

CITATION OF THE SERBIAN ASTRONOMICAL JOURNAL IN THE PERIOD 2007-2009

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(Received: January 15, 2010)

SUMMARY: This editorial provides results of research on the Serbian Astronomical Journal citation. We give full information on citation for the last three years, and the impact factors calculated for the period 2003-2009.

Key words. Publications, bibliography – Sociology of Astronomy – Astronomical databases: miscellaneous.

1. INTRODUCTION

This is the second in a series of papers conceived with an idea to continuously track and provide information on the Serbian Astronomical Journal citation (see Arbutina 2007). We give full citation information for the last three years, and the impact factors calculated for the period 2003–2009.

The main sources that have been used in preparing this paper are Thomson Reuters Institute for Scientific Information (ISI) Web of Science and Science Citation Index (SCI) database (<http://isiknowledge.com/>), Astrophysics Data System (ADS) at Harvard (<http://adswww.harvard.edu/>), Elsevier's database Scopus (<http://www.scopus.com/>), Serbian Astronomical Journal archive (<http://saj.matf.bg.ac.rs/>) and SCIndeks (Serbian Citation Index) (<http://scindeks.nb.rs/>).

2. CITATION

In this section we present the results of a research on the Serbian Astronomical Journal (SerAJ) citation. SerAJ is published semiannually by the Astronomical Observatory and the Department of Astronomy, Belgrade, Serbia. It publishes invited reviews, original scientific papers, preliminary reports, and professional papers over the entire range of astronomy, astrophysics, and related fields.

We have omitted citation record for the period 2003–2006 since it can be found in Arbutina (2007).¹ Thus, in the following we give only citation information for 2007, 2008 and 2009, which is necessary to calculate the impact factor (cites to articles published in the last two years; see the definition of impact factor below). References for articles that cite and the articles being cited are both included.

¹There are two incorrect citations that have therefore been missed previously:
Caimmi and Marmo (2005) → Caimmi and Marmo (2004)
Caimmi (2006b) → Caimmi et al. (2005)

Table 1. Number of articles published in the Serbian Astronomical Journal (SerAJ), number of cites to articles published in SerAJ (self cites and other cites) and corresponding impact factors (IF) for years 2003–2009.

Year (y)	No. of articles in		Cites to articles from				IF	
	$y - 1$	$y - 2$	$y - 1$		$y - 2$			
			Other cites	Self cites	Other cites	Self cites		
2003	8	16	0	3	2	2	7/24	0.292
2004	26	8	3	9	1	0	13/34	0.382
2005	17	26	5	4	5	0	14/43	0.326
2006	21	17	2	4	1	2	9/38	0.237
2007	19	21	2	6	6	2	16/40	0.400
2008	18	19	5	4	10	5	24/37	0.649
2009	23	18	15	11	7	2	35/41	0.854

2007

Andić (2007) → Andić (2006)
 Woodley et al. (2007) → Samurović (2006)
 Tommei et al. (2007) → Rossi (2005)
 Feltzing et al. (2007) → Danilović et al. (2005)
 Lampens et al. (2007) → Pavlović et al. (2005)
 Trimble et al. (2007) → Grubor et al. (2005)
 Zigman et al. (2007) → Grubor et al. (2005)
 Mouret et al. (2007) → Kovačević and Kuzmanoski (2005)
 Ilić (2007) → Popović (2006)
 Caimmi (2007) → Caimmi (2006a)
 Samurović (2007a) → Samurović (2006)
 Samurović (2007b) → Samurović (2006)
 Cvetković et al. (2007) → Cvetković et al. (2006)
 Cvetković et al. (2007) → Pavlović et al. (2005)
 Zboril (2007) → Zboril and Djurašević (2006)
 Zboril (2007) → Zboril (2005)

