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ΜΑΡΙΑ ΚΑΡΑΓΙΑΝΝΗ

LIST OF PUBLICATIONS
ΚΑΤΑΛΟΓΟΣ ΔΗΜΟΣΙΕΥΣΕΩΝ
(10/2020)

I. Ph.D. Thesis – Διδακτορική Διατριβή

“Polymer Self-Assembly: Polyelectrolytes and Their Complexes with Proteins”,
Chemistry Department, University of Athens, Greece, **2012**.

«Αυτοοργάνωση Πολυμερών: Πολυηλεκτρολύτες και Σύμπλοκά τους με
Πρωτεΐνες», Τμήμα Χημείας, Σχολή Θετικών Επιστημών, Εθνικό και
Καποδιστριακό Πανεπιστήμιο Αθηνών, Ελλάδα, **2012**

II. Chapters in Books – Κεφάλαια σε Βιβλία

1. M. Karayianni, S. Pispas, “Block polyelectrolyte micelles/protein mixed nanostructures in aqueous media”, in *Micelles: Structural Biochemistry, Formation and Functions & Usage*, ed. D. Bradburn, T. Bittinger, *Nova Science Publishers*, pp. 281-298, **2014**. ISBN: [978-1-62948-445-7](https://doi.org/10.1007/978-1-62948-445-7)
2. M. Karayianni, S. Pispas, “Self-assembly of amphiphilic copolymers in selective solvents”, in *Springer Series on Fluorescence: Fluorescence Studies of Polymer Containing Systems*, ed. K. Procházka, Springer International Publishing, pp. 27-63, **2016**. DOI: [10.1007/978-3-319-26788-3_2](https://doi.org/10.1007/978-3-319-26788-3_2)

III. Research Papers – Επιστημονικά Περιοδικά

1. A. Papagiannopoulos, M. Karayianni, G. Mountrichas, S. Pispas, A. Radulescu, “Self-Assembled Nanoparticles from a Block Polyelectrolyte in Aqueous Media: Structural Characterization by SANS”, *J. Phys. Chem. B*, **2010**, *114* (22), 7482-7488. DOI: [10.1021/jp1009912](https://doi.org/10.1021/jp1009912)
2. M. Karayianni, G. Mountrichas, S. Pispas, “Solution Behavior of Poly(sodium(sulfamate-carboxylate)isoprene), a pH Sensitive and Intrinsically Hydrophobic Polyelectrolyte”, *J. Phys. Chem. B*, **2010**, *114* (33), 10748-10755. DOI: [10.1021/jp104838f](https://doi.org/10.1021/jp104838f)
3. M. Karayianni, S. Pispas, G. D. Chryssikos, V. Gionis, S. Giatrellis, G. Nounesis, “Complexation of Lysozyme with Poly(sodium(sulfamate-

- carboxylate)isoprene)", *Biomacromolecules*, **2011**, *12* (5), 1697-1706. DOI: [10.1021/bm200066t](https://doi.org/10.1021/bm200066t)
4. M. Karayianni, S. Pispas, "Complexation of stimuli-responsive star-like amphiphilic block polyelectrolyte micelles with lysozyme", *Soft Matter*, **2012**, *8* (33), 8758-8769. DOI: [10.1039/C2SM26084K](https://doi.org/10.1039/C2SM26084K)
 5. A. Papagiannopoulos, M. Karayianni, G. Mountrichas, S. Pispas, A. Radulescu, "Micellar and fractal aggregates formed by two triblock terpolymers with different arrangements of one charged, one neutral hydrophilic and one hydrophobic block", *Polymer*, **2015**, *63*, 134-143. DOI: [10.1016/j.polymer.2015.03.004](https://doi.org/10.1016/j.polymer.2015.03.004)
 6. N. Pippa, M. Karayianni, S. Pispas, C. Demetzos, "Complexation of cationic-neutral block polyelectrolyte with insulin and *in vitro* release studies", *Int. J. Pharm.*, **2015**, *491* (1-2), 136-143. DOI: [10.1016/j.ijpharm.2015.06.013](https://doi.org/10.1016/j.ijpharm.2015.06.013)
 7. 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*, **2016**, *120* (9), 2625-2637. DOI: [10.1021/acs.jpccb.6b00550](https://doi.org/10.1021/acs.jpccb.6b00550)
 8. 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.*, **2016**, *54* (15), 1515-1529. DOI: [10.1002/polb.24047](https://doi.org/10.1002/polb.24047)
 9. A. Papagiannopoulos, M. Karayianni, S. Pispas, A. Radulescu, "Formation of complexes in aqueous solutions of amphiphilic triblock polyelectrolytes of different topologies and an oppositely charged protein", *Soft Matter*, **2018**, *14* (15), 2860-2869. DOI: [10.1039/C8SM00208H](https://doi.org/10.1039/C8SM00208H)

IV. Conference Proceedings – Πρακτικά Συνεδρίων

1. A. Melitsiotis, M. Karayianni, A. Zoikis-Karathanasis, I. Deligkiozi, E. Georgiou, D. Drees, G. Timmermans, "Upscaling of pulse electrodeposition process for the production of Ni-P/SiC nanocomposite protective coatings", *Proceedings of the 12th Panhellenic Scientific Conference in Chemical Engineering*, **2019**. PDF: [PN0258.pdf](#)