ПЪЛЕН СПИСЪК НА НАУЧНИТЕ ПУБЛИКАЦИИ

на

гл. ас. д-р Мария Иванова Петкова

№	Публикация	Квартил	JCR IF
1	Sozoniuk M., **Petrova M.**, Mishev K., Miladinova-Georgieva K., Geneva M. (2025). Identification and validation of reference genes with stable expression under elicitor treatments of the medicinal plant *Arnica montana* L. BMC Plant Biology (приета за печат)	Q1(SJR) Q1(JCR)	4.3 (2023)
2	Nikolova, M., Gavrilova A., Sozoniuk M., Trendafilova A., **Petrova M**. 2025. Contribution to the authentication of *Arnica montana* flower-based herbal drugs using high-performance thin-layer chromatography (HPTLC) analysis, Comptes rendus de l'Académie Bulgare des Sciences (приета за печат)	Q3(SJR) Q4(JCR)	0.3 (2023)
3*	**Petrova, M**., Geneva, M., Trendafilova, A., Miladinova-Georgieva, K., Dimitrova, L., Sichanova, M., Nikolova, M., Ivanova, V., Dimitrova, M., & Sozoniuk, M. (2025). Antioxidant capacity and accumulation of caffeoylquinic acids in *Arnica montana* L. *in vitro* shoots after elicitation with yeast extract or salicylic acid. Plants, 14(6), 967.	Q1 (SJR) Q1(JCR)	4.0 (2023)
4*	**Petrova, M.**, Miladinova-Georgieva, K., Geneva, M. (2024). Influence of abiotic and biotic elicitors on organogenesis, biomass accumulation, and production of key secondary metabolites in Asteraceae plants. International Journal of Molecular Sciences, 25(8), 4197.	Q1 (SJR) Q1(JCR)	4.9 (2023)
5	Miladinova-Georgieva, K., Sichanova, M., **Petrova, M.**, Kirova, E., Nedev, T., Tsekova, D., Geneva, M. (2024). Effect *of in vitro* pretreatment with Ag-containing amino acid nanofibers on biometrics and antioxidant activity in drought-stressed *ex vitro*-adapted *Stevia rebaudiana* Bertoni. Agronomy, 14(11), 2570.	Q1 (SJR) Q1(JCR)	3.3 (2023)
6*	**Petrova, M**., Bonchev, G., Dimitrova, L., Dimitrova, M., Vassilevska-Ivanova, R. (2023). *In Vitro* Cultivation of Saffron (*Crocus sativus* L.) and Assessment of Genetic Homogeneity Using iPBS Markers. Comptes rendus de l'Académie bulgare des Sciences, 76, 11, 1670-1678.	Q3(SJR) Q4(JCR)	0.3
7*	**Petrova, M.,** Dimitrova, L., Dimitrova, M., Denev, P., Teneva, D., Georgieva, A., Petkova-Kirova, P., Lazarova, M., Tasheva, K. (2023). Antitumor and antioxidant activities of *in vitro* cultivated and wild-growing *Clinopodium vulgare* L. Plants. Plants, 12(8), 1591.	Q1 (SJR) Q1(JCR)	4.0
8*	**Petrova, M**., Nikolova, M., Dimitrova, L., Dimitrova, M., Sergiev, I. (2023). *In vitro* multiplication and GC/MS-based metabolic profiles of *Cichorium intybus* L. Journal of microbiology, biotechnology and food sciences, 13(2), e9688-e9688.	Q3(SJR) Q4(JCR)	0.6
9	Sichanova, M., Geneva, M., **Petrova, M**., Miladinova-Georgieva, K., Kirova, E., Nedev, T., Tsekova, D., Ivanova, V., Trendafilova, A. (2023).	Q1 (SJR) Q1(JCR)	4.0

