Anthony J Ryan

List of Publications by Year
in descending order

330 papers	24,465 citations	5574 82 h-index	8629 146 g-index
339 all docs	339 docs citations	339 times ranked	17110 citing authors

#	Article	IF	Citations
1	Self-Motile Colloidal Particles: From Directed Propulsion to Random Walk. Physical Review Letters, 2007, 99, 048102.	7.8	1,717
2	Selfâ€Assembled Block Copolymer Aggregates: From Micelles to Vesicles and their Biological Applications. Macromolecular Rapid Communications, 2009, 30, 267-277.	3.9	1,338
3	Polyisoprene-Polystyrene Diblock Copolymer Phase Diagram near the Order-Disorder Transition. Macromolecules, 1995, 28, 8796-8806.	4.8	965
4	Mechanistic Insights for Block Copolymer Morphologies: How Do Worms Form Vesicles?. Journal of the American Chemical Society, 2011, 133, 16581-16587.	13.7	708
5	Modes of Crystallization in Block Copolymer Microdomains:Â Breakout, Templated, and Confined. Macromolecules, 2002, 35, 2365-2374.	4.8	426
6	Biomimetic pH Sensitive Polymersomes for Efficient DNA Encapsulation and Delivery. Advanced Materials, 2007, 19, 4238-4243.	21.0	415
7	Complex Phase Behavior of Polyisoprene-Polystyrene Diblock Copolymers Near the Order-Disorder Transition. Macromolecules, 1994, 27, 6922-6935.	4.8	412
8	Aqueous Dispersion Polymerization: A New Paradigm for in Situ Block Copolymer Self-Assembly in Concentrated Solution. Journal of the American Chemical Society, 2011, 133, 15707-15713.	13.7	398
9	Spinodal-Assisted Crystallization in Polymer Melts. Physical Review Letters, 1998, 81, 373-376.	7.8	367
10	Predictive Phase Diagrams for RAFT Aqueous Dispersion Polymerization: Effect of Block Copolymer Composition, Molecular Weight, and Copolymer Concentration. Macromolecules, 2012, 45, 5099-5107.	4.8	364
11	Sterilizable Gels from Thermoresponsive Block Copolymer Worms. Journal of the American Chemical Society, 2012, 134, 9741-9748.	13.7	351
12	RAFT Aqueous Dispersion Polymerization Yields Poly(ethylene glycol)-Based Diblock Copolymer Nano-Objects with Predictable Single Phase Morphologies. Journal of the American Chemical Society, 2014, 136, 1023-1033.	13.7	334
13	Polymer Crystallization in 25-nm Spheres. Physical Review Letters, 2000, 84, 4120-4123.	7.8	331
14	Polymer Crystallization Confined in One, Two, or Three Dimensions. Macromolecules, 2001, 34, 8968-8977.	4.8	318
15	Bilayers and Interdigitation in Block Copolymer Vesicles. Journal of the American Chemical Society, 2005, 127, 8757-8764.	13.7	288
16	Toward polymer upcyclingâ€"adding value and tackling circularity. Science, 2021, 373, 66-69.	12.6	280
17	Recent experiments on a small-angle/wide-angle X-ray scattering beam line at the ESRF. Journal of Applied Crystallography, 2003, 36, 791-794.	4.5	271
18	Toughening by nanostructure. Polymer, 2008, 49, 4475-4488.	3.8	258

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19	Crystallization in Oriented Semicrystalline Diblock Copolymers. Macromolecules, 1996, 29, 8835-8843.	4.8	231
20	Structure Development in Semicrystalline Diblock Copolymers Crystallizing from the Ordered Melt. Macromolecules, 1995, 28, 3860-3868.	4.8	230
21	Transformations to and from the Gyroid Phase in a Diblock Copolymer. Macromolecules, 1998, 31, 5702-5716.	4.8	216
22	Development of biodegradable electrospun scaffolds for dermal replacement. Biomaterials, 2008, 29, 3091-3104.	11.4	212
23	Time resolved simultaneous small- and wide-angle X-ray scattering during polyethylene deformationâ€"II. Cold drawing of linear polyethylene. Polymer, 1998, 39, 39-52.	3.8	203
24	Density fluctuations: The nucleation event in isotactic polypropylene crystallization. Polymer, 1998, 39, 2381-2385.	3.8	200
25	Templated formation of giant polymer vesicles with controlled size distributions. Nature Materials, 2009, 8, 507-511.	27.5	197
