Mitsuru Akashi

List of Publications by Citations

322 papers	8,733 citations	51 h-index	76 g-index
330 ext. papers	9,397 ext. citations	5.1 avg, IF	6.09 L-index

#	Paper	IF	Citations
322	Rapid construction of three-dimensional multilayered tissues with endothelial tube networks by the cell-accumulation technique. *Advanced Materials*, **2011**, 23, 3506-10	24	203
321	Targeting of antigen to dendritic cells with poly(gamma-glutamic acid) nanoparticles induces antigen-specific humoral and cellular immunity. *Journal of Immunology*, **2007**, 178, 2979-86	5.3	193
320	Rapid Deswelling of Porous Poly(N-isopropylacrylamide) Hydrogels Prepared by Incorporation of Silica Particles. *Macromolecules*, **2002**, 35, 10-12	5.5	185
319	Stepwise Stereocomplex Assembly of Stereoregular Poly(methyl methacrylate)s on a Substrate. *Journal of the American Chemical Society*, **2000**, 122, 1891-1899	16.4	179
318	Fabrication of cellular multilayers with nanometer-sized extracellular matrix films. *Angewandte Chemie - International Edition*, **2007**, 46, 4689-92	16.4	170
317	Preparation and characterization of biodegradable nanoparticles based on poly(gamma-glutamic acid) with l-phenylalanine as a protein carrier. *Journal of Controlled Release*, **2005**, 108, 226-36	11.7	164
316	Protein direct delivery to dendritic cells using nanoparticles based on amphiphilic poly(amino acid) derivatives. *Biomaterials*, **2007**, 28, 3427-36	15.6	152
315	Polymerization within a molecular-scale stereoregular template. *Nature*, **2004**, 429, 52-5	50.4	151
314	Fabrication of Temperature-Responsive Bending Hydrogels with a Nanostructured Gradient. *Advanced Materials*, **2008**, 20, 2080-2083	24	141
313	Layer-by-layer assembly through weak interactions and their biomedical applications. *Advanced Materials*, **2012**, 24, 454-74	24	140
312	Three-dimensional human tissue chips fabricated by rapid and automatic inkjet cell printing. *Advanced Healthcare Materials*, **2013**, 2, 534-9	10.1	133
311	In-Situ Formation of Silver Nanoparticles on Poly(N-isopropylacrylamide)-Coated Polystyrene Microspheres. *Advanced Materials*, **1998**, 10, 1122-1126	24	126
310	Enzymatic Hydrolysis of a Layer-by-Layer Assembly Prepared from Chitosan and Dextran Sulfate. *Macromolecules*, **2002**, 35, 8656-8658	5.5	111
309	Biodegradable Nanoparticles as Vaccine Adjuvants and Delivery Systems: Regulation of Immune Responses by Nanoparticle-Based Vaccine. *Advances in Polymer Science*, **2011**, 31-64	1.3	107
308	Alternating bioactivity of polymeric layer-by-layer assemblies: anti- vs procoagulation of human blood on chitosan and dextran sulfate layers. *Biomacromolecules*, **2000**, 1, 306-9	6.9	106
307	Preparation of nanoparticles by the self-organization of polymers consisting of hydrophobic and hydrophilic segments: Potential applications. *Polymer*, **2007**, 48, 6729-6747	3.9	98
306	Electrostatic Adsorption of Polystyrene Nanospheres onto the Surface of an Ultrathin Polymer Film Prepared by Using an Alternate Adsorption Technique. *Langmuir*, **1998**, 14, 4088-4094	4	95

305	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, 331-9	3.5	93
304	Development of vascularized iPSC derived 3D-cardiomyocyte tissues by filtration Layer-by-Layer technique and their application for pharmaceutical assays. *Acta Biomaterialia*, **2016**, 33, 110-21	10.8	90
303	Preparation and characterization of apatite deposited on silk fabric using an alternate soaking process. *Journal of Biomedical Materials Research Part B*, **2000**, 50, 344-52		89
302	Control of cell surface and functions by layer-by-layer nanofilms. *Langmuir*, **2010**, 26, 5670-8	4	86
301	Stably-dispersed and Surface-functional Bionanoparticles Prepared by Self-assembling Amphipathic Polymers of Hydrophilic Poly(□glutamic acid) Bearing Hydrophobic Amino Acids. *Chemistry Letters*, **2004**, 33, 398-399	1.7	83
300	Polymyxin B binds to anandamide and inhibits its cytotoxic effect. *FEBS Letters*, **2000**, 470, 151-5	3.8	81
299	Poly(gamma-glutamic acid) nanoparticles as an efficient antigen delivery and adjuvant system: potential for an AIDS vaccine. *Journal of Medical Virology*, **2008**, 80, 11-9	19.7	80
