

Stefan Frster

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5900242/stefan-forster-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

213
papers

14,503
citations

60
h-index

117
g-index

219
ext. papers

15,521
ext. citations

7
avg, IF

6.41
L-index

#	Paper	IF	Citations
213	Vesicles and Liposomes: A Self-Assembly Principle Beyond Lipids. <i>Advanced Materials</i> , 2003 , 15, 1323-1333	33.1	1183
212	Amphiphilic Block Copolymers in Structure-Controlled Nanomaterial Hybrids. <i>Advanced Materials</i> , 1998 , 10, 195-217	24	1116
211	Polyisoprene-Polystyrene Diblock Copolymer Phase Diagram near the Order-Disorder Transition. <i>Macromolecules</i> , 1995 , 28, 8796-8806	5.5	875
210	From Self-Organizing Polymers to Nanohybrid and Biomaterials. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 688	16.4	505
209	The formation of polymer vesicles or "peptosomes" by polybutadiene-block-poly(L-glutamate)s in dilute aqueous solution. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1658-63	16.4	389
208	Micellization of strongly segregated block copolymers. <i>Journal of Chemical Physics</i> , 1996 , 104, 9956-9970	9.9	386
207	Size and surface effects on the MRI relaxivity of manganese ferrite nanoparticle contrast agents. <i>Nano Letters</i> , 2007 , 7, 2422-7	11.5	369
206	Complex Phase Behavior of Polyisoprene-Polystyrene Diblock Copolymers Near the Order-Disorder Transition. <i>Macromolecules</i> , 1994 , 27, 6922-6935	5.5	367
205	Fluctuations, conformational asymmetry and block copolymer phase behaviour. <i>Faraday Discussions</i> , 1994 , 98, 7-18	3.6	359
204	Preparation of Palladium Colloids in Block Copolymer Micelles and Their Use for the Catalysis of the Heck Reaction. <i>Journal of the American Chemical Society</i> , 1997 , 119, 10116-10120	16.4	324
203	Polyelectrolytes in solution. <i>Advances in Polymer Science</i> , 1995 , 51-133	1.3	303
202	CdSe and CdSe/CdS nanorod solids. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12984-8	16.4	267
201	Static and dynamic light scattering by aqueous polyelectrolyte solutions: effect of molecular weight, charge density and added salt. <i>Polymer</i> , 1990 , 31, 781-792	3.9	232
200	Scattering curves of ordered mesoscopic materials. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1347-60	3.4	208
199	Colloidal quasicrystals with 12-fold and 18-fold diffraction symmetry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 1810-4	11.5	198
198	Synthesis of Nanoporous Silica with New Pore Morphologies by Templating the Assemblies of Ionic Block Copolymers. <i>Langmuir</i> , 1998 , 14, 2027-2031	4	189
197	Polyelectrolyte Block Copolymer Micelles. <i>Advances in Polymer Science</i> , 173-210	1.3	171

196	A customizable software for fast reduction and analysis of large X-ray scattering data sets: applications of the new package to small-angle X-ray scattering and grazing-incidence small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2014 , 47, 1797-1803	3.8	167
195	Micelle and vesicle formation of amphiphilic nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2752-4	16.4	166
194	Charged Polymer Brushes: Counterion Incorporation and Scaling Relations. <i>Physical Review Letters</i> , 1998 , 81, 4172-4175	7.4	157
193	Composite Hydrogels with Tunable Anisotropic Morphologies and Mechanical Properties. <i>Chemistry of Materials</i> , 2016 , 28, 3406-3415	9.6	156
192	Evidence for the preservation of the particle identity in miniemulsion polymerization. <i>Macromolecular Rapid Communications</i> , 1999 , 20, 81-84	4.8	153
191	pH-induced release from P2VP-PEO block copolymer vesicles. <i>Langmuir</i> , 2006 , 22, 5843-7	4	149
190	Novel Amphiphilic Block Copolymers by Polymer Reactions and Their Use for Solubilization of Metal Salts and Metal Colloids. <i>Macromolecules</i> , 1996 , 29, 3800-3806	5.5	148
189	From self-organizing polymers to nano- and biomaterials. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2671-2688	14.6	
188	Scatter: software for the analysis of nano- and mesoscale small-angle scattering. <i>Journal of Applied Crystallography</i> , 2010 , 43, 639-646	3.8	141
187	Structure of Polyelectrolyte Block Copolymer Micelles. <i>Macromolecules</i> , 2002 , 35, 4096-4105	5.5	130
186	Anisotropic particles align perpendicular to the flow direction in narrow microchannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6706-11	11.5	116
185	Direct preparation and loading of lipid and polymer vesicles using inkjets. <i>Small</i> , 2005 , 1, 1177-80	11	112
184	Synthesis of PB β EO and PI β EO Block Copolymers with Alkylolithium Initiators and the Phosphazene Base t-BuP4. <i>Macromolecules</i> , 1999 , 32, 2783-2785	5.5	108
183	Fusion of Charged Block Copolymer Micelles into Toroid Networks. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6657-6668	3.4	107
182	Tailor-made ligands for biocompatible nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 6577-80	16.4	104
181	Nanoparticle-loaded magnetophoretic vesicles. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7315-20	16.2	101
180	Successive Use of Amphiphilic Block Copolymers as Nanoreactors and Templates: Preparation of Porous Silica with Metal Nanoparticles. <i>Chemistry of Materials</i> , 1999 , 11, 1402-1405	9.6	101
179	Seeded Growth Synthesis of Gold Nanotriangles: Size Control, SAXS Analysis, and SERS Performance. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11152-11163	9.5	99