	Influence of the abiotic elicitors Ag salts of aspartic acid derivatives, self-organized in nanofibers with monomeric and dimeric molecular structures, on the antioxidant activity and stevioside content in micropropagated *Stevia rebaudiana* Bert. Plants, 12(20), 3574.		
10*	Tasheva, K., Georgieva, A., Denev, P., Dimitrova, L., Dimitrova, M., Misheva, S., Petkova-Kirova, P., Lazarova, M., **Petrova, M.** (2023). Antioxidant and antitumor potential of micropropagated Balkan endemic *Sideritis scardica* Griseb. Plants, 12(23), 3924.	Q1 (SJR) Q1(JCR)	4.0
11	Miladinova-Georgieva, K., Geneva, M., Stancheva, I., **Petrova, M.**, Sichanova, M., Kirova, E. (2023). Effects of different elicitors on micropropagation, biomass and secondary metabolite production of *Stevia rebaudiana* Bertoni—A review. Plants, 12(1), 153.	Q1 (SJR) Q1(JCR)	4.0
12	Geneva, M., Stancheva, I., Kirova E, **Petrova M**, Hendawy S, Zayova E. (2022) Assessment of antioxidant activity of *in vitro* obtained plant of *Coleus forskohlii* Briq. Journal of Microbiology, Biotechnology and Food Sciences, 11, 4, e3840-e3840.	Q3(SJR)	0.9
13*	Kirova, E., Geneva, M., **Petrova, M.**, Miladinova-Georgieva, K., Sichanova, M. (2022) Employment of nanoparticles for improvement of plant growth and development. Botanica, 28(2), 113-132.	Q4(SJR)	-
14*	Miladinova-Georgieva, K., Geneva, M., **Petrova, M.**, Kirova, E., Vezenkov, L. (2022) Effect of creatine and creatine lysinate on the *in vitro* cultivation and antioxidant potential of *Stevia rebaudiana* Bertoni and *Leontopodium alpinum* Cass. Research Journal of Biotechnology, 17, 12, 148-158.	Q4 (SJR) Q4(JCR)	0.2
15	Sichanova, M., Geneva, M., **Petrova, M.**, Miladinova-Georgieva, K., Kirova, E., Nedev, T., Tsekova, D., Iwanov, I., Dochev, K., Ivanova, V., Trendafilova, T. (2022) Improvement of *Stevia rebaudiana* Bertoni *in vitro* propagation and steviol glycoside content using aminoacid silver nanofibers. Plants, 11(19), 2468.	Q1 (SJR) Q1(JCR)	4.5
16	Stanilova, M., Traykova, B., Vladimirov, V., **Petrova, M.**, Semerdjieva, I., Yankova-Tsvetkova, E. (2022) *In vitro* micropropagation of *Helichrysum arenarium* (Asteraceae) as a tool for introducing the species in agriculture. Comptes rendus de l'Académie bulgare des Sciences, 75, 10, 1454-1461.	Q3(SJR) Q4(JCR)	0.3
17	Yankova-Tsvetkova, E., **Petrova, M.**, Grigorova, I., Traykova, B., Stanilova, M. (2022). The establishment of an *ex situ* collection of *Primula veris* in Bulgaria. Plants, 11(22), 3018.	Q1 (SJR) Q1(JCR)	4.5
18	Abou Obaid, Y. A., Zehirov, G., Again-Stoyanova, N., **Petrova, M.**, Haddad, R. H., Karam, F. S., Shaban N.T, Vassilevska-Ivanova, R. (2022). Effects of inorganic and foliar fertilizers on antioxidant capacity and flower yield of saffron (*Crocus sativus* L.). Acta Agrobotanica, 75(1).	Q2(SJR)	1.2
19*	**Petrova M.**, Nikolova M., Dimitrova M., Dimitrova L. (2021) Assessment of the effect of plant growth regulators on *in vitro* micropropagation and metabolic profiles of *Melissa officinalis* L. (lemon balm). Journal of Microbiology, Biotechnology and Food Sciences, 11(3), e4077-e4077.	Q3(SJR)	-
20*	**Petrova, M.**, Zayova, E., Geneva, M., Dimitrova, L., Vitkova, A., Stanilova, M. (2021) Multiplication and conservation of threatened medicinal plant	Q3(SJR)	-

