

# Masaru Tanaka

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

181  
papers

6,225  
citations

45  
h-index

73  
g-index

193  
ext. papers

6,933  
ext. citations

4.9  
avg, IF

6.01  
L-index

#	Paper	IF	Citations
181	Selective Accumulation to Tumor Cells with Coacervate Droplets Formed from a Water-Insoluble Acrylate Polymer.. <i>Biomacromolecules</i> , <b>2022</b> ,	6.9	3
180	Behavior of supramolecular cross-links formed by host-guest interactions in hydrogels responding to water contents <b>2022</b> , 1, 100001		1
179	Experimental Evidence of Slow Mode Water in the Vicinity of Poly(ethylene oxide) at Physiological Temperature.. <i>Journal of Physical Chemistry B</i> , <b>2022</b> , 126, 1758-1767	3.4	1
178	Effect of Osmolytes on Water Mobility Correlates with Their Stabilizing Effect on Proteins.. <i>Journal of Physical Chemistry B</i> , <b>2022</b> ,	3.4	2
177	Anisotropic, Degradable Polymer Assemblies Driven by a Rigid Hydrogen-Bonding Motif That Induce Shape-Specific Cell Responses. <i>Macromolecules</i> , <b>2022</b> , 55, 15-25	5.5	
176	Roles of interfacial water states on advanced biomedical material design.. <i>Advanced Drug Delivery Reviews</i> , <b>2022</b> , 186, 114310	18.5	1
175	Sol-gel silicate glass doped with silver for bone regeneration: Antibacterial activity, intermediate water, and cell death mode <b>2022</b> , 138, 212965		0
174	A $\beta$ -hairpin peptide with pH-controlled affinity for tumor cells. <i>Chemical Communications</i> , <b>2021</b> ,	5.8	1
173	Effect of amount of hydrated water and mobility of hydrated poly(2-methoxyethyl acrylate) on denaturation of adsorbed fibrinogen. <i>Journal of Polymer Science</i> , <b>2021</b> , 59, 2763-2770	2.4	2
172	Conformable microneedle pH sensors via the integration of two different siloxane polymers for mapping peripheral artery disease. <i>Science Advances</i> , <b>2021</b> , 7, eabi6290	14.3	10
171	Fluorine-containing bio-inert polymers: Roles of intermediate water. <i>Acta Biomaterialia</i> , <b>2021</b> ,	10.8	2
170	Protein- and Cell-Resistance of Zwitterionic Peptide-Based Self-Assembled Monolayers: Anti-Biofouling Tests and Surface Force Analysis. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 748017	5	2
169	Carborane as an Alternative Efficient Hydrophobic Tag for Protein Degradation. <i>Bioconjugate Chemistry</i> , <b>2021</b> , 32, 2377-2385	6.3	2
168	Local Dynamics of the Hydration Water and Poly(Methyl Methacrylate) Chains in PMMA Networks. <i>Frontiers in Chemistry</i> , <b>2021</b> , 9, 728738	5	1
167	Periodically Functionalized Linear Polyethylene with Tertiary Amino Groups via Regioselective Ring-Opening Metathesis Polymerization. <i>Macromolecules</i> , <b>2021</b> , 54, 2862-2872	5.5	2
166	Chain-End Effect for Intermediate Water Formation of Poly(2-Methoxyethyl Acrylate). <i>Organic Materials</i> , <b>2021</b> , 03, 214-220	1.9	3
165	Attachment and Growth of Fibroblast Cells on Poly (2-Methoxyethyl Acrylate) Analog Polymers as Coating Materials. <i>Coatings</i> , <b>2021</b> , 11, 461	2.9	0