178	Scattering Functions of Polymeric Core/Shell Structures and Excluded Volume Chains. <i>Macromolecules</i> , 1998 , 31, 879-891	5.5	99
177	Protein-Assisted Assembly of Modular 3D Plasmonic Raspberry-like Core/Satellite Nanoclusters: Correlation of Structure and Optical Properties. <i>ACS Nano</i> , 2016 , 10, 5740-50	16.7	93
176	Density Profile of Spherical Polymer Brushes. <i>Physical Review Letters</i> , 1996 , 77, 95-98	7.4	92
175	. <i>European Physical Journal E</i> , 2002 , 7, 241-250	1.5	92
174	High strength in combination with high toughness in robust and sustainable polymeric materials. <i>Science</i> , 2019 , 366, 1376-1379	33.3	89
173	Lyotropic Phase Morphologies of Amphiphilic Block Copolymers. <i>Macromolecules</i> , 2001 , 34, 4610-4623	5.5	88
172	How Dendrons Stiffen Polymer Chains: A SANS Study. <i>Macromolecules</i> , 1999 , 32, 4043-4049	5.5	88
171	Tailor-made quantum dot and iron oxide based contrast agents for in vitro and in vivo tumor imaging. <i>ACS Nano</i> , 2012 , 6, 3346-55	16.7	87
170	Fabrication of polymersomes using double-emulsion templates in glass-coated stamped microfluidic devices. <i>Small</i> , 2010 , 6, 1723-7	11	81
169	Lyotropic Mesophases of Poly(ethylene oxide)-b-poly(butadiene) Diblock Copolymers and Their Cross-Linking To Generate Ordered Gels. <i>Macromolecules</i> , 1999 , 32, 5803-5809	5.5	81
168	Shear thinning and orientational ordering of wormlike micelles. <i>Physical Review Letters</i> , 2005 , 94, 017803	7.4	79
167	Polyelectrolyte Brushes Grafted at the Air/Water Interface. <i>Macromolecules</i> , 1997 , 30, 8447-8452	5.5	77
166	A Dendritic Nanocylinder: Shape Control Through Implementation of Steric Strain. <i>Advanced Materials</i> , 1998 , 10, 793-797	24	74
165	Block copolymer micelles: Viscoelasticity and interaction potential of soft spheres. <i>Journal of Chemical Physics</i> , 1997 , 107, 262-272	3.9	73
164	Microfluidics-Produced Collagen Fibers Show Extraordinary Mechanical Properties. <i>Nano Letters</i> , 2016 , 16, 5917-22	11.5	72
163	Plasmonic library based on substrate-supported gradiental plasmonic arrays. <i>ACS Nano</i> , 2014 , 8, 9410-21	16.7	70
162	Order causes secondary Bragg peaks in soft materials. <i>Nature Materials</i> , 2007 , 6, 888-93	27	68
161	Preparation of monodisperse block copolymer vesicles via flow focusing in microfluidics. <i>Langmuir</i> , 2010 , 26, 6860-3	4	67

