

Memoriu de activitate științifică

Date privind doctorandul:	
Nume / Prenume	Nicolescu Alexandru

1. Articole publicate in extenso în reviste și volumele unor manifestari științifice indexate ISI, Web of Science, Core collection, cu factor de impact - autor principal

Nr. Crt.	Titlul, Autorii, Calitatea autorului, Revista, volum, nr. pagini, Factorul de impact, Quartila, Anul, Link al lucrării
1.	Optimized Ultrasound-Assisted Enzymatic Extraction of Phenolic Compounds from <i>Rosa canina</i> L. Pseudo-Fruits (Rosehip) and Their Biological Activity, Nicolescu A , Babotă M, Zhang L, Bunea CI, Gavrițaș L, Vodnar DC, Mocan A, Crișan G, Rocchetti G., Prim autor, Antioxidants, 11(6), 1123, FI = 7,0, Q1, 2022, https://doi.org/10.3390/antiox11061123
2.	Potential therapeutic applications of infusions and hydroalcoholic extracts of Romanian glutinous sage (<i>Salvia glutinosa</i> L.), Nicolescu A , Babotă M, Ilea M, Dias MI, Calhelha RC, Gavrițaș L, Rocchetti G, Crișan G, Mocan A, Barros L, Pârnu AE, Prim autor, Frontiers in Pharmacology, 13, 975800, FI = 5,6, Q1, 2022, https://doi.org/10.3389/fphar.2022.975800
3.	Biological Activity of Bark Extracts from Northern Red Oak (<i>Quercus rubra</i> L.): An Antioxidant, Antimicrobial and Enzymatic Inhibitory Evaluation, Tanase C, Nicolescu A , Nisca A, Ștefănescu R, Babotă M, Mare AD, Ciurea CN, Man A, Prim autor cu contribuție egală, Plants, 11(18), 2357, FI = 4,5, Q1, 2022, https://doi.org/10.3390/plants11182357
4.	Comparative Phytoremediation Potential of <i>Eichhornia crassipes</i> , <i>Lemna minor</i> , and <i>Pistia stratiotes</i> in Two Treatment Facilities in Cluj County, Romania, Buta E, Borșan IL, Omotă M, Trif EB, Bunea CI, Mocan A, Bora FD, Rózsa S, Nicolescu A , Autor corespondent și ultim autor, Horticulturae, 9(4):503, FI = 3,1, Q1, 2023, https://doi.org/10.3390/horticulturae9040503
5.	Bioaccessibility and bioactive potential of different phytochemical classes from nutraceuticals and functional foods, Nicolescu A , Babotă M, Barros L, Rocchetti G, Lucini L, Tanase C, Mocan A, Bunea CI, Crișan G, Prim autor, Frontiers in Nutrition, 10:1184535, FI = 4,0, Q2, 2023, https://doi.org/10.3389/fnut.2023.1184535
6.	Valorization of Corn Silk as an Agricultural By-Product through the Optimization of Ultrasound-Assisted Extraction, Mihali C, Frumuzachi O, Nicolescu A , Babotă M, Păltinean R, Tanase C, Mocan A, Autor corespondent, Applied Sciences, 14(4):1516, FI = 2,5, Q2, 2024, https://doi.org/10.3390/app14041516
7.	Green Synthesis of Metallic Nanoparticles from Quercus Bark Extracts: Characterization and Functional Properties, Coman N-A, Nicolae-Maranciuc A, Berța L, Nicolescu A , Babotă M, Man A, Chicea D, Farczadi L, Jakab-Farkas L, Silva B, et al., Autor corespondent, Antioxidants, 13(7):822, FI = 6,6, Q1, 2024, https://doi.org/10.3390/antiox13070822
8.	Association of enzymatic and optimized ultrasound-assisted aqueous extraction of flavonoid glycosides from dried <i>Hippophae rhamnoides</i> L. (Sea Buckthorn) berries, Nicolescu, A , Babotă, M, Aranda Cañada, E, Inês Dias, M, Añibarro-Ortega, M, Cornea-Cipcigan, M, Tanase, C, Radu Sisea, C, Mocan, A, Barros, L, Crișan, G, Prim autor, Ultrasonics Sonochemistry, 108, 106955, 2024, FI = 9.7, Q1 (top 1 cvartilă), https://doi.org/10.1016/j.ultsonch.2024.106955
9.	Separation and identification of individual anthocyanins from the petals of some rose cultivars, Pasere, IC, Roman, GM, Bunea, CI, Bunea, A, Nicolescu, A , Pintea, A, Autor corespondent, Notulae Botanicae Horti Agrobotanici Cluj-Napoca, 52(3), 13772, FI = 1,3, Q3, 2024, https://doi.org/10.15835/nbha52313772
10.	Ultrasound-assisted sustainable extraction of bioactive phytochemicals in shallot (<i>Allium</i>

