

## Aristeidis Papagiannopoulos

### LIST OF PUBLICATIONS

#### A. PhD THESIS

“The Structure and Dynamics of Polyelectrolyte Combs”, School of Physics and Astronomy, University of Leeds, 2005.

#### B. INVITED BOOK CHAPTERS

1. A. Papagiannopoulos, and E. Koutsopoulou, *Clay-reinforced ionotropically cross-linked biopolymeric matrices for drug release*, in *Ionotropic Cross-Linking of Biopolymers: Applications in Drug Delivery*, and Eds. A.K. Nayak, Elsevier, ISBN: - (2023).
2. M.-N. Efthymiou, E. Tsouko, E. Vlassi, A. Papagiannopoulos, A. Koutinas, and S. Pispas, *Bio-based and nanostructured hybrids for green and active food packaging*, in *Bio and nano-sensing technologies for food processing and packaging*, Eds. A. K. Shukla, Royal Society of Chemistry, ISBN: 978-1-83916-432-3 (2022).
3. M. Chountoulesi, N. Naziris, A. Gioran, A. Papagiannopoulos, B. R. Steele, M. Michascrettas, S. G. Stavriniades, M. Haniyas, N. Chondrogianni, S. Pispas, C. Arbez-Gindre, and C. Demetzos, *Applications of nanotechnology in Alzheimer's disease*, in *Handbook of Computational Neurodegeneration*, Eds. P. Vlamos, I. S. Kotsireas, and I. Tarnanas, Springer, ISBN: 978-3-319-75479-6 (2022).
4. A. Papagiannopoulos, *Investigations of Complex Functional Bionanoformulations by Small Angle Neutron Scattering*, in *Functional Materials in Biomedical Applications*, Eds. C. Demetzos, N. Pippa, and N. Naziris, Jenny Stanford Publishing, ISBN: 9781003411468 (2022).
5. A. Papagiannopoulos, E. Stefanopoulou, E. Vlassi, and S. Pispas, *Polymeric bionanomaterials for diabetes applications*, in *Bionanotechnology: Emerging Applications of Bionanomaterials*, Eds. A. Barhoum, J. Jeevanandam, and M. K. Danquah, Elsevier, ISBN: 978-0-12-823915-5 (2022).
6. A. Papagiannopoulos, and E. Vlassi, *Biological macromolecules for growth factor delivery in bone regeneration*, in *Biological Macromolecules: Bioactivity and Biomedical Applications*, Eds. A. K. Nayak, A.K. Dhara, and D. Pal, Elsevier, ISBN: 978-0-323-85759-8 (2022).
7. A. Papagiannopoulos, and E. Stefanopoulou, *Nanogels as theranostic platforms: Drug delivery, targeting and imaging*, in *Theranostic Nanosystems Vol. III: Advanced Nanoformulations*, Eds. S. Hasnain, A. K. Nayak, and T. M. Aminabhavi, Elsevier, ISBN: 978-0-323-85785-7 (2021).
8. D. Selianitis, M.-N. Efthymiou, E. Tsouko, A. Papagiannopoulos, A. Koutinas, and S. Pispas, *Nanocellulose Production from different sources and their self-assembly in composite materials*, in *Handbook of Nanocelluloses*, Eds. A. Barhoum, Springer, ISBN: 978-3-030-62976-2 (2021).
9. A. Skandalis, M. Kafetzi, D. Giaouzi, T. Sentoukas, A. Papagiannopoulos, and S. Pispas, *Novel Block Copolymers by RAFT Polymerization: Synthesis and Nanostructures Formation in Aqueous Solutions*, in *Advances in Nanotechnology*, Vol. 24, Eds. Z. Bartul, and J. Trenor, Nova Scientific Publishers, ISBN: 978-1-53618-460-0 (2020).

10. A. Skandalis, V. Chrysostomou, T. Sentoukas, M. Kafetzi, D. Giaouzi, A. Chroni, E. Vlassi, A. Papagiannopoulos, and S. Pispas, *Dynamic light scattering studies on self-assembling block copolymer nanostructures*, in *Research Advances in Dynamic Light Scattering*, Eds. J. Jeevanandam, and M. K. Danquah, Nova Scientific Publishers, ISBN: 978-1-53617-260-7 (2020).
11. A. Papagiannopoulos, *Applications of particle tracking microscopy methods on biomaterials research*, in *Microscopy Science: Last Approaches on Educational Programs and Applied Research*, Edited by E. Torres-Hergueta and A. Méndez-Vilas, Formatex Research Centre, ISBN: 13 978-84-947512-3-3 (2019).
12. A. Papagiannopoulos and, S. Pispas, *Pharmaceutical applications of carrageenan*, in *Natural Polymers for Pharmaceutical Applications*, Edited by A.K. Nayak, Md S. Hasnain, S. Venkateshwara, D. Pal, Apple Academic Press, ISBN: 978-1-77188-844-8 (2019).
13. A. Papagiannopoulos and, S. Pispas, *Protein- and nanoparticle-loaded hydrogels studied by small angle scattering and rheology techniques*, in *Hydrogels*, Edited by V.K. Thakur and M.K. Thakur, Springer, ISBN: 978-981-10-6076-2 (2018).
14. A. Papagiannopoulos, *Investigations of Complex Polymer-Based Nanoassemblies With Small Angle Neutron Scattering*, in *Horizons in World Physics vol. 290*, Edited by A. Reimer, Nova Science Publishers, ISBN 978-1-53610-797-5 (2017).
15. A. Papagiannopoulos, *Small Angle Neutron Scattering (SANS)*, in *Microscopy Methods in Nanomaterials Characterization*, Edited by S. Thomas, R. Thomas, A. Zachariah, R. Mishra, Elsevier, ISBN 9780323461412 (2017).
16. A. Papagiannopoulos, *Most popular microrheology techniques*, in *Microrheology with Optical Tweezers: Principles and Applications*, Edited by M. Tassieri, Pan Stanford, ISBN 9789814669184 (2016).
17. A. Papagiannopoulos, and S. Pispas, *Complexes of poly[sodium(sulfamate/Carboxylate)isoprene] with Dodecyltrimethylammonium bromide: Nanoparticles with tunable aggregation*, in *Polyelectrolytes: Theory, Properties and Applications*, Edited by Philip Guerrero, Nova Science Publishers, ISBN: 978-1-63485-836-6 (2016).
18. A. Papagiannopoulos, and S. Pispas, *Mixed Protein/Polymer Nanostructures at Interfaces*, in *Advanced Materials Interfaces*, Edited by A. Tiwari, H.K. Patra and X. Wang, Wiley, ISBN:9781119242604 (2016).

