Schriftenverzeichnis Felix Plamper (insgesamt 104 Publikationen; H-Index: 38 laut Google Scholar; ***IF – wo erwähnt – ist gewöhnlicherweise zum Einreichungszeitpunkt angegeben*****)**

I. Publikationen (mit peer review)

87. T. Elschner,* R. Neubert, N. Starke, B. Günther, F. Plamper, M. Rüggeberg and S. Fischer
Growth and Orientation of Copper Gallate SURMOFs on Cellulosic Thin Films

RSC Advances **2026**, *16* (34), 31877–31884

86. V. Schildknecht, A. Lehmann, R. Neubert, Q. Prasser, A. Voigt, G. Chahine, I. Morfin, E. Brendler, S. Rosenfeldt, U. Mansfeld and F. A. Plamper*
Full (Electro-)Chemical Control over the Aggregation State of Diblock Copolymer Mixtures Including Nonequilibrium Micelles

ACS Polymers Au **2026**, *ASAP* ***(IF=7.6)***

85. L. Dagand, E. Bittrich, P. Uhlmann, F. A. Plamper and A. S. Münch*
Switching of Strong Polyelectrolyte Brushes Induced by Changes in the Electrode Potential

Langmuir **2026**, *42* (18), 12790–12799

84. A. Voigt, C. Strauch, T. Höfkens, M. Wahab, W. Hadwich, C. Barner-Kowollik, C. Hübler, S. Schneider* and F. A. Plamper*
Following the Formation of Single-Chain Nanoparticles Generated by Interblock Crosslinking within Diblock Copolymers: A Monte Carlo Simulation Study with Adjustable Interaction Strength between the Blocks

Soft Matter **2026**, *22*, 3393–3402 ***(published as Open Access Spotlight 2026 article)***

83. R. Neubert, E. Schumann, V. Schildknecht, A. Lehmann, S. Rosenfeldt, C. Hübler and F. A. Plamper*
Structural Changes of Flexible, Small-Sized Polycationic Microgels upon Interaction with Hexacyanoferrate(III) Viewed at an Atomic and a Particle Scale

Macromolecular Chemistry and Physics **2026**, *227* (4), e00493

82. K. Mazumder, H. Nederstedt, R. Weber, S. Haraguchi, R. Neubert, F. Plamper, C. Müller and M. Sommer*
Kinking Matters: *meta*-Terphenyl Improves Hydroxide Conductivity of Mechanically Robust Fluorine-Free Poly(arylene piperidinium) Copolymers for Anion Exchange Membranes

ACS Applied Materials & Interfaces **2025**, *17* (29), 41978–41990

81. Q. Prasser, T. Fuhs, B. Torger, R. Neubert, E. Brendler, C. Vogt, F. Mertens and F. A. Plamper*
Nonequilibrium Colloids: Temperature-Induced Bouquet Formation of Flower-like Micelles as a Time-Domain-Shifting Macromolecular Heat Alert

ACS Applied Materials & Interfaces **2023***, 15* (50), 57950–57959 ***(IF=10.4)*** (elected by the editor as a Forum Article)

80. D. Steinbach, R. Neubert, S. Gersdorf, C. Schimpf, D. Erb, D. Rafaja, F. A. Plamper* and F. Mertens*
Morphology and Orientation Change of Layer-by-Layer Deposited One- and Two-Dimensional Coordination Polymer Nanocrystals Containing Rhodium Paddle-Wheel Units

CrystEngComm **2023***, 25* (32), 4568–4581

79. S. Gersdorf, V. Schildknecht, E. Schumann, S. Seidel, B. Torger, Q. Prasser, N. Frenzel, A. Lißner, J. Heitmann, F. Mertens, G. Frisch and F. A. Plamper*
Aqueous Polyelectrolyte Electrodeposition: The Effects of Alkyl Substitution and Varying Supporting Electrolyte Concentrations on the Deposition Efficiency

ChemElectroChem **2023***, 10* (17), e202300217 (published as Editors´ Choice: Spotlights)

78. Q. Prasser, D. Steinbach, A. S. Münch, R. Neubert, C. Weber, P. Uhlmann, F. Mertens and F. A. Plamper*
Interfacial Rearrangements of Block Copolymer Micelles Toward Gelled Liquid-Liquid Interfaces with Adjustable Viscoelasticity

Small **2022***, 18* (18), e2106956 ***(IF=15.5)***

77. Q. Prasser, D. Steinbach, D. Kodura, K. König, V. Schildknecht, C. Weber, E. Brendler, C. Vogt, U. Peuker, C. Barner-Kowollik, F. Mertens, F. H. Schacher, A. S. Goldmann and F. A. Plamper*
Electrochemical Stimulation of Water-Oil Interfaces by PEO-*b*-*q*PDPAEMA Block Copolymer Systems

Langmuir **2021***, 37*, 1073–1081

76. S.-H. Jung, S. Schneider, F. A. Plamper and A. Pich,*
Responsive Supramolecular Microgels with Redox-Triggered Cleavable Crosslinks

Macromolecules **2020***, 53*, 1043–1053

75. S. Schneider, F. Jung, O. Mergel, J. Lammertz, A. Nickel, T. Caumanns, A. Mhamdi, J. Mayer, A. Mitsos and F. A. Plamper,*
Model-based Design and Synthesis of Ferrocene Containing Microgels

Polymer Chemistry **2020***, 11*, 315–325

74. 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

73. 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

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. Brugnoni, 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), *e0210898*791

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 ***(IF=9.6)***

69. L. Sigolaeva,* D. Pergushov, M. Oelmann, S. Schwarz, M. Brugnoni, 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. Nevskyi, 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 ***(IF=19)***

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 ***(IF=20.3)***

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. Brüx, 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. Gladyr, 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 Thermoresponsive 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. Erlkamp, 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 ABC_3 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. Pieles, 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

15. Lehmann, A.; Böhle, A.; Plamper, F. A.,
Electroactive Microgel Systems

in *Micro and Nano Gels. Synthesis, Characterization, Modelling and Applications*, eds. T. Kureha, D. Suzuki, Wiley, Weinheim, **2026**, pp. 533-553

14. F. A. Plamper,
Energiewende auf der Nanoskala?

Acamonta (Zeitschrift für Freunde und Förderer der TU Bergakademie Freiberg) **2021**, *28*, 39-41.

13. D. V. Pergushov, F. A. Plamper,
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. Muller 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. Muller, 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**, pp. 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)

2. Q. Prasser, T. Fuhs, B. Torger, R. Neubert, F. Mertens and F. A. Plamper*
Dispersion und Temperatursensor mit einer solchen Dispersion

Deutsche Patentanmeldung DE 10 2023 114 492.8

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)