

# Mitsuru Akashi

## List of Publications by Year in descending order

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320  
papers

10,256  
citations

28190

55  
h-index

56606

83  
g-index

330  
all docs

330  
docs citations

330  
times ranked

9074  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Construction of Three-Dimensional Multilayered Tissues with Endothelial Tube Networks by the Cell Accumulation Technique. <i>Advanced Materials</i> , 2011, 23, 3506-3510.	11.1	241
2	Rapid Deswelling of Porous Poly(N-isopropylacrylamide) Hydrogels Prepared by Incorporation of Silica Particles. <i>Macromolecules</i> , 2002, 35, 10-12.	2.2	203
3	Targeting of Antigen to Dendritic Cells with Poly( $\beta$ -Glutamic Acid) Nanoparticles Induces Antigen-Specific Humoral and Cellular Immunity. <i>Journal of Immunology</i> , 2007, 178, 2979-2986.	0.4	200
4	Stepwise Stereocomplex Assembly of Stereoregular Poly(methyl methacrylate)s on a Substrate. <i>Journal of the American Chemical Society</i> , 2000, 122, 1891-1899.	6.6	187
5	Fabrication of Cellular Multilayers with Nanometer-Sized Extracellular Matrix Films. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 4689-4692.	7.2	185
6	Preparation and characterization of biodegradable nanoparticles based on poly( $\beta$ -glutamic acid) with l-phenylalanine as a protein carrier. <i>Journal of Controlled Release</i> , 2005, 108, 226-236.	4.8	178
7	Polymerization within a molecular-scale stereoregular template. <i>Nature</i> , 2004, 429, 52-55.	13.7	175
8	Fabrication of Temperature-Responsive Bending Hydrogels with a Nanostructured Gradient. <i>Advanced Materials</i> , 2008, 20, 2080-2083.	11.1	167
9	Protein direct delivery to dendritic cells using nanoparticles based on amphiphilic poly(amino acid) derivatives. <i>Biomaterials</i> , 2007, 28, 3427-3436.	5.7	161
10	Three-Dimensional Human Tissue Chips Fabricated by Rapid and Automatic Inkjet Cell Printing. <i>Advanced Healthcare Materials</i> , 2013, 2, 534-539.	3.9	156
11	Layer-by-Layer Assembly Through Weak Interactions and Their Biomedical Applications. <i>Advanced Materials</i> , 2012, 24, 454-474.	11.1	155
12	In-Situ Formation of Silver Nanoparticles on Poly(N-isopropylacrylamide)-Coated Polystyrene Microspheres. <i>Advanced Materials</i> , 1998, 10, 1122-1126.	11.1	142
13	Biodegradable Nanoparticles as Vaccine Adjuvants and Delivery Systems: Regulation of Immune Responses by Nanoparticle-Based Vaccine. <i>Advances in Polymer Science</i> , 2011, , 31-64.	0.4	134
14	Enzymatic Hydrolysis of a Layer-by-Layer Assembly Prepared from Chitosan and Dextran Sulfate. <i>Macromolecules</i> , 2002, 35, 8656-8658.	2.2	113
15	Alternating Bioactivity of Polymeric Layer-by-Layer Assemblies: Anti- vs Procoagulation of Human Blood on Chitosan and Dextran Sulfate Layers. <i>Biomacromolecules</i> , 2000, 1, 306-309.	2.6	110
16	Electrostatic Adsorption of Polystyrene Nanospheres onto the Surface of an Ultrathin Polymer Film Prepared by Using an Alternate Adsorption Technique. <i>Langmuir</i> , 1998, 14, 4088-4094.	1.6	107
17	Preparation of nanoparticles by the self-organization of polymers consisting of hydrophobic and hydrophilic segments: Potential applications. <i>Polymer</i> , 2007, 48, 6729-6747.	1.8	107
18	Development of vascularized iPSC derived 3D-cardiomyocyte tissues by filtration Layer-by-Layer technique and their application for pharmaceutical assays. <i>Acta Biomaterialia</i> , 2016, 33, 110-121.	4.1	106

