

AVIZAT,
Director CSUD,
Prof. dr. ing. Eugen-Victor-Cristian RUSU

FISA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE
pentru ocuparea postului didactic de PROFESOR UNIVERSITAR,
în vederea obținerii atestatului de abilitare

PROF. UNIV. DR. MIHAELA MIRELA BRATU

Titlul	Număr articole ISI autor principal	Număr articole ISI coautor	Indice Hirsch	(ISI) Factor cumulate de impact autor principal (FCIAP)
STANDARDE MINIMALE ABILITARE	10	5	6	10
STANDARDE REALIZATE	16	11	7	17,123

**Criteriul C1 -16 articole ISI autor principal_(Standerde minimale -10) CRITERIU
INDEPLINIT -16**

- 1. Mihaela Mirela Bratu**, Semaghiul Birghila, Mihai Cosmin Cenariu, Pall Eموke, Antoanela Popescu, Marius Daniel Radu, Lenuța Zglimbea, *Antioxidant Activity, UV-screen, Cytotoxic*



and Antitumoral Activities of a Polyphenolic Extract of Helichrysum arenarium (L.) Moench Flowers Pol. J. Environ. Stud. Vol. 32, No. 3, 1-9 (2023) DOI: 10.15244/pjoes/157546; IF=1,871 AIS=0,211 (autor principal-prim autor).

2. Popescu, A., Birghila, S., Radu, M. D., & **Bratu, Mihaela Mirela** *Evaluation of the Polyphenol Content and Antioxidant Activity of Wine Macerates (Medicinal Wines) With Sage (Salvia Officinalis L. Lamiaceae) and Sea Rush (Juncus Martitimus Lam. Juncaceae) Obtained Using Traditional Technology.* Polish Journal of Environmental Studie, 2022 DOI: 10.15244/pjoes/145617, WOS:000837205200002, IF=1,871 AIS=0,211 (autor principal-ultim autor).
3. **Mihaela Mirela Bratu**, Semaghiul Birghila, Valentina Coatu, Diana Andreea Danilov, Marius Daniel Radu & Corina Birghila (2022) *Polycyclic Aromatic Hydrocarbons (PAHs) in Some Commercial Herbal Teas*, Polycyclic Aromatic Compounds, DOI: 10.1080/10406638.2022.2042332; WOS:000762207400001; IF= 2.195 AIS= 1.108 (autor principal-prim autor).
4. **Mihaela Mirela Bratu**, Semaghiul Birghila, Antoanela Popescu, Bogdan-Stefan Negreanu-Pirjol, Marius Radu, Corina Birghila, *Influence of Packaging Material on Polyphenol Content and Antioxidant Activity in Some Commercial Beers*, Processes 2021, 9(4), 620; <https://doi.org/10.3390/pr9040620>, DOI: 10.3390/pr9040620, WOS:000643608500001 IF 2021=3,352, AIS 2021=0,405 (autor principal-prim autor).
5. **Mihaela Mirela Bratu**, S Birghila, LM Stancu, CC Mfflai, P Eموke, A Popescu, *Evaluation of the antioxidant, cytotoxic and antitumoral activities of a polyphenolic extract of Robinia pseudoacacia L. flowers*, Journal of Science and Arts 2021 (2), 547-556, DOI: 10.46939/J.Sci.Arts-21.2-b04, WOS:000668566900020 (autor principal-prim autor). IF=0,2
6. **Mihaela Mirela Bratu**, Semaghiul Birghila, Antoanela Popescu, Bogdan Stefan NegreanuPirjol and Ticuta Negreanu-Pirjol, *Correlation Of Antioxidant Activity Of Dried Berry Infusions With The Polyphenols And Selected Microelements Contents*, Bull. Chem. Soc. Ethiop. 2018, 32(1), 1-12. ISSN 1011-3924; 2018, Chemical Society of Ethiopia ISSN: 1011-3924, DOI: 10.4314/bcse.v32i1.1/; WOS:000430230500001,



<https://dx.doi.org/10.4314/bcse.v32i1.1> IF 2019 = 1,218, AIS 2019 =0,059 (autor principal-prim autor).

