# Mitsuru Akashi

List of Publications by Year
in descending order

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|---|---|---|---|
| 320 papers | 10,256 citations | 28274 55 h-index | 56724 83 g-index |
| 330 all docs | 330 docs citations | 330 times ranked | 9074 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Rapid Construction of Threeâ€Dimensional Multilayered Tissues with Endothelial Tube Networks by the Celâ€Accumulation Technique. Advanced Materials, 2011, 23, 3506-3510. | 21.0 | 241 |
| 2 | Rapid Deswelling of Porous Poly(N-isopropylacrylamide) Hydrogels Prepared by Incorporation of Silica Particles. Macromolecules, 2002, 35, 10-12. | 4.8 | 203 |
| 3 | Targeting of Antigen to Dendritic Cells with Poly(Î³-Glutamic Acid) Nanoparticles Induces Antigen-Specific Humoral and Cellular Immunity. Journal of Immunology, 2007, 178, 2979-2986. | 0.8 | 200 |
| 4 | Stepwise Stereocomplex Assembly of Stereoregular Poly(methyl methacrylate)s on a Substrate. Journal of the American Chemical Society, 2000, 122, 1891-1899. | 13.7 | 187 |
| 5 | Fabrication of Cellular Multilayers with Nanometer-Sized Extracellular Matrix Films. Angewandte Chemie - International Edition, 2007, 46, 4689-4692. | 13.8 | 185 |
| 6 | Preparation and characterization of biodegradable nanoparticles based on poly(Î³-glutamic acid) with l-phenylalanine as a protein carrier. Journal of Controlled Release, 2005, 108, 226-236. | 9.9 | 178 |
| 7 | Polymerization within a molecular-scale stereoregular template. Nature, 2004, 429, 52-55. | 27.8 | 175 |
| 8 | Fabrication of Temperatureâ€Responsive Bending Hydrogels with a Nanostructured Gradient. Advanced Materials, 2008, 20, 2080-2083. | 21.0 | 167 |
| 9 | Protein direct delivery to dendritic cells using nanoparticles based on amphiphilic poly(amino acid) derivatives. Biomaterials, 2007, 28, 3427-3436. | 11.4 | 161 |
| 10 | Threeâ€Dimensional Human Tissue Chips Fabricated by Rapid and Automatic Inkjet Cell Printing. Advanced Healthcare Materials, 2013, 2, 534-539. | 7.6 | 156 |
| 11 | Layerâ€byâ€Layer Assembly Through Weak Interactions and Their Biomedical Applications. Advanced Materials, 2012, 24, 454-474. | 21.0 | 155 |
| 12 | In-Situ Formation of Silver Nanoparticles on Poly(N-isopropylacrylamide)-Coated Polystyrene Microspheres. Advanced Materials, 1998, 10, 1122-1126. | 21.0 | 142 |
| 13 | Biodegradable Nanoparticles as Vaccine Adjuvants and Delivery Systems: Regulation of Immune Responses by Nanoparticle-Based Vaccine. Advances in Polymer Science, 2011, , 31-64. | 0.8 | 134 |
| 14 | Enzymatic Hydrolysis of a Layer-by-Layer Assembly Prepared from Chitosan and Dextran Sulfate. Macromolecules, 2002, 35, 8656-8658. | 4.8 | 113 |
| 15 | Alternating Bioactivity of Polymeric Layer-by-Layer Assemblies:â€‰ Anti- vs Procoagulation of Human Blood on Chitosan and Dextran Sulfate Layers. Biomacromolecules, 2000, 1, 306-309. | 5.4 | 110 |
| 16 | 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. | 3.5 | 107 |
| 17 | Preparation of nanoparticles by the self-organization of polymers consisting of hydrophobic and hydrophilic segments: Potential applications. Polymer, 2007, 48, 6729-6747. | 3.8 | 107 |
| 18 | Development of vascularized iPSC derived 3D-cardiomyocyte tissues by filtration Layer-by-Layer technique and their application for pharmaceutical assays. Acta Biomaterialia, 2016, 33, 110-121. | 8.3 | 106 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Polymyxin B binds to anandamide and inhibits its cytotoxic effect. FEBS Letters, 2000, 470, 151-155. | 2.8 | 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. | 3.5 | 99 |
| 22 | Control of Cell Surface and Functions by Layer-by-Layer Nanofilms. Langmuir, 2010, 26, 5670-5678. | 3.5 | 94 |
| 23 | 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. | 2.1 | 88 |
| 24 | Synthesis and functionalities of poly(N-vinylalkylamide). V. Control of a lower critical solution temperature of poly(N-vinylalkylamide). Journal of Polymer Science Part A, 1997, 35, 3087-3094. | 2.3 | 87 |