	<i>ascalonicum</i> L.) peel: A DoE and metabolomics combined approach, Moldovan, C, Nicolescu, A , Frumuzachi, O, Rocchetti, G, Lucini, L, Mocan, A, Crișan, G, Prim autor cu contribuție egală, Sustainable Chemistry and Pharmacy, 41, 101729, FI = 5,8, Q1, 2024, https://doi.org/10.1016/j.scp.2024.101729
11.	Total flavonoid content revised: An overview of past, present, and future determinations in phytochemical analysis, Nicolescu, A , Bunea, CI, Mocan, A, Prim autor, Analytical Biochemistry, 700, 115794, FI = 2,5, Q3, 2025, https://doi.org/10.1016/j.ab.2025.115794
12.	A Groundbreaking Comparative Investigation of Manual Versus Mechanized Grape Harvesting: Unraveling Their Impact on Must Composition, Enological Quality, and Economic Viability in Modern Romanian Viticulture, Topan, CG, Bunea, CI, David, AP, Călugăr, A, Babeș, AC, Popescu, M, Mateaș, FR, Nicolescu, A , Bora, FD, Autor corespondent, AgriEngineering, 7(5), 163, FI = 3,0, Q2, 2025, https://doi.org/10.3390/agriengineering7050163

2. Articole publicate in extenso în reviste și volumele unor manifestari științifice indexate ISI, Web of Science, Core collection, cu factor de impact - coautor

Nr. Crt.	Titlul, Autorii, Revista, volum, nr. pagini, Factorul de impact, Quartila, Anul, Link al lucrării
1.	Biological and Chemical Insights of Beech (<i>Fagus sylvatica</i> L.) Bark: A Source of Bioactive Compounds with Functional Properties, Tanase, C., Mocan, A., Coșarcă, S., Gavan, A., Nicolescu, A , Gheldiu, A-M, Vodnar, DC, Muntean, D-L, Crișan, O, Antioxidants, 8(9), 417, FI = 5,0, Q1, 2019, https://doi.org/10.3390/antiox8090417
2.	Antibacterial and Antioxidant Potential of Silver Nanoparticles Biosynthesized Using the Spruce Bark Extract, Tanase, C, Berta, L, Coman, NA, Roșca, I, Man, A, Toma, F, Mocan, A, Nicolescu, A , Jakab-Farkas, L, Biró, D, Mare, A, Nanomaterials, 9(11), 1541, FI = 4,3, Q2, 2019, https://doi.org/10.3390/nano9111541
3.	<i>Quercus robur</i> Older Bark—A Source of Polyphenolic Extracts with Biological Activities, Ștefănescu, R, Ciurea, CN, Mare, AD, Man, A, Nisca, A, Nicolescu, A , Mocan, A, Babotă, M, Coman, N-A, Tanase, C, Applied Sciences, 12(22), 11738, FI = 2,7, Q2, 2022, https://doi.org/10.3390/app122211738
4.	A Comparative Analysis of Polyphenol Content and Biological Potential of <i>Quercus petraea</i> Matt. and <i>Q. pubescens</i> Willd. Bark Extracts, Nisca, A, Ștefănescu, R, Mocan, A, Babotă, M, Nicolescu, A , Mare, AD, Ciurea, CN, Man, A, Tanase, C, Forests, 14(1), 116, FI = 2,4, Q1, 2023, https://doi.org/10.3390/f14010116
5.	Potential Use of <i>Quercus dalechampii</i> Ten. and <i>Q. frainetto</i> Ten. Barks Extracts as Antimicrobial, Enzyme Inhibitory, Antioxidant and Cytotoxic Agents, Tanase, C, Babotă, M, Nișca, A, Nicolescu, A , Ștefănescu, R, Mocan, A, Farczadi, L, Mare, AD, Ciurea, CN, Man, A, Pharmaceutics, 15(2), 343, FI = 4,9, Q1, 2023, https://doi.org/10.3390/pharmaceutics15020343
6.	<i>Thymus</i> Species from Romanian Spontaneous Flora as Promising Source of Phenolic Secondary Metabolites with Health-Related Benefits, Babotă, M, Frumuzachi, O, Nicolescu, A , Dias, MI, Pinela, J, Barros, L, Añibarro-Ortega, M, Stojković, D, Carević, T, Mocan, A, López, V, Crișan, G, Antioxidants, 12(2), 390, FI = 6,0, Q1, 2023, https://doi.org/10.3390/antiox12020390
7.	Phenolic profile, <i>in vitro</i> antimicrobial and <i>in vivo</i> diuretic effects of endemic wild thyme <i>Thymus comosus</i> Heuff ex. Griseb. (Lamiaceae) from Romania, Babotă M, Frumuzachi O, Nicolescu A , Stojković D, Soković M, Rocchetti G, Zhang L, Lucini L, Crișan G, Mocan A, Voștinaru O, Frontiers in Pharmacology, 14:1115117, FI = 4,4, Q1, https://doi.org/10.3389/fphar.2023.1115117
8.	Pomegranate Fruit Cracking during Maturation: From Waste to Valuable Fruits, Frascchetti, C, Goci, E, Nicolescu, A , Cairone, F, Carradori, S, Filippi, A, Palmieri, V, Mocan, A, Cesa, S, <i>Foods</i> , 12(9), 1908, FI = 4,7, Q1, 2023, https://doi.org/10.3390/foods12091908
9.	The Influence of Ecological Factors on the Phytochemical Characteristics of <i>Pinus cembra</i> L.,

