

Takamasa Sakai

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154
papers

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h-index

67
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167
ext. papers

5,559
ext. citations

5.3
avg, IF

5.78
L-index

#	Paper	IF	Citations
154	Design and Fabrication of a High-Strength Hydrogel with Ideally Homogeneous Network Structure from Tetrahedron-like Macromonomers. <i>Macromolecules</i> , 2008 , 41, 5379-5384	5.5	868
153	"Nonswellable" hydrogel without mechanical hysteresis. <i>Science</i> , 2014 , 343, 873-5	33.3	406
152	Structure Characterization of Tetra-PEG Gel by Small-Angle Neutron Scattering. <i>Macromolecules</i> , 2009 , 42, 1344-1351	5.5	212
151	SANS and SLS Studies on Tetra-Arm PEG Gels in As-Prepared and Swollen States. <i>Macromolecules</i> , 2009 , 42, 6245-6252	5.5	191
150	Transition between Phantom and Affine Network Model Observed in Polymer Gels with Controlled Network Structure. <i>Macromolecules</i> , 2013 , 46, 1035-1040	5.5	134
149	Connectivity and Structural Defects in Model Hydrogels: A Combined Proton NMR and Monte Carlo Simulation Study. <i>Macromolecules</i> , 2011 , 44, 9666-9674	5.5	129
148	Highly Elastic and Deformable Hydrogel Formed from Tetra-arm Polymers. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1954-9	4.8	117
147	Fast-forming hydrogel with ultralow polymeric content as an artificial vitreous body. <i>Nature Biomedical Engineering</i> , 2017 , 1,	19	113
146	Examination of the Theories of Rubber Elasticity Using an Ideal Polymer Network. <i>Macromolecules</i> , 2011 , 44, 5817-5821	5.5	111
145	High-performance ion gel with tetra-PEG network. <i>Soft Matter</i> , 2012 , 8, 1756-1759	3.6	109
144	Evaluation of Topological Defects in Tetra-PEG Gels. <i>Macromolecules</i> , 2010 , 43, 488-493	5.5	96
143	Yielding Criteria of Double Network Hydrogels. <i>Macromolecules</i> , 2016 , 49, 1865-1872	5.5	95
142	Synthesis and Fracture Process Analysis of Double Network Hydrogels with a Well-Defined First Network.. <i>ACS Macro Letters</i> , 2013 , 2, 518-521	6.6	79
141	Fracture energy of polymer gels with controlled network structures. <i>Journal of Chemical Physics</i> , 2013 , 139, 144905	3.9	78
140	Design of Hydrogels for Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2015 , 4, 2360-74	10.1	75
139	Kinetic Aspect on Gelation Mechanism of Tetra-PEG Hydrogel. <i>Macromolecules</i> , 2014 , 47, 3274-3281	5.5	63
138	Effect of swelling and deswelling on the elasticity of polymer networks in the dilute to semi-dilute region. <i>Soft Matter</i> , 2012 , 8, 2730	3.6	56