164	Effects of Side-Chain Spacing and Length on Hydration States of Poly(2-methoxyethyl acrylate) Analogues: A Molecular Dynamics Study. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 2383-2391	5.5	3
163	First Observation of the Hydration Layer around Polymer Chain by Scattering and Its Relationship to Thromboresistance: Dilute Solution Properties of PMEA in THF/Water. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 7251-7261	3.4	1
162	Poly(tertiary amide acrylate) Copolymers Inspired by Poly(2-oxazoline)s: Their Blood Compatibility and Hydration States. <i>Biomacromolecules</i> , <b>2021</b> , 22, 2718-2728	6.9	1
161	Different hydration states and passive tumor targeting ability of polyethylene glycol-modified dendrimers with high and low PEG density. <i>Materials Science and Engineering C</i> , <b>2021</b> , 126, 112159	8.3	6
160	Effect of Branching Degree of Dendritic Polyglycerols on Plasma Protein Adsorption: Relationship between Hydration States and Surface Morphology. <i>Langmuir</i> , <b>2021</b> , 37, 8534-8543	4	0
159	Effect of bound water content on cell adhesion strength to water-insoluble polymers. <i>Acta Biomaterialia</i> , <b>2021</b> , 134, 313-324	10.8	5
158	Role of interfacial water in determining the interactions of proteins and cells with hydrated materials. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 198, 111449	6	19
157	Effect of interfacial structure based on grafting density of poly(2-methoxyethyl acrylate) on blood compatibility. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2021</b> , 199, 111517	6	9
156	A fully covered self-expandable metallic stent coated with poly(2-methoxyethyl acrylate) and its derivative: In vitro evaluation of early-stage biliary sludge formation inhibition. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111386	8.3	4
155	Methoxy-Functionalized Glycerol-Based Aliphatic Polycarbonate: Organocatalytic Synthesis, Blood Compatibility, and Hydrolytic Property. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 472-481	5.5	6
154	Investigating the Intermediate Water Feature of Hydrated Titanium Containing Bioactive Glass. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	6
153	Mechanical Properties with Respect to Water Content of Host-Guest Hydrogels. <i>Macromolecules</i> , <b>2021</b> , 54, 8067-8076	5.5	8
152	Protein Stabilization Effect of Zwitterionic Osmolyte-bearing Polymer. <i>Chemistry Letters</i> , <b>2021</b> , 50, 1699-1702	4.7	4
151	Biosafety of a novel covered self-expandable metal stent coated with poly(2-methoxyethyl acrylate) in vivo. <i>PLoS ONE</i> , <b>2021</b> , 16, e0257828	3.7	1
150	and blood compatibility of concentrated polymer brushes. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 5794-5803	4.5	3
149	Observing the repulsion layers on blood-compatible polymer-grafted interfaces by frequency modulation atomic force microscopy. <i>Materials Science and Engineering C</i> , <b>2021</b> , 112596	8.3	1
148	Elucidating the Feature of Intermediate Water in Hydrated Poly(2-methoxyethyl acrylate)s by Molecular Dynamics Simulation and Differential Scanning Calorimetry Measurement. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 3915-3924	5.5	8
147	Optimal Plasticizer Content for Magnetic Elastomers Used for Cell Culture Substrate. <i>Chemistry Letters</i> , <b>2020</b> , 49, 280-283	1.7	3