160	Simultaneous SAXS/WAXS/UV-Vis Study of the Nucleation and Growth of Nanoparticles: A Test of Classical Nucleation Theory. <i>Langmuir</i> , 2015 , 31, 11678-91	4	66
159	Completely miscible nanocomposites. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7811-4	16.4	66
158	Shape Investigations of Charged Block Copolymer Micelles on Chemically Different Surfaces by Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 6669-6675	3.4	66
157	Self-assembly of smallest magnetic particles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14484-9	11.5	65
156	Polymer ligand exchange to control stabilization and compatibilization of nanocrystals. <i>ACS Nano</i> , 2014 , 8, 6114-22	16.7	62
155	Preparation of monodisperse block copolymer vesicles via a thermotropic cylinder-vesicle transition. <i>Langmuir</i> , 2009 , 25, 1337-44	4	61
154	Nonlinear Osmotic Brush Regime: Experiments, Simulations and Scaling Theory. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16870-16876	3.4	61
153	Laser Photolysis Formation of Gold Colloids in Block Copolymer Micelles. <i>Langmuir</i> , 1999 , 15, 83-91	4	60
152	Von selbstorganisierenden Polymeren zu Nanohybrid- und Biomaterialien. <i>Angewandte Chemie</i> , 2002 , 114, 712-739	3.6	59
151	Intrinsic viscosity of small spherical polyelectrolytes: Proof for the intermolecular origin of the polyelectrolyte effect. <i>Journal of Chemical Physics</i> , 1996 , 105, 7795-7807	3.9	58
150	Nanorattles with tailored electric field enhancement. <i>Nanoscale</i> , 2017 , 9, 9376-9385	7.7	56
149	Completely miscible polyethylene nanocomposites. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18157-60	16.4	56
148	In-Depth Insights into the Key Steps of Delamination of Charged 2D Nanomaterials. <i>Langmuir</i> , 2016 , 32, 10582-10588	4	55
147	Microfluidic liquid jet system with compatibility for atmospheric and high-vacuum conditions. <i>Lab on A Chip</i> , 2014 , 14, 1733-45	7.2	54
146	Calculation of scattering-patterns of ordered nano- and mesoscale materials. <i>Advances in Colloid and Interface Science</i> , 2011 , 163, 53-83	14.3	52
145	Polyelectrolyte Block Copolymers as Effective Stabilizers in Emulsion Polymerization. <i>Macromolecules</i> , 1997 , 30, 2288-2293	5.5	52
144	Amphiphilic Block Copolymers for Templating Applications. <i>Topics in Current Chemistry</i> , 2003 , 1-28		52
143	Giant hexagonal superstructures in diblock-copolymer membranes. <i>Physical Review Letters</i> , 2002 , 89, 238302	7.4	52

142	Two-Dimensional Self-Assembled Structures of Highly Ordered Bioactive Crystalline-Based Block Copolymers. <i>Macromolecules</i> , 2017 , 50, 8544-8553	5.5	49
141	Direct synthesis of inverse hexagonally ordered diblock copolymer/polyoxometalate nanocomposite films. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12685-92	16.4	49
140	Direct observation of confined acoustic phonons in the photoluminescence spectra of a single CdSe-CdS-ZnS core-shell-shell nanocrystal. <i>Physical Review Letters</i> , 2008 , 100, 057403	7.4	48
139	Topological Paths and Transient Morphologies during Formation of Mesoporous Block Copolymer Membranes. <i>Macromolecules</i> , 2014 , 47, 5566-5577	5.5	44
138	Characteristics of picoliter droplet dried residues as standards for direct analysis techniques. <i>Analytical Chemistry</i> , 2008 , 80, 1967-77	7.8	43
137	Plasmonic gold-poly(N-isopropylacrylamide) core-shell colloids with homogeneous density profiles: a small angle scattering study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 1354-67	3.6	42
136	Evaporation-Induced Block Copolymer Self-Assembly into Membranes Studied by in Situ Synchrotron SAXS. <i>Macromolecules</i> , 2015 , 48, 1524-1530	5.5	41
135	Atomic-Force and Optical Microscopy Investigations on Thin-Film Morphology of Spherulites in Melt-Crystallized Poly(ethylene adipate). <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 12084-12092	3.9	40
134	A new technique for the deposition of standard solutions in total reflection X-ray fluorescence spectrometry (TXRF) using pico-droplets generated by inkjet printers and its applicability for aerosol analysis with SR-TXRF. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006 , 61, 1098-1104	3.1	39
133	Synthesis of nanostructured polymer-titanium oxide composites through the assembly of titanium-oxo clusters and amphiphilic block copolymers micelles. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3426-3430		39
132	Fast diffusion-limited lyotropic phase transitions studied in situ using continuous flow microfluidics/microfocus-SAXS. <i>Langmuir</i> , 2014 , 30, 12494-502	4	36
131	Synthesis of pH-Responsive Nanocapsules via Inverse Miniemulsion Periphery RAFT Polymerization and Post-Polymerization Reaction. <i>ACS Macro Letters</i> , 2014 , 3, 935-939	6.6	36
130	Noncanonical control of <i>C. elegans</i> germline apoptosis by the insulin/IGF-1 and Ras/MAPK signaling pathways. <i>Cell Death and Differentiation</i> , 2013 , 20, 97-107	12.7	36
129	Early development drug formulation on a chip: fabrication of nanoparticles using a microfluidic spray dryer. <i>Lab on A Chip</i> , 2011 , 11, 2362-8	7.2	35
128	Atomic Force Microscopy Characterization and Interpretation of Thin-Film Poly(butylene adipate) Spherulites with Ring Bands. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1322-1328	4.8	35
127	Internal Interface of a Compressed PEEBEO Diblock Copolymer Monolayer. <i>Langmuir</i> , 2003 , 19, 709-716	4	35
126	Mesoscopic surface patterns formed by block copolymer micelles. <i>Macromolecular Chemistry and Physics</i> , 2000 , 201, 204-211	2.6	35
125	A General Route to Optically Transparent Highly Filled Polymer Nanocomposites. <i>Macromolecules</i> , 2015 , 48, 5323-5327	5.5	34