137	Precise Control and Prediction of Hydrogel Degradation Behavior. <i>Macromolecules</i> , 2011 , 44, 3567-3571	5.5	55
136	Evaluation of Gelation Kinetics of Tetra-PEG Gel. <i>Macromolecules</i> , 2010 , 43, 3935-3940	5.5	53
135	SANS Studies on Tetra-PEG Gel under Uniaxial Deformation. <i>Macromolecules</i> , 2011 , 44, 1203-1210	5.5	48
134	Dynamic Covalent Star Poly(ethylene glycol) Model Hydrogels: A New Platform for Mechanically Robust, Multifunctional Materials. <i>Macromolecules</i> , 2017 , 50, 2155-2164	5.5	47
133	Exploiting gradients in cross-link density to control the bending and self-propelled motion of active gels. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8360		47
132	Organized monolayer of thermosensitive microgel beads prepared by double-template polymerization. <i>Langmuir</i> , 2007 , 23, 8651-4	4	43
131	Non-Osmotic Hydrogels: A Rational Strategy for Safely Degradable Hydrogels. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9282-6	16.4	43
130	Reliable Hydrogel with Mechanical "Fuse Link" in an Aqueous Environment. <i>Advanced Materials</i> , 2015 , 27, 7407-11	24	42
129	Experimental verification of homogeneity in polymer gels. <i>Polymer Journal</i> , 2014 , 46, 517-523	2.7	42
128	Small-Angle Neutron Scattering Study on Defect-Controlled Polymer Networks. <i>Macromolecules</i> , 2014 , 47, 1801-1809	5.5	41
127	Network elasticity of a model hydrogel as a function of swelling ratio: from shrinking to extreme swelling states. <i>Soft Matter</i> , 2018 , 14, 9693-9701	3.6	41
126	Near-Model Amphiphilic Polymer Conetworks Based on Four-Arm Stars of Poly(vinylidene fluoride) and Poly(ethylene glycol): Synthesis and Characterization. <i>Macromolecules</i> , 2018 , 51, 2476-2488	5.5	40
125	Kinetic Study for AB-Type Coupling Reaction of Tetra-Arm Polymers. <i>Macromolecules</i> , 2012 , 45, 1031-1036	3.6	40
124	Autonomous viscosity oscillation by reversible complex formation of terpyridine-terminated poly(ethylene glycol) in the BZ reaction. <i>Soft Matter</i> , 2010 , 6, 6072	3.6	40
123	Enzymatic Synthesis of Cellulose Oligomer Hydrogels Composed of Crystalline Nanoribbon Networks under Macromolecular Crowding Conditions. <i>ACS Macro Letters</i> , 2017 , 6, 165-170	6.6	38
122	Gelation mechanism and mechanical properties of Tetra-PEG gel. <i>Reactive and Functional Polymers</i> , 2013 , 73, 898-903	4.6	38
121	Ultimate elongation of polymer gels with controlled network structure. <i>RSC Advances</i> , 2013 , 3, 13251	3.7	38
120	Nearly Ideal Polymer Network Ion Gel Prepared in pH-Buffering Ionic Liquid. <i>Macromolecules</i> , 2016 , 49, 344-352	5.5	37

119	Sol-gel transition behavior near critical concentration and connectivity. <i>Polymer Journal</i> , 2016 , 48, 629-634	3.4	35
118	Structural Analysis of High Performance Ion-Gel Comprising Tetra-PEG Network. <i>Macromolecules</i> , 2012 , 45, 3902-3909	5.5	35
117	Strain energy density function of a near-ideal polymer network estimated by biaxial deformation of Tetra-PEG gel. <i>Soft Matter</i> , 2012 , 8, 8217	3.6	35
116	Rubber elasticity for incomplete polymer networks. <i>Journal of Chemical Physics</i> , 2012 , 137, 224903	3.9	34
115	High-performance gel electrolytes with tetra-armed polymer network for Li ion batteries. <i>Journal of Power Sources</i> , 2015 , 286, 470-474	8.9	33
114	Mechanical properties of a polymer network of Tetra-PEG gel. <i>Polymer Journal</i> , 2013 , 45, 300-306	2.7	32
113	Carbon Dioxide Separation Using a High-toughness Ion Gel with a Tetra-armed Polymer Network. <i>Chemistry Letters</i> , 2015 , 44, 17-19	1.7	30
112	Design of novel biomimetic polymer gels with self-oscillating function. <i>Science and Technology of Advanced Materials</i> , 2002 , 3, 95-102	7.1	30
111	Silk Resin with Hydrated Dual Chemical-Physical Cross-Links Achieves High Strength and Toughness. <i>Biomacromolecules</i> , 2017 , 18, 1937-1946	6.9	29
110	Fabrication and Structural Characterization of Module-Assembled Amphiphilic Conetwork Gels. <i>Macromolecules</i> , 2016 , 49, 4940-4947	5.5	29
109	Precision polymer network science with tetra-PEG gels—decade history and future. <i>Colloid and Polymer Science</i> , 2019 , 297, 1-12	2.4	29
108	Anomalous volume phase transition in a polymer gel with alternative hydrophilic—amphiphilic sequence. <i>Soft Matter</i> , 2012 , 8, 6876	3.6	28
107	Solvation Structure of Poly(ethylene glycol) in Ionic Liquids Studied by High-energy X-ray Diffraction and Molecular Dynamics Simulations. <i>Macromolecules</i> , 2013 , 46, 2369-2375	5.5	28
106	Mechanical Properties of Polymer Gels with Bimodal Distribution in Strand Length. <i>Macromolecules</i> , 2013 , 46, 7027-7033	5.5	27
105	Experimental verification of fracture mechanism for polymer gels with controlled network structure. <i>Soft Matter</i> , 2014 , 10, 6658-65	3.6	26
104	Gels: From Soft Matter to BioMatter. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1121-1128	3.9	25
103	Experimental Observation of Two Features Unexpected from the Classical Theories of Rubber Elasticity. <i>Physical Review Letters</i> , 2017 , 119, 267801	7.4	25
102	Microscopic Structure of the Nonswellable Thermoresponsive Amphiphilic Conetwork. <i>Macromolecules</i> , 2017 , 50, 3388-3395	5.5	24