298	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	77
297	Effects of angiogenic factors and 3D-microenvironments on vascularization within sandwich cultures. *Biomaterials*, **2014**, 35, 4739-48	15.6	74
296	Three-dimensional cell culture technique and pathophysiology. *Advanced Drug Delivery Reviews*, **2014**, 74, 95-103	18.5	73
295	Synthesis and functionalities of poly(N-vinylalkylamide). V. Control of a lower critical solution temperature of poly(N-vinylalkylamide) **1997**, 35, 3087-3094		72
294	Nanoparticles built by self-assembly of amphiphilic gamma-PGA can deliver antigens to antigen-presenting cells with high efficiency: a new tumor-vaccine carrier for eliciting effector T cells. *Vaccine*, **2008**, 26, 1303-13	4.1	70
293	Synthesis and polymerization of a styryl terminated oligovinylpyrrolidone macromonomer. *Angewandte Makromolekulare Chemie*, **1985**, 132, 81-89		70
292	Poly(gamma-glutamic acid) nano-particles combined with mucosal influenza virus hemagglutinin vaccine protects against influenza virus infection in mice. *Vaccine*, **2009**, 27, 5896-905	4.1	69
291	Stepwise Assembly of Ultrathin Poly(vinyl alcohol) Films on a Gold Substrate by Repetitive Adsorption/Drying Processes. *Langmuir*, **1999**, 15, 5363-5368	4	68
290	Photo-Cross-Linking and Cleavage Induced Reversible Size Change of Bio-Based Nanoparticles. *Macromolecules*, **2008**, 41, 8167-8172	5.5	66
289	Development of amphiphilic gamma-PGA-nanoparticle based tumor vaccine: potential of the nanoparticulate cytosolic protein delivery carrier. *Biochemical and Biophysical Research Communications*, **2008**, 366, 408-13	3.4	66
288	Development of In Vitro 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	2.9	65

287	Capture of HIV-1 gp120 and virions by lectin-immobilized polystyrene nanospheres. *Bioconjugate Chemistry*, **1998**, 9, 50-3	6.3	65
286	Effectiveness of nanometer-sized extracellular matrix layer-by-layer assembled films for a cell membrane coating protecting cells from physical stress. *Langmuir*, **2013**, 29, 7362-8	4	64
285	Synthesis and Characterization of Poly(N-isopropylacrylamide)-Coated Polystyrene Microspheres with Silver Nanoparticles on Their Surfaces *Langmuir*, **1999**, 15, 7998-8006	4	64
284	Thermotropic Liquid-Crystalline Polymer Derived from Natural Cinnamoyl Biomonomers. *Macromolecular Rapid Communications*, **2004**, 25, 673-677	4.8	62
283	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	61
282	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. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 795-804	3.5	60
281	Synthesis of poly(N-vinylisobutyramide) from poly(N-vinylacetamide) and its thermosensitive property. *Journal of Polymer Science Part A*, **1996**, 34, 301-303	2.5	59
280	Graft copolymers having hydrophobic backbone and hydrophilic branches. IV. A copolymerization study of water-soluble oligovinylpyrrolidone macromonomers. *Journal of Polymer Science Part A*, **1989**, 27, 3521-3530	2.5	59
279	Treating the placenta to prevent adverse effects of gestational hypoxia on fetal brain development. *Scientific Reports*, **2017**, 7, 9079	4.9	57
278	Synthesis and characterization of novel biodegradable polymers composed of hydroxycinnamic acid and D,L-lactic acid. *Journal of Applied Polymer Science*, **2001**, 82, 2357-2364	2.9	57
277	Thermoresponsive properties of porous poly(N-isopropylacrylamide) hydrogels prepared in the presence of nanosized silica particles and subsequent acid treatment. *Journal of Polymer Science Part A*, **2002**, 40, 4228-4235	2.5	56
276	In vitro enzymatic degradation of nanoparticles prepared from hydrophobically-modified poly(gamma-glutamic acid). *Macromolecular Bioscience*, **2005**, 5, 598-602	5.5	54
275	Construction of three-dimensional vascularized functional human liver tissue using a layer-by-layer cell coating technique. *Biomaterials*, **2017**, 133, 263-274	15.6	53
274	Transmission Electron Microscopic Study of Cross-Sectional Morphologies of Core Corona Polymeric Nanospheres *Macromolecules*, **2000**, 33, 1759-1764	5.5	53