| 25 | Stably-dispersed and Surface-functional Bionanoparticles Prepared by Self-assembling Amphipathic Polymers of Hydrophilic Poly(Î³-glutamic acid) Bearing Hydrophobic Amino Acids. Chemistry Letters, 2004, 33, 398-399. | 1.3 | 87 |
| 26 | Three-dimensional cell culture technique and pathophysiology. Advanced Drug Delivery Reviews, 2014, 74, 95-103. | 13.7 | 86 |
| 27 | Synthesis and polymerization of a styryl terminated oligovinylpyrrolidone macromonomer. Angewandte Makromolekulare Chemie, 1985, 132, 81-89. | 0.2 | 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. | 2.3 | 85 |
| 29 | Poly(Î³â€glutamic acid) nanoparticles as an efficient antigen delivery and adjuvant system: Potential for an AIDS vaccine. Journal of Medical Virology, 2008, 80, 11-19. | 5.0 | 85 |
| 30 | Effects of angiogenic factors and 3D-microenvironments on vascularization within sandwich cultures. Biomaterials, 2014, 35, 4739-4748. | 11.4 | 84 |
| 31 | Poly(Î³-glutamic acid) nano-particles combined with mucosal influenza virus hemagglutinin vaccine protects against influenza virus infection in mice. Vaccine, 2009, 27, 5896-5905. | 3.8 | 82 |
| 32 | Development of amphiphilic Î³-PGA-nanoparticle based tumor vaccine: Potential of the nanoparticulate cytosolic protein delivery carrier. Biochemical and Biophysical Research Communications, 2008, 366, 408-413. | 2.1 | 80 |
| 33 | Nanoparticles built by self-assembly of amphiphilic Î³-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. | 3.8 | 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. | 3.5 | 79 |
| 35 | Treating the placenta to prevent adverse effects of gestational hypoxia on fetal brain development. Scientific Reports, 2017, 7, 9079. | 3.3 | 76 |
| 36 | Synthesis and functionalities of poly (N-vinylalkylamide). IV. Synthesis and free radical polymerization ofN-vinylisobutyramide and thermosensitive properties of the polymer. Journal of Polymer Science Part A, 1997, 35, 1763-1768. | 2.3 | 75 |

| # | Article | IF | Citations |
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| 37 | Capture of HIV-1 gp120 and Virions by Lectin-Immobilized Polystyrene Nanospheresâ€. Bioconjugate Chemistry, 1998, 9, 50-53. | 3.6 | 74 |
| 38 | Photo-Cross-Linking and Cleavage Induced Reversible Size Change of Bio-Based Nanoparticles. Macromolecules, 2008, 41, 8167-8172. | 4.8 | 73 |
| 39 | Construction of three-dimensional vascularized functional human liver tissue using a layer-by-layer cell coating technique. Biomaterials, 2017, 133, 263-274. | 11.4 | 73 |
| 40 | Stepwise Assembly of Ultrathin Poly(vinyl alcohol) Films on a Gold Substrate by Repetitive Adsorption/Drying Processes. Langmuir, 1999, 15, 5363-5368. | 3.5 | 72 |
| 41 | Thermotropic Liquid-Crystalline Polymer Derived from Natural Cinnamoyl Biomonomers. Macromolecular Rapid Communications, 2004, 25, 673-677. | 3.9 | 72 |
| 42 | 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. | 2.3 | 70 |
| 43 | Synthesis and Characterization of Poly(N-isopropylacrylamide)-Coated Polystyrene Microspheres with Silver Nanoparticles on Their Surfacesâ€. Langmuir, 1999, 15, 7998-8006. | 3.5 | 70 |
| 44 | 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, 3386-3396. | 4.0 | 70 |
| 45 | Synthesis of poly(N-vinylisobutyramide) from poly(N-vinylacetamide) and its thermosensitive property. Journal of Polymer Science Part A, 1996, 34, 301-303. | 2.3 | 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. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 795-804. | 3.5 | 66 |
| 47 | Ferulic acid-coupled chitosan: Thermal stability and utilization as an antioxidant for biodegradable active packaging film. Carbohydrate Polymers, 2015, 115, 744-751. | 10.2 | 66 |
| 48 | 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. | 2.3 | 63 |
