

Lista lucrărilor publicate

Titlul tezei de doctorat: „Utilizarea tehnicilor hifenate pentru studiul unor obiecte de patrimoniu”

Articole în reviste indexate ISI

1. M.M. Budiul, G. Vlase, D. Negru, D. Okolišan, I.A. Bradu, **A. Tășală**, A. Pahomi, T. Vlase, D. Jumanca, A. Galuscan, P. Sfirloaga, N. Carabă, R. Popescu, A. Matichescu. 2024. Dental biopolymer composites with antibiotics, bisphosphonate and hydroxyapatite for possible use in bone tissue regeneration. *Journal of Chemistry*. DOI: 6614044 <https://doi.org/10.1155/2024/6614044>.
2. A. Pahomi, I.A. Potinteu, **A.M. Tășală**, B.D. Cernușcă, P. Sfirloagă, T. Vlase, G. Vlase, M.M. Budiul. 2025. Thermal treatment and polymer matrix diffusion effects on hydroxyapatite particle size evolution. *Polymers*. DOI: <https://doi.org/10.3390/polym17172323>.
3. C.D. Ionaș, M.M. Budiul, **A. Cioponea**, A. Pahomi T. Vlase, D. Okolišan, M. Grădinaru, G. Vlase. 2026. Environmental sensitivity of Prasugrel hydrochloride: A study of light and moisture effects. *J.Therm.Anal.Calorim*. DOI: <https://doi.org/10.1007/s10973-026-15500-9>.
4. M.M. Budiul, D. Okolišan, G. Vlase, **A. Tășală**, M. Grădinaru, A. Pahomi, C. Ionaș, T. Vlase. 2026. Stability under thermal stress: a thermoanalytical and spectroscopic insight into flunarizine dihydrochloride and its binary mixtures. *J.Therm.Anal.Calorim*. DOI: <https://doi.org/10.1007/s10973-026-15740-9>.
5. G. Ursuț, D. Vlase, G. Vlase, **A. Cioponea**, A. Pahomi, P. Sfirloaga, I.A. Bărbat, F. Manea, I.A. Potinteu, L. Pitulice, T. Vlase. 2026. Multiple technique analysis of pottery and clay samples from the Neolithic settlement Șoimuș – Teleghi (Romania). *J.Therm.Anal.Calorim*. DOI: <https://doi.org/10.1007/s10973-026-15429-z>.
6. **A. Cioponea**, D. Vlase, I.A. Potinteu, A. Pahomi, G. Ursuț, P. Sfirloagă, C.I. Suci, F. Manea, S.V. Predescu, G. Vlase, T. Vlase. 2026. Pottery and clay: analysis of late Neolithic pottery and clay samples from the Ronaț-Triaj site (Timișoara, Timis County, Romania) using hyphenated techniques. *J.Therm.Anal.Calorim*. DOI: <https://doi.org/10.1007/s10973-026-15909-2>.
7. **A. Cioponea**, G. Vlase, A. Pahomi, M.M. Budiul, S. Trion, L. Palade, T. Vlase. 2026. Study of common blue pigments used in paintings: insights from thermal, spectroscopic, and microscopic analysis. *npj Herit. Sci*. DOI: <https://doi.org/10.1038/s40494-026-02941-6>.

Listă alte contribuții științifice din domeniu

1. A. Tășală, D. Dascălu. Tratarea apelor reziduale în vederea reutilizării. *Revista de Chimie CHIMMAX*. Nr.24. 2021. Pp.1-8. ISSN:1842-2888.

Participări conferințe naționale și internaționale

1. Cioponea, Ș.A. Bărbuceanu, G. Vlase, S. Trion, L. Palade, I. Bănceanu, A. Pahomi, T. Vlase. Identification and compatibility assessment of blue pigments and consolidants in historical glass paintings. 14th European Symposium on Thermal Analysis and Calorimetry. 15-18 Septembrie 2026, Split, Croația, Poster presentation.
2. Ș.A. Bărbuceanu, A. Cioponea, C. Epuran, A. Pahomi, P. Sfirloagă, S. Trion, L. Palade, T. Vlase, S. Olea, G. Vlase. Multi-techniques analysis of Roman-Dacian stone undergoing hydrogel-based cleaning treatments. 14th European Symposium on Thermal Analysis and Calorimetry. 15-18 Septembrie 2026, Split, Croația, Poster presentation.
3. A. Cioponea, G. Vlase, A. Pahomi, M.M. Budiul, S. Trion, L. Palade, T. Vlase. Study of Blue pigments used in paintings: Insights from thermal and hyphenated analytical techniques. 1st International Symposium Fusion: Color, Science and Art Conservation. 8 Mai 2026, Timișoara, România, Oral presentation.
4. Ș.A. Bărbuceanu, S. Olea, T. Vlase, A. Cioponea, A. Pahomi, S. Trion, L. Palade, G. Vlase. Evaluation of cleaning methods applied on Roman stone fragments in the context of educational practice. 1st International Symposium Fusion: Color, Science and Art Conservation. 8 Mai 2026, Timișoara, România, Oral presentation.
5. L. Palade, S. Trion, Ș. Raul, G. Vlase, A. Pahomi, M.M. Budiul, T. Vlase, A. Cioponea. From dye to lake: recreating historical recipes for art conservation education. 1st International Symposium Fusion: Color, Science and Art Conservation. 8 Mai 2026, Timișoara, România, Oral presentation.
6. S. Trion, L.M. Palade, T. Vlase, A. Tășală, A. Pahomi. Assessment of non woven tissue materials used in varnish removals of a 19th century Romanian icon. Conferința Internațională de Conservare-Restaurare a Societății Croate de Restaurare – ConRestCon 2025, 14 Octombrie 2025, Zagreb, Croația, Poster presentation.
7. A. Tășală, T. Vlase, G. Vlase, A. Pahomi, M.M. Budiul, S. Trion, L.M. Palade, I.M. Bujancă, Study of blue pigments used in paintings: Insights from thermal and hyphenated analytical techniques. 4th Journal of Thermal Analysis and Calorimetry Conference and 10th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference, 24-27 Iunie 2025, Budapesta, Ungaria, Poster presentation.
8. A. Tășală, T. Vlase, G. Vlase, S. Trion, A. Pahomi, M.M. Budiul, L.M. Palade, A. Diuța, Characterization of red pigments mixtures with binders used in restorations through hyphenated techniques, 4th Journal of Thermal Analysis and Calorimetry Conference and 10th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference, 24-27 Iunie 2025, Budapesta, Ungaria, Poster presentation.
9. M.M. Budiul, A. Pahomi, G. Vlase, T. Vlase, M. Grădinaru, D. Okolišan, C. Ionaș, A. Tășală, Preformulation studies for antipyretic and analgesic drug in novel pharmaceutical formulation. 4th Journal of Thermal Analysis and Calorimetry Conference and 10th V4 (Joint

Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference, 24-27 Iunie 2025, Budapesta, Ungaria, Poster presentation.

10.M.M. Budiul, D. Okolišan, G. Vlase, T. Vlase, M. Grădinaru, A. Pahomi, C. Ionaș, A. Tășală. Thermoanalytical and spectroscopic study of flunarizine dihydrochloride and binary mixtures of drug and excipients stored in extreme environments. 4th Journal of Thermal Analysis and Calorimetry Conference and 10th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference, 24-27 Iunie 2025, Budapesta, Ungaria, Poster presentation.

11.A. Tășală, T. Vlase, G. Vlase, I.A. Bradu, S. Trion, L.M. Palade, A. Diuța, I.M. Bujancă, I. Bănceanu. Pigment authentication methods for contemporary artworks. International Conference „Urban Body - Human Body.Bridging Heritage and Contemporary Art”, 27-28 Noiembrie 2024, Timișoara, România, Oral presentation.

12.A. Tășală, T. Vlase, G. Vlase, I.A. Bradu, S. Trion, L.M. Palade, I.M. Bujancă. A comparative study between blue pigments from original painting layers and contemporary replicas, 33rd Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy, 17-18 Octombrie 2024, Timișoara, România, Poster presentation.

13.A. Tășală, T. Vlase, G. Vlase, I.A. Bradu, S. Trion, L.M. Palade, A. Diuța. The study of red pigments in powder form and mixed with binders using physical and chemical investigations, 33rd Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy, 17-18 Octombrie 2024, Timișoara, România, Poster presentation.

14.A. Tășală, T. Vlase, G. Vlase, I.A. Bradu, A. Pahomi, S. Trion, L.M. Palade, M.I. Bujancă. Thermal and hyphenated technics in the study of pigments used in paintings. 33rd Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy, 17-18 Octombrie 2024, Timișoara, România, Poster presentation.

15.A. Pahomi, M. Budiul, G. Vlase, I.A. Bradu, A. Tășală, T. Vlase. Evaluation of interactions between polymer-gelatin hydrogels and prophyphenazone, 17-18 Octombrie 2024, Timișoara, România, Poster presentation.

16.B. Vlad-Oros, D. Pădurean, A. Pahomi, A. Tășală, G. Vlase, T. Vlase. Soil phosphate analysis of archaeological soil from Arad county, 17-18 Octombrie 2024, Timișoara, România, Poster presentation.

17.I.A. Bradu, A. Tășală, G. Vlase, T. Vlase. Compatibility study for leflunomide delivery systems, 7th Ed. of International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences, "IC-ANMBES 2024", 17-20 Septembrie 2024, Brașov, România, Poster presentation.

18.G. Vlase, A. Tășală, A. Pahomi, M. Budiul, T. Vlase, *Compatibility study for new transdermal leflunomide delivery systems*, 3rd Journal of Thermal Analysis and Calorimetry

Conference and 9th V4 (Joint Czech-Hungarian Polish-Slovakian) Thermoanalytical Conference, 20-23 Iunie, Balatonfured, Ungaria, Poster presentation.

19.A. Tășală, A. Pahomi. *Synthesis and characterization of silver ion doped hydroxyapatite*. 31st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy, 20-22 Octombrie 2022, Reșița, România, Poster presentation.

20.G. Vlase, D. Negru, I.A. Bradu, A. Tășală, A. Pahomi, D. Okolisan, T. Vlase, M.M. Budiul, D. Jumanca, P. Sfirloagă, A. Matichescu. *Composites with antibiotics, bisphosphonate and hydroxyapatite for dental applications*, 31st Symposium on Thermal Analysis and Calorimetry "Eugen Segal" of the Commission for Thermal Analysis and Calorimetry of the Romanian Academy, 20-22 Octombrie 2022, Reșița, România, Poster presentation.

21.A. Tășală, L. Pitulice, O. Bizerea-Spiridon. *Selenium status in patients affected by COVID-19*. Student Scientific Session. Faculty of Food Engineering, Tourism, and Environmental Protection, 19th Edition, 25-26 Noiembrie, Arad, România, Oral presentation.

22.A. Tășală, D. Dascălu. *Medicul din umbră al apei*. Simpozionul „Apa – Esența vieții – AquaSensTim21”, Oral presentation.