273	Recognition of stereoregular polymers by using structurally regulated ultrathin polymer films. *Angewandte Chemie - International Edition*, **2003**, 42, 1118-21	16.4	52
272	Modulation of innate and adaptive immunity by biodegradable nanoparticles. *Immunology Letters*, **2009**, 125, 46-52	4.1	51
271	Ferulic acid-coupled chitosan: thermal stability and utilization as an antioxidant for biodegradable active packaging film. *Carbohydrate Polymers*, **2015**, 115, 744-51	10.3	50
270	Synthesis and Thermosensitive Properties of Poly[(N-vinylamide)-co-(vinyl acetate)]s and Their Hydrogels. *Macromolecular Chemistry and Physics*, **2003**, 204, 1027-1033	2.6	50

269	Synthesis and lectin recognition of polystyrene core-glycopolymer corona nanospheres. *Biomacromolecules*, **2001**, 2, 469-75	6.9	50
268	On the kinetics of polymerization and copolymerization of poly(oxyethylene) macromonomers and styrene. *Die Makromolekulare Chemie*, **1992**, 193, 2843-2860		50
267	Fabrication of Biobased Polyelectrolyte Capsules and Their Application for Glucose-Triggered Insulin Delivery. *ACS Applied Materials & Interfaces*, **2016**, 8, 13688-97	9.5	48
266	A Simple Structural Model for the Polymer Microsphere Stabilized by the Poly(ethylene oxide) Macromonomers Grafted on Its Surface. *Macromolecules*, **1997**, 30, 2187-2189	5.5	48
265	Rapid deswelling of semi-IPNs with nanosized tracts in response to pH and temperature. *Journal of Controlled Release*, **2006**, 110, 387-394	11.7	48
264	Graft copolymers having hydrophobic backbone and hydrophilic branches. XXIII. Particle size control of poly(ethylene glycol)-coated polystyrene nanoparticles prepared by macromonomer method. *Journal of Polymer Science Part A*, **1999**, 37, 2155-2166	2.5	47
263	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. *Journal of Polymer Science Part A*, **1995**, 33, 1219-1225	2.5	47
262	Synthesis and anticoagulant activity of sulfated glucoside-bearing polymer. *Bioconjugate Chemistry*, **1996**, 7, 393-5	6.3	47
261	Development of full-thickness human skin equivalents with blood and lymph-like capillary networks by cell coating technology. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3386-96	5.4	46
260	Multilayered Blood Capillary Analogs in Biodegradable Hydrogels for In Vitro Drug Permeability Assays. *Advanced Functional Materials*, **2013**, 23, 1736-1742	15.6	46
259	Amphiphilic Poly(Amino Acid) Nanoparticles Induce Size-Dependent Dendritic Cell Maturation. *Advanced Functional Materials*, **2010**, 20, 3925-3931	15.6	46
258	Controlled hydrophobic/hydrophilic chitosan: colloidal phenomena and nanosphere formation. *Colloid and Polymer Science*, **2004**, 282, 337-342	2.4	46
257	Tunable drug-loading capability of chitosan hydrogels with varied network architectures. *Acta Biomaterialia*, **2014**, 10, 821-30	10.8	43
256	Synthesis and functionalities of poly(N-vinylalkylamide). XIV. Polyvinylamine produced by hydrolysis of poly(N-vinylformamide) and its functionalization. *Journal of Applied Polymer Science*, **2003**, 89, 1277-1283	2.0	43
255	Concanavalin A-immobilized polystyrene nanospheres capture HIV-1 virions and gp120: potential approach towards prevention of viral transmission. *Journal of Medical Virology*, **1998**, 56, 327-31	19.7	42
254	Hydrogen-Bonded Multilayer Films Based on Poly(N-vinylamide) Derivatives and Tannic Acid. *Langmuir*, **2015**, 31, 6863-9	4	41
253	A novel synthetic procedure of vinylacetamide and its free radical polymerization. *Journal of Polymer Science Part A*, **1990**, 28, 3487-3497	2.5	41
252	EphA2-derived peptide vaccine with amphiphilic poly(gamma-glutamic acid) nanoparticles elicits an anti-tumor effect against mouse liver tumor. *Cancer Immunology, Immunotherapy*, **2010**, 59, 759-67	7.4	40

251	Hydrophobic chain conjugation at hydroxyl group onto gamma-ray irradiated chitosan. *Biomacromolecules*, **2001**, 2, 1038-44	6.9	40
250	Layer-by-layer cell coating technique using extracellular matrix facilitates rapid fabrication and function of pancreatic β-cell spheroids. *Biomaterials*, **2018**, 160, 82-91	15.6	39