124	Molecular exchange through vesicle membranes: a pulsed field gradient nuclear magnetic resonance study. <i>Journal of Chemical Physics</i> , 2004 , 120, 8740-7	3.9	31
123	Fusion of micelles of poly(butadiene-block-2-vinylpyridine) and derivatives on different substrates. <i>Surface and Interface Analysis</i> , 1999 , 27, 418-421	1.5	31
122	Micelle and Vesicle Formation of Amphiphilic Nanoparticles. <i>Angewandte Chemie</i> , 2009 , 121, 2790-2792	3.6	30
121	Miscibility with positive deviation in Tg-composition relationship in blends of poly(2-vinylpyridine)-block-poly(ethylene oxide) and poly(p-vinyl phenol). <i>Polymer</i> , 2006 , 47, 8350-8359	3.9	30
120	In Situ Characterization of Protein Corona Formation on Silica Microparticles Using Confocal Laser Scanning Microscopy Combined with Microfluidics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2459-2469	9.5	30
119	Synthesis and characterization of PbS nanoparticles in block copolymer micelles. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997 , 101, 1654-1656		29
118	Onset of Osmotic Swelling in Highly Charged Clay Minerals. <i>Langmuir</i> , 2018 , 34, 8215-8222	4	29
117	Synthesis of [Fe(L)(bipy)] spin crossover nanoparticles using blockcopolymer micelles. <i>Nanoscale</i> , 2016 , 8, 19058-19065	7.7	27
116	In situ synthesis and alignment of Au nanoparticles within hexagonally packed cylindrical domains of diblock copolymers in bulk. <i>Langmuir</i> , 2009 , 25, 9571-8	4	27
115	Routes to Nanoparticle-Polymer Superlattices. <i>Polymers</i> , 2011 , 3, 662-673	4.5	27
114	Molecular exchange through membranes of poly(2-vinylpyridine-block-ethylene oxide) vesicles. <i>Small</i> , 2007 , 3, 1074-83	11	27
113	Think Beyond the Core: Impact of the Hydrophilic Corona on Drug Solubilization Using Polymer Micelles. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24531-24543	9.5	25
112	Quantitative Description of the Intrinsic Viscosity of Branched Polyelectrolytes. <i>Macromolecules</i> , 1997 , 30, 2700-2704	5.5	25
111	Molecular dynamics study of colloidal quasicrystals. <i>Soft Matter</i> , 2016 , 12, 7644-54	3.6	24
110	Tailored nanostructuring of end-group-functionalized high-density polyethylene synthesized by an efficient catalytic version of Ziegler's "Aufbaureaktion". <i>Chemistry - A European Journal</i> , 2012 , 18, 13974-8	4.8	24
109	Covalent attachment of polymersomes to surfaces. <i>Langmuir</i> , 2010 , 26, 6927-31	4	24
108	Colloids and polymers: Amphiphilic block copolymers. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997 , 101, 1671-1678		24
107	Characterization of two new stable block copolymer mesophases by synchrotron small-angle scattering. <i>Europhysics Letters</i> , 1998 , 42, 425-430	1.6	24