26	The Specific Work of Flow as a Criterion for Orientation in Polymer Crystallization. Macromolecules, 2008, 41, 1901-1904.	4.8	185
27	A Real-Time Simultaneous Small- and Wide-Angle X-ray Scattering Study of In-Situ Deformation of Isotropic Polyethylene. Macromolecules, 1995, 28, 6383-6393.	4.8	184
28	Cross-Linking of Cationic Block Copolymer Micelles by Silica Deposition. Journal of the American Chemical Society, 2007, 129, 1717-1723.	13.7	176
29	Testing the Vesicular Morphology to Destruction: Birth and Death of Diblock Copolymer Vesicles Prepared via Polymerization-Induced Self-Assembly. Journal of the American Chemical Society, 2015, 137, 1929-1937.	13.7	168
30	Dynamics of Structure Formation in Crystallizable Block Copolymers. Macromolecules, 1995, 28, 1422-1428.	4.8	163
31	Control of Structural Morphology in Shear-Induced Crystallization of Polymers. Macromolecules, 2010, 43, 2389-2405.	4.8	163
32	Self-assembled autonomous runners and tumblers. Physical Review E, 2010, 82, 015304.	2.1	157
33	Controlling Polymersome Surface Topology at the Nanoscale by Membrane Confined Polymer/Polymer Phase Separation. ACS Nano, 2011, 5, 1775-1784.	14.6	154
34	Simultaneous time resolved SAXS and WAXS experiments using synchrotron radiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 587-591.	1.6	152
35	Complex Phase Behavior in Solvent-Free Nonionic Surfactants. Science, 1996, 271, 976-978.	12.6	145
36	An aligned 3D neuronal-glial co-culture model for peripheral nerve studies. Biomaterials, 2012, 33, 5901-5913.	11.4	139

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37	The evolution of vesicles from bulk lamellarÂgels. Nature Materials, 2005, 4, 869-876.	27.5	138
38	Time resolved simultaneous small- and wide-angle X-ray scattering during polyethylene deformation: 1. Cold drawing of ethylene-Î±-olefin copolymers. Polymer, 1997, 38, 5521-5538.	3.8	136
39	From Hard Spheres to Soft Spheres:Â The Effect of Copolymer Composition on the Structure of Micellar Cubic Phases Formed by Diblock Copolymers in Aqueous Solution. Langmuir, 2000, 16, 2508-2514.	3.5	131
40	Reciprocating Power Generation in a Chemically Driven Synthetic Muscle. Nano Letters, 2006, 6, 73-77.	9.1	131
41	Correlating Structure with Function in Thermally Annealed PCDTBT:PC₇₀BM Photovoltaic Blends. Advanced Functional Materials, 2012, 22, 1399-1408.	14.9	131
42	Self-Organization of Skin Cells in Three-Dimensional Electrospun Polystyrene Scaffolds. Tissue Engineering, 2005, 11, 1023-1033.	4.6	130
43	Aqueous Particulate Foams Stabilized Solely with Polymer Latex Particles. Langmuir, 2006, 22, 7512-7520.	3.5	130
44	Crystallization of a Weakly Segregated Polyolefin Diblock Copolymer. Macromolecules, 1995, 28, 4932-4938.	4.8	126
45	Morphologies of Microphase-Separated A2B Simple Graft Copolymers. Macromolecules, 1996, 29, 5091-5098.	4.8	124
46	The development of nanoscale morphology in polymer:fullerene photovoltaic blends during solvent casting. Soft Matter, 2010, 6, 4128.	2.7	121
47	Dynamics of Structure Formation and Crystallization in Asymmetric Diblock Copolymers. Macromolecules, 1997, 30, 8338-8343.	4.8	120
48	A synchrotron X-ray study of melting and recrystallization in isotactic polypropylene. Polymer, 1997, 38, 759-768.	3.8	117
49	Chain Folding in Crystallizable Block Copolymers. Macromolecules, 1997, 30, 1723-1727.	4.8	116
50	Crystallization of nanoscale-confined diblock copolymer chains. Polymer, 1996, 37, 4425-4429.	3.8	112
51	From a Water-Immiscible Monomer to Block Copolymer Nano-Objects via a One-Pot RAFT Aqueous Dispersion Polymerization Formulation. Macromolecules, 2013, 46, 769-777.	4.8	112