7. **Mihaela Mirela Bratu**, Semaghiul Birghila, Horatiu Miresan, Ticuta Negreanu Pirjol *Electrophoretic Method For Edible Eggs Species Identification*, Rev.Chim. (Bucharest) 68, No. 9, pg.1983-1987, 2017, ISSN: 0034-7752, WOS:000337011900009, <http://www.revistadechimie.ro>, scor de influenta 0.164 , IF= 1.232. (autor principal-prim autor).
8. Sepp Porta, Ticuta Negreanu-Pirjol, Michael Moser, Harald Gell, Klaus Kisters, Harald Stossier, Georg Stossier, Ilona Papousek, Christian Hahn, Karin Schmid-Zalaudek, Robert Gasser, **Mirela Michaela Bratu**, *Mental strain: Magnesium increase along with stress-markers is relative*, Trace Elements and Electrolytes, Volume 34, - 4th quarter pg.154 - 158, 2017, ISSN 0946-2104, WOS:000411619300003; DOI 10.5414/TEX01491, IF= 0,19. (autor principal-ultim autor).
9. Georgeta Beleniuc, Elena Doroftei, Semaghiul Birghila, Maria-Mihaela Antofie, Natalia Roşoiu, **Mihaela Mirela Bratu**, *Cytological study regarding the effects of rutin-transition metals complexes in Allium and Triticum tests*, Romanian Biotechnological Letters, Vol. 22, No. 3, pp. 12620-12629, 2017, ISSN: 1224-5984 (Print), ISSN: 2248-3942 (Electronic); WOS:000404459100014 DOI: 10.25083/rbl., <http://www.rombio.eu/> IF= 0.396 (autor principal-ultim autor).
10. **Mihaela Mirela Bratu**, Sepp Porta, Harald Gell, Ticuta Negreanu-Pirjol, Klaus Kisters *Fatigue and Mg deficit – a vicious cycle?*, Trace elements and electrolytes, Volume 33, No. 3, pg. 93 -97, 2016, ISSN 0946-2104, WOS:000385917700002; DOI 10.5414/TEX01491 IF /2015-2016=0.377, (autor principal-prim autor).
11. Semaghiul Birghila, **Mihaela Mirela Bratu**, *Evaluation of Mineral Elements in Berry Fruit Teas*, REV. CHIM. (Bucharest) 67, No.3, pg. 418-421, 2016, ISSN: 0034-7752, WOS: 000337011900009, <http://www.revistadechimie.ro>, IF= 0,81. (autor principal-autor de corespondenta).



12. Semaghiul Birghila, **Mihaela Mirela Bratu**, Corina Prajitura, Florentina Nicoleta Roncea, Ticuta Negreanu-Pirjol, *Spectrophotometric Method for the Determination of Total Proteins in Egg White Samples*, REV. CHIM. (Bucharest) 66, No. 3, pg.,378-381, 2015, ISSN 0034 -7752, WOS: 000337011900009, <http://www.revistadechimie.ro>, IF= 0,81. (autor principal-autor de corespondenta).
13. **Mihaela Mirela Bratu**, Semaghiul Birghila, H. Miresan, Ticuta Negreanu-Pirjol, Corina Prajitura, Mirela Calinescu, *Biological Activities of Zn(II) and Cu (II) Complexes with Quercetin and Rutin: Antioxidant Properties and UV-Protection Capacity*, REV. CHIM. (Bucharest), 65 No.5, pg. 544 – 549, 2014, ISSN 0034 -7752, WOS: 000337011900009, <http://www.revistadechimie.ro>, IF = 0,806 (autor principal-prim autor).
14. **Mihaela Mirela Bratu**, Elena Doroftei, Ticuta Negreanu-Pirjol, Corina Hostina, Sepp Porta, *Determination of Antioxidant Activity and Toxicity of Sambucus nigra Fruit Extract Using Alternative Methods*, Food Technol. Biotechnol., 50 (2), pg. 177–182, 2012, ISSN: 1330-9862, WOS:000305933100006, www.ftb.com.hr, IF/2012= 0,977. (autor principal-prim autor).
15. S. Porta, K. Pichlkastner, H. Gell, W. Desch, W. Schappacher, J. Porta, **Mihaela Mirela Bratu** *Interdependencies of electrolyte and metabolic parameters can characterize handicaps and predict succes probability in sports*, Trace elements and electrolytes, vol. 27 nr. 3, pg. 103-110, 2010, ISSN 0946-2104, DOI 10.5414/TEX01491, IF 2010= 0.531. WOS:000279625600002 (autor principal-ultim autor).
16. **Bratu, Mihaela Mirela**; Porta, Sepp; Negreanu-Pirjol, Negreanu-Pirjol, Ticuta ; Roncea, Florentina ; Miresan, Horatiu; *Capacity of Mg salts to form polyphenols out of vegetals*, Revista de chimie 56 (2006), Issue 8; Page 823-825; ISSN 0034 -7752 WOS:000241770200008 ; IF = 0.287 (autor principal-prim autor).