2008

Mota (2008) → Caimmi (2007)
 Cvetković and Ninković (2008) → Cvetković et al. (2007)
 Pavlović and Guzzo (2008) → Pavlović (2007)
 Popović et al. (2008) → Ilić (2007)
 Ćirković and Vukotić (2008) → Vukotić and Ćirković (2007)
 Popović et al. (2008) → Popović (2006)
 Cvetković et al. (2008) → Cvetković and Novaković (2006)
 Prieur et al. (2008) → Cvetković and Novaković (2006)
 Tokovinin and Cantarutti (2008) → Cvetković and Novaković (2006)
 Hartkopf et al. (2008) → Cvetković and Novaković (2006)
 Mason et al. (2008) → Novaković and Todorović (2006)
 Gustafsson (2008) → Ninković and Trajkovska (2006)

Nishijima et al. (2008) → Shanmugavel et al. (2006)
 Damljanović (2008) → Damljanović et al. (2006)
 Damljanović (2008) → Damljanović and Pejović (2006)
 Caimmi (2008) → Caimmi (2007)
 Lalović and Ćirković (2008) → Ninković (2007)
 Vukotić and Ćirković (2008) → Vukotić and Ćirković (2007)
 Shanmugavel et al. (2008) → Shanmugavel et al. (2006)
 Samurović and Ćirković (2008) → Samurović (2006)
 Caimmi and Valentinuzzi (2008) → Caimmi (2006a)
 Caimmi and Valentinuzzi (2008) → Caimmi (2007)
 Andić (2008) → Andić (2006)
 Damljanović and Pejović (2008) → Damljanović et al. (2006)

2009

Caimmi (2009a) → Caimmi (2007)
 Urošević et al. (2009) → Urošević et al. (2007)
 Rampadarath et al. (2009) → Zakharov (2007)
 Vukotić et al. (2009) → Urošević et al. (2007)
 Vukotić et al. (2009) → Payne et al. (2008a)
 Vukotić et al. (2009) → Payne et al. (2008b)
 Viswanathan et al. (2009) → Shanmugavel et al. (2008)
 Filipović et al. (2009) → Crawford et al. (2008a)
 Filipović et al. (2009) → Crawford et al. (2008b)
 Filipović et al. (2009) → Payne et al. (2008a)
 Filipović et al. (2009) → Payne et al. (2008b)
 Zboril and Messina (2009) → Zboril (2007)
 Kowalski et al. (2009) → Ivezić et al. (2008)
 Kimball et al. (2009) → Ivezić et al. (2008)
 Fitzsimmons (2009) → Ivezić et al. (2008)
 Gaskell (2009) → Bon (2008)
 Freeman et al. (2009) → Ivezić et al. (2008)
 Ćirković et al. (2009) → Vukotić and Ćirković (2007)
 Ćirković et al. (2009) → Vukotić and Ćirković (2008)
 Bon et al. (2009a) → Bon (2008)
 Bon et al. (2009b) → Bon (2008)