106	Water permeation through block-copolymer vesicle membranes. <i>Chemical Physics Letters</i> , 2007 , 444, 268-272	2.5	24
105	Microfluidic Examination of the "Hard" Biomolecular Corona Formed on Engineered Particles in Different Biological Milieu. <i>Biomacromolecules</i> , 2018 , 19, 2580-2594	6.9	23
104	Poly(styrene sulfonate) self-organization: electrostatic and secondary interactions. <i>Macromolecular Symposia</i> , 2004 , 211, 93-106	0.8	22
103	Microfluidic nozzle device for ultrafine fiber solution blow spinning with precise diameter control. <i>Lab on A Chip</i> , 2018 , 18, 2225-2234	7.2	21
102	Polymeric Flower-Like Microparticles from Self-Assembled Cellulose Stearoyl Esters. <i>ACS Macro Letters</i> , 2015 , 4, 214-219	6.6	21
101	Vesicle-Forming Single-Tail Hydrocarbon Surfactants with Sulfonium Headgroup. <i>Langmuir</i> , 2000 , 16, 3003-3005	4	21
100	Molecular spoked wheels: synthesis and self-assembly studies on rigid nanoscale 2D objects. <i>Chemistry - A European Journal</i> , 2013 , 19, 4480-95	4.8	20
99	Novel fluorinated block copolymers for the construction of ultra-low energy surfaces and as dispersion stabilizers in solvents with low cohesion energy. <i>Acta Polymerica</i> , 1997 , 48, 262-268		20
98	Maßgeschneiderte Liganden für biokompatible Nanopartikel. <i>Angewandte Chemie</i> , 2006 , 118, 6727-6731	3.6	20
97	Controlled Exfoliation of Layered Silicate Heterostructures into Bilayers and Their Conversion into Giant Janus Platelets. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7398-402	16.4	20
96	Molecular exchange through membranes of poly(2-vinylpyridine-block-ethylene oxide) vesicles. <i>Chemical Physics Letters</i> , 2006 , 419, 430-433	2.5	19
95	¹ H relaxation enhancement induced by nanoparticles in solutions: influence of magnetic properties and diffusion. <i>Journal of Chemical Physics</i> , 2014 , 140, 174504	3.9	18
94	Monodisperse hollow silica spheres: An in-depth scattering analysis. <i>Nano Research</i> , 2016 , 9, 1366-1376	10	18
93	Interfacial stabilization by soft Janus nanoparticles. <i>Polymer</i> , 2016 , 106, 208-217	3.9	18
92	Ordered Particle Arrays via a Langmuir Transfer Process: Access to Any Two-Dimensional Bravais Lattice. <i>Langmuir</i> , 2019 , 35, 973-979	4	18
91	Nanoporous Sheets and Cylinders via Bulk Templating of Triblock Terpolymer/Homopolymer Blends. <i>Macromolecules</i> , 2014 , 47, 6289-6301	5.5	17
90	Noncovalent Grafting of Carbon Nanotubes with Triblock Terpolymers: Toward Patchy 1D Hybrids. <i>Macromolecules</i> , 2015 , 48, 1767-1776	5.5	17
89	Micellization of amphiphilic block copolymers and use of their micelles as nanosized reaction vessels. <i>Macromolecular Symposia</i> , 1997 , 121, 75-88	0.8	17

