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2022 RANKING OF RESEARCHERS AT THE UNIVERSITY OF BELGRADE

Abstract. The paper presents the 2022 ranking of researchers at the University of Belgrade. In the 2022 Shanghai World University Rankings ARWU, the University of Belgrade is ranked in the 401-500 cluster. The ranking is presented primarily according to the h-index of researchers. Researchers with the same h-index are ranked by the number of citations. We present the top 20 researchers in the ranking list from University of Belgrade with the minimum h-index 40. h-index can be determined from the following online databases: Web of Science, Scopus, Google Scholar and the Publish or Perish program. The ranking is edited using the Google Scholar database.

Keywords: University of Belgrade researchers, Shanghai Academic Ranking of World University ARWU, scientific performance measurement, h-index, citations, Google Scholar.

1. Introduction

The paper presented the 2022 ranking list of researchers at the University of Belgrade. In the 2022 Shanghai World University Rankings ARWU, the University of Belgrade is ranked in the: 401-500 cluster.

Indexes in scientometrics are based on citations. However, in contrast to the journal impact factor, which gives only the ranking of the scientific journals, ordered by impact factor, indexes in scientometrics are suitable for ranking of scientists, scientific journals, and countries. An effective way to measure scientific performance is to measure citations, because if someone is cited a lot by other scientists, they are probably a better researcher. The ranking is presented primarily according to the h-index of researchers.

The h-index is the largest h number, indicating that h number of publications contain at least h citations. h-index can be determined from the following online databases: Web of Science, Scopus, Google Scholar and the Publish or Perish program.

The h-index, also known as the Hirsch index, is based on citations. The h-index was published by physicist Jorge E. Hirsch (University of California, San Diego) in 2005: “A scientist has index h if h of his/her N papers have at least h citations each, and the other (N-h) papers have no more than h citations each” [1].

The index was originally proposed by Hirsch to compare individual performance only, but it can also be used to compare the h-index of research groups, journals, disciplines, institutions, and countries.

The advantage the h-index is that it combines both the:

- quantity – number of articles and
- quality – citations to these articles.

A researcher cannot have a high h-index without publishing a considerable number of articles. The h-index favors researchers that publish a continuous stream of articles.

The original h-index does not distinguish between dependent and independent citations, i.e., it also takes self-citations into account. The ranking is edited using the Google Scholar database [2].

Researchers with the same h-index are ranked by the number of citations. We presented the top 20 researchers in the ranking list from University of Belgrade with the minimum h-index 40.

The paper is organized as follows: in Section 1 the Introduction is given, in Section 2 the 2022 ranking list of researchers at the University of Belgrade is presented. Conclusions are given in Section 3.

2. The 2022 ranking list of researchers at the University of Belgrade

The 2022 ranking list of researchers at the University of Belgrade is presented primarily according to the researchers' h-index. The ranking has been constructed using the Google Scholar database. To construct the ranking list, type “University of Belgrade” in the Google Scholar search engine [2] and look up the citations and h-index of the researchers. In this way, the method used is fair in terms of ranking.

Researchers with matching h-index are ranked by the number of citations [3-8]. 20 researchers are included in the ranked list [9-12]. The minimum h-index of the ranked researchers is 40. We also present the Orcid ID number of the researchers. The ranking list is the following:

1. Petar Seferovic

h-index = 86

66968 citations

Orcid ID: 0000-0002-1955-4199



Petar Seferovic

Belgrade University, Faculty of Medicine
Verified email at med.bg.ac.rs

[heart failure](#)



Cited by

	All
Citations	66968
h-index	86
i10-index	214

2. Dragan Savic

h-index = 79

26464 citations

Orcid ID: 0000-0001-9567-9041



Dragan Savic

Professor [University of Exeter](#) & Univ. of Belgrade; CEO, KWR Water Research
<https://www.kwrwater.nl>

Verified email at exeter.ac.uk - [Homepage](#)

[Hydroinformatics](#) [Water resources systems](#) [Water engineering](#) [Floods](#) [Water resources](#)



Cited by

	All
Citations	26464
h-index	79
i10-index	327

3. Zoran Petrovic

h-index = 57,

14084 citations

Orcid ID: 0000-0001-6569-9447



Zoran Petrovic

Institute of Physics University of Belgrade Serbia
Verified email at ipb.ac.rs

[nonequilibrium processes](#) [low temperature plasmas](#) [breakdown in gases](#) [plasma applications](#)
[positrons in traps gases an...](#)



Cited by

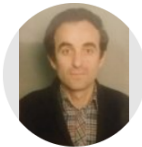
	All
Citations	14084
h-index	57
i10-index	239

4. Stojan Radenovic

h-index = 55

11754 citations

Orcid ID: 0000-0001-8254-6688



Stojan Radenovic

Faculty of Mechanical Engineering University of Belgrade, Serbia
Verified email at beotel.rs - [Homepage](#)

[Nonlinear Anlalysis](#) [Functional Analysis](#) [Fixed Point Theory](#) [Operator Theory](#)



