

Schriftenverzeichnis Felix Plamper (insgesamt 89 Publikationen; H-Index: 28 laut Google Scholar)

I. Publikationen (mit peer review)

75. H. Li, O. Mergel, P. Jain, X. Li, H. Peng, K. Rahimi, S. Singh, F. A. Plamper* and A. Pich,*
Electroactive and degradable supramolecular microgels
Soft Matter **2019**, *15*, 8589–8602
74. T. Panova,* S. Kostenko, A. Efimova, E. Evtushenko, F. Plamper, W. Richtering, A. Yaropolov, W. Richtering and A. A. Yaroslavov,
Electrostatic complexes between thermosensitive cationic microgels and anionic liposomes: Formation and triggered release of encapsulated enzyme
European Polymer Journal **2019**, *119*, 222–228
73. S. Schneider, F. Jung, O. Mergel, J. Lammertz, A. Nickel, T. Caumanns, A. Mhamdi, J. Mayer, A. Mitsos, F. A. Plamper,*
Model-based Design and Synthesis of Ferrocene Containing Microgels
Polymer Chemistry **2019**, DOI: 10.1039/C9PY00494G
72. O. V. Ivashkov,* T. M. Yakimova, E. G. Evtushenko, A. P. H. Gelissen, F. A. Plamper, W. Richtering and A. A. Yaroslavov,
On the mechanism of payload release from liposomes bound to temperature-sensitive microgel particles
Colloids and Surfaces A: Physicochemical and Engineering Aspects **2019**, *570*, 396–402
71. C. E. Pinguet, E. Ryll, A. A. Steinschulte, J. M. Hoffmann, M. Brugnioni, A. Sybachin, D. Wöll, A. Yaroslavov, W. Richtering and F. A. Plamper,*
PEO-*b*-PPO star-shaped polymers enhance the structural stability of electrostatically coupled liposome/polyelectrolyte complexes
PLoS ONE **2019**, *14* (1), e0210898791
70. O. Mergel, S. Schneider, R. Tiwari, P. T. Kühn, D. Keskin, M. C. A. Stuart, S. Schöttner, M. de Kanter, M. Noyong, T. Caumanns, J. Mayer, C. Janzen, U. Simon, M. Gallei, D. Wöll, P. van Rijn and F. A. Plamper,*
Cargo shuttling by electrochemical switching of core–shell microgels obtained by a facile one-shot polymerization
Chemical Science **2019**, *10* (6), 1844–1856
69. L. Sigolaeva,* D. Pergushov, M. Oelmann, S. Schwarz, M. Brugnioni, I. Kurochkin, F. Plamper, A. Fery and W. Richtering,
Surface Functionalization by Stimuli-Sensitive Microgels for Effective Enzyme Uptake and Rational Design of Biosensor Setups
Polymers **2018**, *10* (7), 791

68. P. Hebbeker, F. Plamper and S. Schneider,*
Aggregation of Star Polymers: Complexation vs. Segregation
Macromolecular Theory and Simulations **2018**, 27 (6), 1800033
67. S. Schneider, C. Janssen, E. Klindtworth, O. Mergel, M. Möller and F. A. Plamper,*
Influence of Polycation Composition on the Electrochemical Film Formation
Polymers **2018**, 10 (4), 429
66. P. Hebbeker, T. Langen, F. Plamper and S. Schneider,*
Spacer Chains Prevent the Intramolecular Complexation in Miktoarm Star Polymers
The Journal of Physical Chemistry B **2018**, 122 (17), 4729-4736
65. C. Dähling, J. E. Houston, A. Radulescu, M. Drechsler, M. Brugnoni, H. Mori, D. V. Pergushov and F. A. Plamper,*
Self-Templated Generation of Triggerable and Restorable Nonequilibrium Micelles
ACS Macro Letters **2018**, 7 (3), 341-346
64. A. A. Steinschulte, A. Scotti, K. Rahimi, O. Nevskiy, A. Oppermann, S. Schneider, S. Bochenek, M. F. Schulte, K. Geisel, F. Jansen, A. Jung, S. Mallmann, R. Winter, W. Richtering, D. Wöll, R. Schweins, N. J. Warren* and F. A. Plamper,*
Stimulated Transitions of Directed Nonequilibrium Self-Assemblies
Advanced Materials **2017**, 1703495
63. A. A. Steinschulte, A.P.H. Gelissen, A. Jung, M. Brugnoni, T. Caumanns, G. Lotze, J. Mayer, D. V. Pergushov* and F. A. Plamper,*
Facile Screening of Various Micellar Morphologies by Blending Miktoarm Stars and Diblock Copolymers
ACS Macro Letters **2017**, 6 (7), 711-715
62. C. Dähling, G. Lotze, H. Mori, D. V. Pergushov and F. A. Plamper,*
Thermo-Responsive Segments Retard the Formation of Equilibrium Micellar Interpolyelectrolyte Complexes by Detouring to Various Intermediate Structures
The Journal of Physical Chemistry B **2017**, 121 (27), 6739-6748
61. C. E. Pinguet, J. M. Hoffmann, A. A. Steinschulte, A. Sybachin, K. Rahimi, D. Wöll, A. Yaroslavov, W. Richtering and F. A. Plamper,*
Adjusting the Size of Multicompartmental Containers Made of Anionic Liposomes and Polycations by Introducing Branching and PEO Moieties
Polymer **2017**, 121, 320-327