Criteriaul C2 - articole ISI coauthor (Standerde minimale -5) CRITERIU INDEPLINIT -11

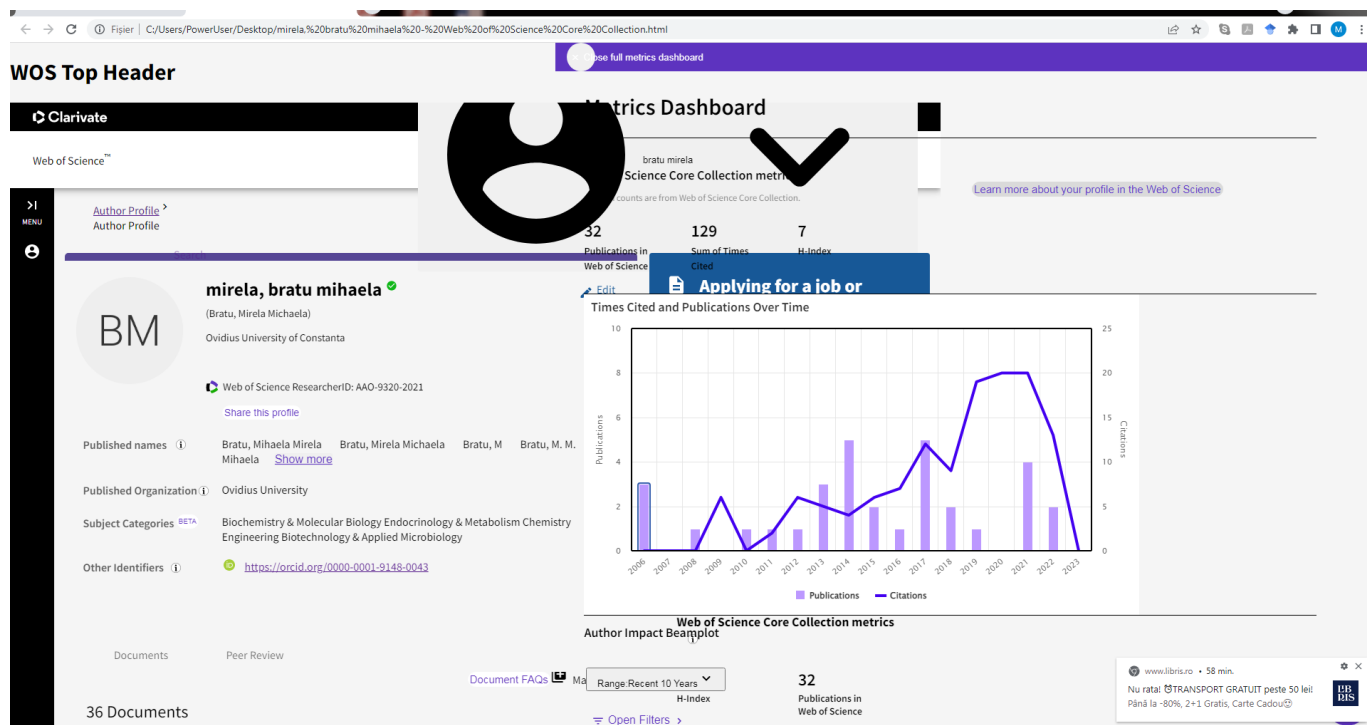


1. Sepp Porta, Helmut K Lackner, Stefan Opresnik, Harald Gell, Ticuta Negreanu-Pirjol, Mirela Michaela Bratu, Klaus Kisters, Manfred Walzl, Christian Tiesenhausen, *Acute oral application of a magnesium amino acid compound: Significant improvement of individual performance in sports*, Trace elements and electrolytes, 36 (1),pg. 8 -12, 2019, ISSN 0946-2104; DOI 10.5414/TEX01494; WOS:000455390500003. IF= 0,237
2. Sepp Porta, Michael Moser, Harald Gell, Helmut Berger, Albert Kompek, Mirela Michaela Bratu, Piero Lercher, Stefan Opresnik, Klaus Kisters, *Metabolic and electrolyte changes during recovery from exercises with and without a preparation from recovery*, Trace Elements and Electrolytes, Vol. 35 No. 2, pg. 79-85, 2018, ISSN 0946-2104; WOS:000429110000005; DOI 10.5414/TEX01494. IF =0,276
3. Sepp Porta, Roland Mölzer, Mirela Michaela Bratu and Klaus Kisters, *Gold – beautifully antirheumatic – a request for discussion*, Trace Elements and Electrolytes, Vol. 34 – No. 3, pg. 136-, 2017, ISSN 0946-2104; WOS:000405173500009; DOI 10.5414/TEX01494, IF= 0,54
4. Sepp Porta, Michael Moser, Harald Gell, Harald Stossier, Georg Stossier, Mirela Michaela Bratu, Klaus Kisters *Acute oral magnesium application: Significant effects on effort and performance in sport*, Trace Elements and Electrolytes, Volume 34, - 4th quarter pg. 141 - 148, 2017, ISSN 0946-2104, WOS:000411619300001; DOI 10.5414/TEX01494 IF= 0,54.
5. Florentina Roncea, Viorica Istudor, Ticuța Negreanu-Pîrjol, Mihaela Mirela Bratu, Maria Giurginca, Radu Cazacincu (2015) *Correlation between Technological Process and Antioxidant Capacity for Sophorae Flores Flavones Selective Dry Extracts*, Farmacia, vol. 63, nr. 5, p. 686 – 689, 2015, ISSN 0014-8237, WOS:000363078000010, www.revistafarmacia.ro, IF = 1,162
6. Ticuta Negreanu-Pirjol, Negreanu-Pirjol Bogdan-Stefan, Popescu Antoanela, Mihaela Mirela Bratu, Udrea M., Busuricu Florica, *Comparative antioxidant properties of some Romanian food fruits extracts*, (2014), J.E.P.E., 15 (3), pg.,1139-1148, 2013, ISSN: 1311-5065, WOS:000342876200039, <http://www.jepe-journal.info/journal-content/https-sites-google-com-a-jepe-journal-info-jepe-journal-vol-15-no-3-2014> IF =0,42