52	In situ simultaneous small and wide angle x-ray scattering: A new technique to study starch gelatinization. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 1579-1583.	2.1	111
53	Long-Range Structural Order, MoirÃ© Patterns, and Iridescence in Latex-Stabilized Foams. Journal of the American Chemical Society, 2006, 128, 7882-7886.	13.7	111
54	In-SituStudies of Structure Development during the Reactive Processing of Model Flexible Polyurethane Foam Systems Using FT-IR Spectroscopy, Synchrotron SAXS, and Rheology. Macromolecules, 1996, 29, 2960-2968.	4.8	109

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55	A Phase Diagram of the P3HT:PCBM Organic Photovoltaic System: Implications for Device Processing and Performance. Macromolecules, 2011, 44, 2908-2917.	4.8	109
56	The Combination of Thermal Analysis and Time-Resolved X-ray Techniques: a Powerful Method for Materials Characterization. Journal of Applied Crystallography, 1995, 28, 26-32.	4.5	108
57	Isothermal Crystallization Kinetics and Melting Behavior of Poly(oxyethylene)-b-poly(oxybutylene)/Poly(oxybutylene) Blends. Macromolecules, 2002, 35, 6937-6945.	4.8	108
58	Testosterone, Growth Hormone and IGF-I Responses to Acute and Chronic Resistive Exercise in Men Aged 55-70 Years. International Journal of Sports Medicine, 1995, 16, 445-450.	1.7	105
59	Pathways of Polymeric Vesicle Formation. Journal of Physical Chemistry B, 2006, 110, 10272-10279.	2.6	105
60	Simultaneous SAXS/WAXS and d.s.c. analysis of the melting and recrystallization behaviour of quenched polypropylene. Polymer, 1994, 35, 1352-1358.	3.8	104
61	An FT i.r. study of reaction kinetics and structure development in model flexible polyurethane foam systems. Polymer, 1996, 37, 1353-1361.	3.8	102
62	Polymeric Vesicle Permeability:Â A Facile Chemical Assay. Langmuir, 2006, 22, 4910-4913.	3.5	101
63	The Nanoscale Morphology of a PCDTBT:PCBM Photovoltaic Blend. Advanced Energy Materials, 2011, 1, 499-504.	19.5	99
64	Silk and Synthetic Polymers: Reconciling 100 Degrees of Separation. Advanced Materials, 2012, 24, 105-109.	21.0	99
65	Chain Folding in Semicrystalline Oxyethylene/Oxybutylene Diblock Copolymers. Macromolecules, 1997, 30, 8392-8400.	4.8	97
66	Simultaneous Studies of Reaction Kinetics and Structure Development in Polymer Processing. Science, 1995, 267, 996-999.	12.6	95
67	Development of a 3D cell culture system for investigating cell interactions with electrospun fibers. Biotechnology and Bioengineering, 2007, 97, 1318-1328.	3.3	95
68	Early Stages of Crystallization in Isotactic Polypropylene. Macromolecules, 2003, 36, 3656-3665.	4.8	94
69	Morphological Confinement on Crystallization in Blends of Poly(oxyethylene-block-oxybutylene) and Poly(oxybutylene). Macromolecules, 2002, 35, 3614-3621.	4.8	93
70	Chemically induced oscillations in a pH-responsive hydrogel. Physical Chemistry Chemical Physics, 2002, 4, 1367-1369.	2.8	92
71	Structures of Oxyethylene/Oxybutylene Diblock Copolymers in Their Solid and Liquid States. Macromolecules, 1995, 28, 6029-6041.	4.8	91
72	Order-disorder transition in a block copolyurethane. Macromolecules, 1992, 25, 6277-6283.	4.8	90

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73	Responsive brushes and gels as components of soft nanotechnology. Faraday Discussions, 2005, 128, 55-74.	3.2	90
74	Shear-Induced Crystallization in Blends of Model Linear and Long-Chain Branched Hydrogenated Polybutadienes. Macromolecules, 2006, 39, 5058-5071.	4.8	90
75	Designer polymer blends. Nature Materials, 2002, 1, 8-10.	27.5	89
76	Ordered Phases in Aqueous Solutions of Diblock Oxyethylene/Oxybutylene Copolymers Investigated by Simultaneous Small-Angle X-ray Scattering and Rheology. Macromolecules, 1997, 30, 5721-5728.	4.8	88