60. L. V. Sigolaeva*, S. Y. Gladyr, O. Mergel, A. P. H. Gelissen, M. Noyong, U. Simon, D. V. Pergushov, I. N. Kurochkin, F. A. Plamper and W. Richtering,
Easy-preparable Butyrylcholinesterase/Microgel Construct for Facilitated Organophosphate Biosensing
Analytical Chemistry **2017**, *89* (11), 6091–6098
59. S. Walta, D. V. Pergushov,* A. Oppermann, A. A Steinschulte, K. Geisel, L. V. Sigolaeva, F. A. Plamper, D. Wöll and W. Richtering,*
Microgels Enable Capacious Uptake and Controlled Release of Architecturally Complex Macromolecular Species
Polymer **2017**, *119*, 50-58
58. O. Mergel, P. T. Kühn, S. Schneider, U. Simon and F. A. Plamper,*
Influence of Polymer Architecture on the Electrochemical Deposition of Polyelectrolytes
Electrochimica Acta **2017**, *232*, 98–105
57. P. Hebbeker, A. A. Steinschulte, S. Schneider and F. A. Plamper,*
Balancing Segregation and Complexation in Amphiphilic Copolymers by Architecture and Confinement
Langmuir **2017**, *33* (17), 4091–4106
56. A. Yaroslavov,* I. Panova, A. Sybachin, V. Spiridonov, A. Zezin, O. Mergel, A. Gelissen, R. Tiwari, F. Plamper, W. Richtering and F. M. Menger,
Payload Release by Liposome Burst: Thermal Collapse of Microgels Induces Satellite Destruction
Nanomedicine: Nanotechnology, Biology, and Medicine **2017**, *13* (4), 1491-1494
55. F. A. Plamper and W. Richtering,*
Functional Microgels and Microgel Systems
Accounts of Chemical Research **2017**, *50* (2), 131-140
54. P. Hebbeker, A. Steinschulte, S. Schneider, J. Okuda, M. Möller, F. A. Plamper* and S. Schneider,*
Complexation in Weakly Attractive Copolymers with Varying Composition and Topology: Linking Fluorescence Experiments and Molecular Monte Carlo Simulations
Macromolecules **2016**, *49* (22), 8748-8757
53. O. Ayhan, T. Eckert, F. A. Plamper and H. Helten,*
Poly(iminoborane)s: An Elusive Class of Main Group Polymers?
Angewandte Chemie, International Edition **2016**, *55* (42), 13321-13325

