

APPENDIX 1

PUBLICATION LIST

MARANCIUC (before NICOLAE) Alexandra
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I. SCIENTIFIC ARTICLES

1. **Nicolae-Maranciuc, A**, Brezestean I.A, Tripton S.-C., Campu, A. *Comparative and Optimized Chemical Synthesis of AgNPs for Improved Surface Reactivity and Potential Biosensing Applications*. *Nanomaterials*, **2025**, 15, 23, <https://doi.org/10.3390/nano15231749>, **Index AIS/IF Q2**
2. **Nicolae-Maranciuc, A***, Chicea, D.*. *Polymeric Systems as Hydrogels and Membranes Containing Silver Nanoparticles for Biomedical and Food Applications: Recent Approaches and Perspectives*. *Gels*, **2025**, 11, 9, 699, <https://doi.org/10.3390/gels11090699> , **Index AIS/IF Q1**
***corresponding author**
3. Chicea, D.*†, **Nicolae-Maranciuc, A*†**. *Metal Nanocomposites as Biosensors for Biological Fluids Analysis*. *Materials*, **2025**, 18, 8, 1809, <https://doi.org/10.3390/MA18081809> , **Index AIS/IF Q1**
***corresponding author, †equal contribution**
4. Chicea, D.*; **Nicolae-Maranciuc, A***. *A Review of Chitosan-Based Materials for Biomedical, Food, and Water Treatment Applications*. *Materials*, **2024**, 17, 23, 5770, <https://doi.org/10.3390/ma17235770>, **Index AIS/IF Q1**
***corresponding author**
5. Coman, N.-A.; Babotă, M.; Nicolescu, A.; **Nicolae-Maranciuc, A.**; Berța, L.; Man, A.; Chicea, D.; Farczadi, L.; Tănase, C. *Biosynthesis of Palladium Nanoparticles by Using Aqueous Bark Extract of *Quercus dalechampii*, *Q. frainetto*, and *Q. petraea* for Potential Antioxidant and Antimicrobial Applications*. *Plants*, 2024, 13, 23, 3390, <https://doi.org/10.3390/plants13233390> , **Index AIS/IF Q2**
6. Coman, N.-A.; Berța, L.; **Nicolae-Maranciuc, A.**; Nicolescu, A.; Babotă, M.; Man, A.; Chicea, D.; Farczadi, L.; Jakab-Farkas, L.; Tănase, C. *Green Synthesis of Platinum Nanoparticles Using Aqueous Bark Extract of *Quercus* sp. for Potential Antioxidant and Antimicrobial Applications*. *Bioresources*, **2024**, 19, 4, <https://doi.org/10.15376/biores.19.4.8621-864> , **Index WoS AIS/IF Q2**
7. 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. *Green Synthesis of Metallic Nanoparticles from *Quercus* Bark Extracts: Characterization and Functional Properties*. *Antioxidants*, **2024**, 13, 7, 822. <https://doi.org/10.3390/antiox13070822>, **Index WoS AIS/IF Q1**
8. Chicea, D.*; **Nicolae-Maranciuc, A.***; Chicea, L.-M. *Silver Nanoparticles-Chitosan Nanocomposites: A Comparative Study Regarding Different Chemical Syntheses Procedures and Their Antibacterial Effect*. *Materials*, **2024**, 17, 5, 1113. <https://doi.org/10.3390/ma17051113>, **Index WoS AIS/IF Q1**
***corresponding author**

9. Chicea, D.*; **Nicolae-Maranciuc, A.***; Doroshkevich, A.S.; Chicea, L.M.; Ozkendir, O.M. *Comparative Synthesis of Silver Nanoparticles: Evaluation of Chemical Reduction Procedures, AFM and DLS Size Analysis*. *Materials*, **2023**, 16, 15, 5244. <https://doi.org/10.3390/ma16155244>, **Index WoS AIS/IF Q1**
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10. **Nicolae-Maranciuc, A.**; Chicea, D.; Chicea, L.M. *Ag Nanoparticles for Biomedical Applications—Synthesis and Characterization—A Review*. *Int. J. Mol. Sci*, **2022**, 23, 5778, <https://doi.org/10.3390/ijms23105778>, **Index WoS IF Q1/AIS Q2**
11. **Nicolae, A.** *Biomaterials in ophthalmology: human cornea bioengineering*. *Bioengineering International*. **2019**, 1, 1, p. 12-18
12. **Nicolae, A.** *Strategies based on stem cells for tissue engineering*. *Biomaterials and Tissue Engineering Bulletin*. **2018**, 5, 1-2, p.91-96

II. CHAPTER BOOKS

1. **Nicolae, A.** *Chapter II: Collagen in tissue engineering*. In: *Tissue engineering*. LAP LAMBERT Academic Publisher, **2020**. p.31-61. ISBN: 978-620-2-51800-0
2. **Nicolae, A.**; Grumezescu, A.M. *Chapter 14 - Recent progress in polyester–urethanes*. In: *Materials for Biomedical Engineering: Absorbable polymers*. Elsevier, **2019**. p. 409-423. ISBN: 978-0-12-818415-8, **Index WOS**
3. **Nicolae, A.**; Grumezescu, A.M. *Chapter 1 - Polymer fibers in biomedical engineering*. In: *Materials for Biomedical Engineering: Biopolymers fibers*. Elsevier, **2019**. p. 1-20. ISBN: 978-0-12-816872-1, **Index Scopus**
4. **Nicolae, A.** *Chapter X: Recent approaches for skin tissue engineering*. In: *Organ Bioengineering*. LAP LAMBERT Academic Publisher, **2019**. p.335-364. ISBN: 978-620-0-09351-6