| 49 | Synthesis and characterization of novel biodegradable polymers composed of hydroxycinnamic acid andD,L-lactic acid. Journal of Applied Polymer Science, 2001, 82, 2357-2364. | 2.6 | 62 |
| 50 | Title is missing!. Die Makromolekulare Chemie, 1992, 193, 2843-2860. | 1.1 | 61 |
| 51 | Transmission Electron Microscopic Study of Cross-Sectional Morphologies of Coreâ^'Corona Polymeric Nanospheresâ€. Macromolecules, 2000, 33, 1759-1764. | 4.8 | 59 |
| 52 | In vitro Enzymatic Degradation of Nanoparticles Prepared from Hydrophobically-Modified Poly(Î³-glutamic acid). Macromolecular Bioscience, 2005, 5, 598-602. | 4.1 | 58 |
| 53 | Amphiphilic Poly(Amino Acid) Nanoparticles Induce Sizeâ€Dependent Dendritic Cell Maturation. Advanced Functional Materials, 2010, 20, 3925-3931. | 14.9 | 58 |
| 54 | Layer-by-layer cell coating technique using extracellular matrix facilitates rapid fabrication and function of pancreatic Î²-cell spheroids. Biomaterials, 2018, 160, 82-91. | 11.4 | 58 |

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| 55 | Fabrication of Biobased Polyelectrolyte Capsules and Their Application for Glucose-Triggered Insulin Delivery. ACS Applied Materials & Interfaces, 2016, 8, 13688-13697. | 8.0 | 57 |
| 56 | Synthesis and Thermosensitive Properties of Poly[(N-vinylamide)-co-(vinyl acetate)]s and Their Hydrogels. Macromolecular Chemistry and Physics, 2003, 204, 1027-1033. | 2.2 | 56 |
| 57 | A novel strategy to engineer pre-vascularized 3-dimensional skin substitutes to achieve efficient, functional engraftment. Scientific Reports, 2019, 9, 7797. | 3.3 | 54 |
| 58 | Synthesis and Lectin Recognition of Polystyrene Coreâ^'Glycopolymer Corona Nanospheresâ€. Biomacromolecules, 2001, 2, 469-475. | 5.4 | 53 |
| 59 | Recognition of Stereoregular Polymers by Using Structurally Regulated Ultrathin Polymer Films. Angewandte Chemie - International Edition, 2003, 42, 1118-1121. | 13.8 | 53 |
| 60 | Modulation of innate and adaptive immunity by biodegradable nanoparticles. Immunology Letters, 2009, 125, 46-52. | 2.5 | 53 |
| 61 | Tunable drug-loading capability of chitosan hydrogels with varied network architectures. Acta Biomaterialia, 2014, 10, 821-830. | 8.3 | 53 |
| 62 | A Simple Structural Model for the Polymer Microsphere Stabilized by the Poly(ethylene oxide) Macromonomers Grafted on Its Surface. Macromolecules, 1997, 30, 2187-2189. | 4.8 | 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. Journal of Polymer Science Part A, 1999, 37, 2155-2166. | 2.3 | 52 |
| 64 | Multilayered Blood Capillary Analogs in Biodegradable Hydrogels for In Vitro Drug Permeability Assays. Advanced Functional Materials, 2013, 23, 1736-1742. | 14.9 | 51 |
| 65 | Synthesis and Anticoagulant Activity of Sulfated Glucoside-Bearing Polymer. Bioconjugate Chemistry, 1996, 7, 393-395. | 3.6 | 50 |
| 66 | Controlled hydrophobic/hydrophilic chitosan: colloidal phenomena and nanosphere formation. Colloid and Polymer Science, 2004, 282, 337-342. | 2.1 | 50 |
| 67 | Rapid deswelling of semi-IPNs with nanosized tracts in response to pH and temperature. Journal of Controlled Release, 2006, 110, 387-394. | 9.9 | 50 |
| 68 | A novel synthetic procedure of vinylacetamide and its free radical polymerization. Journal of Polymer Science Part A, 1990, 28, 3487-3497. | 2.3 | 49 |
| 69 | 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. | 2.6 | 49 |
| 70 | EphA2-derived peptide vaccine with amphiphilic poly(Î³-glutamic acid) nanoparticles elicits an anti-tumor effect against mouse liver tumor. Cancer Immunology, Immunotherapy, 2010, 59, 759-767. | 4.2 | 49 |
| 71 | Hydrogen-Bonded Multilayer Films Based on Poly(N-vinylamide) Derivatives and Tannic Acid. Langmuir, 2015, 31, 6863-6869. | 3.5 | 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. Journal of Polymer Science Part A, 1995, 33, 1219-1225. | 2.3 | 48 |

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|---|---|---|---|