### C. PEER REVIEWED JOURNAL PUBLICATIONS

1. A. Papagiannopoulos, A. Sklapani, A. Len, A. Radulescu, E. Pavlova, and M. Slouf, *Protein-induced transformation of unilamellar to multilamellar vesicles triggered by a polysaccharide*, [Carbohydrate Polymers](#) **303**, 120478 (2023).
2. A. Papagiannopoulos, S.-P. Nikolakis, A. Pamvouxoglou, and E. Koutsopoulou, *Physicochemical properties of electrostatically crosslinked carrageenan/chitosan hydrogels and carrageenan/chitosan/Laponite nanocomposite hydrogels*, [International Journal of Biological Macromolecules](#) **225**, 565 (2023).

3. A. Natsia, E. Tsouko, C. Pateraki, M.-N. Efthymiou, A. Papagiannopoulos, D. Selianitis, S. Pispas, K. Bethanis, and A. Koutinas, *Valorization of wheat milling by-products into bacterial nanocellulose via ex-situ modification following circular economy principles*, [Sustainable Chemistry and Pharmacy](#) **29**, 100832 (2022).
4. A. Mavria, E. Tsouko, S. Protonotariou, A. Papagiannopoulos, M. Georgiadou, D. Selianitis, S. Pispas, I. Mandala, and A.A. Koutinas, *Sustainable production of novel oleogels valorizing microbial oil rich in carotenoids derived from spent coffee grounds*, [Journal of Agricultural and Food Chemistry](#) **70** (35), 10807 (2022).
5. M.N. Efthymiou, E. Tsouko, C. Pateraki, A. Papagiannopoulos, P. Tzamalis, S. Pispas, K. Bethanis, I. Mantala, and A. Koutinas, *Property evaluation of bacterial cellulose nanostructures produced from confectionery wastes*, [Biochemical Engineering Journal](#), **186** 108575 (2022).
6. M.N. Efthymiou, E. Tsouko, A. Papagiannopoulos, I.G. Athanasoulia, M. Georgiadou, S. Pispas, D. Briassoulis, T. Tsironi, and A. Koutinas, *Development of biodegradable films using sunflower protein isolates and bacterial nanocellulose as innovative food packaging materials for fresh fruit preservation*, [Scientific Reports](#) **12** (1), 6935 (2022).
7. A. Papagiannopoulos, and K. Sotiropoulos, *Current Advances of Polysaccharide-Based Nanogels and Microgels in Food and Biomedical Sciences*, [Polymers](#) **14** (4), 813 (invited review, 2022).
8. A. Papagiannopoulos, D. Selianitis, A. Chroni, J. Allwang, Y. Li, and C.M. Papadakis, *Preparation of trypsin-based nanoparticles, colloidal properties and ability to bind bioactive compounds*, [International Journal of Biological Macromolecules](#) **208**, 678 (2022).
9. D.D. Neofytos, A. Papagiannopoulos, E.D. Chrysina, and S. Pispas, *Formation and physicochemical properties of glycogen phosphorylase in complex with a cationic polyelectrolyte*, [International Journal of Biological Macromolecules](#) **206**, 371-380 (2022).
10. E. Vlassi, A. Papagiannopoulos, and S. Pispas, *Star Polyelectrolytes with Mixed Arms of PDMAEMA and POEGMA: Self-Assembly and Coassembly with Insulin*, [Macromolecular Chemistry and Physics](#) **223**, 2200008 (2022).
11. A. Papagiannopoulos, T. Sentoukas, S. Pispas, A. Radulescu, V. Pipich, and C. Lang, *Length-scale dependence of pH- and temperature-response of PDMAEMA-b-PHPMA block copolymer self-assemblies in aqueous solutions*, [Polymer](#) **239**, 124428 (2022).
12. M. Kitsara, G. Tassis, A. Papagiannopoulos, A. Simon, O. Agbulut, and S. Pispas, *Polysaccharide-Protein Multilayers Based on Chitosan-Fibrinogen Assemblies for Cardiac Cell Engineering*, [Macromolecular Bioscience](#) **22**, 2100346 (2022).
13. A. Vagias, A. Papagiannopoulos, L. P. Kreuzer, D. Giaouzi, S. Busch, S. Pispas, and P. Müller-Buschbaum, *Effects of Polymer Block Length Asymmetry and Temperature on the Nanoscale Morphology of Thermoresponsive Double Hydrophilic Block Copolymers in Aqueous Solutions*, [Macromolecules](#), **54** (15), 7298 (2021) (selected for Issue cover).

14. A. Papagiannopoulos, *Current Research on Polyelectrolyte Nanostructures: From Molecular Interactions to Biomedical Applications*, [Macromol 1 \(2\), 155 \(invited review, 2021\)](#).
15. A. Papagiannopoulos, and A. Sklapani, *Xanthan-based polysaccharide/protein nanoparticles: preparation, characterization, encapsulation and stabilization of curcumin*, [Carbohydrate Polymer Technologies and Applications 2, 100075 \(2021\)](#).
16. E. Vlassi, A. Papagiannopoulos, and S. Pispas, *Amphiphilic A<sub>x</sub>B<sub>y</sub> mikto-arm star copolymers with PLMA and POEGMA arms: Self-assembly and drug encapsulation*, [Journal of Polymer Science 59, 775 \(2021\)](#).
17. A. Papagiannopoulos, N. Pippa, C. Demetzos, S. Pispas, and A. Radulescu, *Formation of Uni-Lamellar Vesicles in Mixtures of DPPC with PEO-b-PCL Amphiphilic Diblock Copolymers*, [Polymers 13 \(1\), 4 \(2021\)](#).
18. A. Papagiannopoulos, N. Pippa, C. Demetzos, S. Pispas, and A. Radulescu, *Lamellarity and size distributions in mixed DPPC/amphiphilic poly(2-oxazoline) gradient copolymer vesicles and their temperature response*, [Chemistry and Physics of Lipids 234, 105008 \(2021\)](#).
19. A. Papagiannopoulos, E. Vlassi, S. Pispas, C. Tsitsilianis, and A. Radulescu, *Polyethylene Oxide Hydrogels Crosslinked by Peroxide for the Controlled Release of Proteins*, [Macromol 1 \(1\), 37 \(2021\)](#).
20. E. Vlassi, and A. Papagiannopoulos, *Nanoformulation of fibrinogen by thermal stabilization of its electrostatic complexes with hyaluronic acid*, [International Journal of Biological Macromolecules 158, 251 \(2020\)](#).
21. E. Stefanopoulou, A. Papagiannopoulos, *Combining particle tracking microrheology and viscometry for the study of DNA aqueous solutions*, [Biopolymers 111 \(6\), e23353 \(2020\)](#).
22. M. Kanidi, A. Papagiannopoulos, A. Matei, M. Dinescu, S. Pispas, and M. Kandyla, *Functional surfaces of laser-microstructured silicon coated with thermoresponsive PS/PNIPAM polymer blends: Switching reversibly between hydrophilicity and hydrophobicity*, [Applied Surface Science 527, 146841 \(2020\)](#).
23. E. Koutsopoulou, I. Koutselas, G. E. Christidis, A. Papagiannopoulos, and I. Marantos, *Effect of layer charge and charge distribution on the formation of chitosan - smectite bionanocomposites*, [Applied Clay Science 190, 105583 \(2020\)](#).
24. E. Vlassi, A. Papagiannopoulos, A. Sergides, and S. Pispas, *Block Copolymer Nanosystems Encapsulating Magnetic Nanoparticles and Drug*, [Journal of Nanoscience and Nanotechnology 20, 1 \(2020\)](#).
25. A. Papagiannopoulos, E. Vlassi, and A. Radulescu, *Reorganizations inside thermally stabilized protein/polysaccharide nanocarriers investigated by small angle neutron scattering*, [Carbohydrate Polymers 218, 218 \(2019\)](#).
26. S. Trampari, A. Papagiannopoulos, and S. Pispas, *Temperature-induced aggregation behavior in bovine pancreas trypsin solutions*, [Biochemical and Biophysical Research Communications 515 \(2\), 282 \(2019\)](#).
27. E. Koutsopoulou, A. Papagiannopoulos, G. Tassis, N. Spiliopoulos, and G. Christidis, *Surface Plasmon Resonance study of adhesion kinetics of smectites on the*