7. H. Miresan, C. Rosca, V. Zaharia, , Mihaela Mirela Bratu, R. Sirbu, V. Schroder, S. Paris, F. Roncea, *Oxidative response of the blue mussel following exposure to some thiazolyl-thiazolo-triazoles*, J.E.P.E., Volume 14, Number 4, pg. 1845-1852, 2013, ISSN 1311-5065, WOS:000438838100017, <http://www.jepe-journal>, IF/2013= 0,338.
8. Bahadori B., Korisek G., Mihaela Mirela Bratu, Gasser R., Sejak S., Porta S. "Blood Mg and K Changes in Male and Female Proband before and after Workload; Trace Elements and Electrolytes vol. 25 no. 3 (2008) :143-146 ISSN 0946-2104; WOS:000257478600005; IF 2008=0.426
9. Florentina Roncea, Mihaela Mirela Bratu, Viorica Istudor, Dumitru Coprean, Stelian Şchiopu, Ecaterina Tănase *Preliminary in vivo data upon quercetol effect in lead acetate poisoning*, (2008) Farmacia, vol. LVI, nr. 4, pg. 409 – 419 ISSN 0014-8237 IF 2008- 0.064
10. Sabine Wurzinger, Mihaela Mirela Bratu, W. Wonisch, R. Wintersteiger, Gabriele Halwachs-Baumann, S. Porta, *Interdependency of the oxidizability of lipoproteins and peroxidase activity with base excess, HCO₃, pH and magnesium in human venous and capillary blood*. Life Sciences (Elsevier) 78 (2006) 1754-1759 ISSN: 1330-9862; WOS:000235813400016; DOI10.1016/j.lfs.2005.08.010 IF 2006=2.72
11. Ticuța Negreanu-Pîrjol, Mihaela Mirela Bratu, Mariana Arcuș, Maria Giurginca, Cornelia Guran, *Combi-nații complexe ale unor metale de tip 3d și 4 f cu derivați de biguanid N-substituiți cu activitate antioxidantă și antimicrobiană*, Revista de chimie 57, nr. 6, (2006), 575 – 581 ISSN 0034 -7752 WOS:000240305900004; IF = 0.287



Criteriul C3- (HI=6, Standarde minimale) - CRITERIU INDEPLINIT -7



Criteriul C3-suma factorilor de impact ai articolelor publicate de autor în calitate de autor principal în reviste cotate ISI FCIAP* (10 standarde minimale) - CRITERIU INDEPLINIT = 18,742

Nr. crt.	Revista	Anul publicării	Factor de impact anul publicării
1.	PROCESSES	2021	3,352
2.	POLISH JOURNAL OF ENVIRONMENTAL STUDIES	2023	1,871
		2022	1,871
3.	JOURNAL OF SCIENCE AND ARTS	2021	0,2
4.	POLYCYCLIC AROMATIC	2022	2,195

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	COMPOUNDS		
5.	BULL. CHEM. SOC. ETHIOP	2018	1.218
6.	REVISTA DE CHIMIE	2017	1,232
		2016	0,81
		2015	0,81
		2014	0,806
		2006	0.287
7.	TRACE ELEMENTS AND ELECTROLYTES	2017	0,19
		2016	0,377
		2010	0.531
8.	ROMANIAN BIOTECHNOLOGICAL LETTERS	2017	0.396
9.	FOOD TECHNOL. BIOTECHNOL.	2012	0,977
Total FCIAP			17,123

17.02.2023

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