| 73 | Vascularized cardiac tissue construction with orientation by layer-by-layer method and 3D printer. Scientific Reports, 2020, 10, 5484. | 3.3 | 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 Î³-Ray Irradiated Chitosan. Biomacromolecules, 2001, 2, 1038-1044. | 5.4 | 45 |
| 76 | Precise Synthesis of ABA Triblock Copolymers Comprised of Poly(ethylene oxide) and Poly(Î²-benzyl-l-aspartate):Â A Hierarchical Structure Inducing Excellent Elasticity. Macromolecules, 2004, 37, 1370-1377. | 4.8 | 44 |
| 77 | Fabrication of Surface-Modified Hydrogels with Polyion Complex for Controlled Release. Chemistry of Materials, 2010, 22, 2923-2929. | 6.7 | 44 |
| 78 | InÂvitro 3D blood/lymph-vascularized human stromal tissues for preclinical assays of cancer metastasis. Biomaterials, 2018, 179, 144-155. | 11.4 | 44 |
| 79 | pH-dependent and self-healing properties of mussel modified poly(vinyl alcohol) hydrogels in a metal-free environment. RSC Advances, 2015, 5, 82252-82258. | 3.6 | 42 |
| 80 | A Layer-by-Layer Single-Cell Coating Technique To Produce Injectable Beating Mini Heart Tissues via Microfluidics. Biomacromolecules, 2019, 20, 3746-3754. | 5.4 | 42 |
| 81 | Ultrarapid Molecular Release from Poly(N-isopropylacrylamide) Hydrogels Perforated Using Silica Nanoparticle Networks. Macromolecular Chemistry and Physics, 2005, 206, 566-574. | 2.2 | 40 |
| 82 | Template Polymerization Using Artificial Double Strands. Macromolecules, 2005, 38, 6759-6761. | 4.8 | 40 |
| 83 | Preparation of Size Tunable Amphiphilic Poly(amino acid) Nanoparticles. Macromolecular Bioscience, 2009, 9, 842-848. | 4.1 | 40 |
| 84 | 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 | 40 |
| 85 | Engineering fibrotic tissue in pancreatic cancer: A novel three-dimensional model to investigate nanoparticle delivery. Biochemical and Biophysical Research Communications, 2012, 419, 32-37. | 2.1 | 40 |
| 86 | Thermally Stabilized Poly(lactide)s Stereocomplex with Bio-Based Aromatic Groups at Both Initiating and Terminating Chain Ends. Macromolecules, 2013, 46, 5150-5156. | 4.8 | 40 |
| 87 | Novel nonionic and cationic hydrogels prepared from N-vinylacetamide. Journal of Polymer Science Part A, 1993, 31, 1153-1160. | 2.3 | 39 |
| 88 | A stereocomplex of poly(lactide)s with chain end modification: simultaneous resistances to melting and thermal decomposition. Chemical Communications, 2012, 48, 8478. | 4.1 | 39 |
| 89 | 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 | 38 |
| 90 | Quantitative 3D Analysis of Nitric Oxide Diffusion in a 3D Artery Model Using Sensor Particles. Angewandte Chemie - International Edition, 2011, 50, 7557-7561. | 13.8 | 38 |

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| 91 | Development of Endothelial Cell Networks in 3D Tissues by Combination of Melt Electrospinning Writing with Cellâ€Accumulation Technology. Small, 2018, 14, 1701521. | 10.0 | 38 |
| 92 | Ca-adsorption and apatite deposition on silk fabrics modified with phosphate polymer chains. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 787-793. | 3.5 | 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). Journal of Polymer Science Part A, 2000, 38, 3674-3681. | 2.3 | 37 |
| 94 | Alkaline Hydrolysis of Enantiomeric Poly(lactide)s Stereocomplex Deposited on Solid Substrates. Macromolecules, 2003, 36, 1762-1765. | 4.8 | 37 |
| 95 | Graft copolymers having hydrophobic backbone and hydrophilic branches. XVIII. Poly(styrene) nanospheres with novel thermosensitive poly(N-vinylisobutyramide)s on their surfaces. Journal of Polymer Science Part A, 1998, 36, 2581-2587. | 2.3 | 36 |
| 96 | Development of Photoreactive Degradable Branched Polyesters with High Thermal and Mechanical Properties. Biomacromolecules, 2009, 10, 766-772. | 5.4 | 36 |
| 97 | Poly(vinylalkanamide)s as Kinetic Hydrate Inhibitors: Comparison of Poly(N-vinylisobutyramide) with Poly(N-isopropylacrylamide). Energy & Fuels, 2013, 27, 183-188. | 5.1 | 36 |