*Au/water interface: clay and organo-clay film formation*, [Applied Clay Science](#) **175**, 1 (2019).

28. M. Kanidi, A. Papagiannopoulos, A. Skandalis, M. Kandyla, and S. Pispas, *Thin films of PS/PS-*b*-PNIPAM and PS/PNIPAM polymer blends with tunable wettability*, [Journal of Polymer Science Part B: Polymer Physics](#) **57**, 670 (2019).

29. A. Papagiannopoulos, and E. Vlasi, *Stimuli-responsive nanoparticles by thermal treatment of bovine serum albumin inside its complexes with chondroitin sulfate*, [Food Hydrocolloids](#) **87**, 602 (2019).

30. A. Papagiannopoulos, E. Vlasi, S. Pispas, and J. Houston, *Association and Internal Morphology of Self-Assembled HPPhOx/BSA Hybrid Nanoparticles in Aqueous Solutions*, [Journal of Physical Chemistry B](#) **122** (29), 7426-7435 (2018).

31. E. Vlasi, A. Papagiannopoulos, and S. Pispas, *Hydrolyzed poly(2-phenyl-2-oxazoline)s in aqueous media and biological fluids*, [Macromolecular Chemistry and Physics](#) **219** (1800047), 1 (2018).

32. S.K. Filippov, A. Papagiannopoulos, A. Riabtseva, and S. Pispas, *Adsorption of lysozyme on pH-responsive PBA-*b*-PAA polymeric nanoparticles: stopped-flow SAXS and ITC study*, [Colloid and Polymer Science](#) **296** (7), 1183 (2018).

33. A. Papagiannopoulos, M. Karayianni, S. Pispas, and A. Radulescu, *Formation of complexes in aqueous solutions of amphiphilic triblock polyelectrolytes of different topologies and an oppositely charged protein*, [Soft Matter](#) **14**, 2860 (2018).

34. J.E. Houston, G. Brandl, M. Drochner, G. Kemmerling, R. Engels, A. Papagiannopoulos, M. Sarter, A. Stadler, and A. Radulescu, *The High Intensity Option of the SANS Diffractometer KWS-2 at JCNS - Characterization and Performance of the New Multi-MHz Detection System*, [Journal of Applied Crystallography](#) **51**, 323 (2018).

35. A. Papagiannopoulos, J. Zhao, G. Zhang, S. Pispas, and C.J. Jafta, *Viscosity Transitions Driven by Thermoresponsive Self-Assembly in PHOS-*g*-P(PO-*r*-EO) Brush Copolymer*, [Macromolecules](#) **51** (5), 1644 (2018).

36. A. Papagiannopoulos, A. Meristoudi, S. Pispas, and U. Keiderling, *Thermal response of self-organization in an amphiphilic triblock polyelectrolyte and the influence of the globular protein lysozyme*, [European Polymer Journal](#) **99**, 49 (2018).

37. A. Papagiannopoulos, *Bovine serum albumin interactions with cationic surfactant vesicles decorated by a low-molar-mass polysaccharide*, [Colloids and Surfaces A](#) **537**, 495 (2018).

38. K. Sotiropoulos, and A. Papagiannopoulos, *Modification of xanthan solution properties by the cationic surfactant DTMAB*, [International Journal of Biological Macromolecules](#) **105** (1), 1213 (2017).

39. A. Papagiannopoulos, E. Vlasi, S. Pispas, and C.J. Jafta, *Tuning the solution organization of cationic polymers through interactions with bovine serum albumin*, [Physical Chemistry Chemical Physics](#) **19**, 18471 (2017).

40. E. Vlasi, A. Papagiannopoulos, and S. Pispas, *Self-assembly of poly(ethylene glycol-*b*-phenyl oxazoline) diblock copolymers in aqueous media and their interactions with proteins*, [Colloid and Polymer Science](#) **295**, 1359 (2017).

