

Kyoung Taek Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Templated synthesis of microparticles with carbonaceous skeletal structures using polymer cubosomes as templates. <i>RSC Advances</i> , 2022, 12, 8429-8434.	3.6	6
2	Effect of hydrophilic block end groups and block junction on block copolymer self-assembly in solution. <i>RSC Advances</i> , 2022, 12, 7446-7452.	3.6	3
3	Morphological Diversity from the Solution Self-Assembly of Block Copolymer Blends Containing High Molecular-Weight Hydrophobic Blocks. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2100893.	3.9	3
4	Semiautomated synthesis of sequence-defined polymers for information storage. <i>Science Advances</i> , 2022, 8, eabl8614.	10.3	27
5	Self-Assembly of Stereoblock Copolymers Driven by the Chain Folding of Discrete Poly(<i>d</i> -lactic acid- <i>b</i> - <i>l</i> -lactic acid) via Intramolecular Stereocomplexation. <i>Macromolecules</i> , 2022, 55, 2768-2776.	4.8	14
6	Photo-crosslinked polymer cubosomes as a recyclable nanoreactor in organic solvents. <i>Polymer Chemistry</i> , 2021, 12, 2701-2711.	3.9	7
7	On-demand shape transformation of polymer vesicles <i>via</i> site-specific isomerization of hydrazone photoswitches in monodisperse hydrophobic oligomers. <i>Polymer Chemistry</i> , 2021, 12, 5027-5036.	3.9	3
8	Crystallization-Driven Self-Assembly of Block Copolymers Having Monodisperse Poly(lactic acid)s with Defined Stereochemical Sequences. <i>Macromolecules</i> , 2021, 54, 10487-10498.	4.8	25
9	Polymer Cubosomes: Infinite Cubic Mazes and Possibilities. <i>Accounts of Chemical Research</i> , 2020, 53, 620-631.	15.6	53
10	High-density information storage in an absolutely defined aperiodic sequence of monodisperse copolyester. <i>Nature Communications</i> , 2020, 11, 56.	12.8	64
11	Synthesis of cubic transition-metal networks from polymer cubosome templates. <i>Chemical Communications</i> , 2020, 56, 14059-14062.	4.1	11
12	Block Copolymers Composed of Main-Chain Cyclic Polymers: Morphology Transition and Covalent Stabilization of Self-Assembled Nanostructures via Intra- and Interchain Cyclization of Styrene-co-isoprene Blocks. <i>Macromolecules</i> , 2020, 53, 10725-10733.	4.8	2
13	Iterative Convergent Synthesis of Large Cyclic Polymers and Block Copolymers with Discrete Molecular Weights. <i>Journal of the American Chemical Society</i> , 2020, 142, 14028-14032.	13.7	45
14	Mechanochemical Degradation of Brush Polymers: Kinetics of Ultrasound-Induced Backbone and Arm Scission. <i>Macromolecules</i> , 2020, 53, 1623-1628.	4.8	25
15	Morphological transition of nanostructures of self-assembled block copolymers by stimuli-induced conformational changes in the hydrophilic block. <i>Journal of Polymer Science</i> , 2020, 58, 1153-1162.	3.8	3
16	Self-Assembly of Bottlebrush Block Copolymers into Triply Periodic Nanostructures in a Dilute Solution. <i>Macromolecules</i> , 2020, 53, 711-718.	4.8	43
17	Polymersome-Based Modular Nanoreactors with Size-Selective Transmembrane Permeability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 23502-23513.	8.0	21
18	The effect of steric repulsion between highly branched hydrophilic blocks on inverse cubic mesophase formation in block copolymers. <i>RSC Advances</i> , 2019, 9, 25423-25428.	3.6	8