	Coman, N-A, Babotă, M, Nădășan, I, Nicolescu, A , Pitaru, AR, Ștefănescu, R, Mocan, A, Frumuzachi, O, Tanase, C, Applied Sciences, 13(18), 10184, FI = 2,5, Q2, 2023, https://doi.org/10.3390/app131810184
10.	Unravelling Heavy Metal Dynamics in Soil and Honey: A Case Study from Maramureș Region, Romania, Bora, FD, Babeș, AC, Călugăr, A, Jitea, MI, Hoble, A, Filimon, RV, Bunea, A, Nicolescu, A , Bunea, CI, Foods, 12(19), 3577, FI = 4,7, Q1, 2023, https://doi.org/10.3390/foods12193577
11.	Exploring polyphenols extraction from <i>Thuja occidentalis</i> L. bark: Optimization, phytochemical profiling, and biological evaluation, Coman, N, Babotă, M, Nădășan, I, Lucian, R, Ștefănescu, R, Frumuzachi, O, Mocan, A, Nicolescu, A , Tanase, C, BioResources, 19(1), 842-857, FI = 1,6, Q2, 2024, https://doi.org/10.15376/biores.19.1.842-857
12.	Antioxidant, Enzyme Inhibitory, and Protective Effect of <i>Amelanchier lamarckii</i> Extract, Dăescu, AM, Nistor, M, Nicolescu, A , Pop, R, Bunea, A, Rugina, D, Pinte, A, Plants, 13(10), 1347, FI = 4,1, Q1, 2024, https://doi.org/10.3390/plants13101347
13.	Physicochemical, Antimicrobial Properties and Mineral Content of Several Commercially Available Honey Samples, Yaman, K, Nicolescu, A , Tepe, O, Cornea-Cipcigan, M, Aydoğan-Çoşkun, B, Mărgăoan, R, Şenoğul, D, Topal, E, Bouari, CM, Applied Sciences, 14(18), 8305, FI = 2,5, Q2, 2024 https://doi.org/10.3390/app14188305
14.	Green synthesis of platinum nanoparticles using aqueous bark extract of quercus sp. for potential antioxidant and antimicrobial applications, Coman, N, Berta, L, Nicolae-Maranciuc, A, Nicolescu, A , Babotă, M, Man, A, Chicea, D, Farczadi, L, Jakab-Farkas, L, Tanase, C, BioResources, 19(4), 862, FI = 1,6, Q2, 2024, https://doi.org/10.15376/biores.19.4.8621-8641
15.	UHPLC-MS/MS-based chemometric approach for investigating the effect of conventional versus modern extraction methods on in vitro antioxidant, α -glucosidase, and lipase actions, Zayed, A, Zahran, HA, Li, Z., Khalifa, I, Serag, A, Fayek, NM, Nicolescu, A , Mocan, A, Capanoglu, E, Farag, MA, Food Bioscience, 62, 105496, FI = 5,9, Q1, 2024, https://doi.org/10.1016/j.fbio.2024.105496
16.	Biosynthesis of Palladium Nanoparticles by Using Aqueous Bark Extract of <i>Quercus dalechampii</i> , <i>Q. frainetto</i> , and <i>Q. petraea</i> for Potential Antioxidant and Antimicrobial Applications., Coman, N-A, Babotă, M, Nicolescu, A , Nicolae-Maranciuc, A, Berta, L, Man, A, Chicea, D, Farczadi, L, Tanase, C, Plants, 13(23), 3390, FI = 2,5, Q1, 2024, https://doi.org/10.3390/plants13233390
17.	D-Optimal Design-Based Ultrasound-Assisted Extraction Optimization and Extensive Bio-Structural Analysis of Phenolic Compounds from Romanian Cornelian Cherry (<i>Cornus mas</i> L.) Genotypes, Frumuzachi, O, Nicolescu, A , Babotă, M, Mocan, A, Sisea, C-R, Hera, O, Sturzeanu, M, Rohn, S, Lucini, L, Crișan, G, Rocchetti, G, Food Bioprocess Technology, 18, 7915–7932, FI = 5,8, Q1, 2025, https://doi.org/10.1007/s11947-025-03914-6
18.	Sustainable valorization of lignocellulosic corn husks via solid-state fermentation: enhanced recovery of phenolic compounds and organic acids, Frumuzachi, O, Nicolescu, A , Martău, G-A, Odocheanu, R, Ranga, F, Mocan, A, Vodnar, DC, Bioresource Technology, 436, 132959, FI = 9,0, Q1, 2025, https://doi.org/10.1016/j.biortech.2025.132959
19.	Multi-targeted MS-based metabolomics fingerprinting of black and white pepper coupled with molecular networking in relation to their in vitro antioxidant and antidiabetic effects, Baky, MH, Maamoun, AA, Nicolescu, A , Mocan, A, Farag, MA, RSC Advances, 15(34), 27606–27622, FI = 4,6, Q2, 2025, https://doi.org/10.1039/d5ra03714j
20.	Enhancing the phenolic profile and antioxidant activity in corn silk via solid-state fermentation with <i>Aspergillus niger</i> , Frumuzachi O, Nicolescu A , Martău GA, Odocheanu R, Ranga F, Mocan A, Vodnar DC, Innovative Food Science & Emerging Technologies, 105, 104239, FI = 6,8, Q1, 2025, https://doi.org/10.1016/j.ifset.2025.104239