101	Multiscale Dynamics of Inhomogeneity-Free Polymer Gels. <i>Macromolecules</i> , 2014 , 47, 763-770	5.5	24
100	Fracture Process of Double-Network Gels by Coarse-Grained Molecular Dynamics Simulation. <i>Macromolecules</i> , 2018 , 51, 3075-3087	5.5	23
99	Mechanical properties of tetra-PEG gels with supercoiled network structure. <i>Journal of Chemical Physics</i> , 2014 , 140, 074902	3.9	23
98	Enzyme-Catalyzed Bottom-Up Synthesis of Mechanically and Physicochemically Stable Cellulose Hydrogels for Spatial Immobilization of Functional Colloidal Particles. <i>Biomacromolecules</i> , 2018 , 19, 1269-1275	6.9	21
97	Degradation Behavior of Polymer Gels Caused by Nonspecific Cleavages of Network Strands. <i>Chemistry of Materials</i> , 2014 , 26, 5352-5357	9.6	21
96	Electrophoretic Mobility of Double-Stranded DNA in Polymer Solutions and Gels with Tuned Structures. <i>Macromolecules</i> , 2014 , 47, 3582-3586	5.5	21
95	Permeation of Water through Hydrogels with Controlled Network Structure. <i>Macromolecules</i> , 2017 , 50, 9411-9416	5.5	19
94	Structure-property relationship of a model network containing solvent. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 608-621	7.1	18
93	Probe Diffusion of Sol-Gel Transition in an Isorefractive Polymer Solution. <i>Macromolecules</i> , 2017 , 50, 2916-2922	5.5	17
92	An ionic liquid gel with ultralow concentrations of tetra-arm polymers: Gelation kinetics and mechanical and ion-conducting properties. <i>Polymer</i> , 2019 , 166, 38-43	3.9	17
91	Rubber elasticity for percolation network consisting of Gaussian chains. <i>Journal of Chemical Physics</i> , 2015 , 143, 184905	3.9	17
90	Migration Behavior of Rodlike dsDNA under Electric Field in Homogeneous Polymer Networks. <i>Macromolecules</i> , 2013 , 46, 8657-8663	5.5	17
89	Brønsted Basicity of Solute Butylamine in an Aprotic Ionic Liquid Investigated by Potentiometric Titration. <i>Chemistry Letters</i> , 2013 , 42, 1250-1251	1.7	16
88	Photoregulated Wormlike Motion of a Gel. <i>Angewandte Chemie</i> , 2008 , 120, 9179-9183	3.6	16
87	Connectivity dependence of gelation and elasticity in AB-type polymerization: an experimental comparison of the dynamic process and stoichiometrically imbalanced mixing. <i>Soft Matter</i> , 2019 , 15, 5017-5025	3.6	15
86	A computer simulation of the networked structure of a hydrogel prepared from a tetra-armed star pre-polymer. <i>Soft Matter</i> , 2014 , 10, 3553-9	3.6	15
85	Gelation mechanism of tetra-armed poly(ethylene glycol) in aprotic ionic liquid containing nonvolatile proton source, protic ionic liquid. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 4795-801	3.4	14
84	Shrinking Kinetics of Polymer Gels with Alternating Hydrophilic/Thermoresponsive Prepolymer Units. <i>Macromolecules</i> , 2013 , 46, 4114-4119	5.5	14

