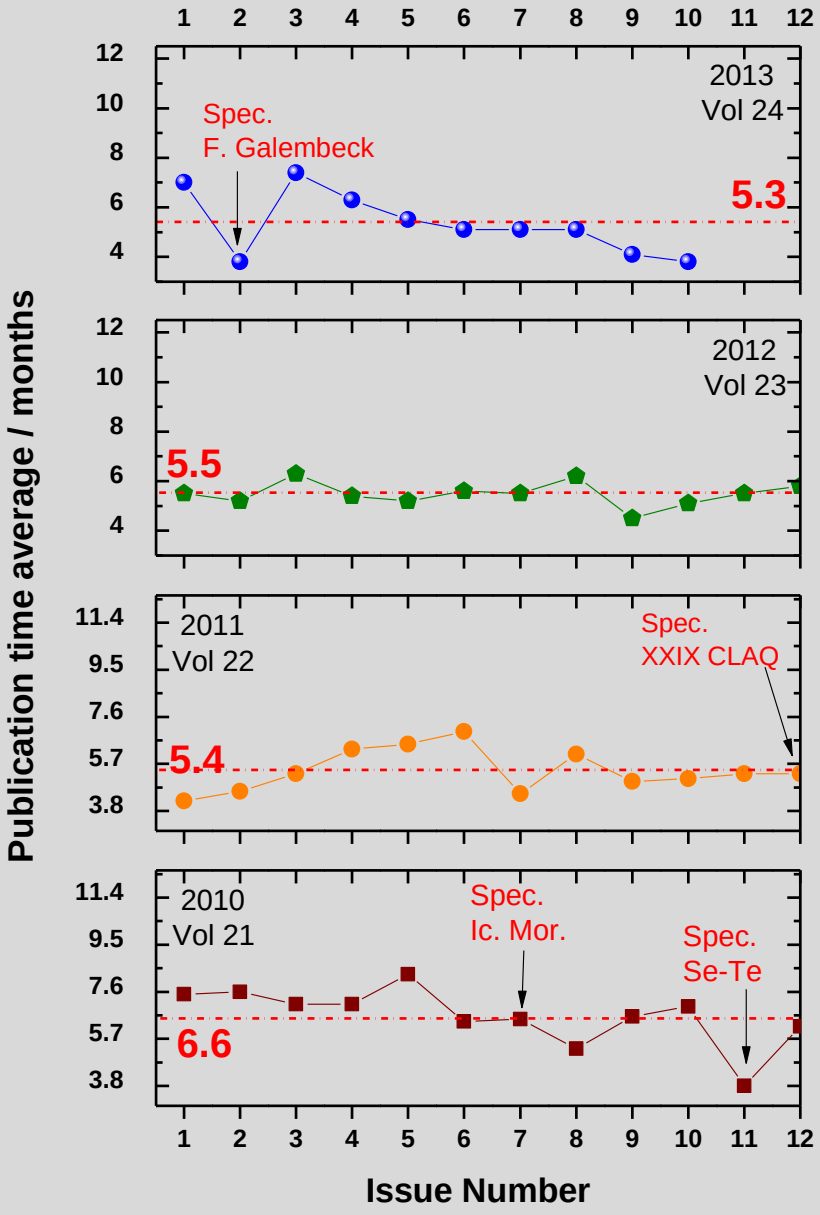
Cidade	Visitas	Porcentagem de Visitas
1. Campinas	3.691	7,43%
2. Sao Paulo	2.200	4,43%
3. Sao Carlos	1.921	3,87%
4. Rio de Janeiro	1.823	3,67%
5. (not set)	1.575	3,17%
6. Maringa	1.184	2,38%
7. Belo Horizonte	1.110	2,24%
8. Florianopolis	1.088	2,19%
9. Porto Alegre	887	1,79%
10. Recife	827	1,67%