88	Synthesis of new side-group liquid crystalline block copolymers by living anionic polymerization. <i>Macromolecular Rapid Communications</i> , 2000 , 21, 133-135	4.8	17
87	In-Depth Interpretation of Mid-Infrared Spectra of Various Synthetic Fuels for the Chemometric Prediction of Aviation Fuel Blend Properties. <i>Energy & Fuels</i> , 2017 , 31, 2934-2943	4.1	16
86	Two Growth Mechanisms of Thiol-Capped Gold Nanoparticles Controlled by Ligand Chemistry. <i>Langmuir</i> , 2019 , 35, 12130-12138	4	16
85	Reversible gold nanorod alignment in mechano-responsive elastomers. <i>Polymer</i> , 2015 , 66, 167-172	3.9	16
84	Dielectric relaxation in poly(styrene-b-butadiene) copolymers with perfluorinated side chains. <i>Journal of Chemical Physics</i> , 2000 , 113, 3447-3451	3.9	16
83	Strategies for the selective loading of patchy worm-like micelles with functional nanoparticles. <i>Nanoscale</i> , 2018 , 10, 18257-18268	7.7	16
82	Encapsulation of functional organic compounds in nanoglass for optically anisotropic coatings. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4963-7	16.4	15
81	Synthesis and properties of a triphenyleneButadiynylene macrocycle. <i>Journal of Materials Chemistry</i> , 2011 , 21, 1404-1415		15
80	Hydrogelation Kinetics Measured in a Microfluidic Device with in Situ X-ray and Fluorescence Detection. <i>Langmuir</i> , 2018 , 34, 5535-5544	4	14
79	[FeFe]-hydrogenase models assembled into vesicular structures. <i>Journal of Liposome Research</i> , 2014 , 24, 59-68	6.1	14
78	Towards completely miscible PMMA nanocomposites reinforced by shear-stiff, nano-mica. <i>Journal of Colloid and Interface Science</i> , 2014 , 425, 143-51	9.3	14
77	SiCN Nanofibers with a Diameter Below 100 nm Synthesized via Concerted Block Copolymer Formation, Microphase Separation, and Crosslinking. <i>Small</i> , 2013 , 9, 984-989	11	14
76	Edelmetall- und Halbleiterkolloide im Polymerverbund. <i>Nachrichten Aus Der Chemie</i> , 1996 , 44, 579-586		14
75	Inverse Thermogelation of Aqueous Triblock Copolymer Solutions into Macroporous Shear-Thinning 3D Printable Inks. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12445-12456	9.5	13
74	Nucleation and Growth Kinetics of ZnO Nanoparticles Studied by in Situ Microfluidic SAXS/WAXS/UV-Vis Experiments. <i>Langmuir</i> , 2019 , 35, 11702-11709	4	13
73	Development of new rat monoclonal antibodies with different selectivities and sensitivities for 2,4,6-trinitrotoluene (TNT) and other nitroaromatic compounds. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 1919-33	4.4	13
72	Two-Step Delamination of Highly Charged, Vermiculite-like Layered Silicates via Ordered Heterostructures. <i>Langmuir</i> , 2017 , 33, 4816-4822	4	12
71	Facile large-scale synthetic route to monodisperse ZnO nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 444, 76-80	5.1	12

70	Lyotropic phase behavior of polymer-coated iron oxide nanoparticles. <i>Soft Matter</i> , 2012 , 8, 12124	3.6	12
69	How can immunochemical methods contribute to the implementation of the Water Framework Directive?. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1435-48	4.4	12
68	Self-supported particle-track-etched polycarbonate membranes as templates for cylindrical polypyrrole nanotubes and nanowires: an X-ray scattering and scanning force microscopy investigation. <i>Langmuir</i> , 2005 , 21, 11987-93	4	12
67	Self-assembly of block copolymers via micellar intermediate states into vesicles on time scales from milliseconds to days. <i>Polymer</i> , 2016 , 107, 434-444	3.9	12
66	Interactions between polyelectrolyte brushes in free-standing liquid films: influence of ionic strength 2001 , 195-199		12
65	Synthesis of [Fe(L)(L)] coordination polymer nanoparticles using blockcopolymer micelles. <i>Beilstein Journal of Nanotechnology</i> , 2017 , 8, 1318-1327	3	11
64	Polymer Cages as Universal Tools for the Precise Bottom-Up Synthesis of Metal Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14539-44	16.4	11
63	The effect of ethanol on the permeability of block copolymer vesicle membranes. <i>Journal of Membrane Science</i> , 2006 , 284, 1-4	9.6	11
62	Controlled Assembly of Block Copolymer Coated Nanoparticles in 2D Arrays. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8541-8545	16.4	10
61	Creating a synthetic platform for the encapsulation of nanocrystals with covalently bound polymer shells. <i>Nanoscale</i> , 2019 , 11, 3847-3854	7.7	10
60	Vesicular Polymer Hexosomes Exhibit Topological Defects. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10989-10995	16.4	10
59	Polymersomes containing iron sulfide (FeS) as primordial cell model : for the investigation of energy providing redox reactions. <i>Origins of Life and Evolution of Biospheres</i> , 2011 , 41, 103-19	1.5	10
58	Bundle formation in polyelectrolyte brushes. <i>Physical Review Letters</i> , 2008 , 101, 258303	7.4	10
57	SAXS Analysis of Shell Formation During Nanocapsule Synthesis via Inverse Miniemulsion Periphery RAFT Polymerization. <i>Macromolecular Rapid Communications</i> , 2015 , 36, 1267-71	4.8	9
56	Surface-induced breakout crystallization in cylinder-forming P(I-b-EO) diblock copolymer thin films. <i>European Physical Journal E</i> , 2011 , 34, 7	1.5	9
55	Sub-20 nm Magnetic Dots with Perpendicular Magnetic Anisotropy. <i>Advanced Functional Materials</i> , 2008 , 18, 76-81	15.6	9
54	Millisecond CdS nanocrystal nucleation and growth studied by microfluidics with in situ spectroscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 562, 263-269	5.1	9
53	Emerging Attractor in Wavy Poiseuille Flows Triggers Sorting of Biological Cells. <i>Physical Review Letters</i> , 2019 , 122, 128002	7.4	8