52. A. V. Sybachin,* O. V. Zaborova, K. M. Imelbaeva, V. V. Samoshin, V. A. Migulin, F. A. Plamper and A. A. Yaroslavov,
Effects of the Electrostatic Complexation Between Anionic pH-Sensitive Liposomes and Star-Shaped Polycations on the Release of the Liposomal Content
Mendeleev Communications **2016**, 26 (4), 276-278
51. P. Wünnemann, M. Noyong, K. Kreuels, R. Brück, P. Gordiichuk, P. van Rijn, F. A. Plamper, U. Simon and A. Böker,*
Microstructured Hydrogel Templates for the Formation of Conductive Gold Nanowire Arrays
Macromolecular Rapid Communications **2016**, 37 (17), 1446-1452
50. C. Dähling, G. Lotze, M. Drechsler, H. Mori, D. V. Pergushov* and F. A. Plamper,*
Temperature-Induced Structure Switch in Thermo-Responsive Micellar Interpolyelectrolyte Complexes: Toward Core-Shell-Corona and Worm-Like Morphologies
Soft Matter **2016**, 12 (23), 5127-5137
49. T. Lorenz, A. Lik, F. A. Plamper and H. Helten,*
Dehydrocoupling and Silazane Cleavage Routes to Organic-Inorganic Hybrid Polymers with NBN Units in the Main Chain
Angewandte Chemie, International Edition **2016**, 55 (25), 7236-7241
48. A. V. Sybachin,* O. V. Zaborova, D. V. Pergushov, A. B. Zezin, F. A. Plamper, A. H. E. Müller, E. Kesselman, J. Schmidt, Y. Talmon, F. M. Menger and A. A. Yaroslavov,
Complexes of Star-Shaped Cationic Polyelectrolytes with Anionic Liposomes: Towards Multi-Liposomal Assemblies with Controllable Stability
Polymer **2016**, 93, 198-203
47. S. Maccarrone,* O. Mergel, F. A. Plamper, O. Holderer and D. Richter,
Electrostatic Effects on the Internal Dynamics of Redox-Sensitive Microgel Systems
Macromolecules **2016**, 49 (5), 1911-1917
46. W. Xu, A. A. Steinschulte, F. A. Plamper, V. F. Korolovych and V. V. Tsukruk,*
Hierarchical Assembly of Star Polymer Polymersomes into Responsive Multicompartmental Microcapsules
Chemistry of Materials **2016**, 28 (3), 975-985
45. L. V. Sigolaeva,* O. Mergel, E. G. Evtushenko, S. Y. Gladys, A. P. H. Gelissen, D. V. Pergushov, I. N. Kurochkin, F. A. Plamper and W. Richtering,
Engineering Systems with Spatially-Separated Enzymes via Dual-Stimuli-Sensitive Properties of Microgels
Langmuir **2015**, 31 (47), 13029-13039
44. O. Mergel, P. Wünnemann, U. Simon, A. Böker and F. A. Plamper,*
Microgel Size Modulation by Electrochemical Switching
Chemistry of Materials **2015**, 27 (21), 7306-7312

43. A. A. Zezin,* V. I. Feldman, S. S. Abramchuk, G. V. Danelyan, V. V. Dyo, F. A. Plamper, A. H. E. Müller and D. V. Pergushov,*
Efficient Size Control of Copper Nanoparticles Generated in Irradiated Aqueous Solutions of Star-Shaped Polyelectrolyte Containers
Physical Chemistry Chemical Physics: PCCP **2015**, *17* (17), 11490-11498
42. A. A. Steinschulte, W. Xu, F. Draber, P. Hebbeker, A. Jung, D. Bogdanovski, S. Schneider, V. V. Tsukruk and F. A. Plamper,*
Interface-Enforced Complexation between Copolymer Blocks
Soft Matter **2015**, *11* (18), 3559-3565
41. C. H. Hofmann,* S. Grobelny, P. T. Panek, L. K. Heinen, A.-K. Wiegand, F. A. Plamper, C. R. Jacob, R. Winter and W. Richtering,
Methanol-Induced Change of the Mechanism of the Temperature- and Pressure-Induced Collapse of *N*-Substituted Acrylamide Copolymers
Journal of Polymer Science Part B: Polymer Physics **2015**, *53* (7), 532–544
40. P. Hebbeker, F. A. Plamper and S. Schneider,*
Effect of the Molecular Architecture on the Internal Complexation Behavior of Linear Copolymers and Miktoarm Star Polymers
Macromolecular Theory and Simulations **2015**, *24* (2), 110–116
39. F.A. Plamper,*
Changing Polymer Solvation by Electrochemical Means: Basics and Applications
Advances of Polymer Science **2015**, *266*, 125-212
38. W. Xu, P. A. Ledin, F. A. Plamper, C. V. Synatschke, A. H. E. Müller and V. V. Tsukruk,*
Multi-Responsive Microcapsules Based on Multilayer Assembly of Star Polyelectrolytes
Macromolecules **2014**, *47* (22), 7858-7868
37. O. Mergel, A. P. H. Gelissen, P. Wünnemann, A. Böker, U. Simon and F. A. Plamper,*
Selective Packaging of Ferricyanide within Thermo-responsive Microgels
The Journal of Physical Chemistry C **2014**, *118* (45), 26199-26211
36. L. V. Sigolaeva,* S. Y. Gladyr, A. P.H. Gelissen, O. Mergel, D. V. Pergushov, I. N. Kurochkin, F. A. Plamper and W. Richtering,
Dual-Stimuli-Sensitive Microgels as a Tool for Stimulated Sponge-Like Adsorption of Biomaterials for Biosensor Applications
Biomacromolecules **2014**, *15* (10), 3735-3745
35. J. Bahrenburg, F. Renth,* F.A. Plamper, W. Richtering and F. Temps,*
Femtosecond Spectroscopy Reveals Huge Differences in the Photoisomerisation Dynamics Between Azobenzenes Linked to Polymers and Azobenzenes in Solution
Physical Chemistry Chemical Physics: PCCP **2014**, *16* (23), 11549-11554