249	Ultrarapid Molecular Release from Poly(N-isopropylacrylamide) Hydrogels Perforated Using Silica Nanoparticle Networks. *Macromolecular Chemistry and Physics*, **2005**, 206, 566-574	2.6	39
248	Fabrication of Surface-Modified Hydrogels with Polyion Complex for Controlled Release. *Chemistry of Materials*, **2010**, 22, 2923-2929	9.6	38
247	Template Polymerization Using Artificial Double Strands. *Macromolecules*, **2005**, 38, 6759-6761	5.5	38
246	Precise Synthesis of ABA Triblock Copolymers Comprised of Poly(ethylene oxide) and Poly(β-benzyl-l-aspartate): A Hierarchical Structure Inducing Excellent Elasticity. *Macromolecules*, **2004**, 37, 1370-1377	5.5	38
245	Morphological and histological evaluations of 3D-layered blood vessel constructs prepared by hierarchical cell manipulation. *Journal of Biomaterials Science, Polymer Edition*, **2012**, 23, 63-79	3.5	37
244	Engineering fibrotic tissue in pancreatic cancer: a novel three-dimensional model to investigate nanoparticle delivery. *Biochemical and Biophysical Research Communications*, **2012**, 419, 32-7	3.4	37
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242	Thermally Stabilized Poly(lactide)s Stereocomplex with Bio-Based Aromatic Groups at Both Initiating and Terminating Chain Ends. *Macromolecules*, **2013**, 46, 5150-5156	5.5	36
241	Alkaline Hydrolysis of Enantiomeric Poly(lactide)s Stereocomplex Deposited on Solid Substrates. *Macromolecules*, **2003**, 36, 1762-1765	5.5	36
240	Quantitative 3D analysis of nitric oxide diffusion in a 3D artery model using sensor particles. *Angewandte Chemie - International Edition*, **2011**, 50, 7557-61	16.4	35
239	A stereocomplex of poly(lactide)s with chain end modification: simultaneous resistances to melting and thermal decomposition. *Chemical Communications*, **2012**, 48, 8478-80	5.8	34
238	Synthesis and functionalities of poly(N-vinylalkylamide). XII. Synthesis and thermosensitive property of poly(vinylamine) copolymer prepared from poly(N-vinylformamide-co-N-vinylisobutyramide). *Journal of Polymer Science Part A*, **2000**, 38, 3674-3681	2.5	34
237	Ca-adsorption and apatite deposition on silk fabrics modified with phosphate polymer chains. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 787-93	3.5	34
236	A study on hydroxyapatite formation on/in the hydroxyl groups-bearing nonionic hydrogels. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 19-32	3.5	34
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234	In vitro 3D blood/lymph-vascularized human stromal tissues for preclinical assays of cancer metastasis. *Biomaterials*, **2018**, 179, 144-155	15.6	33

233	A novel strategy to engineer pre-vascularized 3-dimensional skin substitutes to achieve efficient, functional engraftment. *Scientific Reports*, **2019**, 9, 7797	4.9	32
232	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		32
231	Chitosan-Hydroxybenzotriazole Aqueous Solution: A Novel Water-Based System for Chitosan Functionalization. *Macromolecular Rapid Communications*, **2006**, 27, 1039-1046	4.8	32
230	Novel nonionic and cationic hydrogels prepared from N-vinylacetamide. *Journal of Polymer Science Part A*, **1993**, 31, 1153-1160	2.5	32
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228	Three-dimensional constructs induce high cellular activity: Structural stability and the specific production of proteins and cytokines. *Biochemical and Biophysical Research Communications*, **2010**, 402, 153-7	3.4	31
227	Specific thermosensitive volume change of biopolymer gels derived from propylated poly(□glutamate)s. *Journal of Polymer Science Part A*, **2004**, 42, 4492-4501	2.5	30
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225	Development of photoreactive degradable branched polyesters with high thermal and mechanical properties. *Biomacromolecules*, **2009**, 10, 766-72	6.9	29
224	Nanometer-sized extracellular matrix coating on polymer-based scaffold for tissue engineering applications. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 94-103	5.4	29