41. A. Papagiannopoulos, G. Mousdis, and S. Pispas, *Au nanoparticle-corona loaded polystyrene-*b*-quaternized poly(2-vinylpyridine) micelles and their interaction with DNA*, [\*Macromolecular Chemistry and Physics\* \*\*218\*\* \(3\), 1600439 \(2017\)](#).
42. E. Vlassi, A. Papagiannopoulos, and S. Pispas, *Amphiphilic poly(2-oxazoline) copolymers as self-assembled carriers for drug delivery applications*, [\*European Polymer Journal\* \*\*88\*\*, 516 \(2017\)](#).
43. A. Papagiannopoulos, A. Meristoudi, S. Pispas, and A. Radulescu, *Micelles from HOOC-PnBA-*b*-PAA-C<sub>12</sub>H<sub>15</sub> diblock amphiphilic polyelectrolytes as protein nanocarriers*, [\*Biomacromolecules\* \*\*17\*\* \(11\), 3816 \(2016\)](#).
44. A. Papagiannopoulos, A. Meristoudi, S. Pispas, and U. Keiderling, *Thermoresponsive behavior of micellar aggregates from end-functionalized PnBA-*b*-PNIPAM-COOH block copolymers and their complexes with lysozyme*, [\*Soft Matter\* \*\*12\*\* \(31\), 6547 \(2016\)](#).
45. A. Papagiannopoulos, K. Sotiropoulos, and A. Radulescu, *Scattering investigation of multiscale organization in aqueous solutions of native xanthan*, [\*Carbohydrate Polymers\* \*\*153\*\*, 196 \(2016\)](#).
46. A. Papagiannopoulos, K. Sotiropoulos, and S. Pispas, *Particle tracking microrheology of the power-law viscoelasticity of xanthan solutions*, [\*Food Hydrocolloids\* \*\*61\*\*, 201 \(2016\)](#).
47. A. Papagiannopoulos, A. Meristoudi, K. Hong, S. Pispas, *Kinetics of temperature response of PEO-*b*-PNIPAM-*b*-PAA triblock terpolymer aggregates and of their complexes with lysozyme*, [\*Polymer\* \*\*83\*\*, 111 \(2016\)](#).
48. A. Radulescu, N. K. Szekely, S. Polachowski, M. Leyendecker, M. Amann, J. Buitenhuis, M. Drochner, R. Engels, R. Hanslik, G. Kemmerling, P. Lindner, A. Papagiannopoulos, V. Pipich, L. Willner, H. Frielinghaus, and D. Richter, *Tuning the instrumental resolution using chopper and TOF data acquisition at the high-intensity/extended *Q*-range SANS diffractometer KWS-2 of the JCNS*, [\*Journal of Applied Crystallography\* \*\*48\*\* \(6\), 1849 \(2015\)](#).
49. A. Papagiannopoulos, M. Karayianni, G. Mountrichas, S. Pispas, and 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\* \*\*63\*\*, 134 \(2015\)](#).
50. A. Papagiannopoulos, A. Christoulaki, N. Spiliopoulos, A. Vradsis, C. Toprakcioglu, and S. Pispas, *Complexation of Lysozyme with Adsorbed PtBS-*b*-SCPI Block Polyelectrolyte Micelles on Silver Surface*, [\*Langmuir\* \*\*31\*\* \(2\), 685 \(2015\)](#).
51. A. Papagiannopoulos, J. Zhao, G. Zhang, S. Pispas, and A. Radulescu, *Thermoresponsive aggregation of PS-PNIPAM-PS triblock copolymer: A combined study of light scattering and small angle neutron scattering*, [\*European Polymer Journal\* \*\*56\*\*, 59 \(2014\)](#).
52. A. Papagiannopoulos, J. Zhao, G. Zhang, S. Pispas, and A. Radulescu, *Thermoresponsive transition of a PEO-*b*-PNIPAM copolymer: From hierarchical aggregates to well defined ellipsoidal vesicles*, [\*Polymer\* \*\*54\*\* \(23\), 6373 \(2013\)](#).
53. A. Bakandritsos, A. Papagiannopoulos, E. N. Anagnostou, K. Avgoustakis, R. Zboril, S. Pispas, J. Tucek, V. Ryukhtin, N. Bouropoulos, A. Kolokithas-Ntoukas,

T.A. Steriotis, U. Keiderling, and F. Winnefeld, *Merging High Doxorubicin Loading with Pronounced Magnetic Response and Bio-repellent Properties in Hybrid Drug Nanocarriers*, [\*Small\* \*\*8\*\* \(15\), 2381 \(2012\)](#).

54. T.A. Waigh, and A. Papagiannopoulos, *Biological and Biomimetic Comb Polyelectrolytes*, [\*Polymers\* \*\*2\*\*, 57 \(2010\)](#).

55. A. Papagiannopoulos, M. Karayianni, G. Mountrichas, S. Pispas, and A. Radulescu, *Self-Assembled Nanoparticles from a Block Polyelectrolyte in Aqueous Media: Structural Characterization by SANS*, [\*Journal of Physical Chemistry B\* \*\*114\*\*, 7482 \(2010\)](#).

56. A. Papagiannopoulos, C. Fernyhough, T.A. Waigh, and A. Radulescu, *Scattering Study of the Structure of Polystyrene Sulfonate Comb Polyelectrolytes in Solution*, [\*Macromolecular Chemistry and Physics\* \*\*209\*\* \(24\), 2475 \(2009\)](#).

57. R.C. Sharma, A. Papagiannopoulos, and T.A. Waigh, *Optical coherence tomography picorheology of biopolymer solutions*, [\*Applied Physics Letters\* \*\*92\*\*, 173903 \(2008\)](#).

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59. G. Yakubov, A. Papagiannopoulos, E. Rat, and T. Waigh, *Charge and Interfacial Behavior of Short Side-Chain Heavily Glycosylated Porcine Stomach Mucin*, [\*Biomacromolecules\* \*\*8\*\* \(12\), 3791 \(2007\)](#).

60. G. Yakubov, A. Papagiannopoulos, E. Rat, R. Easton, and T. Waigh, *Molecular Structure and Rheological Properties of Short-Side-Chain Heavily Glycosylated Porcine Stomach Mucin*, [\*Biomacromolecules\*, \*\*8\*\* \(11\), 3467 \(2007\)](#).

61. A. Papagiannopoulos, T.A. Waigh, T. Hardingham, and M. Heinrich, *Solution Structure and Dynamics of Cartilage Aggrecan*, [\*Biomacromolecules\* \*\*7\*\*, 2162 \(2006\)](#).

62. A. Papagiannopoulos, C. Fernyhough, and T.A. Waigh, *The microrheology of polystyrene sulfonate combs in aqueous solution*, [\*Journal of Chemical Physics\* \*\*123\*\*, 214904 \(2005\)](#).

63. A. Papagiannopoulos, T.A. Waigh, A. Fluerasu, C. Fernyhough, and A. Madsen, *Microrheology of Polymeric Solutions using X-ray Photon Correlation Spectroscopy*, [\*Journal of Physics: Condensed Matter\* \*\*17\*\*, L279 \(2005\)](#).

64. T.A. Waigh, A. Papagiannopoulos, A. Voice, R. Bansil, A.P. Unwin, C. Dewhurst, B. Turner, and N. Afdhal, *Entanglement Coupling in Porcine Stomach Mucin*, [\*Langmuir\* \*\*18\*\*, 7188 \(2002\)](#).

#### **D. CONFERENCE PRESENTATIONS**

1. A. Papagiannopoulos, *Development of nanoparticles and multilayer films from polysaccharides and proteins for applications in pharmaceutical and food sciences*, 12<sup>th</sup> Conference of the Hellenic Society of Biomaterials, National Hellenic Research Foundation, Athens, Greece (December 2022).