34. T. Thavanesan, C. Herbert and F.A. Plamper,*
Insight in the Phase Separation Peculiarities of Poly(dialkylaminoethyl methacrylate)s
Langmuir **2014**, *30* (19), 5609–5619
33. A. Yaroslavov,* A. Sybachin, O. Zaborova, D.V. Pergushov, A.B. Zezin, N. Melik-Nubarov, F.A. Plamper, A.H.E. Müller and F. Menger,
Electrostatically-Driven Complexation of Liposomes with a Star-Shaped Polyelectrolyte to Low-Toxicity Multi-Liposomal Assemblies
Macromolecular Bioscience **2014**, *14* (4), 491-495
32. W. Xu, I. Choi, F.A. Plamper, C.V. Synatschke, A.H.E. Müller, Y.B. Melnichenko and V.V. Tsukruk,*
Thermo-Induced Limited Aggregation of Responsive Star Polyelectrolytes
Macromolecules **2014**, *47* (6), 2112–2121
31. A.P. Gelissen, A. Schmid, F.A. Plamper, D.V. Pergushov and W. Richtering,*
Quaternized Microgels as Peculiar Soft Templates for Polyelectrolyte Layer-by-Layer Assemblies
Polymer **2014**, *55* (8), 1991-1999
30. F.A. Plamper,*
Polymerizations under Electrochemical Control
Colloid and Polymer Science **2014**, *292* (4), 777-783
29. A.A. Steinschulte, B. Schulte, S. Rütten, M. Erberich, T. Eckert, J. Okuda, M. Möller, S. Schneider, O.V. Borisov and F.A. Plamper,*
Effects of Architecture on the Stability of Thermosensitive Unimolecular Micelles
Physical Chemistry Chemical Physics: PCCP **2014**, *16*, 4917 - 4932
28. F.A. Plamper, C.V. Synatschke, A.P. Majewski, A. Schmalz, H. Schmalz and A.H.E. Müller,*
Star-shaped Poly(2-(dimethylamino)ethyl methacrylate) and its Derivatives: Toward New Properties and Applications
Polimery **2014**, *59*, 66-72
27. A.P. Gelissen, D.V. Pergushov* and F.A. Plamper,*
Water-Soluble, Janus-Like Interpolyelectrolyte Complexes Based on Miktoarm Stars
Polymer **2013**, *54*, 6877-6881
26. A.A. Polotsky, F.A. Plamper and O.V. Borisov,*
Re-entrant Collapse-to-Swelling Transitions in pH- and Thermoresponsive Microgels in Aqueous Dispersions
Macromolecules **2013**, *46* (21), 8702-8709