146	Blood-Compatible Poly(2-methoxyethyl acrylate) Induces Blebbing-like Phenomenon and Promotes Viability of Tumor Cells in Serum-Free Medium.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 1858-1864	4.1	3
145	Sulfated Hyaluronan coating of polyurethanebased implant materials. <i>Current Directions in Biomedical Engineering</i> , <b>2020</b> , 6, 446-449	0.5	
144	Control of interfacial structures and anti-platelet adhesion property of blood-compatible random copolymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2020</b> , 31, 207-218	3.5	8
143	Molecular Dynamics Study on the Water Mobility and Side-Chain Flexibility of Hydrated Poly(Emethoxyalkyl acrylate)s. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 6690-6700	5.5	5
142	Side-Chain Spacing Control of Derivatives of Poly(2-methoxyethyl acrylate): Impact on Hydration States and Antithrombogenicity. <i>Macromolecules</i> , <b>2020</b> , 53, 8570-8580	5.5	12
141	Silsesquioxane/Poly(2-methoxyethyl acrylate) Hybrid with Both Antithrombotic and Endothelial Cell Adhesive Properties. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 4790-4801	4.3	6
140	Understanding the Effect of Hydration on the Bio-inert Properties of 2-Hydroxyethyl Methacrylate Copolymers with Small Amounts of Amino- or/and Fluorine-Containing Monomers. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 2855-2866	5.5	6
139	Hydration States and Blood Compatibility of Hydrogen-Bonded Supramolecular Poly(2-methoxyethyl acrylate).. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 4154-4161	4.1	11
138	Effect of the Molecular Weight of Poly(2-methoxyethyl acrylate) on Interfacial Structure and Blood Compatibility. <i>Langmuir</i> , <b>2019</b> , 35, 2808-2813	4	16
137	Controlling the Hydration Structure with a Small Amount of Fluorine To Produce Blood Compatible Fluorinated Poly(2-methoxyethyl acrylate). <i>Biomacromolecules</i> , <b>2019</b> , 20, 2265-2275	6.9	16
136	Analyses of equilibrium water content and blood compatibility for Poly(2-methoxyethyl acrylate) by molecular dynamics simulation. <i>Polymer</i> , <b>2019</b> , 170, 76-84	3.9	12
135	Long-Term Implantable, Flexible, and Transparent Neural Interface Based on Ag/Au Core-Shell Nanowires. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900130	10.1	29
134	Intermediate Water on Calcium Phosphate Minerals: Its Origin and Role in Crystal Growth.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 981-986	4.1	12
133	Design of Polymeric Biomaterials: The Intermediate Water Concept. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 2043-2057	5.1	46
132	Design of Multifunctional Soft Biomaterials: Based on the Intermediate Water Concept <b>2019</b> , 423-432		1
131	Development of Biocompatible Materials : Bio and Material Interactions. <i>Seikei-Kakou</i> , <b>2019</b> , 31, 404-407		
130	Thermosensitive Polymer Biocompatibility Based on Interfacial Structure at Biointerface. <i>ACS Biomaterials Science and Engineering</i> , <b>2018</b> , 4, 1591-1597	5.5	17
129	Newly developed controlled release subcutaneous formulation for tramadol hydrochloride. <i>Saudi Pharmaceutical Journal</i> , <b>2018</b> , 26, 585-592	4.4	8

128	Chondrocyte Shapes and Detachment on a Thermoresponsive Poly(2-methoxyethyl acrylate) Analog for the Development of New Chondrocytes Subculture Substrate. <i>Chemistry Letters</i> , <b>2018</b> , 47, 107-109	1.7	2
127	A simple strategy for robust preparation and characterisation of hydrogels derived from chitosan and amino functional monomers for biomedical applications. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 5115-5129	7.3	3
126	Analysis of Interaction Between Interfacial Structure and Fibrinogen at Blood-Compatible Polymer/Water Interface. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 542	5	19
125	Nonthrombogenic, stretchable, active multielectrode array for electroanatomical mapping. <i>Science Advances</i> , <b>2018</b> , 4, eaau2426	14.3	89
124	Antithrombotic Protein Filter Composed of Hybrid Tissue-Fabric Material has a Long Lifetime. <i>Annals of Biomedical Engineering</i> , <b>2017</b> , 45, 1352-1364	4.7	2
123	Surface force and vibrational spectroscopic analyses of interfacial water molecules in the vicinity of methoxy-tri(ethylene glycol)-terminated monolayers: mechanisms underlying the effect of lateral packing density on bioinertness. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2017</b> , 28, 1231-1243	3.5	17
122	Synthesis and Thrombogenicity Evaluation of Poly(3-methoxypropionic acid vinyl ester): A Candidate for Blood-Compatible Polymers. <i>Biomacromolecules</i> , <b>2017</b> , 18, 1609-1616	6.9	20
121	Evaluation of initial cell adhesion on poly (2-methoxyethyl acrylate) (PMEA) analogous polymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2017</b> , 28, 986-999	3.5	12
120	Design Concept of Dialyzer Biomaterials: How to Find Biocompatible Polymers Based on the Biointerfacial Water Structure. <i>Contributions To Nephrology</i> , <b>2017</b> , 189, 137-143	1.6	2
119	Dynamics of a bioinert polymer in hydrated states by dielectric relaxation spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1389-1394	3.6	17
118	Monoether-Tagged Biodegradable Polycarbonate Preventing Platelet Adhesion and Demonstrating Vascular Cell Adhesion: A Promising Material for Resorbable Vascular Grafts and Stents. <i>Biomacromolecules</i> , <b>2017</b> , 18, 3834-3843	6.9	18
117	Designing Smart Biomaterials for Tissue Engineering. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 19,	6.3	140
116	Synthesis of antithrombotic poly(carbonate-urethane)s through a sequential process of ring-opening polymerization and polyaddition facilitated by organocatalysts. <i>European Polymer Journal</i> , <b>2017</b> , 95, 728-736	5.2	13
115	Poly(E-methoxyalkyl acrylate)s: Nonthrombogenic Polymer Family with Tunable Protein Adsorption. <i>Biomacromolecules</i> , <b>2017</b> , 18, 4214-4223	6.9	49
114	Maintenance of Cartilaginous Gene Expression of Serially Subcultured Chondrocytes on Poly(2-Methoxyethyl Acrylate) Analogous Polymers. <i>Macromolecular Bioscience</i> , <b>2017</b> , 17, 1700297	5.5	2
113	Decellularized matrices as in vitro models of extracellular matrix in tumor tissues at different malignant levels: Mechanism of 5-fluorouracil resistance in colorectal tumor cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2016</b> , 1863, 2749-2757	4.9	31
112	Promotion of Adipogenesis of 3T3-L1 Cells on Protein Adsorption-Suppressing Poly(2-methoxyethyl acrylate) Analogs. <i>Biomacromolecules</i> , <b>2016</b> , 17, 3808-3815	6.9	19
111	Synthesis of Sequence-Specific Polymers with Amide Side Chains via Regio-/Stereoselective Ring-Opening Metathesis Polymerization of 3-Substituted cis-Cyclooctene. <i>Macromolecules</i> , <b>2016</b> , 49, 8154-8161	5.5	20