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19	Polymyxin B binds to anandamide and inhibits its cytotoxic effect. FEBS Letters, 2000, 470, 151-155.	1.3	102
20	Preparation and characterization of apatite deposited on silk fabric using an alternate soaking process. , 2000, 50, 344-352.		100
21	Apatite formation on/in hydrogel matrices using an alternate soaking process: II. Effect of swelling ratios of poly(vinyl alcohol) hydrogel matrices on apatite formation. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 331-339.	1.9	99
22	Control of Cell Surface and Functions by Layer-by-Layer Nanofilms. Langmuir, 2010, 26, 5670-5678.	1.6	94
23	Development of <i>In Vitro</i> Drug-Induced Cardiotoxicity Assay by Using Three-Dimensional Cardiac Tissues Derived from Human Induced Pluripotent Stem Cells. Tissue Engineering - Part C: Methods, 2018, 24, 56-67.	1.1	88
24	Synthesis and functionalities of poly(N-vinylalkylamide). V. Control of a lower critical solution temperature of poly(N-vinylalkylamide). , 1997, 35, 3087-3094.		87
25	Stably-dispersed and Surface-functional Bionanoparticles Prepared by Self-assembling Amphipathic Polymers of Hydrophilic Poly( $\hat{1}^3$ -glutamic acid) Bearing Hydrophobic Amino Acids. Chemistry Letters, 2004, 33, 398-399.	0.7	87
26	Three-dimensional cell culture technique and pathophysiology. Advanced Drug Delivery Reviews, 2014, 74, 95-103.	6.6	86
27	Synthesis and polymerization of a styryl terminated oligovinylpyrrolidone macromonomer. Angewandte Makromolekulare Chemie, 1985, 132, 81-89.	0.3	85
28	Graft copolymers having hydrophobic backbone and hydrophilic branches. XI. Preparation and thermosensitive properties of polystyrene microspheres having poly (N-isopropylacrylamide) branches on their surfaces. Journal of Polymer Science Part A, 1996, 34, 2213-2220.	2.5	85
29	Poly( $\hat{1}^3$ -glutamic acid) nanoparticles as an efficient antigen delivery and adjuvant system: Potential for an AIDS vaccine. Journal of Medical Virology, 2008, 80, 11-19.	2.5	85
30	Effects of angiogenic factors and 3D-microenvironments on vascularization within sandwich cultures. Biomaterials, 2014, 35, 4739-4748.	5.7	84
31	Poly( $\hat{1}^3$ -glutamic acid) nano-particles combined with mucosal influenza virus hemagglutinin vaccine protects against influenza virus infection in mice. Vaccine, 2009, 27, 5896-5905.	1.7	82
32	Development of amphiphilic $\hat{1}^3$ -PGA-nanoparticle based tumor vaccine: Potential of the nanoparticulate cytosolic protein delivery carrier. Biochemical and Biophysical Research Communications, 2008, 366, 408-413.	1.0	80
33	Nanoparticles built by self-assembly of amphiphilic $\hat{1}^3$ -PGA can deliver antigens to antigen-presenting cells with high efficiency: A new tumor-vaccine carrier for eliciting effector T cells. Vaccine, 2008, 26, 1303-1313.	1.7	79
34	Effectiveness of Nanometer-Sized Extracellular Matrix Layer-by-Layer Assembled Films for a Cell Membrane Coating Protecting Cells from Physical Stress. Langmuir, 2013, 29, 7362-7368.	1.6	79
35	Treating the placenta to prevent adverse effects of gestational hypoxia on fetal brain development. Scientific Reports, 2017, 7, 9079.	1.6	76
36	Synthesis and functionalities of poly (N-vinylalkylamide). IV. Synthesis and free radical polymerization of N-vinylisobutyramide and thermosensitive properties of the polymer. Journal of Polymer Science Part A, 1997, 35, 1763-1768.	2.5	75