52	Parallel and Perpendicular Alignment of Anisotropic Particles in Free Liquid Microjets and Emerging Microdroplets. <i>Langmuir</i> , 2018 , 34, 4843-4851	4	8
51	Hydrogels from phospholipid vesicles. <i>Advances in Colloid and Interface Science</i> , 2014 , 208, 252-63	14.3	8
50	Towards mesoporous Keggin-type polyoxometalates [Systematic study on organic template removal. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6238	13	8
49	Nanoparticle Heat-Up Synthesis: X-ray Diffraction and Extension from Classical to Nonclassical Nucleation and Growth Theory. <i>ACS Nano</i> , 2021 , 15, 840-856	16.7	8
48	In situ formation of a MoS ₂ -based inorganic-organic nanocomposite by directed thermal decomposition. <i>Chemistry - A European Journal</i> , 2015 , 21, 8918-25	4.8	7
47	Shear-induced macroscopic [twinning] twins in soft colloidal crystals. <i>Soft Matter</i> , 2013 , 9, 8464	3.6	7
46	Completely Miscible Nanocomposites. <i>Angewandte Chemie</i> , 2011 , 123, 7957-7960	3.6	7
45	Extending the working range of immunoanalysis by exploitation of two monoclonal antibodies. <i>Journal of Agricultural and Food Chemistry</i> , 2004 , 52, 6394-401	5.7	7
44	Splitting and separation of colloidal streams in sinusoidal microchannels. <i>Lab on A Chip</i> , 2018 , 18, 3163-3171	7.1	7
43	Polymeric Flaky Nanostructures from Cellulose Stearoyl Esters for Functional Surfaces. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600636	4.6	6
42	Formation of large PEE domains in PEE212-PEO112 diblock copolymer monolayers: shift of the PEO-desorption transition. <i>Langmuir</i> , 2004 , 20, 11528-35	4	6
41	Reinforcement of nanostructured organogels by hydrogen bonds. <i>RSC Advances</i> , 2016 , 6, 42730-42738	3.7	6
40	Silver Particles with Rhombicuboctahedral Shape and Effective Isotropic Interactions with Light. <i>Chemistry of Materials</i> , 2019 , 31, 2822-2827	9.6	5
39	Hybrid Microgels with Confined Needle-like Lanthanide Phosphate Nanocrystals. <i>Chemistry of Materials</i> , 2016 , 28, 501-510	9.6	5
38	Surface dilational behavior of docosanic acid monolayers spread on the surface of drops of polymer solutions. <i>Thin Solid Films</i> , 1997 , 307, 100-105	2.2	5
37	An Inverse Thermogelling Bioink Based on an ABA-Type Poly(2-oxazoline) Amphiphile. <i>Biomacromolecules</i> , 2021 , 22, 3017-3027	6.9	5
36	Insights into Growth Kinetics of Colloidal Gold Nanoparticles: In Situ SAXS and UV-Vis Evaluation. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 1087-1095	3.8	5
35	Viscoelastic properties and reinforcement of non-aggregated and aggregated nanocomposites. <i>Polymer</i> , 2018 , 145, 101-107	3.9	4