110	Interfacial Structures and Fibrinogen Adsorption at Blood-Compatible Polymer/Water Interfaces. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 2122-2126	5.5	27
109	2D and 3D Biocompatible Polymers for Biomedical Devices <b>2016</b> , 82-93		2
108	Blood-compatible poly (2-methoxyethyl acrylate) for the adhesion and proliferation of lung cancer cells toward the isolation and analysis of circulating tumor cells. <i>Journal of Bioactive and Compatible Polymers</i> , <b>2016</b> , 31, 361-372	2	6
107	Regioselective Ring-Opening Metathesis Polymerization of 3-Substituted Cyclooctenes with Ether Side Chains.. <i>Macromolecules</i> , <b>2016</b> , 49, 2493-2501	5.5	29
106	In Vitro Endothelialization Test of Biomaterials Using Immortalized Endothelial Cells. <i>PLoS ONE</i> , <b>2016</b> , 11, e0158289	3.7	2
105	Decellularized Extracellular Matrix as an In Vitro Model to Study the Comprehensive Roles of the ECM in Stem Cell Differentiation. <i>Stem Cells International</i> , <b>2016</b> , 2016, 6397820	5	95
104	Integrin-independent Cell Adhesion Substrates: Possibility of Applications for Mechanobiology Research. <i>Analytical Sciences</i> , <b>2016</b> , 32, 1151-1158	1.7	8
103	Blood-compatible poly(2-methoxyethyl acrylate) for the adhesion and proliferation of endothelial and smooth muscle cells. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2016</b> , 145, 586-596	6	19
102	Biocompatibility and hemocompatibility evaluation of polyether urethanes synthesized using DBU organocatalyst. <i>European Polymer Journal</i> , <b>2016</b> , 84, 750-758	5.2	12
101	Adhesion-based simple capture and recovery of circulating tumor cells using a blood-compatible and thermo-responsive polymer-coated substrate. <i>RSC Advances</i> , <b>2016</b> , 6, 89103-89112	3.7	18
100	Evaluation of Factors To Determine Platelet Compatibility by Using Self-Assembled Monolayers with a Chemical Gradient. <i>Langmuir</i> , <b>2015</b> , 31, 7100-5	4	23
99	Evaluation of the hemocompatibility of hydrated biodegradable aliphatic carbonyl polymers with a subtle difference in the backbone structure based on the intermediate water concept and surface hydration. <i>Polymer Journal</i> , <b>2015</b> , 47, 469-473	2.7	15
98	Effect of local chain dynamics on a bioinert interface. <i>Langmuir</i> , <b>2015</b> , 31, 3661-7	4	45
97	Blood-Compatible Polymer for Hepatocyte Culture with High Hepatocyte-Specific Functions toward Bioartificial Liver Development. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 18096-103	9.5	23
96	Fabrication of polymeric biomaterials: a strategy for tissue engineering and medical devices. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 8224-8249	7.3	149
95	Effect of interfacial structure on bioinert properties of poly(2-methoxyethyl acrylate)/poly(methyl methacrylate) blend films in water. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 17399-405	3.6	34
94	Construction of a blood-compatible interface based on surface segregation in a polymer blend. <i>Polymer</i> , <b>2015</b> , 78, 219-224	3.9	9
93	Design of Biocompatible Polymers Based on the Intermediate Water Concept. <i>Journal of the Adhesion Society of Japan</i> , <b>2015</b> , 51, 423-433	0.1	1