	Arnica montana L. by *in vitro* techniques. Agriculturae Conspectus Scientificus, 86(1), 57-65		
21	Todorova, D., Katerova, Z., Dimitrova, R., **Petrova, M.**, Hristozkova, M., & Sergiev, I. (2020) Exogenous spermine application increases quantity of rosmarinic acid and carnosic acid in salt-treated *Salvia officinalis* L. plants in pot experiments. Comptes Rendus de L'Academie Bulgare des Sciences, 73, 6, 800-808.	Q2(SJR) Q4(JCR)	0.378
22*	**Petrova, M.**, Zayova, E., Dimitrova, L., Geneva, M., Miladinova-Georgieva, K. (2019) Micropropagation studies and antioxidant analysis of the endangered plants of Bulgarian yellow gentian (*Gentiana lutea* L.). Acta Scientiarum Polonorum Hortorum Cultus, 18, 3, 71-78.	Q3(SJR) Q4(JCR)	0.616
23	Zayova, E., Geneva, M., Stancheva, I., Dimitrova, L., **Petrova, M.**, Hristozkova, M., & Salamon, I. (2018) Evaluation of the antioxidant potential of *in vitro* propagated hyssop (*Hyssopus officinalis* L.) with different plant growth regulators. Medicinal Plants - International Journal of Phytomedicines and Related Industries, 10(4), 295-304	Q4(SJR)	-
24	Zayova, E., Stancheva, I., Geneva, M., Hristozkova, M., Dimitrova, L., **Petrova, M.**, Sichanova, M., Salamon, I., Mudroncekova, S. (2018). Arbuscular mycorrhizal fungi enhance antioxidant capacity of *in vitro* propagated garden thyme (*Thymus vulgaris* L.). Symbiosis, 74, 177-187.	Q1(SJR) Q3(JIF)	2.009
25	Zayova, E., **Petrova, M.**, Nikolova, M., Dimitrova, L. (2016). Effect of medium salt strength on the micropropagation, phenolic content and antioxidant activity of *Arnica montana* L., threatened plant species. Bio. Bulletin, 2, 6-13.	-	-
26	Zayova, E. G., Stancheva, I. V., Geneva, M. P., **Petrova, M. I.**, Dimitrova, L. I. (2016). Comparison of antioxidant activity of the fruits derived from *in vitro* propagated and traditionally cultivated tayberry plants. Journal of the Science of Food and Agriculture, 96(10), 3477-3483.	Q1(SJR) Q1(JIF)	2.463
27	Zayova, E., Nikolova, M., Dimitrova, L., **Petrova, M**. (2016). Comparative study of *in vitro*, *ex vitro* and *in vivo* propagated *Salvia hispanica* (Chia) plants: morphometric analysis and antioxidant activity. AgroLife Scientific Journal, *5*(2), 166-173.	-	-
28	Todorova, M., Trendafilova, A., Vitkova, A., **Petrova, M**., Zayova, E., Antonova, D. (2016). Developmental and environmental effects on sesquiterpene lactones in cultivated *Arnica montana* L. Chemistry & Biodiversity, 13(8), 976-981.	Q2(SJR) Q4(JIF)	1.440
29*	**Petrova, M**., Zayova, E., Dincheva, I., Badjakov, I., Vlahova, M. (2015). Influence of carbon sources on growth and GC-MS based metabolite profiling of *Arnica montana* L. hairy roots. Turkish Journal of Biology, *39*(3), 469-478.	Q2(SJR) Q3(JIF))	1.183
30*	**Petrova, M.,** Nikolova, M., Dimitrova, L., Zayova, E. (2015). Micropropagation and evaluation of flavonoid content and antioxidant activity of *Salvia officinalis* L. Genetics and Plant Physiology, *5*(1), 48-60.	-	-
31*	**Petrova, M**., Zayova, E., Todorova, M., Stanilova, M. (2014) Enhancement of *Arnica montana in-vitro* shoot multiplication and sesquiterpene lactones	-	-