223	Preparation of a novel functional hydrogel consisting of sulfated glucoside-bearing polymer: activation of basic fibroblast growth factor. *Journal of Biomedical Materials Research Part B*, **1998**, 41, 386-91		28
222	Survival and structural evaluations of three-dimensional tissues fabricated by the hierarchical cell manipulation technique. *Acta Biomaterialia*, **2013**, 9, 4698-706	10.8	26
221	Self-assembled Soft Nanofibrils of Amphipathic Polypeptides and Their Morphological Transformation. *Chemistry of Materials*, **2005**, 17, 2484-2486	9.6	26
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219	Graft copolymers having hydrophobic backbone and hydrophilic branches. XXX. Preparation of polystyrene-core nanospheres having a poly(2-methacryloyloxyethyl phosphorylcholine) corona. *Journal of Polymer Science Part A*, **2000**, 38, 3052-3058	2.5	26
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217	A Layer-by-Layer Single-Cell Coating Technique To Produce Injectable Beating Mini Heart Tissues via Microfluidics. *Biomacromolecules*, **2019**, 20, 3746-3754	6.9	25
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215	Thermosensitive Behavior of Poly(N-isopropylacrylamide) Grafted Polystyrene Nanoparticles. *Polymer Journal*, **2003**, 35, 901-910	2.7	25
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212	Polymer drugs and polymeric drugs. II. Synthesis of water dispersible microspheres having 5-fluorouracil and theophylline using a water soluble macromonomer. *Journal of Polymer Science, Part C: Polymer Letters*, **1989**, 27, 377-380		25
211	Surface modification of synthetic fiber nonwoven fabrics with poly(acrylic acid) chains prepared by corona discharge induced grafting. *Angewandte Makromolekulare Chemie*, **1999**, 266, 56-62		24
210	Graft copolymers having hydrophobic backbone and hydrophilic branches, 8. Effect of temperature on the dispersion copolymerization of poly(ethylene glycol) macromonomer with styrene. *Angewandte Makromolekulare Chemie*, **1993**, 206, 69-75		24
209	One-Step Formation of Morphologically Controlled Nanoparticles with Projection Coronas. *Macromolecules*, **2004**, 37, 501-506	5.5	23
208	Improved alternate deposition of biodegradable naturally occurring polymers onto a quartz crystal microbalance. *Journal of Polymer Science Part A*, **1999**, 37, 801-804	2.5	23
207	Vascularized cardiac tissue construction with orientation by layer-by-layer method and 3D printer. *Scientific Reports*, **2020**, 10, 5484	4.9	22
206	Secretions from placenta, after hypoxia/reoxygenation, can damage developing neurones of brain under experimental conditions. *Experimental Neurology*, **2014**, 261, 386-95	5.7	22
205	Synthesis and functionalities of poly(N-vinylalkylamide). VI. A novel thermosensitive hydrogel crosslinked poly(N-vinylisobutyramide). *Journal of Polymer Science Part A*, **1997**, 35, 3377-3384	2.5	22
204	Unusual Size Formation of Polymeric Nanospheres Synthesized by Free Radical Polymerization in Ethanol–Water Mixed Solvents. *Langmuir*, **1998**, 14, 1278-1280	4	22
203	Synthesis of polystyrene nanospheres having lactose-conjugated hydrophilic polymers on their surfaces and carbohydrate recognition by proteins. *Journal of Biomaterials Science, Polymer Edition*, **1999**, 10, 391-401	3.5	22
202	Three-dimensional multilayers of smooth muscle cells as a new experimental model for vascular elastic fiber formation studies. *Atherosclerosis*, **2014**, 233, 590-600	3.1	21
201	Structural Analysis of Unimer Nanoparticles Composed of Hydrophobized Poly(amino acid)s. *Macromolecules*, **2013**, 46, 6187-6194	5.5	21
200	Rapid and controlled deswelling of porous poly(N-isopropylacrylamide) hydrogels prepared by the templating of interpenetrated nanoporous silica particles. *Journal of Polymer Science Part A*, **2002**, 40, 3542-3547	2.5	21
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198	Fabrication of Orientation-Controlled 3D Tissues Using a Layer-by-Layer Technique and 3D Printed a Thermoresponsive Gel Frame. *Tissue Engineering - Part C: Methods*, **2017**, 23, 357-366	2.9	20