77	A scattering study of nucleation phenomena in polymer crystallisation. Faraday Discussions, 1999, 112, 13-29.	3.2	88
78	Tailoring Macromolecular Expression at Polymersome Surfaces. Advanced Functional Materials, 2009, 19, 2906-2914.	14.9	88
79	Microphase-Separation Behavior of Triblock Copolymer Melts. Comparison with Diblock Copolymer Melts. Macromolecules, 2000, 33, 5124-5130.	4.8	87
80	Use of rapidly mineralising osteoblasts and short periods of mechanical loading to accelerate matrix maturation in 3D scaffolds. Bone, 2009, 44, 822-829.	2.9	87
81	Combined microfabrication and electrospinning to produce 3-D architectures for corneal repair. Acta Biomaterialia, 2013, 9, 5511-5520.	8.3	87
82	Aqueous mesophases of block copolymers of ethylene oxide and 1,2-butylene oxide. Physical Chemistry Chemical Physics, 2001, 3, 2972-2980.	2.8	85
83	Processing of Poly(2,6-dimethyl-1,4-phenylene ether) with Epoxy Resin. 1. Reaction-Induced Phase Separation. Macromolecules, 2000, 33, 158-166.	4.8	84
84	Development of an Ibuprofenâ€•releasing biodegradable PLA/PGA electrospun scaffold for tissue regeneration. Biotechnology and Bioengineering, 2010, 105, 396-408.	3.3	84
85	Rheological Behavior and Gel-Point Determination for a Model Lewis Acid-Initiated Chain Growth Epoxy Resin. Macromolecules, 2001, 34, 2973-2980.	4.8	83
86	Morphology Development via Reaction-Induced Phase Separation in Flexible Polyurethane Foam. Macromolecules, 2002, 35, 5034-5042.	4.8	81
87	Antagonistic Triblock Polymer Gels Powered by pH Oscillations. Macromolecules, 2007, 40, 4393-4395.	4.8	81
88	A direct method to determine the degree of crystallinity and lamellar thickness of polymers: application to polyethylene. Polymer, 1994, 35, 4537-4544.	3.8	80
89	Facile Synthesis of Well-Defined Hydrophilic Methacrylic Macromonomers Using ATRP and Click Chemistry. Macromolecules, 2008, 41, 9542-9547.	4.8	79
90	Soft Hydrogels from Nanotubes of Poly(ethylene oxide)â^'Tetraphenylalanine Conjugates Prepared by Click Chemistry. Langmuir, 2009, 25, 2479-2485.	3.5	79

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91	Crystallization thermodynamics and kinetics in semicrystalline diblock copolymers. Polymer, 1998, 39, 1429-1437.	3.8	77
92	Interplay between Gelation and Phase Separation in Aqueous Solutions of Methylcellulose and Hydroxypropylmethylcellulose. Langmuir, 2012, 28, 10551-10557.	3.5	77
93	Synthesis, characterization and swelling behaviour of poly(methacrylic acid) brushes synthesized using atom transfer radical polymerization. Polymer, 2009, 50, 1005-1014.	3.8	76
94	pH controlled assembly of a polybutadieneâ€“poly(methacrylic acid) copolymer in water: packing considerations and kinetic limitations. Soft Matter, 2009, 5, 1674.	2.7	72
95	Dynamics of (micro)phase separation during fast, bulk copolymerization: some synchrotron SAXS experiments. Macromolecules, 1991, 24, 2883-2889.	4.8	71
96	Ordered melts of block copolymers of ethylene oxide and 1,2-butylene oxide. Physical Chemistry Chemical Physics, 2001, 3, 2961-2971.	2.8	71
97	Shear-Induced Orientational Transitions in the Body-Centered Cubic Phase of a Diblock Copolymer Gel. Macromolecules, 1998, 31, 3906-3911.	4.8	69
98	Characterisation of polyurethane networks based on vegetable derived polyol. Polymer, 2008, 49, 3279-3287.	3.8	69
99	Synthesis and Peptide-Induced Degradation of Biocompatible Fibers Based on Highly Branched Poly(2-hydroxyethyl methacrylate). Advanced Materials, 2006, 18, 1566-1570.	21.0	68
100	The effect of annealing on the structure and properties of isotactic polypropylene films. Journal of Macromolecular Science - Physics, 1995, 34, 427-458.	1.0	67
101	Effect of Chain Extenders on the Morphology Development in Flexible Polyurethane Foam. Macromolecules, 2002, 35, 6306-6312.	4.8	66