92	Intercorrelation between Interfacial Behavior of Water and Biocompatibility. <i>Hyomen Kagaku</i> , <b>2015</b> , 36, 424-429		0
91	The Relationship Between Water Structure and Blood Compatibility in Poly(2-methoxyethyl Acrylate) (PMEA) Analogues. <i>Macromolecular Bioscience</i> , <b>2015</b> , 15, 1296-303	5.5	61
90	Regulation of the Contribution of Integrin to Cell Attachment on Poly(2-Methoxyethyl Acrylate) (PMEA) Analogous Polymers for Attachment-Based Cell Enrichment. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136066	3.7	29
89	Optimization of the tissue source, malignancy, and initial substrate of tumor cell-derived matrices to increase cancer cell chemoresistance against 5-fluorouracil. <i>Biochemical and Biophysical Research Communications</i> , <b>2015</b> , 457, 353-7	3.4	15
88	Design of biocompatible and biodegradable polymers based on intermediate water concept. <i>Polymer Journal</i> , <b>2015</b> , 47, 114-121	2.7	84
87	Effect of sodium chloride on hydration structures of PMEA and P(MPC-r-BMA). <i>Langmuir</i> , <b>2014</b> , 30, 10698-703	2.2	22
86	Characterization of the attachment mechanisms of tissue-derived cell lines to blood-compatible polymers. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 775-84	10.1	37
85	The morphology and functions of articular chondrocytes on a honeycomb-patterned surface. <i>BioMed Research International</i> , <b>2014</b> , 2014, 710354	3	12
84	Adhesion and proliferation of human periodontal ligament cells on poly(2-methoxyethyl acrylate). <i>BioMed Research International</i> , <b>2014</b> , 2014, 102648	3	12
83	Honeycomb-like Structured Film Regulates Mediator Release from Non-Tumor Mast Cells. <i>European Journal of Inflammation</i> , <b>2014</b> , 12, 515-520	0.3	1
82	Non-tumor mast cells cultured in vitro on a honeycomb-like structured film proliferate with multinucleated formation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2014</b> , 10, 313-9	6	15
81	Biocompatible 2D and 3D Polymeric Scaffolds for Medical Devices <b>2014</b> , 229-253		1
80	Breast cancer cell behaviors on staged tumorigenesis-mimicking matrices derived from tumor cells at various malignant stages. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 439, 291-6	3.4	29
79	The roles of water molecules at the biointerface of medical polymers. <i>Polymer Journal</i> , <b>2013</b> , 45, 701-710.	10.7	157
78	Microporous "honeycomb" films support enhanced bone formation in vitro. <i>Tissue Engineering - Part A</i> , <b>2013</b> , 19, 2087-96	3.9	18
77	Molecular Aggregation States of Poly (meth) acrylate Thin Films in Non-solvents. <i>Hamon</i> , <b>2013</b> , 23, 62-65		
76	Comparison of measurement techniques for the identification of bound water restrained by polymers. <i>Thermochimica Acta</i> , <b>2012</b> , 532, 159-163	2.9	32
75	Synthesis of graft copolymers based on poly(2-methoxyethyl acrylate) and investigation of the associated water structure. <i>Macromolecular Rapid Communications</i> , <b>2012</b> , 33, 319-25	4.8	14