Cited by

	All
Citations	11754
h-index	55
i10-index	253

5. Velimir R. Radmilovic

h-index = 54

13029 citations

Orcid ID: 0000-0003-3326-4320



Velimir R. Radmilović

Serbian Academy of Sciences and Arts, [University of Belgrade](#)
Verified email at tmf.bg.ac.rs

[Materials Science & Engine...](#) [Phase Transformations](#) [Metal Physics](#)
[Nanoscience and nanotech...](#)



Cited by

	All
Citations	13029
h-index	54
i10-index	151

6. Dragan Pamučar

h-index = 53

9956 citations

Orcid ID: 0000-0001-8522-1942



Dragan Pamučar

University of Belgrade, Faculty of Organizational Sciences
Verified email at va.mod.gov.rs

[Logistics & Transportation](#) [Multiple Criteria Decision M...](#) [Decision Support Systems](#) [MCDM](#)
[Operations Research](#)



Cited by

	All
Citations	9956
h-index	53
i10-index	167

7. Vladimir Trajkovic

h-index = 52

21924 citations

Orcid ID: 0000-0002-8061-2968



Vladimir Trajkovic

Faculty of Medicine, [University of Belgrade](#), Serbia
Verified email at med.bg.ac.rs

[Cancer pharmacology](#) [Autophagy](#) [Nanomedicine](#) [Neurotoxicity](#) [Immunoregulation](#)



Cited by

	All
Citations	21924
h-index	52
i10-index	153

8. Miroslav Dramicanin

h-index = 51

11402 citations

Orcid ID: 0000-0003-4750-5359



Miroslav Dramicanin

Professor, Vinca Institute of Nuclear Sciences, [University of Belgrade](#), Serbia
Verified email at vinca.rs - [Homepage](#)

[Spectroscopy](#) [Materials Science](#) [Luminescence](#) [Luminescence thermometry](#) [lanthanide ions](#)



Cited by

	All
Citations	11402
h-index	51
i10-index	211

9. Miomir Vukobratovic

h-index = 47

16105 citations

Orcid ID: -



Miomir Vukobratovic

University of Belgrade, Institute Mihailo Pupin, Robotics Laboratory, Serbia
No verified email

[Robotics](#) [Humanoid Robotics](#)



Cited by

	All
Citations	16105
h-index	47
i10-index	189

10. Miodrag Mitric

h-index = 47

9143 citations

Orcid ID: 0000-0002-1709-9890



Miodrag Mitric

Vinca Institute of Nuclear Sciences, National Institute of the Republic of Serbia, [University of Belgrade](#)

Verified email at vinca.rs

[magnetism and crystal stru...](#)



Cited by

	All
Citations	9143
h-index	47
i10-index	209

11. Viktor Nedovic

h-index = 45

7385 citations

Orcid ID: 0000-0002-8943-0087



Viktor Nedovic

Dept. of Food Technology and Biochemistry, Faculty of Agriculture, [University of Belgrade](#)

Verified email at agrif.bg.ac.rs

[Food science and technology](#) [Biotechnology](#) [Biochemical engineering](#)
[Fermentation processes](#) [Beer fermentation](#)



Cited by

	All
Citations	7385
h-index	45
i10-index	117

12. Jasmina Glamoclija

h-index = 45

7261 citations

Orcid ID: 0000-0001-6823-1137



Jasmina Glamoclija

University of Belgrade

No verified email

[antimicrobial antifungal anti...](#)



Cited by

	All
Citations	7261
h-index	45
i10-index	141

13. Arsen Ristić

h-index = 43

13187 citations

Orcid ID: 0000-0002-0713-1180



Arsen Ristić

Department of Cardiology, University Clinical Center of Serbia, [Belgrade University](#),
Faculty of
Verified email at med.bg.ac.rs

[Heart failure](#) [cardiomyopathies](#) [myocarditis](#) [pericardial diseasee](#) [pulmonary hypertension](#)



Cited by

	All
Citations	13486
h-index	44
i10-index	89

14. Branko Bugarski

h-index = 44

7556 citations

Orcid ID: 0000-0002-1846-8555



Prof. Branko Bugarski

[UNIVERSITY OF BELGRADE](#)
Verified email at tmf.bg.ac.rs

[Encapsulation](#) [Bioreactors](#)



Cited by

	All
Citations	7556
h-index	44
i10-index	132

15. Jelena Jovanovic

h-index = 43

5740 citations

Orcid ID: -



Jelena Jovanovic

[University of Belgrade](#)
Verified email at fon.rs - [Homepage](#)

[Learning Analytics](#) [Technology Enhanced Lear...](#) [Semantic Technologies](#)



Cited by

	All
Citations	5740
h-index	43
i10-index	109

16. Zoran Kadelburg

h-index = 43

5677 citations

Orcid ID: 0000-0001-9103-713X



Zoran Kadelburg

[University of Belgrade](#), Faculty of Mathematics, Serbia
Verified email at matf.bg.ac.rs

[Functional Analysis](#) [Nonlinear Analysis](#)