| 98 | Construction of Three-Dimensional Dermoâ€“Epidermal Skin Equivalents Using Cell Coating Technology and Their Utilization as Alternative Skin for Permeation Studies and Skin Irritation Tests<sup />. Tissue Engineering - Part A, 2017, 23, 481-490. | 3.1 | 36 |
| 99 | Chitosan-Hydroxybenzotriazole Aqueous Solution: A Novel Water-Based System for Chitosan Functionalization. Macromolecular Rapid Communications, 2006, 27, 1039-1046. | 3.9 | 35 |
| 100 | Composite Materials by Building Block Chemistry Using Weak Interaction. Bulletin of the Chemical Society of Japan, 2021, 94, 1903-1921. | 3.2 | 35 |
| 101 | In vitro placenta barrier model using primary human trophoblasts, underlying connective tissue and vascular endothelium. Biomaterials, 2019, 192, 140-148. | 11.4 | 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. Biochemical and Biophysical Research Communications, 2010, 402, 153-157. | 2.1 | 32 |
| 104 | Nanometerâ€sized extracellular matrix coating on polymerâ€based scaffold for tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2016, 104, 94-103. | 4.0 | 32 |
| 105 | Specific thermosensitive volume change of biopolymer gels derived from propylated poly(?-glutamate)s. Journal of Polymer Science Part A, 2004, 42, 4492-4501. | 2.3 | 31 |
| 106 | Ultrastructure of blood and lymphatic vascular networks in three-dimensional cultured tissues fabricated by extracellular matrix nanofilm-based cell accumulation technique. Microscopy (Oxford,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | | 30 |
| 107 | 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. | 2.3 | 29 |
| 108 | Survival and structural evaluations of three-dimensional tissues fabricated by the hierarchical cell manipulation technique. Acta Biomaterialia, 2013, 9, 4698-4706. | 8.3 | 29 |

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|---|---|---|---|
| 109 | Secretions from placenta, after hypoxia/reoxygenation, can damage developing neurones of brain under experimental conditions. Experimental Neurology, 2014, 261, 386-395. | 4.1 | 29 |
| 110 | Title is missing!. Angewandte Makromolekulare Chemie, 1993, 206, 69-75. | 0.2 | 27 |
| 111 | Novel functional polymers: Poly(dimethylsiloxane)-polyamide multiblock copolymer. III. Synthesis and surface properties of disiloxane-aromatic polyamide multiblock copolymer. Journal of Applied Polymer Science, 1996, 59, 1059-1065. | 2.6 | 27 |
| 112 | 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. | 0.2 | 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. Polymers for Advanced Technologies, 1999, 10, 120-126. | 3.2 | 27 |
| 114 | Self-assembled Soft Nanofibrils of Amphipathic Polypeptides and Their Morphological Transformation. Chemistry of Materials, 2005, 17, 2484-2486. | 6.7 | 27 |
| 115 | Stereoregular Polymerization within Template Nanospaces. Polymer Journal, 2006, 38, 311-328. | 2.7 | 27 |
| 116 | Construction and myogenic differentiation of 3D myoblast tissues fabricated by fibronectin-gelatin nanofilm coating. Biochemical and Biophysical Research Communications, 2016, 474, 515-521. | 2.1 | 27 |
| 117 | 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. | 0.7 | 26 |
| 118 | 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. | 2.3 | 26 |
| 119 | Improved alternate deposition of biodegradable naturally occurring polymers onto a quartz crystal microbalance. Journal of Polymer Science Part A, 1999, 37, 801-804. | 2.3 | 26 |
| 120 | Engraftment and morphological development of vascularized human iPS cell-derived 3D-cardiomyocyte tissue after xenotransplantation. Scientific Reports, 2017, 7, 13708. | 3.3 | 26 |
| 121 | Unusual Size Formation of Polymeric Nanospheres Synthesized by Free Radical Polymerization in Ethanolâ^'Water Mixed Solvents. Langmuir, 1998, 14, 1278-1280. | 3.5 | 25 |
| 122 | Nanosphere formation in copolymerization of methyl methacrylate with poly(ethylene glycol) macromonomers. Journal of Polymer Science Part A, 2000, 38, 1811-1817. | 2.3 | 25 |