	production using temporary immersion system. International journal of pharmaceutical sciences and research, 5, 12, 5170-5176.		
32	Zayova, E., **Petrova, M**., Dimitrova, L., Vasilevska-Ivanova, R., Stoeva, D. (2014). Effect of different auxins on *in vitro* rooting of *Paulownia elongata* propagated plants. Genetics and Plant Physiology, 4(9), 155-162.	-	-
33*#	**Petrova, M.,** Zayova, E., Vlahova, M. (2013). Induction of hairy roots in *Arnica montana* L. by *Agrobacterium rhizogenes*. Central European Journal of Biology, *8*, 470-479.	Q2(SJR) Q4(JIF)	0.633
34	Zayova, E., **Petrova, M**., Vasilevska-Ivanova, R., Stoeva, D., Krapchev, B. (2013). A tissue culture technique for propagation of *Paulownia elongata* tree. Biological Diversity and Conservation, 6(3), 1-5.	-	-
35	Zayova, E., Stancheva, I., Geneva, M., **Petrova, M**., Dimitrova, L. (2013). Antioxidant activity of *in vitro* propagated *Stevia rebaudiana* Bertoni plants of different origins. Turkish Journal of Biology, 37(1), 106-113.	Q2(SJR) Q3(JIF)	1.216
36	Nikolova, M., **Petrova, M**., Zayova, E., Vitkova, A., Evstatieva, L. (2013). Comparative study of *in vitro*, *ex vitro* and *in vivo* grown plants of *Arnica montana*–polyphenols and free radical scavenging activity. Acta Botanica Croatica, 72(1), 13-22.	Q4(SJR) Q4(JIF)	0.449
37	Nikolova, M., Vitkova, A., Zayova, E., **Petrova, M.** (2013) Flavonoid Profiles, Polyphenolic content and antiradical properties of cultivated plants of *Arnica montana* L. AgroLife Scientific Journal, 2 (2), 20-24	-	-
38*	**Petrova, M**., Zayova, E., Vassilevska-Ivanova, R., Vlahova, M. (2012). Biotechnological approaches for cultivation and enhancement of secondary metabolites in *Arnica montana* L. Acta Physiologiae Plantarum, 34, 1597-1606.	Q2(SJR) Q2(JIF)	1.305
39	Zayova, E., Stancheva, I., Geneva, M., **Petrova, M**., Vasilevska-Ivanova, R. (2012). Morphological evaluation and antioxidant activity of *in vitro*-and *in vivo*-derived *Echinacea purpurea* plants. Central European Journal of Biology, 7(4), 698-707.	Q2(SJR) Q3(JIF)	0.818
40*	**Petrova M**., Zayova E., Vitkova A., Evstatieva L. (2012) Effect of sorbitol on growth of *Gentiana lutea* plants for *in vitro* conservation. Proceedings of the Seventh Conference on Medicinal and Aromatic Plants of Southeast European Countries, Institute for Medicinal Plant Research "Dr Josif Pančić", Belgrade and Association for Medicinal and Aromatic Plants of Southeast European Countries (AMAPSEEC), 2012, 321-325	-	-
41*	**Petrova M**., Zayova E., Vlahova M., Evstatieva L., Vitkova A. (2012) Establishment of *Arnica montana* L. cell suspension culture. Proceedings of the Seventh Conference on Medicinal and Aromatic Plants of Southeast European Countries, Institute for Medicinal Plant Research "Dr Josif Pančić", Belgrade and Association for Medicinal and Aromatic Plants of Southeast European Countries (AMAPSEEC), 2012, ISBN:978-86-83-141-16-6, 345-350	-	-
42	Evstatieva L., Todorova M., **Petrova M**. Vegetative cultivation of *Arnica montana* L. in Bulgaria. (2012) Proceedings of the Seventh Conference on Medicinal and Aromatic Plants of Southeast European Countries, Institute for Medicinal Plant Research "Dr Josif Pančić", Belgrade and Association	-	-

	for Medicinal and Aromatic Plants of Southeast European Countries (AMAPSEEC), 2012, ISBN:978-86-83-141-16-6, 263-266		
43*#	**Petrova M.**, Zayova E., Todorova M., Staneva J., Vitkova A., Evstatieva L. (2011) Sesquiterpene Lactones Contents in Multiple *In Vitro* Shoots of Three *Arnica montana* Populations. ISHS Acta Horticulturae, 955, In I International Symposium on Medicinal, Aromatic and Nutraceutical Plants from Mountainous Areas (MAP-Mountain 2011) 955 (pp. 93-99).	Q3(SJR)	-
44*#	**Petrova M**., Zayova E., Evstatieva L. (2011) *In vitro* conservation by slow growth of *Arnica montana*. Proceedings of the 4th International Symposium "New Researches in Biotechnology" SimpBTH2011, Series F XV, University of Agronomical sciences and Veterinary medicine Bucharest, 2011, ISSN 1224-7774, 56-62	-	-
45*	**Petrova, M.**, Zayova, E., Vitkova, A. (2011). Effect of silver nitrate on *in vitro* root formation of *Gentiana lutea*. Romanian Biotechnological Letters, 16(6), 53-58.	Q3(SJR) Q4(JIF)	0.349
46*#	**Petrova, M**., Zayova, E., Yankova, E., Baldzhiev, G. (2011). Plant regeneration from callus culture of *Arnica montana*. Romanian Biotechnological Letters, 16(1), 92-97.	Q3(SJR) Q4(JCR)	0.349
47	Zayova, E., Vassilevska-Ivanova, R., **Petrova, M**., Nedev, T. (2010) Micro-propagation of *Valeriana officinalis* trough tissue culture. Comptes Rendus de L'Academie Bulgare des Sciences, 63(12), 1749-1756.	Q2(SJR) Q3(JIF)	0.219
48	Yankova, E., Baldzhiev, G., **Petrova, M**., Zayova, E., Yurukova, P. (2010). Analysys on pollen and seed productivity and effectivenes in *Gentiana lutea* L. Biotechnology & Biotechnological Equipment, 24(sup1), 45-48.	Q3(SJR) Q4(JCR)	0.503
49*	**Petrova, M**., Zayova, E., Vlahova, M. (2008) Induction of callus cultures in *Arnica montana*. Genetics and Breeding, 37, 3-4, 37-34	-	-
50*	**Petrova, M**., Stoilova, T., Zagorska, N. (2006). Isoenzyme and protein patterns of *in vitro* micropropagated plantlets of *Gentiana lutea* L. after application of various growth regulators. Biotechnology & Biotechnological Equipment, 20(1), 15-19.	Q4(SJR)	-
51*	**Petrova, M.**, Zagorska, N., Tasheva, K., Evstatieva, L. (2006) *In vitro* propagation of *Gentiana lutea* L. Genetics and Breeding, 35, 1-2, 63-68	-	-
52*	**Petrova, M.**, Tasheva, K., Zagorska, N., Evstatieva, L. (2005) *In vitro* propagation of *Arnica montana* L. Comptes Rendus de L'Academie Bulgare des Sciences, 58, 67-72.	Q3(SJR)	-