25. S. Grobelny, C.H. Hofmann, M. Erkamp, F.A. Plamper, W. Richtering* and R. Winter,*
Conformational Changes upon High Pressure Induced Hydration of Poly(*N*-isopropyl acrylamide) Microgels
Soft Matter **2013**, *9*, 5862-5866
24. A.A. Steinschulte, B. Schulte, N. Drude, M. Erberich, C. Herbert, J. Okuda, M. Möller and F.A. Plamper,*
A Nondestructive, Statistical Method for Determination of Initiation Efficiency: Dipentaerythritol-Aided Synthesis of Ternary ABC₃ Miktoarm Stars Using a Combined “Arm-First” and “Core-First” Approach
Polymer Chemistry **2013**, *4*, 3885-3895
23. F.A. Plamper,* A.P. Gelissen, J. Timper, A. Wolf, A.B. Zezin, W. Richtering, H. Tenhu, U. Simon, J. Mayer, O.V. Borisov* and D.V. Pergushov,*
Spontaneous Assembly of Miktoarm Stars into Vesicular Interpolyelectrolyte Complexes
Macromolecular Rapid Communications **2013**, *34*, 855-860
22. F. Polzer, E. Holub-Krappe, H. Rossner, A. Erko, H. Kirmse, F. Plamper, A. Schmalz, A.H.E. Müller and M. Ballauff,*
Structural Analysis of Colloidal MnO_x Composites
Colloid and Polymer Science **2013**, *291*, 469-481
21. C.H. Hofmann, F.A. Plamper, C. Scherzinger, S. Hietala and W. Richtering,*
Cononsolvency Revisited: Solvent Entrapment by *N*-Isopropylacrylamide and *N,N*-Diethylacrylamide Microgels in Different Water/Methanol Mixtures
Macromolecules **2013**, *46*, 523-532
20. W. Xu, I. Choi, F.A. Plamper, C.V. Synatschke, A.H.E. Müller and V.V. Tsukruk,*
Nondestructive Light-Initiated Tuning of Layer-by-Layer Microcapsule Permeability
ACS Nano **2013**, *7*, 598-613
19. F.A. Plamper,* A.A. Steinschulte, C.H. Hofmann, N. Drude, O. Mergel, C. Herbert, M. Erberich, B. Schulte, R. Winter and W. Richtering,*
Toward Copolymers with Ideal Thermosensitivity: Solution Properties of Linear, Well-Defined Polymers of *N*-Isopropyl Acrylamide and *N,N*-Diethyl Acrylamide
Macromolecules **2012**, *45*, 8021-8026
18. A.A. Steinschulte, B. Schulte, M. Erberich, O.V. Borisov and F.A. Plamper,*
Unimolecular Janus Micelles by Microenvironment-Induced, Internal Complexation
ACS Macro Letters **2012**, *1*, 504-507

17. I.A. Babin, D.V. Pergushov, A. Wolf, F.A. Plamper, H. Schmalz, A.H.E. Müller and A.B. Zezin,*
Micellar Interpolyelectrolyte Complexes Formed by Star-Shaped Poly(acrylic acid) with Double Hydrophilic Cationic Diblock Copolymer
Doklady Physical Chemistry **2011**, *441*, 219-223
16. I. Choi, R. Suntivich, F.A. Plamper, C.V. Synatschke, A.H.E. Müller and V.V. Tsukruk,*
pH-Controlled Exponential and Linear Growing Modes of Layer-by-Layer Assemblies of Star Polyelectrolytes
Journal of the American Chemical Society **2011**, *133*, 9592-9606
15. F.A. Plamper,* S. Reinicke, M. Elomaa, H. Schmalz and H. Tenhu,
Pearl Necklace Architecture: New Threaded Star-Shaped Copolymers
Macromolecules **2010**, *43*, 2190-2203
14. Y. Xu, F.A. Plamper, M. Ballauff and A.H.E. Müller,*
Polyelectrolyte Stars and Cylindrical Brushes
Advances of Polymer Science **2010**, *228*, 1-38
13. F.A. Plamper,* L. Murtomäki, A. Walther, K. Kontturi and H. Tenhu,
e-Micellization: Electrochemical, Reversible Switching of Polymer Aggregation
Macromolecules **2009**, *42*, 7254-7257
12. F.A. Plamper,* J. McKee, A. Laukanen, A. Nykänen, A. Walther, V. Aseyev, J. Ruokolainen and H. Tenhu,
Miktoarm Stars of Poly(ethylene oxide) and Poly(dimethylaminoethyl methacrylate): Manipulation of Micellization by Temperature and Light
Soft Matter **2009**, *5*, 1812-1821
11. L. Kind, F. Plamper, R. Göbel, A. Müller, U. Pielers, A. Taubert* and W. Meier,*
Silsesquioxane/Polyamine Nanoparticle-Templated Formation of Star- or Raspberry-like Silica nanoparticles
Langmuir **2009**, *25*, 7109-7115
10. D.V. Pergushov, I.A. Babin, F.A. Plamper, H. Schmalz, A.H.E. Müller and A.B. Zezin,*
Water-Soluble Complex Macromolecular Structures Based on Star-Shaped Poly(acrylic acid)
Doklady Physical Chemistry **2009**, *425*, 57-61