| 123 | Thermosensitive Behavior of Poly(N-isopropylacrylamide) Grafted Polystyrene Nanoparticles. Polymer Journal, 2003, 35, 901-910. | 2.7 | 25 |
| 124 | One-Step Formation of Morphologically Controlled Nanoparticles with Projection Coronas. Macromolecules, 2004, 37, 501-506. | 4.8 | 25 |
| 125 | Uptake of biodegradable poly(Î³-glutamic acid) nanoparticles and antigen presentation by dendritic cells in vivo. Results in Immunology, 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(Î³-glutamic acid). Bioconjugate Chemistry, 2015, 26, 890-898. | 3.6 | 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. Tissue Engineering - Part C: Methods, 2017, 23, 357-366. | 2.1 | 25 |
| 128 | Title is missing!. Die Makromolekulare Chemie, 1977, 178, 353-364. | 1.1 | 24 |
| 129 | A novel biomaterial: Poly(dimethylsiloxane)-polyamide multiblock copoly mer I. Synthesis and evaluation of blood compatibility. Journal of Biomaterials Science, Polymer Edition, 1994, 5, 89-98. | 3.5 | 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. Journal of Biomedical Materials Research - Part A, 2015, 103, 1554-1564. | 4.0 | 24 |
| 131 | Title is missing!. Die Makromolekulare Chemie, 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. Journal of Biomaterials Science, Polymer Edition, 1999, 10, 391-401. | 3.5 | 23 |
| 133 | Efficient Removal and Recovery of Perfluorinated Compounds from Water by Surface-tethered Î²-Cyclodextrins on Polystyrene Particles. Chemistry Letters, 2013, 42, 392-394. | 1.3 | 23 |
| 134 | Preparation of glucose responsive polyelectrolyte capsules with shell crosslinking via the layer-by-layer technique and sustained release of insulin. Polymer Chemistry, 2016, 7, 6779-6788. | 3.9 | 23 |
| 135 | Threeâ€dimensional bioprinting human cardiac tissue chips of using a painting needle method. Biotechnology and Bioengineering, 2019, 116, 3136-3142. | 3.3 | 23 |
| 136 | Construction of Vascularized Oral Mucosa Equivalents Using a Layer-by-Layer Cell Coating Technology. Tissue Engineering - Part C: Methods, 2019, 25, 262-275. | 2.1 | 23 |
| 137 | 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. | 2.3 | 22 |
| 138 | Cell Adhesion and Proliferation on Poly(N-vinylacetamide) Hydrogels and Double Network Approaches for Changing Cellular Affinities. Biomacromolecules, 2008, 9, 426-430. | 5.4 | 22 |
| 139 | Structural Analysis of Unimer Nanoparticles Composed of Hydrophobized Poly(amino acid)s. Macromolecules, 2013, 46, 6187-6194. | 4.8 | 22 |
| 140 | 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. | 2.6 | 21 |
| 141 | Three-dimensional multilayers of smooth muscle cells as a new experimental model for vascular elastic fiber formation studies. Atherosclerosis, 2014, 233, 590-600. | 0.8 | 21 |
| 142 | Temperature-responsive catalytic activity of poly(N-isopropylacrylamide)-protected Au/Pt bimetallic nanoparticles in aqueous solutions. Polymers for Advanced Technologies, 1999, 10, 127-133. | 3.2 | 20 |
| 143 | Biomineral/Agarose Composite Gels Enhance Proliferation of Mesenchymal Stem Cells with Osteogenic Capability. International Journal of Molecular Sciences, 2015, 16, 14245-14258. | 4.1 | 20 |
| 144 | Base-specific separation of oligodeoxynucleotides by capillary affinity gel electrophoresis. Electrophoresis, 1998, 19, 433-436. | 2.4 | 19 |

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|---|---|---|---|
| 145 | Surface grafting of poly(vinylamine) onto poly(ethylene) film by corona discharge-induced grafting. Journal of Applied Polymer Science, 1999, 72, 1583-1587. | 2.6 | 19 |
| 146 | Biocompatible and Highly Sensitive Nitric Oxide Sensor Particles Prepared by Layer-by-layer Assembly. Chemistry Letters, 2010, 39, 42-43. | 1.3 | 19 |
| 147 | Control of extracellular microenvironments using polymer/protein nanofilms for the development of three-dimensional human tissue chips. Polymer Journal, 2014, 46, 524-536. | 2.7 | 19 |
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