visualizar relatório completo

* Mar/2013 - Nova página ≠ Julho/2013 - Site ScholarOne

Duração da Visita		Visita	Visualização da Visita
0-10 segundos			
01/03/2013 - 30/06/2013	*	17.508	19.610
01/07/2011 - 31/10/2013	≠	47.245	52.779
11-30 segundos			
01/03/2013 - 30/06/2013	*	1.851	4.506
01/07/2011 - 31/10/2013	≠	4.853	11.946
31-60 segundos			
01/03/2013 - 30/06/2013	*	1.657	4.902
01/07/2011 - 31/10/2013	≠	4.440	13.120
61-180 segundos			
01/03/2013 - 30/06/2013	*	2.866	10.876
01/07/2011 - 31/10/2013	≠	7.699	28.621
181-600 segundos			
01/03/2013 - 30/06/2013	*	2.559	12.621
01/07/2011 - 31/10/2013	≠	6.955	33.416
601-1800 segundos			
01/03/2013 - 30/06/2013	*	1.762	10.439
01/07/2011 - 31/10/2013	≠	4.923	29.040
1801+ segundos			
01/03/2013 - 30/06/2013	*	399	4.841
01/07/2011 - 31/10/2013	≠	1.358	23.502

Este relatório foi gerado em 05/11/13 às



Average time of Publication per Issue in last 4 years

Average time of Publication:

from submission until online.

Quanto custa a revista ?

- **Estimativa de despesas/ Anual:**

Produção Editorial: **média R$ 200.000,00 (gráfica, diagramação, sistemas online,etc)**

Serviço de Terceiros: média R$ 90.000,00 (revisoras de normas, tradução editorial)

SBQ - Funcionários e Infraestrutura do escritório em Campinas: R$ 50.000,00

- **Receitas**:

FAPESP - média R$ 250 mil/2 anos ,
CNPq - média RS 150 mil/ ano,
NE´s, e contribuições de autores - média R$ 50 mil/ano

Desafios para futuro

- Otimização custos - redução impressão (SBQ)
- Integração com outras revistas do sistema SBQ/BR (SBQEdit)
- Qualidade vs quantidade
- Internacionalização qualificada
- Conquista jovens pesquisadores
- Continuar progredindo...

Quim. Nova, Vol. 33, No. 2, 243, 2010

HÁ FUTURO PARA AS REVISTAS DAS SOCIEDADES CIENTÍFICAS?

Mesmo após várias tentativas de conglomerados internacionais de adquirirem o controle do *Journal of the Brazilian Chemical Society*, as revistas da SBQ continuam de acesso livre na rede tanto no site da SBQ, como no portal Scielo, por entendermos que esta política é inteiramente compatível com o processo rigoroso de avaliação pelos pares e os autores de artigos cedem os direitos autorais de seus trabalhos para a SBQ.

Finalizando, destacamos três parágrafos do editorial da SBF: "Aqui no Brasil os químicos resistem, prestigiam as suas revistas"; "Mas os químicos continuam no SCIELO, e se orgulham do apoio às suas revistas, o *Journal of the Brazilian Chemical Society*, com índices de impacto entre 1 e 1.5, e *Química Nova*, publicada quase exclusivamente em português, que já atingiu índices bem mais expressivos do que o *BJP*" e "Qual a mágica dos químicos para apoiar as publicações nacionais?";

Susana I. Córdoba de Torresi
Vera L. Pardini
Vitor F. Ferreira
Editores de QN
Jailson B. de Andrade
Editor do JBCS

Brazilian Journal of Physics

Main editor: L.N. Oliveira

ISSN: 0103-9733 (print version)
ISSN: 1678-4448 (electronic version)

Journal no. 13538

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Springer adds Brazilian Journal of Physics to publishing program

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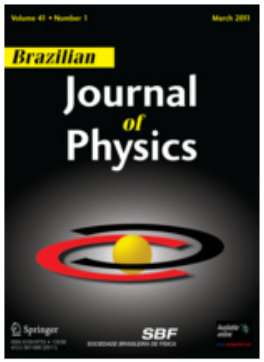

Springer and the Brazilian Physical Society (SBF) will collaborate to publish the society's official publication, the *Brazilian Journal of Physics*, beginning in 2011. The journal presents cutting-edge research on many topics in physics, from scientists based in Brazil and around the world.

Founded in 1971, the *Brazilian Journal of Physics* is a peer-reviewed international journal, which publishes new and original research results from all areas of physics. Contents include theoretical, practical and experimental papers as well as high-quality review papers. Besides four regular issues per year, the journal also presents special reviews focusing on hot topics which are particularly relevant in Brazil. Antonio Sergio Teixeira Pires of the Universidade Federal de Minas Gerais in Belo Horizonte, Brazil, is editor-in-chief.

Authors submitting papers to the *Brazilian Journal of Physics* will benefit from the international network of reviewers established by the Brazilian Physical Society. In addition to

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