83	Structure and physical properties of dried Tetra-PEG gel. <i>Polymer</i> , 2011 , 52, 4123-4128	3.9	14
82	Diffusion Behavior of Water Molecules in Hydrogels with Controlled Network Structure. <i>Macromolecules</i> , 2019 , 52, 1923-1929	5.5	14
81	SANS Study on Critical Polymer Clusters of Tetra-Functional Polymers. <i>Macromolecules</i> , 2017 , 50, 3655-3661	3.9	13
80	Defect-free network formation and swelling behavior in ionic liquid-based electrolytes of tetra-arm polymers synthesized using a Michael addition reaction. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29984-29990	3.6	13
79	Implementation of tetra-poly(ethylene glycol) hydrogel with high mechanical strength into microfluidic device technology. <i>Biomicrofluidics</i> , 2013 , 7, 54109	3.2	13
78	Slope-Dependent Cell Motility Enhancements at the Walls of PEG-Hydrogel Microgroove Structures. <i>Langmuir</i> , 2015 , 31, 10215-22	4	12
77	Probing the cross-effect of strains in non-linear elasticity of nearly regular polymer networks by pure shear deformation. <i>Journal of Chemical Physics</i> , 2015 , 142, 174908	3.9	12
76	Chemoenzymatic synthesis of polypeptides consisting of periodic di- and tri-peptide motifs similar to elastin. <i>Polymer Chemistry</i> , 2018 , 9, 2336-2344	4.9	12
75	Effect of Swelling and Deswelling on Mechanical Properties of Polymer Gels. <i>Macromolecular Symposia</i> , 2015 , 358, 128-139	0.8	12
74	Swelling Behaviors of Hydrogels with Alternating Neutral/Highly Charged Sequences. <i>Macromolecules</i> , 2020 , 53, 8244-8254	5.5	12
73	Insight into the Microscopic Structure of Module-Assembled Thermoresponsive Conetwork Hydrogels. <i>Macromolecules</i> , 2018 , 51, 6645-6652	5.5	11
72	Three cooperative diffusion coefficients describing dynamics of polymer gels. <i>Chemical Communications</i> , 2018 , 54, 6784-6787	5.8	10
71	Effect of prepolymer architecture on the network structure formed by AB-type crosslink-coupling. <i>Polymer Journal</i> , 2014 , 46, 14-20	2.7	10
70	Phase Transition Behaviors of Self-Oscillating Polymer and Nano-Gel Particles. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1140-1144	4.8	10
69	Association Behavior of Poly(ethylene oxide)-Poly(propylene oxide) Alternating Multiblock Copolymers in Water toward Thermally Induced Phase Separation. <i>Langmuir</i> , 2017 , 33, 14649-14656	4	9
68	Non-Osmotic Hydrogels: A Rational Strategy for Safely Degradable Hydrogels. <i>Angewandte Chemie</i> , 2016 , 128, 9428-9432	3.6	9
67	New design of hydrogels with tuned electro-osmosis: a potential model system to understand electro-kinetic transport in biological tissues. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4526-4534	7.3	8
66	Relationship between Bulk Physicochemical Properties and Surface Wettability of Hydrogels with Homogeneous Network Structure. <i>Langmuir</i> , 2020 , 36, 5554-5562	4	8