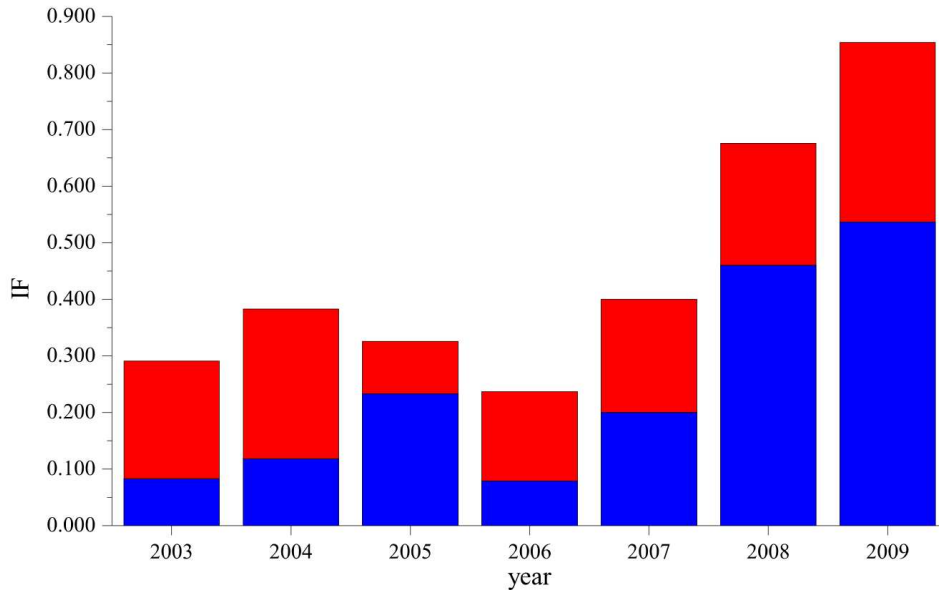


Fig. 1. Impact factors (IF) for the Serbian Astronomical Journal (SerAJ), for years 2003–2009. Lower bar gives the impact factor calculated by using only the cites from the journals in the ISI list (IF*), and the upper bar adds the self cites.

Paraficz and Hjorth (2009) → Ivezic et al. (2008)
 Ćirković (2009) → Vukotić and Ćirković (2007)
 Ćirković (2009) → Vukotić and Ćirković (2008)
 Ninković and Jovanović (2009) → Ninković and Jovanović (2008)
 Panković et al. (2009) → Panković et al. (2008)
 Caimmi (2009b) → Caimmi (2007)
 Caimmi (2009b) → Caimmi (2008)
 Caimmi (2009b) → Caimmi and Valentinuzzi (2008)
 Čajko et al. (2009) → Crawford et al. (2008a)
 Čajko et al. (2009) → Crawford et al. (2008b)
 Čajko et al. (2009) → Onić and Urošević (2008)
 Ninković (2009) → Ninković and Jovanović (2008)
 Sangeetha et al. (2009) → Shanmugavel et al. (2008)
 Zaninetti (2009) → Zaninetti (2008)

Table 1 shows the number of articles published in SerAJ, number of cites to articles published in SerAJ (self cites and other cites) and calculated impact factors (IF) for years 2003–2009. Number of articles published does not include editorials, errata, book reviews, etc. Other cites include only the cites from the journals in the ISI list, while the self cites include cites from SerAJ to articles in SerAJ. We did not make distinction between auto-cites, i.e. when an author cites his/her own paper and hetero-cites.

Impact factor for each year is defined as the total number of cites in a given year (y) to articles

published in the past two years ($y-1$, $y-2$) divided by the total number of articles published in the past two years:

$$IF(y) = \frac{\text{Cites in year } y \text{ to articles from } y-1 \text{ to } y-2}{\text{Number of articles in } y-1 \text{ and } y-2}. \quad (1)$$

We have chosen to calculate the impact factor since it best shows to what extent a certain journal or a field is active, and that we can compare SerAJ with other journals. The two year period for calculating impact factor is somewhat arbitrary, e.g. a five year period may be also used (IF5). There are, of course, many other measures of a journal's bibliometric quality such as the overall citation rate, cited half-life, immediacy index, etc.

In Fig 1. we give a histogram representing impact factor (IF) changes for Serbian Astronomical Journal in the period 2003–2009. The lower bar gives the impact factor calculated by using only the cites from the journals in the ISI list (IF*), and the upper bar adds the self cites.

Acknowledgements – This research made use of NASA's Astrophysics Data System (ADS) Service (<http://adswww.harvard.edu/>). The author would also like to thank Consortium of Serbian libraries (KoBSON) (<http://kobson.nb.rs/>) for providing scientific literature and information to the research community in Serbia.