Cited by

	All
Citations	5677
h-index	43
i10-index	95

17. Branimir N. Grgur

h-index = 42

8155 citations

Orcid ID: 0000-0003-4684-9053



Branimir N. Grgur

Full Professor, Faculty of Technology and Metallurgy, [University of Belgrade](#), Serbia
Verified email at tmf.bg.ac.rs - [Homepage](#)

[Electrochemistry](#) [Renewable energy](#) [Conducting polymers](#) [Electrochemical power sour...](#)
[Corrosion](#)



Cited by

	All
Citations	8155
h-index	42
i10-index	94

18. Steve Quarrie

h-index = 42

7416 citations

Orcid ID: 0000-0002-8858-0251



Steve Quarrie

Faculty of Biology, [University of Belgrade](#)
Verified email at bio.bg.ac.rs

[Wheat](#) [physiology](#) [genetics](#) [stresses](#) [teaching](#)



Cited by

	All
Citations	7465
h-index	42
i10-index	82

19. Petar D. Marin

h-index = 41

6994 citations

Orcid ID: 0000-0002-9460-1012



Petar D. Marin

[University of Belgrade](#) - Faculty of Biology
Verified email at bio.bg.ac.rs

[phytochemistry](#) [biological activity](#) [chemotaxonomy](#) [plant systematics](#)



Cited by

	All
Citations	6994
h-index	41
i10-index	139

20. Veljko Milutinovic

h-index = 40

5332 citations

Orcid ID: 0000-0002-9380-5232



Veljko Milutinovic

[University of Belgrade in Serbia](#)
Verified email at etf.rs

[computer architecture](#) [computer science](#) [computer engineering](#) [computer design](#) [data mining](#)



Cited by

	All
Citations	5332
h-index	40
i10-index	107

3. Conclusions

The evaluation of individual research productivity is a complex procedure that takes into account volume of research output and its influence. Indexes in scientometrics are based on citations. However, in contrast to the journal impact factor, which gives only the ranking of the scientific journals, ordered by impact factor, indexes in scientometrics are suitable for ranking of scientists, scientific journals, and countries.

The paper presented the top 20 researchers in the ranking list at the University of Belgrade in 2022. In the 2022 Shanghai World University Rankings ARWU, the University of Belgrade is ranked in the 401-500 cluster.

To construct the ranking list, we typed “University of Belgrade” into Google Scholar's search engine and looked up the citations and h-index of the researchers. In this way, the method used is fair in terms of ranking.

The ranking is presented primarily according to the h-index of researchers. Researchers with the same h-index are ranked by the number of citations. The ranking is edited using the Google Scholar database. The minimum h-index for researchers is 40. We presented the researchers' ORCID ID.

References

1. Hirsch, J. E., *An Index to Quantify an Individual's Scientific Output*. Proceedings of the National Academy of Sciences of the United States of America, 102(2005), 16569–16572, 2005.
2. Google Scholar, <https://scholar.google.com>, (accessed on 20 October 2022).

3. Gyula Mester, *Rankings Scientists, Journals and Countries Using h-index*, *Indecs, Interdisciplinary Description of Complex Systems*, 14:1(2016), 1–9, DOI: 10.7906/indec.14.1.1, 2016.
4. Gyula Mester, *New Trends in Scientometrics*, Proceedings of the SIP 2015, 33rd International Conference Science in Practice, 22-27, University of Applied Sciences, Schweinfurt, Germany, 07-08.05.2015.
5. Gyula Mester, *Novi trendovi naučne metrike*, Proceedings of the XXI Skup Trendovi Razvoja: Univerzitet u Promenama..., paper No. UP 1-3, 23–30, DOI: 10.13140/RG.2.1.1754.2486, Zlatibor, Serbia, 23 - 26. 02. 2015.
6. Gyula Mester, *Merenje rezultata naučnog rada*, *Tehnika-Mašinstvo*, 64:3(2015), 445–453.
7. Gyula Mester, *Metode naučne metrike i rangiranja naučnih rezultata*, Proceedings of the 57th ETRAN Conference, RO3.5.1-3, 2013.
8. Gyula Mester, *The Evaluation of the Impact Factor of the Journal Acta Polytechnica Hungarica*, Proceedings of the TREND Conference, 2011, 70–73.
9. Gyula Mester, *Felsőoktatási Világranglisták 2011*, Proceedings of the Conference Informatika a felsőoktatásban, 269–277, Debrecen, Hungary, 2011.
10. Gyula Mester, *Univerziteti regiona na Šangajskoj rang listi univerziteta u svetu 2012*, Zbornik radova XIX Skupa Trendovi razvoja, 1–5, Kopaonik, Serbia, 2013.
11. Gyula Mester, *Academic Ranking of World universities 2009/2010*, The Ipsi BgD, Transactions on Internet Research, 7:1(2011), 44–47.
12. Gyula Mester, *Academic Ranking of World Universities 2017*, Review of the National Center for Digitalization, 31(2017), 40–45, University of Belgrade.

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