III. PROCEEDINGS PAPERS

1. **Nicolae-Maranciuc, A.**; Chicea, D. *Stable PEG-Silver Nanoparticles Biomaterial for Medical Applications*, 2024 IEEE 14th International Conference, “Nanomaterials: Applications & Properties” (IEEE NAP-2024), **2024**, <https://doi.org/10.1109/NAP62956.2024.10739768> , **Index WoS**
2. Chicea, D.; **Nicolae-Maranciuc, A.** *Direct Optical Particle Tracking - a technique for size distribution assessment*, *Annals of “Dunarea de Jos” University of Galati. Fascicle II, Mathematics, Physics, Theoretical Mechanics*, **2023**, 46, 2, DOI: <https://doi.org/10.35219/ann-ugal-math-phys-mec.2023.2.01>

3. Chicea, D.; **Maranciuc, A.** *Direct Optical Particle Tracking for Particle Size Distribution Assessment*. 8th International Conference on Sensors Engineering and Electronics Instrumentation Advances, SEIA' 2022, p. 203-210, ISBN: 978-84-09-43854-9
4. Chicea, D.; Codescu M.M.; **Nicolae, A.**; Doroshkevych, O.; Islamov, A.; Kulik, M. *Nanoparticles Size Distribution Assessment During Early Synthesis Stages*. MATEC Web Conf. 2021, 343 01005, eISSN: 2261-236X

IV. CONFERENCES

1. **Nicolae-Maranciuc, A.** (poster presentation); Chicea, D.; Campu, A. *Plasmonic Soft Hydrogel based on Metallic Nanoparticles for Optical Biosensing*, 8th International Conference on Emerging Technologies in Materials Engineering, October 06-07, 2025, Bucharest, Romania
2. **Nicolae-Maranciuc, A.** (oral presentation); Campu, A.; Chicea, D. *Silver Nanoparticles-Natural Compounds Green Formulations as Antibacterial Agents for Hybrid Hydrogels Encapsulation*. IEEE 15th International Conference. Nanomaterials: Applications & Properties, September 07-12, 2025, Bratislava, Slovakia
3. Nicolae-Maranciuc, A.; Chicea, D.; **Campu, A.** (poster presentation). *Biocompatible Plasmonic Nanoparticle-Doped Hydrogel for Facile Optical Detection of Cortisol*. 15th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META), July 22-25, 2025, Malaga, Spain
4. **Nicolae-Maranciuc, A.** (oral presentation); Chicea, D. *Stable PEG-Silver Nanoparticles Biomaterial for Medical Applications*. IEEE 14th International Conference. Nanomaterials: Applications & Properties, September 08-13, 2024, Riga, Latvia
5. **Nicolae-Maranciuc, A.** (oral presentation); Chicea, D. *Chitosan hydrogel based on silver nanoparticles-nanocomposites for tissue engineering applications*. FORTHEM – For the Future Conference, March 06-08, 2024, online
6. Chicea, D.; **Nicolae-Maranciuc, A.** (poster presentation). *Direct Optical Particle Tracking - a technique for size distribution assessment*. International Conference and Workshop “Interdisciplinary applications of advanced analytical and control techniques in environment, health and materials science - INTERVENT”, October 19-20, 2023, Galați, Romania
7. Chicea, D.; Neague, P.; **Nicolae-Maranciuc, A.** (oral presentation). *A dimensional and structural characterization of Ag-Nps*. 21st International Balkan Workshop on Applied Physics and Materials Science, July 11-14, 2023, Constanta, Romania
8. Chicea, D.; **Nicolae-Maranciuc, A.** (oral presentation). *Using direct particle tracking to assess Fe₃O₄*. 2nd World Conference on Materials Science and Nanotechnology, May 26-28, 2023, Brussels, Belgium
9. Chicea D.; Maranciuc, A.; **Olaru, S.** (poster presentation). *Nanoparticles size distribution assessment by Direct Optical Particle Tracking*. TIM 22 Physics Conference, November 23-25, 2022, Timisoara, Romania
10. **Maranciuc, A.** (poster presentation); Chicea D.; Codescu, M.M. *A comparison of silver micro and nanoparticles with different synthesis methods*. 5th International Conference on Emerging Technologies in Materials Engineering (EmergeMAT), October 27-28, 2022, Bucharest, Romania

11. Chicea, D.; **Maranciuc, A.** (poster presentation). *Direct Optical Particle Tracking for Particle Size Distribution Assessment*. 8th International Conference on Sensors Engineering and Electronics Instrumentation Advances (SEIA' 2022), September 21-23, **2022**, Corfu, Greece
12. Chicea, D.; **Maranciuc, A.** (oral presentation). *Ag-Nps for biomedical applications- synthesis and characterization*. 20th International Balkan Workshop on Applied Physics and Materials Science, July 12-15, **2022**, Constanta, Romania
13. Chicea, D.; Codescu M.M.; **Nicolae, A.** (oral presentation); Doroshkevych, O.; Islamov, A.; Kulik, M. *Nanoparticles Size Distribution Assessment During Early Synthesis Stages*. 10th International Conference on Manufacturing Science and Education (MSE 2021), June 02-04, **2021**, Sibiu, Romania

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