ALTE TIPURI DE PUBLICAȚII

1. Articole publicate in extenso în reviste și volumele unor manifestari științifice indexate ISI, Web of Science, Core collection fără factor de impact sau BDI - autor principal

Nr. Crt.	Titlul, Autorii, Calitatea autorului, Revista, volum, nr. pagini, Anul, Link al lucrării
1.	Environmental pollution effect on honey bees and their derived products: a comprehensive analysis, Margaoan, R, Papa, G, Nicolescu, A et al., Autor corespondent, Environmental Science and Pollution Research, 32, 10370–10391, 2025, https://doi.org/10.1007/s11356-024-33754-4

Editare de cărți, cursuri și caiete de lucrări practice pentru studenți sau pentru cursuri postuniversitare:

- Capitol de carte, co-autor: Babotă, M, Frumuzachi, O, **Nicolescu, A**, Ielciu, I, Păltinean, R, Crișan, G, Mocan, A, 2022. Bioactive Phenolic Compounds from Mushrooms Edible Fungi: Chemical Composition, Nutrition and Health Effects. The Royal Society of Chemistry, pp.139-160, ISBN 978-1-83916-401-9.

Participări cu lucrări la manifestări științifice naționale

- Prezentare E-poster – Congresul Național de Farmacie, 27-29 septembrie 2023, ediția a XIX-a – **Nicolescu A**, Babotă M, Pârnu AE, Mocan A, Crișan G “Potențiale aplicații terapeutice ale infuziilor și extractelor hidroalcoolice de cînstet (*Salvia glutinosa* L.), ID: 1206.

Participări cu lucrări la manifestări științifice internaționale

- Prezentare E-poster – Zilele Universității de Medicină și Farmacie “Iuliu Hațieganu”, 9 decembrie 2022, Cluj-Napoca, România (cu participare internațională) – **Nicolescu A**, Babotă M, Breazu A, Mocan A, Crișan G. „Development of an extract enriched in polyphenols from *Rosa canina* L. pseudo-fruits using an optimized extraction method”- Medicine and Pharmacy Reports; Abstracts of the Annual Meeting of the ”Iuliu Hațieganu” University of Medicine and Pharmacy, p. S128
- Lucrare (coator) – 10th International Symposium on RECENT ADVANCES IN FOOD ANALYSIS, September 6–9, 2022 Prague, Czech Republic Stability, Bioaccessibility and Enzyme Inhibition Potential of Anthocyanins Pigments from *Amelanchier lamarkii* Berries, Daescu A, Nistor M, Rugina D, **Nicolescu A**, Pinteia A
- Prezentare Workshop – Marisiensis International Scientific Congress, 24 mai 2025, Târgu Mureș, România, *Opti_X_trAction!* How can we optimize the extraction of bioactive compounds from plant matrices? Babotă M, Tanase C, **Nicolescu A**

Participări la manifestări științifice internaționale

- Participare la Congresul al X-lea al farmaciștilor din Republica Moldova, cu participare internațională: “Facultatea de Farmacie – Șase Decenii de Inovație și Progres”, Chișinău, Republica Moldova, 22-23 noiembrie 2024

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