34	Controlled Exfoliation of Layered Silicate Heterostructures into Bilayers and Their Conversion into Giant Janus Platelets. <i>Angewandte Chemie</i> , 2016 , 128, 7524-7528	3.6	4
33	Self-Assembly of Magnetic Iron Oxide Nanoparticles Into Cuboidal Superstructures 2018 , 165-189		4
32	Nanoglas-Verkapselung funktionaler organischer Verbindungen in optisch anisotrope Beschichtungen. <i>Angewandte Chemie</i> , 2015 , 127, 5047-5051	3.6	4
31	Magnetic antidot arrays using filled diblock copolymer micelles as ion etching mask. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e40-e43	2.8	4
30	Direct visual evidence of end-on adsorption geometry of pyridine on silver surface investigated by surface enhanced Raman scattering and density functional theory calculations. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 151, 888-94	4.4	3
29	In situ investigation of the liquid/solid interface of a block copolymer solution under shear stress using microbeam grazing-incidence small-angle x-ray scattering. <i>Applied Physics Letters</i> , 2007 , 91, 213102-4	2.4	3
28	Polymer Vesicles 2005 ,		3
27	Size-exclusion chromatography of cationic and anionic polyelectrolytes in aqueous media. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1993 , 14, 433-438		3
26	Influence of molecular weight on the distribution of segmental relaxation in polymer grafted nanoparticles. <i>Physical Review Materials</i> , 2022 , 6,	3.2	3
25	Controlling Polymer Microfiber Structure by Micro Solution Blow Spinning. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 1900453	2.6	3
24	Supramolecular Nanocomposites: Dual-Functional Cholesteric Hydroxypropyl Cellulose Esters Chemically Linked to Gold Nanoparticles. <i>ChemNanoMat</i> , 2016 , 2, 290-296	3.5	3
23	Growth of Gold Nanorods: A SAXS Study. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19947-19960	3.8	3
22	Makromolekulare Chemie 2000. <i>Nachrichten Aus Der Chemie</i> , 2001 , 49, 359-373	0.1	2
21	Makromolekulare Chemie 1999. <i>Nachrichten Aus Der Chemie</i> , 2000 , 48, 328-347	0.1	2
20	Technical Specification of the Small-Angle Neutron Scattering Instrument SKADI at the European Spallation Source. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3620	2.6	2
19	Controlled LCST Behavior and Structure Formation of Alternating Amphiphilic Copolymers in Water. <i>Macromolecules</i> , 2022 , 55, 1552-1565	5.5	2
18	Long-Term Colloidally Stable Aqueous Dispersions of 5 nm Spinel Ferrite Nanoparticles. <i>ChemistryOpen</i> , 2020 , 9, 1214-1220	2.3	1
17	Influence of Ester-Type Plasticizers on the Determination of Biodiesel Contaminations in Aviation Turbine Fuels According to ASTM D7797. <i>Energy & Fuels</i> , 2020 , 34, 5095-5098	4.1	1

16	Defect accommodation in nanostructured soft crystals. <i>Nanoscale</i> , 2014 , 6, 1635-45	7.7	1
15	Enzyme-linked immunosorbent assays for the sensitive analysis of 2,4-dinitroaniline and 2,6-dinitroaniline in water and soil. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 391, 1821-35	4.4	1
14	Chemically driven phase separation in black lipid membranes and its coupling to membrane functions. <i>Thin Solid Films</i> , 1992 , 210-211, 756-759	2.2	1
13	Bistability, Remanence, Read/write-memory and Logic Gate Function via A Stimuli Responsive Polymer.. <i>Advanced Materials</i> , 2022 , e2108833	24	1
12	3D-Positioning of Nanoparticles in High-Curvature Block Copolymer Domains. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17539-17546	16.4	1
11	Dynamics in the Plastic Crystalline Phases of Cyclohexanol and Cyclooctanol Studied by Quasielastic Neutron Scattering. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 6296-6304	3.4	1
10	Distribution and orientation of nerve fibers and myelin assembly in a brain section retrieved by small-angle neutron scattering. <i>Scientific Reports</i> , 2021 , 11, 17306	4.9	1
9	Colloidally stable, magnetoresponse liquid crystals based on clay nanosheets. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 12732-12740	7.1	1
8	Separation of chlorinated hydrocarbons and organophosphorus, pyrethroid pesticides by silicagel fractionation chromatography and their simultaneous determination by GC-MS. <i>Journal of Environmental Sciences</i> , 2004 , 16, 268-71	6.4	1
7	ABA Type Amphiphiles with Poly(2-benzhydryl-2-oxazine) Moieties: Synthesis, Characterization and Inverse Thermogelation. <i>Macromolecular Chemistry and Physics</i> , 2021 , 222, 2100114	2.6	0
6	Mechanism of Behavior of Two-Way Shape Memory Polymer under Constant Strain Conditions. <i>Macromolecules</i> , 2022 , 55, 1680-1689	5.5	0
5	Controlled Assembly of Block Copolymer Coated Nanoparticles in 2D Arrays. <i>Angewandte Chemie</i> , 2019 , 131, 8629	3.6	
4	Investigations on calcium carboxylate and sulfonate additive incompatibilities in a preservation oil. <i>Lubrication Science</i> , 2015 , 27, 71-81	1.3	
3	Application of a Modular Approach in Polymer Science: Synthesis of a Broad Variety of Amphiphilic Block Copolymers	595-619	
2	3D-Positioning of Nanoparticles in High-Curvature Block Copolymer Domains. <i>Angewandte Chemie</i> , 2021 , 133, 17680-17687	3.6	
1	Quasielastic neutron scattering reveals the temperature dependent rotational dynamics of densely grafted oleic acid.. <i>Journal of Chemical Physics</i> , 2022 , 156, 164908	3.9	