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37	Capture of HIV-1 gp120 and Virions by Lectin-Immobilized Polystyrene Nanospheres. <i>Bioconjugate Chemistry</i> , 1998, 9, 50-53.	1.8	74
38	Photo-Cross-Linking and Cleavage Induced Reversible Size Change of Bio-Based Nanoparticles. <i>Macromolecules</i> , 2008, 41, 8167-8172.	2.2	73
39	Construction of three-dimensional vascularized functional human liver tissue using a layer-by-layer cell coating technique. <i>Biomaterials</i> , 2017, 133, 263-274.	5.7	73
40	Stepwise Assembly of Ultrathin Poly(vinyl alcohol) Films on a Gold Substrate by Repetitive Adsorption/Drying Processes. <i>Langmuir</i> , 1999, 15, 5363-5368.	1.6	72
41	Thermotropic Liquid-Crystalline Polymer Derived from Natural Cinnamoyl Biomonomers. <i>Macromolecular Rapid Communications</i> , 2004, 25, 673-677.	2.0	72
42	Graft copolymers having hydrophobic backbone and hydrophilic branches. IV. A copolymerization study of water-soluble oligovinylpyrrolidone macromonomers. <i>Journal of Polymer Science Part A</i> , 1989, 27, 3521-3530.	2.5	70
43	Synthesis and Characterization of Poly(N-isopropylacrylamide)-Coated Polystyrene Microspheres with Silver Nanoparticles on Their Surfaces. <i>Langmuir</i> , 1999, 15, 7998-8006.	1.6	70
44	Development of full-thickness human skin equivalents with blood and lymph-like capillary networks by cell coating technology. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3386-3396.	2.1	70
45	Synthesis of poly(N-vinylisobutyramide) from poly(N-vinylacetamide) and its thermosensitive property. <i>Journal of Polymer Science Part A</i> , 1996, 34, 301-303.	2.5	67
46	Apatite formation on/in hydrogel matrices using an alternate soaking process (III) : Effect of physico-chemical factors on apatite formation on/in poly(vinyl alcohol) hydrogel matrices. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 795-804.	1.9	66
47	Ferulic acid-coupled chitosan: Thermal stability and utilization as an antioxidant for biodegradable active packaging film. <i>Carbohydrate Polymers</i> , 2015, 115, 744-751.	5.1	66
48	Thermoresponsive properties of porous poly(N-isopropylacrylamide) hydrogels prepared in the presence of nanosized silica particles and subsequent acid treatment. <i>Journal of Polymer Science Part A</i> , 2002, 40, 4228-4235.	2.5	63
49	Synthesis and characterization of novel biodegradable polymers composed of hydroxycinnamic acid and D,L-lactic acid. <i>Journal of Applied Polymer Science</i> , 2001, 82, 2357-2364.	1.3	62
50	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1992, 193, 2843-2860.	1.1	61
51	Transmission Electron Microscopic Study of Cross-Sectional Morphologies of Core-Shell Corona Polymeric Nanospheres. <i>Macromolecules</i> , 2000, 33, 1759-1764.	2.2	59
52	In vitro Enzymatic Degradation of Nanoparticles Prepared from Hydrophobically-Modified Poly(L-glutamic acid). <i>Macromolecular Bioscience</i> , 2005, 5, 598-602.	2.1	58
53	Amphiphilic Poly(Amino Acid) Nanoparticles Induce Size-Dependent Dendritic Cell Maturation. <i>Advanced Functional Materials</i> , 2010, 20, 3925-3931.	7.8	58
54	Layer-by-layer cell coating technique using extracellular matrix facilitates rapid fabrication and function of pancreatic $\beta$ -cell spheroids. <i>Biomaterials</i> , 2018, 160, 82-91.	5.7	58