65	Electrophoretic mobility of semi-flexible double-stranded DNA in defect-controlled polymer networks: Mechanism investigation and role of structural parameters. <i>Journal of Chemical Physics</i> , 2015 , 142, 234904	3.9	8
64	Self-Flocculating/Self-Dispersing Oscillation of Microgels. <i>Angewandte Chemie</i> , 2008 , 120, 931-934	3.6	8
63	Universal Equation of State Describes Osmotic Pressure throughout Gelation Process. <i>Physical Review Letters</i> , 2020 , 125, 267801	7.4	8
62	Cluster growth from a dilute system in a percolation process. <i>Polymer Journal</i> , 2020 , 52, 289-297	2.7	8
61	Dynamics of Critical Clusters Synthesized by End-Coupling of Four-Armed Poly(ethylene glycol)s. <i>Macromolecules</i> , 2019 , 52, 5086-5094	5.5	7
60	Shear Modulus Dependence of the Diffusion Coefficient of a Polymer Network. <i>Macromolecules</i> , 2019 , 52, 9613-9619	5.5	7
59	TetraPEG Network Formation via a Michael Addition Reaction in an Ionic Liquid: Application to Polymer Gel Electrolyte for Electric Double-layer Capacitors. <i>Chemistry Letters</i> , 2019 , 48, 704-707	1.7	6
58	Kinetics-dominated structure and stimuli-responsiveness in the assembly of colloidal nanotubes. <i>RSC Advances</i> , 2016 , 6, 52950-52956	3.7	6
57	Characterization of a self-oscillating polymer with periodic soluble-insoluble changes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1578-1588	2.6	6
56	Anodic oxides on gallium phosphide for optoelectronic device and processing applications. <i>Journal of Applied Physics</i> , 1978 , 49, 4459-4464	2.5	6
55	Electrochemical Properties of a TetraPEG-based Gel Electrolyte Containing a Nonflammable Fluorinated Alkyl Phosphate for Safer Lithium-ion Batteries. <i>Chemistry Letters</i> , 2018 , 47, 909-912	1.7	6
54	A Biomechanical Comparison of Three Miniature Locking Plate Systems in a Rabbit Radial and Ulnar Fracture Model. <i>Veterinary and Comparative Orthopaedics and Traumatology</i> , 2019 , 32, 297-304	1.2	5
53	Dilution Effect on the Cluster Growth near the Gelation Threshold. <i>Nihon Reoroji Gakkaishi</i> , 2019 , 47, 61-66	0.8	5
52	Linear elasticity of polymer gels in terms of negative energy elasticity. <i>Polymer Journal</i> ,	2.7	5
51	Surgical sealants with tunable swelling, burst pressures, and biodegradation rates. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 1602-1611	3.5	4
50	Mechanical Regulation Underlies Effects of Exercise on Serotonin-Induced Signaling in the Prefrontal Cortex Neurons. <i>iScience</i> , 2020 , 23, 100874	6.1	4
49	Mixing and Elastic Contributions to the Diffusion Coefficient of Polymer Networks. <i>Macromolecules</i> , 2020 , 53, 7717-7725	5.5	4
48	Effect of Nonlinear Elasticity on the Swelling Behaviors of Highly Swollen Polyelectrolyte Gels. <i>Gels</i> , 2021 , 7,	4.2	4

47	Mechanical properties of doubly crosslinked gels. <i>Polymer Journal</i> , 2019 , 51, 851-859	2.7	3
46	Supercoiling transformation of chemical gels. <i>Soft Matter</i> , 2015 , 11, 7101-8	3.6	3
45	Biomaterials: Design of Hydrogels for Biomedical Applications (Adv. Healthcare Mater. 16/2015). <i>Advanced Healthcare Materials</i> , 2015 , 4, 2598-2598	10.1	3
44	Synchronization of Self-Oscillation in Polymer Chains and the Cross-Linked Network. <i>ACS Symposium Series</i> , 2003 , 30-43	0.4	3
43	Dynamics of thermoresponsive conetwork gels composed of poly(ethylene glycol) and poly(ethyl glycidyl ether-co-methyl glycidyl ether). <i>Polymer</i> , 2018 , 155, 75-82	3.9	3
42	Definition of Polymer Gels and Rubber Elasticity 2020 , 45-75		2
41	Mass Transport in Polymer Gels 2020 , 137-150		2
40	Preparation and characterization of a nanofiber mat consisting of Tetra-PEG prepolymers. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	2
39	Relationships between Mechanical Properties of Polymer Gels and Polymer Volume Fractions at Preparation and at Interested State. <i>Nihon Reoroji Gakkaishi</i> , 2014 , 42, 97-102	0.8	2
38	Star-Polymer-DNA Gels Showing Highly Predictable and Tunable Mechanical Responses.. <i>Advanced Materials</i> , 2022 , e2108818	24	2
37	Similarity in Linear Viscoelastic Behaviors of Network Formation and Degradation Processes. <i>Nihon Reoroji Gakkaishi</i> , 2020 , 48, 191-198	0.8	2
36	Negative Energy Elasticity in a Rubberlike Gel. <i>Physical Review X</i> , 2021 , 11,	9.1	2
35	On-demand retrieval of cells three-dimensionally seeded in injectable thioester-based hydrogels.. <i>RSC Advances</i> , 2021 , 11, 23637-23643	3.7	2
34	Molecular crystallization directed by polymer size and overlap under dilute and crowded macromolecular conditions. <i>Polymer Journal</i> , 2021 , 53, 633-642	2.7	2
33	Robust Suture Combination for Rat Flexor Tendon Repair Model.. <i>Journal of Hand Surgery Global Online</i> , 2020 , 2, 354-358	0.6	1
32	Tetra Gel as a Near-Ideal Polymer Network 2020 , 151-159		1
31	Swelling and Deswelling 2020 , 77-107		1
30	Hydrogels: Reliable Hydrogel with Mechanical Fuse Link in an Aqueous Environment (Adv. Mater. 45/2015). <i>Advanced Materials</i> , 2015 , 27, 7250-7250	24	1