9. M. Schumacher, M. Ruppel, J. Kohlbrecher, M. Burkhardt, F.A. Plamper, M. Drechsler and A.H.E. Müller,*
Smart Organic-Inorganic Nanohybrid Stars Based on Star-Shaped Poly(acrylic acid) and Functional Silsesquioxane Nanoparticles
Polymer **2009**, *50*, 1908-1917
8. D.V. Pergushov, I.A. Babin, F.A. Plamper, A.B. Zezin and A.H.E. Müller,*
Water-Soluble Complexes of Star-Shaped Poly(acrylic acid) with Quaternized Poly(4-vinylpyridine)
Langmuir **2008**, *24*, 6414-6419
7. F.A. Plamper, A. Schmalz, M. Ballauff and A.H.E. Müller,*
Tuning the Thermoresponsiveness of Weak Polyelectrolytes by pH and Light: Lower and Upper Critical-Solution Temperature of Poly(*N,N*-dimethylaminoethyl methacrylate)
Journal of the American Chemical Society **2007**, *129*, 14538-14539
6. F.A. Plamper, M. Ruppel, A. Schmalz, O. Borisov, M. Ballauff and A.H.E. Müller,*
Tuning the Thermoresponsive Properties of Weak Polyelectrolytes: Aqueous Solutions of Star-Shaped and Linear Poly(*N,N*-dimethylaminoethyl Methacrylate)
Macromolecules **2007**, *40*, 8361-8366
5. F.A. Plamper, A. Schmalz, E. Penott-Chang, M. Drechsler, A. Jusufi, M. Ballauff and A.H.E. Müller,*
Synthesis and Characterization of Star-Shaped Poly(*N,N*-dimethylaminoethyl methacrylate) and Its Quaternized Ammonium Salts
Macromolecules **2007**, *40*, 5689-5697
4. F.A. Plamper, A. Walther, A.H.E. Müller* and M. Ballauff,*
Nanoblossoms: Light-Induced Conformational Changes of Cationic Polyelectrolyte Stars in the Presence of Multivalent Counterions
Nano Letters **2007**, *7*, 167-171
3. S. Muthukrishnan, F. Plamper, H. Mori and A.H.E. Müller,*
Synthesis and Characterization of Glycomethacrylate Hybrid Stars from Silsesquioxane Nanoparticles
Macromolecules **2005**, *38*, 10631-10642
2. F.A. Plamper, H. Becker, M. Lanzendörfer, M. Patel, A. Wittemann, M. Ballauff and A.H.E. Müller,*
Synthesis, Characterization and Behavior in Aqueous Solution of Star-Shaped Poly(acrylic acid)
Macromolecular Chemistry and Physics **2005**, *206*, 1813-1825

1. P. Nilsson, F. Plamper and O.F. Wendt,*
Synthesis, Structure, and Reactivity of Arylfluoro Platinum(II) Complexes
Organometallics **2003**, *22*, 5235-5242