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55	Fabrication of Biobased Polyelectrolyte Capsules and Their Application for Glucose-Triggered Insulin Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 13688-13697.	4.0	57
56	Synthesis and Thermosensitive Properties of Poly[(N-vinylamide)-co-(vinyl acetate)]s and Their Hydrogels. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1027-1033.	1.1	56
57	A novel strategy to engineer pre-vascularized 3-dimensional skin substitutes to achieve efficient, functional engraftment. <i>Scientific Reports</i> , 2019, 9, 7797.	1.6	54
58	Synthesis and Lectin Recognition of Polystyrene Core~Glycopolymer Corona Nanospheres. <i>Biomacromolecules</i> , 2001, 2, 469-475.	2.6	53
59	Recognition of Stereoregular Polymers by Using Structurally Regulated Ultrathin Polymer Films. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1118-1121.	7.2	53
60	Modulation of innate and adaptive immunity by biodegradable nanoparticles. <i>Immunology Letters</i> , 2009, 125, 46-52.	1.1	53
61	Tunable drug-loading capability of chitosan hydrogels with varied network architectures. <i>Acta Biomaterialia</i> , 2014, 10, 821-830.	4.1	53
62	A Simple Structural Model for the Polymer Microsphere Stabilized by the Poly(ethylene oxide) Macromonomers Grafted on Its Surface. <i>Macromolecules</i> , 1997, 30, 2187-2189.	2.2	52
63	Graft copolymers having hydrophobic backbone and hydrophilic branches. XXIII. Particle size control of poly(ethylene glycol)-coated polystyrene nanoparticles prepared by macromonomer method. <i>Journal of Polymer Science Part A</i> , 1999, 37, 2155-2166.	2.5	52
64	Multilayered Blood Capillary Analogs in Biodegradable Hydrogels for In Vitro Drug Permeability Assays. <i>Advanced Functional Materials</i> , 2013, 23, 1736-1742.	7.8	51
65	Synthesis and Anticoagulant Activity of Sulfated Glucoside-Bearing Polymer. <i>Bioconjugate Chemistry</i> , 1996, 7, 393-395.	1.8	50
66	Controlled hydrophobic/hydrophilic chitosan: colloidal phenomena and nanosphere formation. <i>Colloid and Polymer Science</i> , 2004, 282, 337-342.	1.0	50
67	Rapid deswelling of semi-IPNs with nanosized tracts in response to pH and temperature. <i>Journal of Controlled Release</i> , 2006, 110, 387-394.	4.8	50
68	A novel synthetic procedure of vinylacetamide and its free radical polymerization. <i>Journal of Polymer Science Part A</i> , 1990, 28, 3487-3497.	2.5	49
69	Synthesis and functionalities of poly(N-vinylalkylamide). XIV. Polyvinylamine produced by hydrolysis of poly(N-vinylformamide) and its functionalization. <i>Journal of Applied Polymer Science</i> , 2003, 89, 1277-1283.	1.3	49
70	EphA2-derived peptide vaccine with amphiphilic poly(L-glutamic acid) nanoparticles elicits an anti-tumor effect against mouse liver tumor. <i>Cancer Immunology, Immunotherapy</i> , 2010, 59, 759-767.	2.0	49
71	Hydrogen-Bonded Multilayer Films Based on Poly(N-vinylamide) Derivatives and Tannic Acid. <i>Langmuir</i> , 2015, 31, 6863-6869.	1.6	49
72	Graft copolymers having hydrophobic backbone and hydrophilic branches. X. Preparation and properties of water-dispersible polyanionic microspheres having poly(methacrylic acid) branches on their surfaces. <i>Journal of Polymer Science Part A</i> , 1995, 33, 1219-1225.	2.5	48