29	Temperature Dependence of Polymer Network Diffusion.. <i>Physical Review Letters</i> , 2021 , 127, 237801	7.4	1
28	Gelation Process and Mechanical Properties of Polymer Gels with Well-Defined Network Structure. <i>Nihon Reoroji Gakkaishi</i> , 2019 , 47, 183-195	0.8	1
27	Ability of Nonswelling Polyethylene Glycol-Based Vitreous Hydrogel to Maintain Transparency in the Presence of Vitreous Hemorrhage. <i>Translational Vision Science and Technology</i> , 2019 , 8, 33	3.3	1
26	The feasibility of a novel injectable hydrogel for protecting artificial gastrointestinal ulcers after endoscopic resection: an animal pilot study. <i>Scientific Reports</i> , 2021 , 11, 18508	4.9	1
25	Osmotic Pressure 2020 , 235-240		1
24	Tri-branched gels: Rubbery materials with the lowest branching factor approach the ideal elastic limit.. <i>Science Advances</i> , 2022 , 8, eabk0010	14.3	1
23	Experimental Comparison of Bond Lifetime and Viscoelastic Relaxation in Transient Networks with Well-Controlled Structures.. <i>ACS Macro Letters</i> , 2022 , 753-759	6.6	1
22	Swelling 2020 , 241-247		0
21	Co-lyophilized Aspirin with Trehalose Causes Less Injury to Human Gastric Cells and Gastric Mucosa of Rats. <i>Digestive Diseases and Sciences</i> , 2016 , 61, 2242-2251	4	0
20	Molecular Technology for Degradable Synthetic Hydrogels for Biomaterials 2019 , 203-218		
19	Structural Analysis by Light and Neutron Scattering 2020 , 173-178		
18	Fracture 2020 , 205-211		
17	Mass Transport 2020 , 213-234		
16	Degradation 2020 , 249-259		
15	Deformation and Fracture 2020 , 109-136		
14	Sol-Gel Transition 2020 , 161-171		
13	Elastic Modulus 2020 , 179-182		
12	Large Deformation 2020 , 183-204		

- 11 Polymer Solution **2020**, 23-43
- 10 Single Polymer Chain **2020**, 1-22
- 9 Control Over Swelling of Injectable Gel **2020**, 261-276
- 8 Correlation Between the Physical Properties and Structure of Tetra-PEG Gels. *Nippon Gomu Kyokaishi*, **2014**, 87, 89-95 ○
- 7 Back Cover: Macromol. Biosci. 6/2014. *Macromolecular Bioscience*, **2014**, 14, 900-900 5.5
- 6 Investigation of migration behavior of rod-like dsDNA in gel with precisely controlled network structure. *Materials Research Society Symposia Proceedings*, **2014**, 1622, 169-174
- 5 Mechanical properties of polymer gels with bimodal distribution in strand length. *Materials Research Society Symposia Proceedings*, **2014**, 1622, 31-36
- 4 Structure and Properties of High Performance Gels Made by Module Assembling Method. *Materials Research Society Symposia Proceedings*, **2012**, 1418, 99
- 3 Preparation of Spatio-temporal Functional Surface using Self-oscillating Gel. *Hyomen Kagaku*, **2007**, 28, 647-652
- 2 Injectable hydrogel with Controlled Swelling Behavior in vivo. *Drug Delivery System*, **2019**, 34, 186-200 ○
- 1 Non-swellability of polyelectrolyte gel in divalent salt solution due to aggregation formation. *Polymer*, **2022**, 250, 124894 3.9