Dr. Maria KARAYIANNI

Postdoctoral researcher
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Research topics

Polymer science, physicochemical characterization and self-assembly of macromolecules in solution, protein/polyelectrolyte electrostatic complexation, spectroscopic structural studies of proteins, interactions between natural and synthetic biocompatible polymers and organic/inorganic species (e.g., drugs, genes, magnetic nanoparticles, bioimaging probes) towards the development of formulations relevant to bioapplications, etc. Technical expertise include light scattering (dynamic, static, and electrophoretic) and spectroscopic (UV-Vis, fluorescence, IR, Raman, circular dichroism) techniques, as well as calorimetric (DSC and ITC) and thermal analysis (TGA) methods.

Scientific research

Author and co-author of 9 ISI articles and 1 review (9 in Q1 zone and 1 in Q2 zone), 3 book chapters, 10 poster and 6 oral conference presentations, 225 citations (HI = 8).

Visibility

www.linkedin.com/in/maria-karayianni-031b4642
https://orcid.org/0000-0003-2311-0109;
https://www.scopus.com/authid/detail.uri?authorId=6505925266;
https://scholar.google.gr/citations?hl=en&user=zqOYRCkAAAAJ

Relevant publications

1. **M. Karayianni**, S. Pispas, **Block copolymer solution self-assembly: Recent advances, emerging trends, and applications**, *J. Polym. Sci.*, 59 (17) (2021) 1874-1898. **Q2** (**IF_{2021} = 3.046**). DOI: 10.1002/pol.20210430
2. **M. Karayianni**, R. Radeva, N. Koseva, S. Pispas, **Electrostatic complexation of a double hydrophilic block polyelectrolyte and proteins of different molecular shape**, *J. Polym. Sci., Part B: Polym. Phys.*, *54*(15) (2016) 1515-1529. **Q1** (**IF_{2021} = 2.499**). DOI: 10.1002/polb.24047
3. **M. Karayianni**, V. Gancheva, S. Pispas, P. Petrov, **Complex formation between lysozyme and stabilized micelles with a mixed poly(ethylene oxide)/poly(acrylic acid) shell**, *J. Phys. Chem. B 120*(9) (2016) 2625-2637. **Q1** (**IF_{2021} = 3.466**). DOI: 10.1021/acs.jpcb.6b00550
4. **M. Karayianni**, S. Pispas, **Complexation of stimuli-responsive star-like amphiphilic block polyelectrolyte micelles with lysozyme**, *Soft Matter. 8*(33) (2012) 8758-8769. **Q1** (**IF_{2021} = 4.046**). DOI: 10.1039/C2SM26084K
5. **M. Karayianni**, S. Pispas, G. D. Chryssikos, V. Gionis, S. Giatrellis, G. Nounesis, **Complexation of lysozyme with poly(sodium(sulfamate-carboxylate)isoprene)**, *Biomacromolecules*, *12*(5) (2011) 1697-1706. **Q1** (**IF_{2021} = 6.978**). DOI: 10.1021/bm200066t