2. A. Syrrakou, and A. Papagiannopoulos, *Investigation of albumin/carrageenan multilayer biopolymer system*, 12<sup>th</sup> Conference of the Hellenic Society of Biomaterials, National Hellenic Research Foundation, Athens, Greece (December 2022).
3. A. Sklapani, and A. Papagiannopoulos, *Nanoparticles from hemoglobin and chondroitin sulfate: electrostatic complexation, thermal stabilization and interaction with bioactive substances*, 12<sup>th</sup> Conference of the Hellenic Society of Biomaterials, National Hellenic Research Foundation, Athens, Greece (December 2022).
4. A. Papagiannopoulos, *Small angle scattering methods for nanostructured complex biomaterials*, 12<sup>th</sup> Conference of the Hellenic Society of Biomaterials, National Hellenic Research Foundation, Athens, Greece (December 2022).
5. A. Chroni, D. Selianitis, M. Karagianni, A. Papagiannopoulos, S. Pispas, D. Giaouzi, D. Tsiriva, and L. Laskaridis, *Preparation of nanoparticles through electrostatic interaction with the biopolymer chitosan*, 12<sup>th</sup> Conference of the Hellenic Society of Biomaterials, National Hellenic Research Foundation, Athens, Greece (December 2022).
6. A. Papagiannopoulos, *Alternating multilayers of polysaccharides and proteins at the solid/water interface with potential in biomedical sciences*, International Online Conference on Nano Materials (ICN 2022), at Mahatma Gandhi University, Kottayam, Kerala, India (virtual conference) (August 2022).
7. A. Papagiannopoulos, *Nanostructured biomaterials based on biopolymers with potential in biomedical and food sciences*, 13<sup>th</sup> Hellenic Polymer Society International Conference (virtual conference) (December 2021).
8. A. Chroni, D. Selianitis, M.-D. Charavgi, M. Karayianni, A. Papagiannopoulos, S. Pispas 1, D. Tsiriva, and L. Laskaridis, *Chitosan nanoparticles by electrostatic interactions with multifunctional acids*, 13<sup>th</sup> Hellenic Polymer Society International Conference (virtual conference) (December 2021).
9. N. Katsenou, N. Spiliopoulos, D. Anastassopoulos, A. Papagiannopoulos, and C. Toprakcioglu, *The binding kinetics of a multilayer film composed of alternating protein-polysaccharide layers and its responsiveness on pH changes*, 13<sup>th</sup> Hellenic Polymer Society International Conference (virtual conference) (December 2021).
10. A. Papagiannopoulos, and A. Sklapani, *Using xanthan-based polysaccharide/protein nanoparticles to encapsulate and preserve curcumin*, 13<sup>th</sup> Hellenic Polymer Society International Conference (virtual conference) (December 2021).
11. A. Vagias, A. Papagiannopoulos, L. P. Kreuzer, D. Giaouzi, S. Busch, S. Pispas, and P. Müller-Buschbaum, *Effects of polymer block length asymmetry and temperature on the nanoscale morphology of thermoresponsive double hydrophilic block copolymers in aqueous solutions*, MLZ User Meeting, Heinz Maier-Leibnitz Zentrum (virtual conference) (December 2021).
12. J. Allwang, Y. Li, S. Da Vela, D. Seliantis, A. Chroni, A. Papagiannopoulos, and C. M. Papadakis, *Protein-Polysaccharide Nanoparticles stabilized by thermal treatment*, Annual Meeting of DPG and DPG-Tagung (DPG Meeting) of the Condensed Matter Section (SKM), German Physical Society (virtual conference) (September 2021).
13. A. Papagiannopoulos, *Protein and polysaccharide co-assemblies for applications in food and biomedical sciences*, Sustainable Production of Biobased Products in the Bioeconomy Era, Online Workshop, Agricultural University of Athens, Athens, Greece (November 2021).
14. A. Mavria, E. Tsouko, A. Papagiannopoulos, S. Protonotariou, M. Georgiadou, S. Pispas, I. Mandala, and A. Koutinas, *Sustainable production of novel oleogels employing rich in carotenoids microbial oil derived from spent coffee grounds*, 5<sup>th</sup> European Conference on Green and Sustainable Chemistry, European Chemical Society, Virtual Conference (September 2021).



15. M.-N.Efthymiou, E. Tsouko, A. Papagiannopoulos, D. Selianitis, I.-G. Athanasoulia, M. Georgiadou, S. Pispas, D. Briassoulis, T. Tsironi, and A. Koutinas, *Biodegradable edible films in food packaging using sunflower protein isolates and bacterial nanocellulose*, 5<sup>th</sup> European Conference on Green and Sustainable Chemistry, European Chemical Society (virtual conference) (September).
16. D. D. Neofytos, A. Papagiannopoulos, E. D. Chrysina, and S. Pispas, *Biophysical characterization of the synthetic polyelectrolyte QPDMAEMA interactions with the enzyme Glycogen Phosphorylase in aqueous solutions*, 10<sup>th</sup> International Conference of the Hellenic Crystallographic Association, Athens, Greece (October 2021).
17. A. Papagiannopoulos, *Polysaccharide-protein alternating multilayers at the solid/water interface with potential in biomedical sciences*, 35<sup>th</sup> Panhellenic Conference on Solid State Physics and Materials Science (virtual conference) (September 2021).
18. A. Papagiannopoulos, *Preparations of protein nanoparticles by electrostatic complexation with polysaccharides and thermal denaturation*, International online Conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM-2021) (virtual conference) (September 2021).
19. A. Papagiannopoulos, *Biocompatible nanoformulations of proteins by polysaccharides for the encapsulation of bioactive compounds*, 35<sup>th</sup> Conference of the European Colloid & Interface Society (hybrid conference), Athens, Greece (September 2021).
20. A. Chroni, D. Selianitis, J. Allwang, Y. Li, C. M. Papadakis, and A. Papagiannopoulos, *Thermally stabilized trypsin-chondroitin sulfate nanoparticles with tunable response in pH*, 35<sup>th</sup> Conference of the European Colloid & Interface Society (hybrid conference) , Athens, Greece (September 2021).
21. N.Katsenou, N. Spiliopoulos, D. L. Anastassopoulos, A.Papagiannopoulos, and C. Toprakcioglu, *Growth of a multilayer film composed of alternating protein-polysaccharide layers on gold surface. A Surface Plasmon Resonance Study*, 35<sup>th</sup> Conference of the European Colloid & Interface Society (hybrid conference) , Athens, Greece (September 2021).
22. D. Selianitis, A. Chroni, M.-D. Charavgi, M. Karayianni, A. Papagiannopoulos, S. Pispas, D. Tsiriva, and L. Laskaridis, *Chitosan nanoparticles by electrostatic crosslinking: Effects of crosslinker nature and concentration*, 35<sup>th</sup> Conference of the European Colloid & Interface Society (hybrid conference), SEP 5-10 2021, Athens (poster).
23. D. Neofytos, A. Papagiannopoulos, E. D. Chrysina, and S. Pispas, *Biophysical studies of Glycogen Phosphorylase in complex with the cationic polyelectrolyte QPDMAEMA*, 35<sup>th</sup> Conference of the European Colloid & Interface Society (hybrid conference), Athens, Greece (September 2021).
24. A. Papagiannopoulos, *Xanthan-based polysaccharide/protein nanoparticles for the encapsulation of curcumin*, 4<sup>th</sup> International Conference on Applied Biochemistry and Biotechnology (ABB 2021) (virtual conference) (August 2021).
25. A. Vagias, A. Papagiannopoulos, L. Kreuzer, D. Giaouzi, S. Busch, S. Pispas, P. Mueller-Buschbaum, *Nanoscale morphology of thermoresponsive double hydrophilic block copolymers in aqueous solutions: impact of block length asymmetry and temperature effects*, MLZ Conference 2021 "Neutrons for Life Sciences", (April 2021).
26. A. Vagias, A. Papagiannopoulos, L. Kreuzer, D. Giaouzi, S. Busch, S. Pispas, and P. Mueller-Buschbaum, *Block length asymmetry and temperature effects on the nanoscale morphology of thermoresponsive double hydrophilic block copolymers in aqueous solutions*, ACS Spring 2021 Meeting Theme: Macromolecular Chemistry: The Second Century (virtual conference), (April 2021).