102	Effect of the Hofmeister Anions upon the Swelling of a Self-Assembled pH-Responsive Hydrogel. Langmuir, 2010, 26, 10191-10197.	3.5	66
103	Simplifying corneal surface regeneration using a biodegradable synthetic membrane and limbal tissue explants. Biomaterials, 2013, 34, 5088-5106.	11.4	66
104	Electrospinning pHâ€Responsive Block Copolymer Nanofibers. Advanced Materials, 2007, 19, 3544-3548.	21.0	65
105	1Î±,25 Dihydroxyvitamin D3 enhances cellular defences against UV-induced oxidative and other forms of DNA damage in skin. Photochemical and Photobiological Sciences, 2012, 11, 1837-1847.	2.9	65
106	A Synchrotron SAXS Study of Structure Development Kinetics during the Reactive Processing of Flexible Polyurethane Foam. Macromolecules, 1994, 27, 5428-5439.	4.8	64
107	Order, Disorder, and Composition Fluctuation Effects in Low Molar Mass Hydrocarbonâ^'Poly(dimethylsiloxane) Diblock Copolymers. Macromolecules, 1996, 29, 5940-5947.	4.8	64
108	Micellar Ordering in Concentrated Solutions of Di- and Triblock Copolymers in a Slightly Selective Solvent. Macromolecules, 1998, 31, 1188-1196.	4.8	64

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109	The hidden potential of urban horticulture. Nature Food, 2020, 1, 155-159.	14.0	64
110	Microphase Separation in Poly(oxyethylene)â˜Poly(oxybutylene) Diblock Copolymers. Macromolecules, 1998, 31, 8110-8116.	4.8	63
111	Large Cyclic Poly(oxyethylene)s:Â Chain Folding in the Crystalline State Studied by Raman Spectroscopy, X-ray Scattering, and Differential Scanning Calorimetry. Macromolecules, 1998, 31, 3030-3039.	4.8	63
112	Structure and Dynamics of Concentrated Solutions of Asymmetric Block Copolymers in Slightly Selective Solvents. Macromolecules, 1996, 29, 5955-5964.	4.8	62
113	The Effect of PEO Length on the Self-Assembly of Poly(ethylene oxide)â˜Tetrapeptide Conjugates Prepared by â€œClickâ€•Chemistry. Langmuir, 2009, 25, 11082-11089.	3.5	62
114	The use of irinotecan, oxaliplatin and raltitrexed for the treatment of advanced colorectal cancer: systematic review and economic evaluation. Health Technology Assessment, 2008, 12, iii-ix, xi-162.	2.8	60
115	Effect of shear on cubic phases in gels of a diblock copolymer. Journal of Chemical Physics, 1998, 108, 6929-6936.	3.0	59
116	Effect of Amphiphile Size on the Transformation from a Lyotropic Gel to a Vesicular Dispersion. Macromolecules, 2006, 39, 798-805.	4.8	59
117	Orderâ˜Disorder Transition in Poly(oxyethylene)â˜Poly(oxybutylene) Diblock Copolymers. Macromolecules, 1996, 29, 6212-6221.	4.8	58
118	On the mechanism of formation of vesicles from poly(ethylene oxide)-block-poly(caprolactone) copolymers. Soft Matter, 2009, 5, 3086.	2.7	58
119	Using poly(lactide-co-glycolide) electrospun scaffolds to deliver cultured epithelial cells to the cornea. Regenerative Medicine, 2010, 5, 395-401.	1.7	57
120	Rheology and structures of aqueous gels of diblock(oxyethyleneâ€“oxybutylene) copolymers with lengthy oxyethylene blocks. Physical Chemistry Chemical Physics, 2000, 2, 2755-2763.	2.8	56
121	Polymers: the quest for motility. Materials Today, 2008, 11, 20-23.	14.2	56
122	A correlation between residual radiation-induced DNA double-strand breaks in cultured fibroblasts and late radiotherapy reactions in breast cancer patients. Radiotherapy and Oncology, 1999, 51, 55-65.	0.6	55
123	Shear-Induced Lamellar Rotation Observed in a Diblock Copolymer by in Situ Small-Angle X-ray Scattering. Macromolecules, 1999, 32, 4668-4676.	4.8	55
124	Nitric oxide synthase inhibitors decrease coronary sinus-free radical concentration and ameliorate myocardial stunning in an ischemia-reperfusion model. Journal of the American College of Cardiology, 2001, 38, 546-554.	2.8	55