В син цвят са публикациите, включени в списъка за участие в конкурс за заемане на академична длъжност „доцент"

#- публикации, включени в дисертацията за придобиване на ОНС "Доктор" № 33, 43, 44, 46

Първи или кореспондиращ автор № 3, 4, 6, 7, 8, 10,13, 14, 19, 20, 22, 29, 30, 31,33, 38, 40, 41, 43, 44, 45, 46, 49, 50, 51, 52

Обзорни статии в списания – 4

СПРАВКА

КЪМ СПИСЪКА НА НАУЧНИТЕ ПУБЛИКАЦИИ

на гл. ас. д-р Мария Иванова Петрова за участие в конкурс за заемане на

академична длъжност „доцент“

Разпределение на публикациите по квартили (SCOPUS):

Q1- 12

Q2- 9

Q3-13

Q4- 5

Научни публикации в списания, реферирани от други бази данни, или публикувани преди въвеждане на разпределението по квартили: 9

Научни публикации, публикувани в пълен текст в сборник от конференции – 4

Списък с автори:

- Първи или автор за кореспонденция: 26

Тип научни публикации:

- Научна статия: 48

- Научен обзор: 4

JCR импакт фактор на всички публикации: **59.230**

JCR импакт фактор на публикациите, в които М. Петкова е първи или кореспондиращ автор: **22.435**

H индекс без автоцитати и полуцитати: **9**

Списание	Брой статии	№ от списъка	Сума от JCR IF за съответната година на издаване
Plants	7	3,7,9,10,11,15,17	4+4+4+4+4+4.5+4.5=29.000
BMC Plant Biology	1	1	4.300
Agronomy	1	5	3.300
Comptes rendus de l’Académie bulgare des Sciences	6	2,6,16,21,47,52	0.3+0.3+0.3+0.378+0.219=1.497
Journal of Microbiology,	3	8,12,19	0.6+0.9=1.500

Biotechnology and Food Sciences			
International Journal of Molecular Sciences	1	4	4.900
Turkish Journal of Biology	2	29,35	1.183+1.216=2.399
Chemistry & Biodiversity	1	28	1.440
Acta Physiologiae Plantarum	1	38	1.305
Central European Journal of Biology	2	33,39	0.633+0.818=1.451
Research Journal of Biotechnology	1	14	0.200
Acta Botanica Croatica	1	36	0.449
Biotechnology & Biotechnological Equipment	2	48,50	0.503
Romanian Biotechnological Letters	2	45,46	0.349+0.349=0.698
Symbiosis	1	24	2.009
Journal of the Science of Food and Agriculture	1	26	2.463
Botanica	1	13	-
Agriculturae Conspectus Scientificus	1	20	-
Acta Scientiarum Polonorum Hortorum Cultus	1	22	0.616
Acta Agrobotanica	1	18	1.200
Medicinal Plants - International Journal of Phytomedicines and Related Industries	1	23	-
International journal of pharmaceutical sciences and research	1	31	-
Genetics and Plant Physiology	2	30,32	-

AgroLife Scientific Journal	2	27,37	-
Bio Bulletin	1	25	-
Genetics and Breeding	2	49,51	-
Acta Horticulturae	1	43	
Biological Diversity and Conservation	1	34	-
Proceedings of the 4th International Symposium “New Researches in Biotechnology” SimpBTH2011, Series F	1	44	-
Proceedings of the Seventh Conference on Medicinal and Aromatic Plants of Southeast European Countries, Institute for Medicinal Plant Research “Dr Josif Pančić”, Belgrade and (AMAPSEEC)	3	40,41,42	-
Общо	52		**59.230**

Април 2025

Изготвил: 

(Мария Петкова)