27. M. Kanidi, A. Papagiannopoulos, A. Matei, M. Dinescu, S. Pispas, and M. Kandyla, *Functional surfaces of laser-microstructured silicon coated with polymer blends switching between hydrophilicity and hydrophobicity*, Conference on Lasers and Electro-Optics (CLEO), San Jose, CA USA, (May 2020).
28. A. Papagiannopoulos, *Polysaccharide/protein nanoparticles by biocompatible methods for the encapsulation of bioactive compounds*, International Webinar on Polymers, Plastics and Composites (October 2020).
29. T. Sentoukas, G. Charitou, J. Wagner, T. Moschakis and A. Papagiannopoulos, *Formation of nanoparticles from ethanol-denatured whey proteins*, ISEKI-e-conference on "Food Quality and Texture in Sustainable Production and Healthy Consumption", (November 2020).
30. A. Vagias, A. Papagiannopoulos, L.P. Kreuzer, D. Giaouzi, S. Busch, S. Pispas and P. Müller-Buschbaum, *Polymer block length and temperature effects on the nanoscale morphology of thermoresponsive double hydrophilic block copolymers*, MLZ User Meeting & German Neutron Scattering Conference 2020 MLZ User Meeting & German Neutron Scattering Conference 2020 (virtual conference) (December 2020).
31. M. Kitsara, A. Papagiannopoulos, G. Tassis, A. Simon, O. Agbulut, and S. Pispas, *Multilayers of chitosan - fibrinogen and their effect on cardiac tissue engineering*, 11<sup>th</sup> World Biomaterials Congress (virtual conference) (December 2019).
32. M-D Charavgi, P.F. Karakousi, A. Papagiannopoulos, I. Tseti, S. Pispas, and E.D. Chrysina, *Structural studies of intrinsically disordered proteins foster their potential to be exploited as components of new formulations for market-oriented pharmaceutical products*, 70<sup>th</sup> National Conference of the Hellenic Society of Biochemistry & Molecular Biology, Athens, Greece (December 2019).
33. A. Papagiannopoulos, *Investigations of biomaterials with video particle tracking microrheology*, 11<sup>th</sup> International Conference on Instrumental Methods of Analysis: Modern Trends and Applications, Ioannina (September 2019).
34. A. Papagiannopoulos, M.-D. Charavgi, P.F. Karakousi, I. Tseti, E.D. Chrysina, and S. Pispas, *Physicochemical characterization of casein micelles for nanoformulations in food industry*, 11<sup>th</sup> International Conference on Instrumental Methods of Analysis: Modern Trends and Applications, Ioannina (September 2019).
35. A. Papagiannopoulos, *Soft nanostructured biomaterials based on polysaccharides*, 34<sup>th</sup> Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece (September 2019).
36. E. Vlasi, A. Papagiannopoulos, and A. Radulescu, *Synthesis and characterization of poly(ethylene oxide) hydrogels for bio-applications*, 34<sup>th</sup> Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece (September 2019).
37. E. Vlasi, A. Papagiannopoulos, S. Pispas, and J.E. Houston, *Interaction of Bovine Serum Albumin with the amphiphilic block copolymer PEG-b-PPHO<sub>x</sub>*, 34<sup>th</sup> Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece (September 2019).
38. G. Tassis, and A. Papagiannopoulos, *Sequentially adsorbed layers of chitosan and fibrinogen for bio-related applications*, 34<sup>th</sup> Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece (September 2019).
39. G. Tassis, A. Papagiannopoulos, N. Spiliopoulos, S. Pispas, A. Marcinkowski, and B. Trzebicka, *Polysaccharide/protein multilayers at the Au/Water interface*, 34<sup>th</sup> Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece, (September 2019).
40. M. Kanidi, A. Papagiannopoulos, A. Skandalis, S. Pispas, and M. Kandyla, *Films of polymer blends with tunable wettability on microstructured silicon substrates*, 34<sup>th</sup> Annual

Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece, (September 2019).

**41.** N. T. Samartzis, G. Tassis, A. Papagiannopoulos, N. Spiliopoulos, and D. L. Anastassopoulos, *Adsorption of biological macromolecules on thin Au films: a surface plasmon resonance spectroscopy study*, 34<sup>th</sup> Annual Panhellenic Conference on Solid State Physics and Materials Science, Patras, Greece (September 2019).

**42.** E. Koutsopoulou, A. Papagiannopoulos, and G.E. Christidi, *Surface Plasmon Resonance investigation of clay and organo-clay film formation on Au/water interface*, Euroclay 2019, Paris, France (July 2019).

**43.** A. Papagiannopoulos, *Small Angle Neutron Scattering on Synthetic, Biological and Hybrid Nanomaterials*, European Polymer Congress, Heraklion, Greece (June 2019).

**44.** A. Papagiannopoulos, M-D. Charavgi, P.F. Karakousi, I. Tseti, S. Pispas, E.D. Chrysina, *Structural studies of intrinsically disordered proteins towards the development of formulations for market-oriented pharmaceutical products*, Instruct Biennial Structural Biology Conference, Madrid, Spain (May 2019).

**45.** A. Papagiannopoulos, and E.Vlassi, *Using polysaccharide/protein complexation and temperature-induced protein denaturation to develop nanocarriers for bioactive substances*, 11<sup>th</sup> Conference of the Hellenic Society for Biomaterials, Athens, Greece (November 2018).

**46.** A. Papagiannopoulos, and E.Vlassi, *Development of nanocarriers for nutraceutical substances by polysaccharide/protein complexation and temperature-induced protein denaturation*, 11<sup>th</sup> Hellenic Polymer Society International Conference, Ioannina, Greece (September 2018).

**47.** M. Kanidi, A. Papagiannopoulos, A. Skandalis, S. Pispas, and M. Kandyla, *Tunable wettability of thin polymer films*, XXXIII Panhellenic Conference on Solid State Physics and Materials Science, Nicosia, Cyprus (September 2018).

**48.** T. Moschakis, A. Nikolaidis, M. Andreadis, A. Papagiannopoulos, and C. G. Biliaderis, 17<sup>th</sup> Food Colloids Conference: Application of Soft Matter Concepts, Leeds, UK (April 2018).