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73	Vascularized cardiac tissue construction with orientation by layer-by-layer method and 3D printer. <i>Scientific Reports</i> , 2020, 10, 5484.	1.6	48
74	Concanavalin A-immobilized polystyrene nanospheres capture HIV-1 virions and gp120: Potential approach towards prevention of viral transmission. , 1998, 56, 327-331.		46
75	Hydrophobic Chain Conjugation at Hydroxyl Group onto $\hat{I}^3$ -Ray Irradiated Chitosan. <i>Biomacromolecules</i> , 2001, 2, 1038-1044.	2.6	45
76	Precise Synthesis of ABA Triblock Copolymers Comprised of Poly(ethylene oxide) and Poly( $\hat{I}^2$ -benzyl-l-aspartate): $\hat{A}$ A Hierarchical Structure Inducing Excellent Elasticity. <i>Macromolecules</i> , 2004, 37, 1370-1377.	2.2	44
77	Fabrication of Surface-Modified Hydrogels with Polyion Complex for Controlled Release. <i>Chemistry of Materials</i> , 2010, 22, 2923-2929.	3.2	44
78	In $\hat{A}$ vitro 3D blood/lymph-vascularized human stromal tissues for preclinical assays of cancer metastasis. <i>Biomaterials</i> , 2018, 179, 144-155.	5.7	44
79	pH-dependent and self-healing properties of mussel modified poly(vinyl alcohol) hydrogels in a metal-free environment. <i>RSC Advances</i> , 2015, 5, 82252-82258.	1.7	42
80	A Layer-by-Layer Single-Cell Coating Technique To Produce Injectable Beating Mini Heart Tissues via Microfluidics. <i>Biomacromolecules</i> , 2019, 20, 3746-3754.	2.6	42
81	Ultrarapid Molecular Release from Poly(N-isopropylacrylamide) Hydrogels Perforated Using Silica Nanoparticle Networks. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 566-574.	1.1	40
82	Template Polymerization Using Artificial Double Strands. <i>Macromolecules</i> , 2005, 38, 6759-6761.	2.2	40
83	Preparation of Size Tunable Amphiphilic Poly(amino acid) Nanoparticles. <i>Macromolecular Bioscience</i> , 2009, 9, 842-848.	2.1	40
84	Morphological and Histological Evaluations of 3D-Layered Blood Vessel Constructs Prepared by Hierarchical Cell Manipulation. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012, 23, 63-79.	1.9	40
85	Engineering fibrotic tissue in pancreatic cancer: A novel three-dimensional model to investigate nanoparticle delivery. <i>Biochemical and Biophysical Research Communications</i> , 2012, 419, 32-37.	1.0	40
86	Thermally Stabilized Poly(lactide)s Stereocomplex with Bio-Based Aromatic Groups at Both Initiating and Terminating Chain Ends. <i>Macromolecules</i> , 2013, 46, 5150-5156.	2.2	40
87	Novel nonionic and cationic hydrogels prepared from N-vinylacetamide. <i>Journal of Polymer Science Part A</i> , 1993, 31, 1153-1160.	2.5	39
88	A stereocomplex of poly(lactide)s with chain end modification: simultaneous resistances to melting and thermal decomposition. <i>Chemical Communications</i> , 2012, 48, 8478.	2.2	39
89	A study on hydroxyapatite formation on/in the hydroxyl groups-bearing nonionic hydrogels. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 19-32.	1.9	38
90	Quantitative 3D Analysis of Nitric Oxide Diffusion in a 3D Artery Model Using Sensor Particles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 7557-7561.	7.2	38

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91	Development of Endothelial Cell Networks in 3D Tissues by Combination of Melt Electrospinning Writing with Cell Accumulation Technology. <i>Small</i> , 2018, 14, 1701521.	5.2	38
92	Ca-adsorption and apatite deposition on silk fabrics modified with phosphate polymer chains. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 787-793.	1.9	37
93	Synthesis and functionalities of poly(N-vinylalkylamide). XII. Synthesis and thermosensitive property of poly(vinylamine) copolymer prepared from poly(N-vinylformamide-co-N-vinylisobutyramide). <i>Journal of Polymer Science Part A</i> , 2000, 38, 3674-3681.	2.5	37
94	Alkaline Hydrolysis of Enantiomeric Poly(lactide)s Stereocomplex Deposited on Solid Substrates. <i>Macromolecules</i> , 2003, 36, 1762-1765.	2.2	37
95	Graft copolymers having hydrophobic backbone and hydrophilic branches. XVIII. Poly(styrene) nanospheres with novel thermosensitive poly(N-vinylisobutyramide)s on their surfaces. , 1998, 36, 2581-2587.		36
96	Development of Photoreactive Degradable Branched Polyesters with High Thermal and Mechanical Properties. <i>Biomacromolecules</i> , 2009, 10, 766-772.	2.6	36
97	Poly(vinylalkanamide)s as Kinetic Hydrate Inhibitors: Comparison of Poly(N-vinylisobutyramide) with Poly(N-isopropylacrylamide). <i>Energy &amp; Fuels</i> , 2013, 27, 183-188.	2.5	36
98	Construction of Three-Dimensional Dermo Epidermal Skin Equivalents Using Cell Coating Technology and Their Utilization as Alternative Skin for Permeation Studies and Skin Irritation Tests. <i>Tissue Engineering - Part A</i> , 2017, 23, 481-490.	1.6	36
99	Chitosan-Hydroxybenzotriazole Aqueous Solution: A Novel Water-Based System for Chitosan Functionalization. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1039-1046.	2.0	35
100	Composite Materials by Building Block Chemistry Using Weak Interaction. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 1903-1921.	2.0	35
101	In vitro placenta barrier model using primary human trophoblasts, underlying connective tissue and vascular endothelium. <i>Biomaterials</i> , 2019, 192, 140-148.	5.7	33
102	Preparation of a novel functional hydrogel consisting of sulfated glucoside-bearing polymer: Activation of basic fibroblast growth factor. , 1998, 41, 386-391.		32
103	Three-dimensional constructs induce high cellular activity: Structural stability and the specific production of proteins and cytokines. <i>Biochemical and Biophysical Research Communications</i> , 2010, 402, 153-157.	1.0	32
104	Nanometer-sized extracellular matrix coating on polymer-based scaffold for tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 94-103.	2.1	32
105	Specific thermosensitive volume change of biopolymer gels derived from propylated poly( $\gamma$ -glutamate)s. <i>Journal of Polymer Science Part A</i> , 2004, 42, 4492-4501.	2.5	31
106	Ultrastructure of blood and lymphatic vascular networks in three-dimensional cultured tissues fabricated by extracellular matrix nanofilm-based cell accumulation technique. <i>Microscopy (Oxford)</i> , 2017, 2017, 107-110.	0.57	30
107	Graft copolymers having hydrophobic backbone and hydrophilic branches. XXX. Preparation of polystyrene-core nanospheres having a poly(2-methacryloyloxyethyl phosphorylcholine) corona. <i>Journal of Polymer Science Part A</i> , 2000, 38, 3052-3058.	2.5	29
108	Survival and structural evaluations of three-dimensional tissues fabricated by the hierarchical cell manipulation technique. <i>Acta Biomaterialia</i> , 2013, 9, 4698-4706.	4.1	29