II. Publikationen (ohne peer review) und Buchkapitel

13. Pergushov, D. V.; Plamper, F. A.,
Electrostatically Assembled Complex Macromolecular Architectures Based on Star-Like Polyionic Species
In *Macromolecular Self-assembly*, John Wiley & Sons, Inc.: **2016**; pp 125-139.,
12. W. Xu, S. Malak, F. Plamper, C. Synatschke, A. E. Müller, W. Heller, Y. Melnichenko and V. Tsukruk,
Structural Study of Star Polyelectrolytes and Their Porous Multilayer Assembly in Solution
in *Physics of Liquid Matter: Modern Problems, Vol. 171* (Eds.: L. Bulavin, N. Lebovka), Springer International Publishing, **2015**, pp. 299-315.
11. W. Xu, P. A. Ledin, F. A. Plamper, C. V. Synatschke, A. H. E. Müller and V. V. Tsukruk,
Star Polyelectrolytes Based Microcapsules with Multi-Responsiveness to Ionic Strength, pH and Temperature
PMSE Preprints **2015**, *112*, PMSE-124
10. W. Xu, I. Choi, F. A. Plamper, C. V. Synatschke, A. H. E. Müller, Y. B. Melnichenko and V. V. Tsukruk,
SANS Study on the Phase Behaviors of Responsive Star Polyelectrolytes
PMSE Preprints **2015**, *112*, PMSE-145
9. F. A. Plamper, A. Steinschulte, B. Schulte, S. Rütten, T. Eckert, J. Okuda, M. Möller, S. Schneider and O. Borisov,
Architectural Effects on the Stability of Thermosensitive Unimeric Micelles
PMSE Preprints **2014**, *111*, PMSE-485
8. F. A. Plamper, A. P. Gelissen, D. V. Pergushov, O. V. Borisov, J. Timper, A. Wolf, A. B. Zezin, W. Richtering, H. Tenhu, U. Simon and J. Mayer,
Interpolyelectrolyte Complexes Based on Miktoarm Stars
PMSE Preprints **2014**, *111*, PMSE-253
7. C.V. Synatschke, F.A. Plamper and A.H.E. Müller,
Polymere Multitalente: sternförmige Polykationen
Nachrichten aus der Chemie **2013**, *61*, 1008-1012
6. W. Xu, I. Choi, F. A. Plamper, C. V. Synatschke, A. H. E. Müller, V. V. Tsukruk,

Nondestructive Light-Initiated Tuning of Layer-by-Layer Microcapsule Permeability

PMSE Preprints **2013**, 109, PMSE-50

5. W. Richtering, C. Hofmann, F. Plamper, S. Grobelny, M. Erlkamp and R. Winter,
Conformational Changes upon High Pressure induced Solvation of Poly(*N*-isopropyl acrylamide) Microgels

PMSE Preprints **2013**, 108, 28-29

4. F. Plamper, Y. Xu, J. Yuan, M. Ballauff and A. H. E. Müller,
Polyelectrolyte Stars and Cylindrical Brushes Made by ATRP: New Building Blocks in Nanotechnology

in New smart materials via metal mediated macromolecular engineering: from complex to nanostructures, eds. E. Koshravi, Y. Yagci and Y. Savelyev, Nato Science for Peace and Security Series, Springer, Dordrecht, **2009**, p. 17-36

3. A. H. E. Müller, F. A. Plamper, A. Schmalz and M. Ballauff,
Tuning the Thermoresponsiveness of Weak Polyelectrolytes by pH and Light: Lower and Upper Critical Solution Temperature of Poly(*N,N*-dimethylaminoethyl methacrylate)

Polymer Preprints **2008**, 49, 1099-1100

2. F. A. Plamper, A. H. E. Müller and M. Ballauff,
Nanoblossoms: Photoinduced Stretching and Photoinduced Dissolution of Polycation Stars by Switching the Charge of Counterions

PMSE Preprints **2007**, 96, 799-800

1. M. Ballauff, M. Patel, S. Rosenfeldt, N. Dingenouts, T. Narayanan, A. Müller and F. Plamper,
Analysis of the Correlation of Counterions to Macroions by Anomalous Small-Angle Scattering

PMSE Preprints **2005**, 93, 232-233

III. Patent(anmeldungen)

1. F. Plamper, L. Sigolaeva, S. Gladyr, O. Mergel, A. Gelissen, M. Noyong, D. Pergushov, I. Kurochkin, U. Simon and W. Richtering,
Biosensor zum Nachweis von Organophosphor- und Carbamatverbindungen

Deutsche Patentanmeldung DE 10 2016 118 319.9(A)