

Publications 2017

1. G. Pricope, E. L. Ursu, M. Sardaru, C. Cojocaru, L. Clima, N. Marangoci, R. Danac, I. Mangalagiu, B. C. Simionescu, M. Pinteala, A. Rotaru*. Novel cyclodextrin-based pH-sensitive supramolecular host-guest assembly for staining acidic cellular organelles. *Polymer Chemistry*, sent for publication: PY-ART-09-2017-001668 (2017).
2. T. Vasiliu, C. Cojocaru, D. Peptanariu1, A. I. Dascalu, M. Pinteala, A. Rotaru*. Polyplex formation between cyclodextrin-based non-viral vector and dsDNA: molecular dynamic study with experimental validation. *Revue Roumaine de Chimie*, sent for publication: RRC 1187 (2017).
3. A. Rotaru, G. Pricope, T. Planck, L. Clima, L. Ursu, M. Pinteala, J. Davis, M. Barboiu. G-Quartet Hydrogels for Effective Cell Growth Applications. *Journal of the American Chemical Society*, sent for publication: ja-2017-07740g, (2017).
4. T. Vasiliu, C. Cojocaru, A. Rotaru, G. Pricope, M. Pinteala, L. Clima. Optimization of Polyplex Formation between DNA Oligonucleotide and Poly(L-Lysine): Experimental Study and Modeling Approach. *Int. J. Mol. Sci.*, (2017), 18, 1291.
doi:10.3390/ijms18061291
5. E. L. Ursu, F. Doroftei, D. Peptanariu, M. Pinteala, A. Rotaru*. DNA-assisted decoration of single-walled carbon nanotubes with gold nanoparticles for applications in surface-enhanced Raman scattering imaging of cells. *J. Nanopart. Res.*, (2017), 19, 181.
doi:10.1007/s11051-017-3876-9

International meetings 2017

Alexandru Rotaru, “DNA-Assisted Decoration of Single-Walled Carbon Nanotubes with Metal Nanoparticles”.

20th Romanian International Conference on Chemistry and Chemical Engineering,
September 6-9, 2017, Poiana Brasov, Romania, (15 min. Presentation).

Alexandru Rotaru, “Supramolecular systems for biomedical applications”.

1st International Workshop “PROTEOMICS – from Introduction to Clinical Applications”,
July 9-13, 2017, Iasi, Romania, (30 min. Presentation).

Alexandru Rotaru, “Cell Imaging: from new non-toxic Fluorescent Dyes to Raman Probes based on Metal Nanoparticles – Carbon Nanotube Nanoconjugates”.

Ninth Cristofor I. Simionescu Symposium Frontiers in Macromolecular and Supramolecular Science,
June 13-14, 2017, Iasi, Romania, (30 min. Presentation).

Elena-Laura Ursu, Gabriela Pricope, Alexandru Rotaru, “Single-Walled Carbon Nanotubes Hybrid Hydrogels for Biomedical Applications”.

20th Romanian International Conference on Chemistry and Chemical Engineering,
September 6-9, 2017, Poiana Brasov, Romania, (poster).