

Candidat abilitare: CSII dr. Alexandru Rotaru

Lista cu lucrări științifice relevante pentru domeniul tezei de abilitare

Nr.	Articol	FIC
1	N. V. Voigt, T. Tørring, A. Rotaru , M. F. Jacobsen, J. B. Ravnsbæk, R. Subramani, W. Mamdouh, J. Kjems, A. Mokhir, F. Besenbacher, K. V. Gothelf. Single molecule chemical reactions on DNA origami. <i>Nature Nanotechnology</i> , 5, 200, (2010).	38,1
2	A. Rotaru , S. Dutta, E. Jentzsch, K. V. Gothelf, A. Mokhir. Selective dsDNA-templated formation of copper nanoparticles in solution. <i>Angewandte Chemie Int. Ed.</i> , 49, 5665, (2010).	16,1
3	A. Rotaru , A. Mokhir. "Caged" nucleic acid binders, which can be activated by green or red light. <i>Angewandte Chemie Int. Ed.</i> , 119(32), 6293, (2007).	16,1
4	S. Helmig, A. Rotaru , D. Arian, J. Arnbjerg, P. Ogilby, J. Kjems, A. Mokhir, F. Besenbacher, K. V. Gothelf. Single molecule AFM studies of photosensitized singlet oxygen behavior on a DNA origami template. <i>ACS Nano</i> , 4(12), 7475, (2010).	15,8
5	E. L. Ursu, G. Gavril, S. Morariu, M. Pinteala, M. Barboiu, A. Rotaru . Single-walled carbon nanotubes–G-quadruple hydrogel nanocompositematrixes for cell support applications. <i>Materials Science & Engineering C</i> , 111, 110800, (2020).	8,1
6	M. C. Sardaru, I. Rosca, S. Morariu, E. L. Ursu, R. Ghiarasim, A. Rotaru . Injectable Thixotropic β -Cyclodextrin–functionalized Hydrogels Based on Guanosine Quartet Assembly. <i>International Journal of Molecular Sciences</i> , 22, 9179, (2021).	4,9
7	M. C. Sardaru, S. Morariu, O. E. Carp, E. L. Ursu, A. Rotaru , M. Barboiu. Dynameric G-quadruplex-dextran hydrogels for cell growth applications. <i>Chemical Communications</i> , 59, 3134, (2023).	4,3
8	A. Rotaru , G. Pricope, T. Planck, L. Clima, E. L. Ursu, M. Pinteala, J. Davis, M. Barboiu. G-quartet hydrogels for effective cell growth applications. <i>Chemical Communications</i> , 53, 12668, (2017).	4,3
9	G. Pricope, M. Sardaru, E. L. Ursu, C. Cojocaru, L. Clima, N. Marangoci, R. Danac, I. Mangalagiu, B. C. Simionescu, M. Pinteala, A. Rotaru . Novel pH-sensitive supramolecular host-guest assembly for staining cell acidic organelles. <i>Polymer Chemistry</i> , 9, 968, (2018).	4,1
10	M. C. Sardaru, I. Rosca, C. Ursu, A. I. Dascalu, E. L. Ursu, S. Morariu, A. Rotaru . Photothermal Hydrogel Composites Featuring G4-Carbon Nanomaterial Networks for Staphylococcus aureus Inhibition. <i>ACS Omega</i> , 9(14) 15833-15844 (2024).	3,7

Data: 04.03.2025

Candidat: Dr. Alexandru Rotaru