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19	Polymer cubosomes of block copolymers having cross-linkable soft hydrophobic blocks. <i>Polymer Chemistry</i> , 2019, 10, 3778-3785.	3.9	9
20	Cross-Linked Polymersomes with Reversible Deformability and Oxygen Transportability. <i>Biomacromolecules</i> , 2019, 20, 2430-2439.	5.4	13
21	Effect of the molecular weight distribution of the hydrophobic block on the formation of inverse cubic mesophases of block copolymers with a discrete branched hydrophilic block. <i>Polymer Chemistry</i> , 2019, 10, 5805-5813.	3.9	12
22	Templated synthesis of cubic crystalline single networks having large open-space lattices by polymer cubosomes. <i>Nature Communications</i> , 2018, 9, 5327.	12.8	49
23	Mix-and-Match Assembly of Block Copolymer Blends in Solution. <i>Macromolecules</i> , 2017, 50, 3234-3243.	4.8	39
24	Covalent Stabilization of Inverse Bicontinuous Cubic Structures of Block Copolymer Bilayers by Photodimerization of Indene Pendant Groups of Polystyrene Hydrophobic Blocks. <i>Macromolecules</i> , 2017, 50, 223-234.	4.8	22
25	A Recombinant Secondary Antibody Mimic as a Target-specific Signal Amplifier and an Antibody Immobilizer in Immunoassays. <i>Scientific Reports</i> , 2016, 6, 24159.	3.3	11
26	Structural Requirements of Block Copolymers for Self-Assembly into Inverse Bicontinuous Cubic Mesophases in Solution. <i>Macromolecules</i> , 2016, 49, 4510-4519.	4.8	38
27	A Morphological Transition of Inverse Mesophases of a Branched-Linear Block Copolymer Guided by Using Cosolvents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10483-10487.	13.8	53
28	Doubly responsive polymersomes towards monosaccharides and temperature under physiologically relevant conditions. <i>Polymer Chemistry</i> , 2015, 6, 4080-4088.	3.9	11
29	Pillararenes and Other Cavitands: Aspects of Complex Thermodynamics. <i>Chinese Journal of Chemistry</i> , 2015, 33, 311-318.	4.9	13
30	Solution Self-Assembly of Block Copolymers Containing a Branched Hydrophilic Block into Inverse Bicontinuous Cubic Mesophases. <i>ACS Nano</i> , 2015, 9, 3084-3096.	14.6	55
31	Mesoporous monoliths of inverse bicontinuous cubic phases of block copolymer bilayers. <i>Nature Communications</i> , 2015, 6, 6392.	12.8	57
32	Colloidal inverse bicontinuous cubic membranes of block copolymers with tunable surface functional groups. <i>Nature Chemistry</i> , 2014, 6, 534-541.	13.6	129
33	Glucose-Responsive Disassembly of Polymersomes of Sequence-Specific Boroxole-Containing Block Copolymers under Physiologically Relevant Conditions. <i>ACS Macro Letters</i> , 2012, 1, 1194-1198.	4.8	90
34	Self-assembly of dendritic-linear block copolymers with fixed molecular weight and block ratio. <i>Chemical Communications</i> , 2012, 48, 3590.	4.1	30
35	Monosaccharide-Responsive Release of Insulin from Polymersomes of Polyboroxole Block Copolymers at Neutral pH. <i>Journal of the American Chemical Society</i> , 2012, 134, 4030-4033.	13.7	205
36	Smart nanocontainers and nanoreactors. <i>Nanoscale</i> , 2010, 2, 844.	5.6	194

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37	Polymersome Stomatocytes: Controlled Shape Transformation in Polymer Vesicles. Journal of the American Chemical Society, 2010, 132, 12522-12524.	13.7	199
38	A Polymersome Nanoreactor with Controllable Permeability Induced by Stimuli-Responsive Block Copolymers. Advanced Materials, 2009, 21, 2787-2791.	21.0	320
39	Synthesis of discrete bottlebrush polymers <i>via</i> the iterative convergent growth technique and post-functionalization. Polymer Chemistry, 0, , .	3.9	1