125	Melting, reaction and recrystallization in a reactive PC-PBT blend. Polymer, 1997, 38, 1923-1928.	3.8	53
126	Crystallization in block copolymer melts: Small soft structures that template larger hard structures. Journal of Chemical Physics, 2001, 114, 5425-5431.	3.0	53

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127	The pH-induced swelling and collapse of a polybase brush synthesized by atom transfer radical polymerization. Soft Matter, 2006, 2, 1076-1080.	2.7	53
128	Many Happy Returns: Combining insights from the environmental and behavioural sciences to understand what is required to make reusable packaging mainstream. Sustainable Production and Consumption, 2021, 27, 1688-1702.	11.0	53
129	A Highly Regular Hexagonally Perforated Lamellar Structure in a Quiescent Diblock Copolymer. Macromolecules, 2005, 38, 4947-4949.	4.8	50
130	Crystallization and Ionic Associations in Semicrystalline Ionomers. Macromolecules, 1998, 31, 1432-1435.	4.8	49
131	Micro- vs. macro-phase separation in binary blends of poly(styrene)-poly(isoprene) and poly(isoprene)-poly(ethylene oxide) diblock copolymers. Europhysics Letters, 2001, 53, 680-686.	2.0	49
132	The effect of architecture on the morphology and crystallization of oxyethylene/oxybutylene block copolymers from micelles in n-hexane. Journal of Materials Chemistry, 2003, 13, 2740-2748.	6.7	49
133	Microfluidicâ€Spinningâ€Directed Microreactors Toward Generation of Multiple Nanocrystals Loaded Anisotropic Fluorescent Microfibers. Advanced Functional Materials, 2015, 25, 7253-7262.	14.9	49
134	Flow-induced crystallisation of polymers from aqueous solution. Nature Communications, 2020, 11, 3372.	12.8	49
135	Time resolved simultaneous small- and wide-angle X-ray scattering during polyethylene deformation 3. Compression of polyethylene. Polymer, 1998, 39, 781-792.	3.8	48
136	Self-assembly of double hydrophilic block copolymers in concentrated aqueous solution. Soft Matter, 2011, 7, 6399.	2.7	48
137	Spinodal decomposition during bulk copolymerization: reaction injection moulding. Polymer, 1990, 31, 707-712.	3.8	47
138	Lamellar-to-gyroid transition in a poly(oxyethylene)â€“poly(oxybutylene) diblock copolymer melt. Physical Chemistry Chemical Physics, 1999, 1, 2097-2101.	2.8	47
139	Are metastable, precrystallisation, density-fluctuations a universal phenomena?. Faraday Discussions, 2003, 122, 343-361.	3.2	46
140	Neuron-Like Tubular Membranes Made of Diblock Copolymer Amphiphiles. Angewandte Chemie - International Edition, 2006, 45, 2052-2056.	13.8	46
141	Unexpected Facile Redistribution of Adsorbed Silica Nanoparticles Between Latexes. Journal of the American Chemical Society, 2010, 132, 2166-2168.	13.7	45
142	Effect of processing parameters on the morphology development during extrusion of polyethylene tape: An in-line small-angle X-ray scattering (SAXS) study. Polymer, 2013, 54, 6580-6588.	3.8	44
143	Sample environments and techniques combined with Small Angle X-ray Scattering. Advances in Colloid and Interface Science, 1998, 75, 1-43.	14.7	43
144	Development of a Closed Bioreactor System for Culture of Tissue-Engineered Skin at an Airâ€“Liquid Interface. Tissue Engineering, 2005, 11, 1824-1831.	4.6	42

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145	Simultaneous small-angle X-ray scattering and wide-angle X-ray diffraction. Journal of Thermal Analysis, 1993, 40, 887-899.	0.6	41
146	Raman spectroscopy combined with small angle x-ray scattering and wide angle x-ray scattering as a tool for the study of phase transitions in polymers. Review of Scientific Instruments, 1998, 69, 2114-2117.	1.3	41
147	Polymersomes hydrophilic brush scaling relations. Soft Matter, 2009, 5, 3607.	2.7	41