REFERENCES

- Andić, A.: 2006, *Serb. Astron. J.*, **172**, 27.
- Andić, A.: 2007, *Solar Phys.*, **243**, 131.
- Andić, A.: 2008, *Serb. Astron. J.*, **177**, 87.
- Arbutina, B.: 2007, *Serb. Astron. J.*, **174**, 91.
- Bon, E.: 2008, *Serb. Astron. J.*, **177**, 9.
- Bon, E., Popović, L. Č., Gavrilović, N., La Mura, G., Mediavilla, E.: 2009a, *Mon. Not. R. Astron. Soc.*, **400**, 924.
- Bon, E., Gavrilović, N., La Mura, G., Popović, L. Č.: 2009b, *New Astron. Rev.*, **53**, 121.
- Caimmi, R.: 2006a, *Serb. Astron. J.*, **173**, 13.
- Caimmi, R.: 2006b, *Applied Mathematics and Computation*, **174**, 447.
- Caimmi, R.: 2007, *Serb. Astron. J.*, **174**, 13.
- Caimmi, R.: 2008, *Serb. Astron. J.*, **176**, 23.
- Caimmi, R.: 2009a, *New Astron.*, **14**, 254.
- Caimmi, R.: 2009b, *Serb. Astron. J.*, **179**, 31.
- Caimmi, R., Marmo, C.: 2004, *Serb. Astron. J.*, **169**, 11.
- Caimmi, R., Marmo, C.: 2005 *Astron. Nachr.*, **326**, 465.
- Caimmi, R., Marmo, C., Valentinuzzi, T.: 2005, *Serb. Astron. J.*, **170**, 13.
- Caimmi, R., Valentinuzzi, T.: 2008, *Serb. Astron. J.*, **177**, 15.
- Ćirković, M. M., Vukotić, B.: 2008, *Origins of Life and Evolution of Biospheres*, **38**, 535.
- Ćirković, M.M.: 2009, *Serb. Astron. J.*, **178**, 1.
- Ćirković, M. M., Vukotić, B., Dragičević, I.: 2009, *Astrobiology*, **9**, 491.
- Crawford, E. J., Filipović, M. D., Payne, J. L.: 2008a, *Serb. Astron. J.*, **176**, 59.
- Crawford, E. J., Filipović, M. D., de Horta, A. Y., Stootman, F. H., Payne, J. L.: 2008b, *Serb. Astron. J.*, **177**, 61.
- Cvetković, Z., Novaković, B., Strigachev, A., Popović, G.M.: 2006, *Serb. Astron. J.*, **172**, 53.
- Cvetković, Z., Novaković, B.: 2006, *Serb. Astron. J.*, **173**, 73.
- Cvetković, Z., Pavlović, R., Strigachev, A., Novaković, B., Popović, G.M.: 2007, *Serb. Astron. J.*, **174**, 83.
- Cvetković, Z., Ninković, S.: 2008, *New Astronomy*, **13**, 587.
- Cvetković, Z., Novaković, B., Todorović, N.: 2008, *New Astronomy*, **13**, 125.
- Čajko, K.O., Crawford, E. J., Filipović, M. D.: 2009, *Serb. Astron. J.*, **179**, 55.
- Damljanović, G.: 2008, *Planetary and Space Science*, **56**, 1896.
- Damljanović, G., Pejović, N.: 2006, *Serb. Astron. J.*, **173**, 95.
- Damljanović, G., Pejović, N.: 2008, *Serb. Astron. J.*, **177**, 109.
- Damljanović, G., Pejović, N., Jovanović, B.: 2006, *Serb. Astron. J.*, **172**, 41.
- Danilović, S., Vince, I., Vitas, N., Jovanović, P.: 2005, *Serb. Astron. J.*, **170**, 79.
- Feltzing, S., Fohlman, M., Bensby, T.: 2007, *Astron. Astrophys.*, **467**, 665.
- Freeman, P. E., Newman, J. A., Lee, A. B., Richards, J. W., Schafer, C. M.: 2009, *Mon. Not. R. Astron. Soc.*, **398**, 2012.