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109	Secretions from placenta, after hypoxia/reoxygenation, can damage developing neurones of brain under experimental conditions. <i>Experimental Neurology</i> , 2014, 261, 386-395.	2.0	29
110	Title is missing!. <i>Angewandte Makromolekulare Chemie</i> , 1993, 206, 69-75.	0.3	27
111	Novel functional polymers: Poly(dimethylsiloxane)-polyamide multiblock copolymer. III. Synthesis and surface properties of disiloxane-aromatic polyamide multiblock copolymer. <i>Journal of Applied Polymer Science</i> , 1996, 59, 1059-1065.	1.3	27
112	Surface modification of synthetic fiber nonwoven fabrics with poly(acrylic acid) chains prepared by corona discharge induced grafting. <i>Angewandte Makromolekulare Chemie</i> , 1999, 266, 56-62.	0.3	27
113	Graft copolymers having hydrophobic backbone and hydrophilic branches. xvi. Polystyrene microspheres with poly(N-isopropylacrylamide) branches on their surfaces: size control factors and thermosensitive behavior. <i>Polymers for Advanced Technologies</i> , 1999, 10, 120-126.	1.6	27
114	Self-assembled Soft Nanofibrils of Amphipathic Polypeptides and Their Morphological Transformation. <i>Chemistry of Materials</i> , 2005, 17, 2484-2486.	3.2	27
115	Stereoregular Polymerization within Template Nanospaces. <i>Polymer Journal</i> , 2006, 38, 311-328.	1.3	27
116	Construction and myogenic differentiation of 3D myoblast tissues fabricated by fibronectin-gelatin nanofilm coating. <i>Biochemical and Biophysical Research Communications</i> , 2016, 474, 515-521.	1.0	27
117	Polymer drugs and polymeric drugs. II. Synthesis of water dispersible microspheres having 5-fluorouracil and theophylline using a water soluble macromonomer. <i>Journal of Polymer Science, Part C: Polymer Letters</i> , 1989, 27, 377-380.	0.7	26
118	Synthesis and functionalities of poly(N-vinylalkylamide). VI. A novel thermosensitive hydrogel crosslinked poly(N-vinylisobutyramide). <i>Journal of Polymer Science Part A</i> , 1997, 35, 3377-3384.	2.5	26
119	Improved alternate deposition of biodegradable naturally occurring polymers onto a quartz crystal microbalance. <i>Journal of Polymer Science Part A</i> , 1999, 37, 801-804.	2.5	26
120	Engraftment and morphological development of vascularized human iPS cell-derived 3D-cardiomyocyte tissue after xenotransplantation. <i>Scientific Reports</i> , 2017, 7, 13708.	1.6	26
121	Unusual Size Formation of Polymeric Nanospheres Synthesized by Free Radical Polymerization in Ethanol-Water Mixed Solvents. <i>Langmuir</i> , 1998, 14, 1278-1280.	1.6	25
122	Nanosphere formation in copolymerization of methyl methacrylate with poly(ethylene glycol) macromonomers. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1811-1817.	2.5	25
123	Thermosensitive Behavior of Poly(N-isopropylacrylamide) Grafted Polystyrene Nanoparticles. <i>Polymer Journal</i> , 2003, 35, 901-910.	1.3	25
124	One-Step Formation of Morphologically Controlled Nanoparticles with Projection Coronas. <i>Macromolecules</i> , 2004, 37, 501-506.	2.2	25
125	Uptake of biodegradable poly(L-glutamic acid) nanoparticles and antigen presentation by dendritic cells in vivo. <i>Results in Immunology</i> , 2013, 3, 1-9.	2.2	25
126	Effect of Hydrophobic Side Chains in the Induction of Immune Responses by Nanoparticle Adjuvants Consisting of Amphiphilic Poly(L-glutamic acid). <i>Bioconjugate Chemistry</i> , 2015, 26, 890-898.	1.8	25



