

Ioniță Elena Gabriela

Profil academic și științific

Cercetător principal I în cadrul Academiei Române, Institutul de Chimie Fizică "Ilie Murgulescu"

Obținere atestat abilitare în anul 2014 în Domeniul Chimie.

100 articole cotate ISI, indice Hirsch 17.

Director pentru 8 proiecte nationale in perioada 2004-2019.

Arie tematică / teme de cercetare

Spectroscopie de rezonanță electronică de spin (RES)

Interacții necovalente în sisteme moleculare

Publicatii recente:

Popescu, E.I., Aricov, L., Mocanu, S., Matei, I., Hristea, E., Baratoiu, R., Leonties, A., Petcu, C., Alexandrescu, E, Ionita, G., "Subtle influence on alginate gel properties through host-guest interactions between covalently appended cyclodextrin and adamantane units", (2021) *New Journal of Chemistry* 45, 8083-8091.

Mocanu, S., Ionita, G., Matei, I., "Solvatochromic characteristics of dansyl molecular probes bearing alkyl diamine chains", (2020) *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, 237, art. no. 118413.

Ionita, G., Mocanu, S., Matei, I., "Conformational preferences of TEMPO type radicals in complexes with cyclodextrins revealed by a combination of EPR spectroscopy, induced circular dichroism and molecular modeling", (2020) *Physical Chemistry Chemical Physics*, 22 (21), pp. 12154-12165.

Matei, I., Buta, C.M., Turcu, I.M., Culita, D., Munteanu, C., Ionita, G., "Formation and stabilization of gold nanoparticles in bovine serum albumin solution", (2019) *Molecules*, 24 (18), art. no. 3395.

Baratoiu, R., Mocanu, S., Matei, I., Bem, M., Hristea, E., Tecuceanu, V., Ionita, G., "A Comparison of the Behavior of Monomolecular and Dual Molecular Probes in F127/Cyclodextrin Systems", (2019) *Macromolecular Chemistry and Physics*, 220 (5), art. no. 1800489.

Constantin, M.M., Corbu, C.G., Tanase, C., Codrici, E., Mihai, S., Popescu, I.D., Enciu, A.-M., Mocanu, S., Matei, I., Ionita, G., "Spin probe method of electron paramagnetic resonance spectroscopy-a qualitative test for measuring the evolution of dry eye syndrome un-der treatment", (2019) *Analytical Methods*, 11 (7), pp. 965-972.

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Mocanu, S., Matei, I., Ionescu, S., Tecuceanu, V., Marinescu, G., Ionita, P., Culita, D., Leonties, A., Ionita, G., "Complexation of β -cyclodextrin with dual molecular probes bearing fluorescent and paramagnetic moieties linked by short polyether chains", (2017) *Physical Chemistry Chemical Physics*, 19 (40), pp. 27839-27847.

Neacsu, M.V., Matei, I., Micutz, M., Staicu, T., Precupas, A., Popa, V.T., Salifoglou, A., Ionita, G., "Interaction between Albumin and Pluronic F127 Block Copolymer Revealed by Global and Local Physicochemical Profiling", (2016) *Journal of Physical Chemistry B*, 120 (18), pp. 4258-4267.

Ionita, G., Madalan, A.M., Ariciu, A.M., Medvedovici, A., Ionita, P., "Synthesis of novel TEMPO stable free (poly)radical derivatives and their host-guest interaction with cucurbit[6]uril", (2016) *New Journal of Chemistry*, 40 (1), pp. 503-511.

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