- Filipović, M. D. et al.: 2009, *Mon. Not. R. Astron. Soc.*, **399**, 769.
- Fitzsimmons, A.: 2009, *Earth Moon and Planets*, **105**, 181.
- Gaskell, M. C.: 2009, *New Astron. Rev.*, **53**, 140.
- Grubor, D., Šulić D., Žigman, V.: 2005, *Serb. Astron. J.*, **171**, 29.
- Gustafsson, B.: 2008, *Physica Scripta*, **T130**, 014036.
- Hartkopf, W.I., Mason, B. D., Rafferty, T. J.: 2008, *Astron. J.*, **135**, 1334.
- Ilić, D.: 2007, *Serb. Astron. J.*, **175**, 15.
- Ivezić, Ž. et al.: 2008, *Serb. Astron. J.*, **176**, 1.
- Kimball, A. E., Knapp, G. R., Ivezić, Ž., West, A. A., Bochanski, J. J., Plotkin, R. M., Gordon, M. S.: 2009, *Astrophys. J.*, **701**, 535.
- Kovačević, A., Kuzmanoski, M.: 2005, *Serb. Astron. J.*, **171**, 37.
- Kowalski, A. F., Hawley, S. L., Hilton, E. J., Becker, A. C., West, A. A., Bochanski, J. J., Sesar, B.: 2009, *Astron. J.*, **138**, 633.
- Lalović, A., Ćirković, M. M.: 2008, *Serb. Astron. J.*, **176**, 37.
- Lampens, P., Strigachev, A., Duval, D.: 2007, *Astron. Astrophys.*, **464**, 641.
- Mason, B.D., Hartkopf, W.I., Wycoff, G.L.: 2008, *Astron. J.*, **136**, 2223.
- Mota, D. F.: 2008, *Journal of Cosmology and Astroparticle Physics*, **09**, 006.
- Mouret, S., Hestroffer, D., Mignard, F.: 2007, *Astron. Astrophys.*, **472**, 1017.
- Ninković, S.: 2007, *Serb. Astron. J.*, **175**, 19.
- Ninković, S., Trajkovska, V.: 2006, *Serb. Astron. J.*, **172**, 17.
- Ninković, S., Jovanović, B.: 2008, *Serb. Astron. J.*, **176**, 45.
- Ninković, S., Jovanović, B.: 2009, *Serb. Astron. J.*, **178**, 29.
- Ninković, S.: 2009, *Serb. Astron. J.*, **179**, 49.
- Nishijima, D., Doerner, R. P., Baldwin, M. J., Demmerman, G., Hollmann, E. M.: 2008, *Plasma Physics and Controlled Fusion*, **50**, 125007.
- Novaković, B., Todorović, N.: 2006, *Serb. Astron. J.*, **172**, 21.
- Onić, D., Urošević, D.: 2008, *Serb. Astron. J.*, **177**, 67.
- Panković, V., Predojević, M., Grujić, P.: 2008, *Serb. Astron. J.*, **176**, 15.
- Panković, V., Čiganović, S., Glavatović, R.: 2009, *Serb. Astron. J.*, **178**, 39.
- Pavlović, R.: 2007, *Serb. Astron. J.*, **174**, 53.
- Pavlović, R., Cvetković, Z., Olević, D., Strigachev, A., Popović, G.M., Novaković, B.: 2005, *Serb. Astron. J.*, **171**, 49.
- Pavlović, R., Guzzo, M.: 2008, *Mon. Not. R. Astron. Soc.*, **384**, 1575.
- Paraficz, D., Hjorth, J.: 2009, *Astron. Astrophys.*, **507**, L49.
- Payne, J. L., Filipović, M. D., Crawford, E. J., de Horta, A. Y., White, G. L., Stootman, F. H.: 2008a, *Serb. Astron. J.*, **176**, 65.
- Payne, J. L., Filipović, M. D., Millar, W. C., Crawford, E. J., de Horta, A. Y., Stootman, F. H., Urošević, D.: 2008b, *Serb. Astron. J.*, **177**, 53.
- Popović, L. Č.: 2006, *Serb. Astron. J.*, **173**, 1.