74	Mechanism underlying bioinertness of self-assembled monolayers of oligo(ethyleneglycol)-terminated alkanethiols on gold: protein adsorption, platelet adhesion, and surface forces. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 10196-206	3.6	69
73	Design of novel 2D and 3D biointerfaces using self-organization to control cell behavior. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2011</b> , 1810, 251-8	4	45
72	Water Structure and Polymer Dynamics in Hydrated Blood Compatible Polymers. <i>Kobunshi Ronbunshu</i> , <b>2011</b> , 68, 133-146	0	6
71	Surface segregation of poly(2-methoxyethyl acrylate) in a mixture with poly(methyl methacrylate). <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 4928-34	3.6	28
70	Effect of honeycomb-patterned surface topography on the function of mesenteric adipocytes. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2010</b> , 21, 1947-56	3.5	24
69	Study on the water structure and blood compatibility of poly(acryloylmorpholine-r-butyl methacrylate). <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2010</b> , 21, 1895-910	3.5	6
68	Clarification of the blood compatibility mechanism by controlling the water structure at the blood-poly(meth)acrylate interface. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2010</b> , 21, 1849-63	3.5	65
67	Hydration structure of poly(2-methoxyethyl acrylate): comparison with a 2-methoxyethyl acetate model monomer. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2010</b> , 21, 1925-35	3.5	17
66	Mechanical Effect of Acetic Acid Lignin Adsorption on Honeycomb-Patterned Cellulosic Films. <i>Journal of Wood Chemistry and Technology</i> , <b>2010</b> , 30, 348-359	2	11
65	<sup>1</sup> H-NMR and <sup>13</sup> C-NMR study of the hydration behavior of poly(2-methoxyethyl acrylate), poly(2-hydroxyethyl methacrylate) and poly(tetrahydrofurfuryl acrylate) in relation to their blood compatibility as biomaterials. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2010</b> , 21, 1911-24	3.5	35
64	Thermal properties of freezing bound water restrained by polysaccharides. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2010</b> , 21, 1865-75	3.5	41
63	Proliferation of Periodontal Ligament Cells on Biodegradable Honeycomb Film Scaffold with Unified Micropore Organization. <i>Journal of Biomechanical Science and Engineering</i> , <b>2010</b> , 5, 252-261	0.8	7
62	Studies on bound water restrained by poly(2-methacryloyloxyethyl phosphorylcholine): Comparison with polysaccharide-water systems. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 2077-82	10.8	74
61	Fabrication of Novel Biocompatible Surfaces by Two-Photon Absorption Technique Using Femtosecond Laser. <i>Molecular Crystals and Liquid Crystals</i> , <b>2009</b> , 505, 219/[457]-230/[468]	0.5	2
60	Water structure and blood compatibility of poly(tetrahydrofurfuryl acrylate). <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2009</b> , 20, 591-603	3.5	42
59	Tuning of cell proliferation on tough gels by critical charge effect. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 88, 74-83	5.4	46
58	Anti-biofouling properties of polymers with a carboxybetaine moiety. <i>Macromolecular Bioscience</i> , <b>2009</b> , 9, 63-70	5.5	80
57	Comparative study on water structures in polyHEMA and polyMEA by XRD-DSC simultaneous measurement. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 111, 476-481	2.9	33