**49.** A. Papagiannopoulos, and S. Pispas, *Block copolymer based protein nanocarriers: Hierarchical self-assembly and responsiveness*, International Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences (BIOMEIP 2017), Athens, Greece (October 2017).

**50.** E. Vlassi, A. Papagiannopoulos, and S. Pispas, *Biocompatible polyoxazoline polymers as gene vectors*, International Conference on Bio-Medical Instrumentation and related Engineering and Physical Sciences (BIOMEIP 2017) Athens, Greece (October 2017).

**51.** M. Kanidi, A. Papagiannopoulos, A. Skandalis, S. Pispas, and M. Kandyla, *Tunable wettability of thin polymer films on microstructured silicon surfaces*, European congress and exhibition on advanced materials and processes (EUROMAT 2017), Thessaloniki, Greece (September 2017).

**52.** A. Derpogolian, A. Papagiannopoulos, S. Pispas, P. Zoumpoulakis, G. Heropoulos, and E.D. Chrysina, *Ultrasound as potential "INSTRUCtor" of protein crystallisation*, Instruct Biennial Structural Biology Conference, Brno, Czech Republic (May 2017).

- 53.** A. Papagiannopoulos, K. Sotiropoulos, and A. Radulescu, *Power-law Viscoelasticity and Hierarchical Morphology in the Polysaccharide Xanthan*, 11<sup>th</sup> Hellenic Polymer Society International Conference, Heraklion, Greece (November 2016).
- 54.** A. Derpogolian, A. Papagiannopoulos, S. Pispas, P. Zoumpoulakis, G. Heropoulos, and E. D. Chrysina, *Crystal growth of biological macromolecules using ultrasonic irradiation*, Smart and Green Interfaces Conference (Jointly with COST MP1106 Annual meeting), Athens, Greece (May 2016).
- 55.** A. Papagiannopoulos, A. Meristoudi, S. Pispas, and A. Radulescu, *Complexation of lysozyme onto the corona of PnBA-b-PAA amphiphilic block copolymer micelles*, International symposium on amphiphilic polymers, networks, gels and membranes (APNGM15), Budapest, Hungary (August 2015).
- 56.** A. Papagiannopoulos, A. Meristoudi, S. Pispas, and A. Radulescu, *Small Angle Neutron Scattering Investigation of Lysozyme Loading on Core-Shell PnBA-b-PAA Micelles*, Challenges in science and technology of polymer materials, Bansko, Bulgaria (May 2015).
- 57.** A. Papagiannopoulos, S. Pispas, C. Toprakcioglu, N. Spiliopoulos, D. Anastassopoulos, and A. A. Vradis, *Complexation of Lysozyme with Adsorbed PtBS-b-SCPI Block Polyelectrolyte Micelles on a Solid/Liquid Interface*, Proteins in the World of Synthetic Polymers, Athens, Greece (March 2015).
- 58.** A. Papagiannopoulos, A. Meristoudi, K. Hong, and S. Pispas, *Temperature Response Kinetics of PEO-b-PNIPAM-b-PAA Triblock Terpolymer Aggregates and PEO-b-PNIPAM-b-PAA / Lysozyme Complexes*, Proteins in the World of Synthetic Polymers, Athens, Greece (March 2015).
- 59.** A. Papagiannopoulos, A. Christoulaki, N. Spiliopoulos, A. Vradis, C. Toprakcioglu, and S. Pispas, *Adsorption of PtBS-b-SCPI block polyelectrolyte micelles and their interactions with lysozyme at the silver/water interface*, 10<sup>th</sup> Hellenic Polymer Society Conference with International Participation, Patras, Greece (December 2014).
- 60.** A. Papagiannopoulos, A. Meristoudi, K. Hong, and S. Pispas, *Kinetic study of the temperature response of PEO-b-PNIPAM-b-PAA triblock terpolymer aggregates and their complexes with lysozyme*, 10<sup>th</sup> Hellenic Polymer Society Conference with International Participation, Patras, Greece (December 2014).
- 61.** G. Tassis, E. Koutsopoulou, A. Papagiannopoulos, A. Christoulaki, N. Spiliopoulos, D. L. Anastasopoulos, A. A. Vradis, and G. E. Christidis, *Surface plasmon resonance study of adhesion kinetics of clay minerals*, 10<sup>th</sup> Hellenic Polymer Society Conference with International Participation, Patras, Greece (December 2014)
- 62.** A. Papagiannopoulos, A. Meristoudi, S. Pispas, and A. Radulescu, *Lysozyme complexation with block polyelectrolyte micellar nanoparticles probed by small angle neutron scattering*, 1<sup>st</sup> International Conference: From Drug Discovery to Drug Delivery, Athens, Greece (November 2014).
- 63.** A. Papagiannopoulos, A. Meristoudi, and S. Pispas, *Light Scattering Study of PnBA-b-PAA / Lysozyme Complexes*, 2<sup>nd</sup> International Conference on Bio-Based Polymers and Composites, Visegrad, Hungary, (August 2014).