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127	Fabrication of Orientation-Controlled 3D Tissues Using a Layer-by-Layer Technique and 3D Printed a Thermoresponsive Gel Frame. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 357-366.	1.1	25
128	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1977, 178, 353-364.	1.1	24
129	A novel biomaterial: Poly(dimethylsiloxane)-polyamide multiblock copolymer I. Synthesis and evaluation of blood compatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1994, 5, 89-98.	1.9	24
130	Construction of three-dimensional liver tissue models by cell accumulation technique and maintaining their metabolic functions for long-term culture without medium change. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 1554-1564.	2.1	24
131	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1977, 178, 1211-1214.	1.1	23
132	Synthesis of polystyrene nanospheres having lactose-conjugated hydrophilic polymers on their surfaces and carbohydrate recognition by proteins. <i>Journal of Biomaterials Science, Polymer Edition</i> , 1999, 10, 391-401.	1.9	23
133	Efficient Removal and Recovery of Perfluorinated Compounds from Water by Surface-tethered $\beta$ -Cyclodextrins on Polystyrene Particles. <i>Chemistry Letters</i> , 2013, 42, 392-394.	0.7	23
134	Preparation of glucose responsive polyelectrolyte capsules with shell crosslinking via the layer-by-layer technique and sustained release of insulin. <i>Polymer Chemistry</i> , 2016, 7, 6779-6788.	1.9	23
135	Three-dimensional bioprinting human cardiac tissue chips of using a painting needle method. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3136-3142.	1.7	23
136	Construction of Vascularized Oral Mucosa Equivalents Using a Layer-by-Layer Cell Coating Technology. <i>Tissue Engineering - Part C: Methods</i> , 2019, 25, 262-275.	1.1	23
137	Rapid and controlled deswelling of porous poly(N-isopropylacrylamide) hydrogels prepared by the templating of interpenetrated nanoporous silica particles. <i>Journal of Polymer Science Part A</i> , 2002, 40, 3542-3547.	2.5	22
138	Cell Adhesion and Proliferation on Poly(N-vinylacetamide) Hydrogels and Double Network Approaches for Changing Cellular Affinities. <i>Biomacromolecules</i> , 2008, 9, 426-430.	2.6	22
139	Structural Analysis of Unimer Nanoparticles Composed of Hydrophobized Poly(amino acid)s. <i>Macromolecules</i> , 2013, 46, 6187-6194.	2.2	22
140	Novel functional polymers: Poly(dimethylsiloxane)-polyamide multiblock copolymer. IV. Gas permeability and thermomechanical properties of aramid-silicone resins. <i>Journal of Applied Polymer Science</i> , 1996, 59, 1067-1071.	1.3	21
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