- Popović, L. Č. et al., 2008, *Publ. Astron. Soc. Japan*, **60**, 1.
- Prieur, J. L. et al.: 2008, *Mon. Not. R. Astron. Soc.*, **387**, 772.
- Rampadarath, H., Garrett, M. A., Polatidis, A.: 2009, *Astron. Astrophys.*, **500**, 1327.
- Rossi, A.: 2005, *Serb. Astron. J.*, **170**, 1.
- Samurović, S.: 2006, *Serb. Astron. J.*, **173**, 35.
- Samurovic, S.: 2007a, *Serb. Astron. J.*, **174**, 35.
- Samurović, S.: 2007b, *Serb. Astron. J.*, **175**, 7.
- Samurović, S., Cirkovic M.M.: 2008, *Serb. Astron. J.*, **177**, 1.
- Sangeetha, R., Sriramachandran, P., Bagare, S.P., Rajamanickam, N., Shanmugavel, R.: 2009, *Serb. Astron. J.*, **179**, 95.
- Shanmugavel, R., Bagare, S. P., Rajamanickam, N.: 2006, *Serb. Astron. J.*, **173**, 83.
- Shanmugavel, R., Bagare, S.P., Rajamanickam, N., Balachandra Kumar, K.: 2008, *Serb. Astron. J.*, **176**, 51.
- Tokovinin, A., Cantarutti, R.: 2008, *Publ. Astron. Soc. Pacific*, **120**, 170.
- Tommei, G., Milani, A., Rossi, A.: 2007, *Celest. Mech. Dyn. Astron.*, **97**, 289.
- Trimble, V., Aschwanden, M.J., Hansen, C.J.: 2007, *Space Sci. Rev.*, **132**, 1.
- Urošević, D., Vukotić, B., Arbutina, B., Ilić, D.: 2007, *Serb. Astron. J.*, **174**, 73.
- Urošević, D., Vukotić, B., Arbutina, B., Ilić, D., Filipović, M., Bojičić, I., Šegan, S., Vidojević, S.: 2009, *Astron. Astrophys.*, **495**, 537.
- Viswanathan, B., Shanmugavel, R., Bagare, S. P., Rajamanickam, N., Sriramachandran, P.: 2009, *Solar Phys.*, **257**, 261.
- Vukotić, B., Čirković, M. M.: 2007, *Serb. Astron. J.*, **175**, 45.
- Vukotić, B., Čirković, M. M.: 2008, *Serb. Astron. J.*, **176**, 71.
- Vukotić, B., Urošević, D., Filipović, M. D., Payne, J. L.: 2009, *Astron. Astrophys.*, **503**, 855.
- Zakharov, A. F.: 2007, *Serb. Astron. J.*, **174**, 1.
- Zaninetti, L.: 2008, *Serb. Astron. J.*, **177**, 73.
- Zaninetti, L.: 2009, *Serb. Astron. J.*, **179**, 69.
- Zboril, M.: 2005, *Serb. Astron. J.*, **170**, 111.
- Zboril, M.: 2005, *Serb. Astron. J.*, **170**, 111.
- Zboril, M.: 2007, *Serb. Astron. J.*, **175**, 51.
- Zboril, M., Djurašević, G.: 2006, *Serb. Astron. J.*, **173**, 89.
- Zboril, M., Messina, S.: 2009, *Astron. Nachr.*, **330**, 377.
- Žigman, V., Grubor, D., Šulić, D.: 2007, *Journal of Atmospheric and Solar-Terrestrial Physics*, **69**, 775.
- Woodley, K. A. et al.: 2007, *Astron. J.*, **134**, 494.

ЦИТИРАНОСТ ЧАСОПИСА SERBIAN ASTRONOMICAL JOURNAL
У ПЕРИОДУ 2007-2009

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Уређивачки прилог

Овај прилог има за циљ да прикаже резултате истраживања цитираности часописа Serbian Astronomical Journal. Дати су комплетни

подаци о цитираности у претходне три године као и одговарајући импакт фактори за период 2003-2009.