64. M. Karayianni, A. Papagiannopoulos, and S. Pispas, *Complexation of lysozyme with triblock polyelectrolyte micelles with different coronal structure*, 78<sup>th</sup> PMM Frontiers of Polymer Colloids: From Synthesis to Macro-Scale and Nano-Scale Applications, Prague, Czech Republic (July 2014).
65. A. Papagiannopoulos, A. Christoulaki, N. Spiliopoulos, C. Toprakcioglu, S. Pispas, and A. Vradis, *Surface Plasmon Resonance Study of Interactions of Lysozyme with Adsorbed Diblock Polyelectrolyte Micelles*, 20<sup>th</sup> International Symposium on Surfactants in Solution (SIS 2014), Coimbra, Portugal (June 2014).
66. A. Papagiannopoulos, A. Meristoudi, and S. Pispas, *PnBA-b-PAA / Lysozyme Complexes Studied by Light Scattering*, Strategic pipeline planning: from sample preparation to 3D structure determination with bio SAXS and other biophysical technique, Athens, Greece (April 2014).
67. A. Papagiannopoulos, A. Meristoudi, and S. Pispas, *PnBA-b-PAA / Lysozyme Complexes Studied by Light Scattering*, Strategic pipeline planning: from sample preparation to 3D structure determination with bio SAXS and other biophysical technique; Athens, Greece (April 2014).
68. A. Papagiannopoulos, J. Zhao, G. Zhang, S. Pispas, and A. Radulescu, *Thermoresponsive Transition of a PEO-b-PNIPAM block copolymer: from Hierarchical Aggregates to Well Defined Ellipsoidal Vesicles*, XXIX Panhellenic Conference on Solid State Physics and Materials Science, Athens, Greece (September 2013).
69. A. Papagiannopoulos, M. Karayianni, G. Mountrichas, S. Pispas, and A. Radulescu, *Scattering Study of Complexation of Lysozyme with Triblock Polyelectrolyte Micelles*, XXIX Panhellenic Conference on Solid State Physics and Materials Science, Athens, Greece (September 2013).
70. A. Papagiannopoulos, J. Zhao, S. Pispas, and A. Radulescu, *Thermoresponsive Aggregation of PS-PNIPAM-PS triblock copolymer in aqueous solutions* XXIX Panhellenic Conference on Solid State Physics and Materials Science, Athens, Greece (September 2013).
71. A. Papagiannopoulos, T.E. Hardingham, and T.A. Waigh, *Microrheology of Self-Assembled Proteoglycans*, Microrheology and Rheological Phenomena in Microfluidics; Karlsruhe, Germany (October 2006).
72. A. Papagiannopoulos, T.A. Waigh, T. Hardingham, and M. Heinrich, *The Solution Structure and Dynamics of Cartilage Aggrecan*, Branched Macromolecular Structures EUPOC 2006, Milan, Italy (May 2006).
73. C. M. Fernyhough, A. J. Ryan, T. A. Waigh, and A. Papagiannopoulos, *Synthesis and characterization of biomimetic polystyrene sulfonate combs*, 2005 Fall National ACS Meeting, Division of Polymer Chemistry, Washington DC, USA (August 2005).
74. A. Papagiannopoulos, C. Fernyhough, T.E. Hardingham, and T.A. Waigh, *The Structure and Dynamics of Polyelectrolyte Combs*, Soft Condensed Matter Physics in Molecular and Cell Biology, NATO ASI and SUSSP59, Edinburgh, UK (March 2004).
75. A. Papagiannopoulos, C. Fernyhough, T.E. Hardingham, and T.A. Waigh, *The Structure and Dynamics of Polyelectrolyte Combs*, Colloidal, Macromolecular & Polyelectrolyte Solutions, Ventura Beach California, USA (February 2004).

76. A. Papagiannopoulos, C. Fernyhough, T.E. Hardingham, and T.A. Waigh, *Particle Tracking Microrheology Methods for the Study of Synthetic and Biological Polymer Solutions*, IOP Polymer Group - The Physics of Biological Polymers, London, United Kingdom (August 2003).

77. C. Toprakcioglu, A. Papagiannopoulos, Y. S. Hiotelis, D.L. Anastassopoulos, A. A. Vradis, *Polyelectrolytes at the Solid/Liquid Interface: Structure and Interactions*, IOP Complex Fluids Meeting, London, UK (July 2002)

78. Y.S. Hiotelis, A. Papagiannopoulos, Anastassopoulos, A. A. Vradis, and C. Toprakcioglu, *Study of the adsorption of polyelectrolytes on surfaces with direct measurements of forces between chains and with neutron reflectance*, XVIII Panhellenic Conference on Solid State Physics and Materials Science, Heraklion, Greece (September 2002).

79. A. Papagiannopoulos, Anastassopoulos, A. A. Vradis, and C. Toprakcioglu, *Neutron reflectivity study of polymer brushes under shear*, IOP Polymer Physics Group Biennial Meeting (September 2001).

## **E. CONFERENCE PROCEEDINGS**

1. “Functional surfaces of laser-microstructured silicon coated with polymer blends switching between hydrophilicity and hydrophobicity”, *M. Kanidi, A. Papagiannopoulos, A. Matei, M. Dinescu, S. Pispas, and M. Kandyla*, Proceedings of Conference on Lasers and Electro-Optics, OSA Technical Digest (Optical Society of America, 2020); San Jose, California, United States, May 10-15, 2020. Paper STh4H.4

2. “Water and protein dynamics in protein water mixtures studied by dielectric techniques”, *A. Papagiannopoulos, P. Pissis, A. Kyritsis, N. Shinyashiki, S. Yagihara, W. Yamamoto, and T. Yoshinari*, Proc. ISEMA 2009, “8th International Conference on Electromagnetic Wave Interaction with Water and Moist Substances”, June 2009, Helsinki, Finland.

3. “Synthesis and characterization of biomimetic polystyrene sulfonate combs”, *C. M. Fernyhough, A. J. Ryan, T. A. Waigh and A. Papagiannopoulos*, 2005 Fall National ACS Meeting, Division of Polymer Chemistry, August 2005, Washington DC, USA.

## **F. RESEARCH HIGHLIGHTS and NEWSLETTERS**

1. A. Papagiannopoulos, *Preparation of trypsin-based nanoparticles, colloidal properties and ability to bind bioactive compounds*, National Hellenic Research Foundation Newsletter, May-June 2022.

2. D. D. Neofytos, A. Papagiannopoulos, E. D. Chrysina, and S. Pispas, *Formation and physicochemical properties of Glycogen Phosphorylase in complex with a cationic polyelectrolyte*, National Hellenic Research Foundation Newsletter, March-April 2022.

3. A. Papagiannopoulos, D. Giaouzi, and S. Pispas, *Effects of Polymer Block Length Asymmetry and Temperature on the Nanoscale Morphology of Thermoresponsive Double Hydrophilic Block Copolymers in Aqueous Solutions*, National Hellenic Research Foundation Newsletter, September 2021.

4. A. Vagias, A. Papagiannopoulos, L. P. Kreuzer, D. Giaouzi, S. Busch, S. Pispas, and P. Müller-Buschbaum, *Nanoscale aqueous morphologies and hydration in thermoresponsive double hydrophilic block copolymers*, Joint Annual Report 2021 of the MLZ and FRM II (chapter “Soft matter”), 2021.
5. A. Papagiannopoulos, *Nanoformulation of fibrinogen by thermal stabilization of its electrostatic complexes with hyaluronic acid*, National Hellenic Research Foundation Newsletter, June 2020.
- A. Papagiannopoulos, *Interactions between cationic surfactant vesicles and BSA are enhanced by incorporation of Na-HA even though they become like-charged*, highlight in Medicine Innovates series as key scientific article contributing to excellence in biomedical research, 2018.
6. A. Papagiannopoulos, E. Vlassi, and S. Pispas, *Tuning the solution organization of cationic polymers through interactions with bovine serum albumin*, selected as *Key scientific article contributing to excellence in science and engineering research*, Advances in Engineering 2018.
7. A. Papagiannopoulos, *Small Angle Neutron Scattering on Soft Self-Assembled Synthetic, Biological and Hybrid Nanostructures*, Research Note, Hellenic Neutron Association Newsletter 3 2018.
8. A. Papagiannopoulos, T.A.Waigh, A. Fluerasu, C. Fernyhough, and A. Madsen, *Microrheology of Polymeric Solutions using X-ray Photon Correlation Spectroscopy*, Journal of Physics: Condensed Matter, 2005, 17, L279-L285 (2005). Selected in Highlights 2005 ESRF.