148	Direct visualization of the real time swelling and collapse of a poly(methacrylic acid) brush using atomic force microscopy. Soft Matter, 2009, 5, 296-299.	2.7	41
149	INTRACRANIAL INJURIES RESULTING FROM BOXING. Clinics in Sports Medicine, 1998, 17, 155-168.	1.8	40
150	Crystallization behavior of oxyethylene/oxybutylene diblock and triblock copolymers. Polymer, 2003, 44, 6843-6850.	3.8	40
151	Selfâ€Assemblyâ€Driven Electrospinning: The Transition from Fibers to Intact Beaded Morphologies. Macromolecular Rapid Communications, 2015, 36, 1437-1443.	3.9	40
152	Mechanistic Insights into Diblock Copolymer Nanoparticleâ€“Crystal Interactions Revealed via in Situ Atomic Force Microscopy. Journal of the American Chemical Society, 2018, 140, 7936-7945.	13.7	40
153	Lamellar phases and microemulsions in model ternary blends containing amphiphilic block copolymers. Journal of Materials Chemistry, 2001, 11, 2864-2874.	6.7	39
154	Monodisperse macromolecules â€“ A stepping stone to understanding industrial polymers. European Polymer Journal, 2011, 47, 447-464.	5.4	39
155	Effect of Matrix Polymer on Flow-Induced Nucleation in Polymer Blends. Physical Review Letters, 2013, 110, 087801.	7.8	39
156	Chemical actuation in responsive hydrogels. Polymer International, 2009, 58, 285-289.	3.1	38
157	Ultrafast exciton transport at early times in quantum dot solids. Nature Materials, 2022, 21, 533-539.	27.5	38
158	Urea hard segment morphology in flexible polyurethane foam. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 573-581.	2.1	37
159	Orientational Ordering of a Poly(oxyethylene)âˆ’Poly(oxybutylene) Diblock Copolymer Gel under Steady Shear Flow. Macromolecules, 1998, 31, 2952-2956.	4.8	37
160	Processing of Poly(2,6-dimethyl-1,4-phenylene ether) with Epoxy Resin. 2. Gelation Mechanism. Macromolecules, 2000, 33, 167-176.	4.8	37
161	Development of bilayer and trilayer nanofibrous/microfibrous scaffolds for regenerative medicine. Biomaterials Science, 2013, 1, 942.	5.4	37
162	A correlation between residual DNA double-strand breaks and clonogenic measurements of radiosensitivity in fibroblasts from preradiotherapy cervix cancer patients. International Journal of Radiation Oncology Biology Physics, 1997, 39, 1137-1144.	0.8	36

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163	Synthesis and Solid State Properties of a Poly(methyl methacrylate)-block-poly(2-(diethylamino)ethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 5573-5576.	4.8	36
164	Controlling Fusion and Aggregation in Polymersome Dispersions. Macromolecular Rapid Communications, 2008, 29, 1855-1860.	3.9	36
165	Development of a 3D human in vitro skin coâ€culture model for detecting irritants in realâ€time. Biotechnology and Bioengineering, 2010, 106, 794-803.	3.3	36
166	Understanding plastic packaging: The co-evolution of materials and society. Global Environmental Change, 2020, 65, 102166.	7.8	36
167	Effect of Block Architecture on the Gelation of Aqueous Solutions of Oxyethylene/Oxybutylene Block Copolymers. Langmuir, 1997, 13, 1860-1861.	3.5	35
168	Synthesis and characterisation of poly(sodium 4-styrenesulfonate) combs. Polymer, 2006, 47, 3455-3463.	3.8	35
169	Lamellarsomes: metastable polymeric multilamellar aggregates. Soft Matter, 2007, 3, 470-475.	2.7	35
170	Characterization of Polymer-Silica Nanocomposite Particles with Coreâ€“Shell Morphologies using Monte Carlo Simulations and Small Angle X-ray Scattering. Langmuir, 2011, 27, 8075-8089.	3.5	35
171	Time-Resolved Small-Angle X-ray Scattering Studies of Polymerâ^'Silica Nanocomposite Particles: Initial Formation and Subsequent Silica Redistribution. Journal of the American Chemical Society, 2011, 133, 826-837.	13.7	35
172	Cyclic polyethers. Polymer, 1995, 36, 3775-3778.	3.8	33
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