197	Effect of Hydrophobic Side Chains in the Induction of Immune Responses by Nanoparticle Adjuvants Consisting of Amphiphilic Poly(L-glutamic acid). *Bioconjugate Chemistry*, **2015**, 26, 890-8	6.3	20
196	Construction of three-dimensional liver tissue models by cell accumulation technique and maintaining their metabolic functions for long-term culture without medium change. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 1554-64	5.4	20
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192	In vitro placenta barrier model using primary human trophoblasts, underlying connective tissue and vascular endothelium. *Biomaterials*, **2019**, 192, 140-148	15.6	19
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190	Biocompatible and Highly Sensitive Nitric Oxide Sensor Particles Prepared by Layer-by-layer Assembly. *Chemistry Letters*, **2010**, 39, 42-43	1.7	19
189	Surface grafting of poly(vinylamine) onto poly(ethylene) film by corona discharge-induced grafting. *Journal of Applied Polymer Science*, **1999**, 72, 1583-1587	2.9	19
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186	Fabrication of Cellular Multilayers with Nanometer-Sized Extracellular Matrix Films. *Angewandte Chemie*, **2007**, 119, 4773-4776	3.6	18
185	Fabrication and enzymatic degradation of fibronectin-based ultrathin films. *Journal of Biomaterials Science, Polymer Edition*, **2007**, 18, 1565-1573	3.5	18
184	Base-specific separation of oligodeoxynucleotides by capillary affinity gel electrophoresis. *Electrophoresis*, **1998**, 19, 433-6	3.6	17
183	Dynamics of Polymer Chains in Porous Thin Films Prepared by Layer-by-layer Assembly of Isotactic Poly(methyl methacrylate) and Syndiotactic Poly(methacrylic acid). *Chemistry Letters*, **2008**, 37, 332-333	1.7	17
182	Novel functional polymers: Poly(dimethylsiloxane)-polyamide multiblock copolymer. IV. Gas permeability and thermomechanical properties of aramid-silicone resins. *Journal of Applied Polymer Science*, **1996**, 59, 1067-1071	2.9	17
181	Spectroscopic study of the interaction between poly-(9-vinyladenine) and single or multistrand RNA. *Biopolymers*, **1992**, 32, 811-7	2.2	17
180	Construction and myogenic differentiation of 3D myoblast tissues fabricated by fibronectin-gelatin nanofilm coating. *Biochemical and Biophysical Research Communications*, **2016**, 474, 515-521	3.4	17

179	Salt Effects on Surface Structures of Polyelectrolyte Multilayers (PEMs) Investigated by Vibrational Sum Frequency Generation (SFG) Spectroscopy. *Langmuir*, **2016**, 32, 3803-10	4	17
178	Stereocomplex Film Using Triblock Copolymers of Polylactide and Poly(ethylene glycol) Retain Paxlitaxel on Substrates by an Aqueous Inkjet System. *Langmuir*, **2015**, 31, 10583-9	4	16
177	The construction of cell-density controlled three-dimensional tissues by coating micrometer-sized collagen fiber matrices on single cell surfaces. *RSC Advances*, **2014**, 4, 46141-46144	3.7	16
176	Biomineral/Agarose Composite Gels Enhance Proliferation of Mesenchymal Stem Cells with Osteogenic Capability. *International Journal of Molecular Sciences*, **2015**, 16, 14245-58	6.3	16
175	Controlled release using a polymer stereocomplex capsule through the selective extraction and incorporation of one capsule shell component. *Langmuir*, **2012**, 28, 15378-84	4	16
174	Mechanism of high thermal stability of commercial polyesters and polyethers conjugated with bio-based caffeic acid. *Journal of Polymer Science Part A*, **2011**, 49, 3152-3162	2.5	16
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171	Functional monomers and polymers, 40. A convenient synthesis of N-(2-methacryloyloxy)ethyl derivatives of nucleic acid bases. *Die Makromolekulare Chemie*, **1977**, 178, 1211-1214		16
170	Transplantation of three-dimensional artificial human vascular tissues fabricated using an extracellular matrix nanofilm-based cell-accumulation technique. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 1303-1307	4.4	15
169	Creation of Superhydrophobic Electrospun Nonwovens Fabricated from Naturally Occurring Poly(Amino Acid) Derivatives. *Advanced Functional Materials*, **2014**, 24, 6359-6364	15.6	15
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