56	Network structures and dynamics of dry and swollen poly(acrylate)s. Characterization of high- and low-frequency motions as revealed by suppressed or recovered intensities (SRI) analysis of $^{13}\text{C}$ NMR. <i>Polymer</i> , <b>2009</b> , 50, 6091-6099	3.9	53
55	Fabrication of Ordered Arrays of Biodegradable Polymer Pincushions Using Self-Organized Honeycomb-Patterned Films. <i>Macromolecular Symposia</i> , <b>2009</b> , 279, 175-182	0.8	18
54	Multivariate curve resolution analysis on the multi-component water sorption process into a poly(2-methoxyethyl acrylate) film. <i>Applied Spectroscopy</i> , <b>2008</b> , 62, 46-50	3.1	16
53	Enhanced Cell Survival and Yield of Rat Small Hepatocytes by Honeycomb-Patterned Films. <i>Japanese Journal of Applied Physics</i> , <b>2008</b> , 47, 1429-1434	1.4	13
52	Structure of water incorporated in amphoteric polymer thin films as revealed by FT-IR spectroscopy. <i>Macromolecular Bioscience</i> , <b>2008</b> , 8, 77-85	5.5	30
51	Prevention of postoperative adhesions by a novel honeycomb-patterned poly(lactide) film in a rat experimental model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 86, 353-9	3.5	42
50	Effect of pore size of honeycomb films on the morphology, adhesion and cytoskeletal organization of cardiac myocytes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 313-314, 530-535	5.1	47
49	Effect of honeycomb-patterned structure on chondrocyte behavior in vitro. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 313-314, 520-525	5.1	22
48	Control of neural stem cell differentiation on honeycomb films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2008</b> , 313-314, 536-540	5.1	45
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46	Effect of honeycomb-patterned surface topography on the adhesion and signal transduction of porcine aortic endothelial cells. <i>Langmuir</i> , <b>2007</b> , 23, 8114-20	4	84
45	Time-resolved in situ ATR-IR observations of the process of sorption of water into a poly(2-methoxyethyl acrylate) film. <i>Langmuir</i> , <b>2007</b> , 23, 3750-61	4	144
44	Direct observation of interaction between proteins and blood-compatible polymer surfaces. <i>Biointerphases</i> , <b>2007</b> , 2, 119-25	1.8	21
43	Relationship between blood compatibility and water structure--comparative study between 2-methoxyethylacrylate- and 2-methoxyethylmethacrylate-based random copolymers. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2007</b> , 81, 710-9	5.4	14
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41	Honeycomb-like architecture produced by living bacteria, <i>Gluconacetobacter xylinus</i> . <i>Carbohydrate Polymers</i> , <b>2007</b> , 69, 1-6	10.3	57
40	Platelet adhesion to human umbilical vein endothelial cells cultured on anionic hydrogel scaffolds. <i>Biomaterials</i> , <b>2007</b> , 28, 1752-60	15.6	48
39	Effect of pore size of self-organized honeycomb-patterned polymer films on spreading, focal adhesion, proliferation, and function of endothelial cells. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 763-72	1.3	72

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37	Phase angle description of perturbation correlation analysis and its application to time-resolved infrared spectra. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 867-72	3.1	16
36	Stress Relaxation Measurement of Fibroblast Cells with Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , <b>2007</b> , 46, 5552-5555	1.4	20
35	Small-Diameter Porous Poly (?-Caprolactone) Films Enhance Adhesion and Growth of Human Cultured Epidermal Keratinocyte and Dermal Fibroblast Cells. <i>Tissue Engineering</i> , <b>2007</b> , 070117083633001		
34	Study on blood compatibility with poly(2-methoxyethylacrylate)--relationship between surface structure, water structure, and platelet compatibility in 2-methoxyethylacrylate/2-hydroxyethylmethacrylate diblock copolymer. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 76, 540-50	5.4	27
33	Relationship between Adsorbed Fibronectin and Cell Adhesion on a Honeycomb-patterned Film. <i>Hyomen Kagaku</i> , <b>2006</b> , 27, 502-510		1
32	Effect of honeycomb film on protein adsorption, cell adhesion and proliferation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 284-285, 548-551	5.1	51
31	Control of hepatocyte adhesion and function on self-organized honeycomb-patterned polymer film. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 284-285, 464-469	5.1	66
30	Topographical control of neurite extension on stripe-patterned polymer films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2006</b> , 284-285, 470-474	5.1	21
29	Biodegradable honeycomb-patterned film composed of poly(lactic acid) and dioleoylphosphatidylethanolamine. <i>Biomaterials</i> , <b>2006</b> , 27, 1797-802	15.6	110
28	Relationship between adsorbed fibronectin and cell adhesion on a honeycomb-patterned film. <i>Surface Science</i> , <b>2006</b> , 600, 3785-3791	1.8	49
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22	Morphological changes in neurons by self-organized patterned films. <i>E-Journal of Surface Science and Nanotechnology</i> , <b>2005</b> , 3, 159-164	0.7	49
21	Relationship between blood compatibility of polymer material and water structure in it. <i>Journal of Advanced Science</i> , <b>2005</b> , 17, 245-249	0	2

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