

Yoshihito Osada

List of Publications by Year in descending order

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79
papers

5,409
citations

136885

32
h-index

79644

73
g-index

80
all docs

80
docs citations

80
times ranked

3984
citing authors

#	ARTICLE	IF	CITATIONS
1	A polymer gel with electrically driven motility. <i>Nature</i> , 1992, 355, 242-244.	13.7	1,259
2	Soft and Wet Materials: Polymer Gels. <i>Advanced Materials</i> , 1998, 10, 827-837.	11.1	519
3	Shape memory in hydrogels. <i>Nature</i> , 1995, 376, 219-219.	13.7	430
4	Intelligent Gels. <i>Scientific American</i> , 1993, 268, 82-87.	1.0	354
5	Synthesis of Hydrogels with Extremely Low Surface Friction. <i>Journal of the American Chemical Society</i> , 2001, 123, 5582-5583.	6.6	229
6	Formation of interpolymer complexes. <i>Journal of Macromolecular Science - Physics</i> , 1980, 17, 683-714.	0.4	193
7	Gel friction: A model based on surface repulsion and adsorption. <i>Journal of Chemical Physics</i> , 1998, 109, 8062-8068.	1.2	157
8	Equilibrium study of polymer-polymer complexation of poly(methacrylic acid) and poly(acrylic acid) with complementary polymers through cooperative hydrogen bonding. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1979, 17, 3485-3498.	0.8	152
9	Friction of Gels. 3. Friction on Solid Surfaces. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6001-6006.	1.2	140
10	Friction of Gels. 4. Friction on Charged Gels. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6007-6014.	1.2	134
11	Friction of Gels. <i>Journal of Physical Chemistry B</i> , 1997, 101, 5487-5489.	1.2	132
12	Thermal equilibrium of the intermacromolecular complexes of polycarboxylic acids realized by cooperative hydrogen bonding. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1976, 14, 129-134.	0.4	109
13	Surface Friction of Hydrogels with Well-Defined Polyelectrolyte Brushes. <i>Langmuir</i> , 2004, 20, 6549-6555.	1.6	75
14	Ring-Shaped Assembly of Microtubules Shows Preferential Counterclockwise Motion. <i>Biomacromolecules</i> , 2008, 9, 2277-2282.	2.6	68
15	Water and protein permeation through polymeric membrane having mechanochemically expanding and contracting pores. Function of chemical valve. I. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1981, 19, 303-308.	0.4	63
16	Preparation and electrical properties of polymeric copper phthalocyanine thin films by plasma polymerization. <i>Journal of Applied Physics</i> , 1986, 59, 1776-1779.	1.1	61
17	Effect of Charge on Protein Diffusion in Hydrogels. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9898-9903.	1.2	59
18	Solvent-driven chemical motor. <i>Applied Physics Letters</i> , 1998, 73, 2366-2368.	1.5	55

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19	Heterogeneous Polymerization of Hydrogels on Hydrophobic Substrate. <i>Journal of Physical Chemistry B</i> , 2001, 105, 4565-4571.	1.2	54
20	Controlled Motion of Solvent-Driven Gel Motor and Its Application as a Generator. <i>Langmuir</i> , 2000, 16, 307-312.	1.6	53
21	Soft and wet touch-sensing system made of hydrogel. <i>Macromolecular Rapid Communications</i> , 1995, 16, 713-716.	2.0	49
22	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1975, 176, 2761-2764.	1.1	47
23	Chemical valves and gel actuators. <i>Advanced Materials</i> , 1991, 3, 107-108.	11.1	46
24	Mechanically tough double-network hydrogels with high electronic conductivity. <i>Journal of Materials Chemistry C</i> , 2014, 2, 736-743.	2.7	41
25	Effects and Role of the Solvents on the Plasma-Initiated Solution Polymerization of Vinyl Monomers. <i>Polymer Journal</i> , 1983, 15, 81-86.	1.3	39
26	Investigation of Molecular Diffusion in Hydrogel by Electronic Speckle Pattern Interferometry. <i>Journal of Physical Chemistry B</i> , 1999, 103, 6069-6074.	1.2	37
27	Hydrothermal contraction—dilation of polymer networks by reversible complexation with a complementary macromolecule. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1977, 15, 255-267.	0.8	35
28	Selective Formation of a Linear-Shaped Bundle of Microtubules. <i>Langmuir</i> , 2010, 26, 533-537.	1.6	35
29	Electro–conductive double–network hydrogels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012, 50, 790-796.	2.4	35
30	Effects of polymers and their chain lengths on the contraction of poly(methacrylic acid) network. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1980, 18, 281-286.	0.4	34
31	Growth of Large Polymer–Actin Complexes. <i>Bioconjugate Chemistry</i> , 2003, 14, 1185-1190.	1.8	34
32	Polymerization of phosphazene crystal by plasma-exposure. <i>Nature</i> , 1980, 286, 693-694.	13.7	32
33	Effect of Aspect Ratio on Protein Diffusion in Hydrogels. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9904-9908.	1.2	32
34	Self-Repairing Filamentous Actin Hydrogel with Hierarchical Structure. <i>Biomacromolecules</i> , 2011, 12, 4173-4177.	2.6	32
35	Substrate Effects of Gel Surfaces on Cell Adhesion and Disruption. <i>Biomacromolecules</i> , 2000, 1, 162-167.	2.6	31
36	Dynamic self-organization and polymorphism of microtubule assembly through active interactions with kinesin. <i>Soft Matter</i> , 2011, 7, 5654.	1.2	30

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37	Thermoresponsive Microtubule Hydrogel with High Hierarchical Structure. <i>Biomacromolecules</i> , 2011, 12, 1409-1413.	2.6	30
38	Photovoltaic and Catalytic Activity of Plasma-Polymerized Phthalocyanine Films. <i>Journal of Macromolecular Science Part A, Chemistry</i> , 1987, 24, 403-418.	0.4	29
39	Formation of Well-Oriented Microtubules with Preferential Polarity in a Confined Space under a Temperature Gradient. <i>Journal of the American Chemical Society</i> , 2009, 131, 18089-18095.	6.6	29
40	Microtubule bundle formation driven by ATP: the effect of concentrations of kinesin, streptavidin and microtubules. <i>Nanotechnology</i> , 2010, 21, 145603.	1.3	29
41	Protein and Sugar Separation by Mechanochemical Membrane Having "Chemical Valve" Function. <i>Polymer Journal</i> , 1983, 15, 279-284.	1.3	28
42	Preparation of polymeric metal-tetracyanoquinodimethane film and its bistable switching. <i>Applied Physics Letters</i> , 1992, 61, 2787-2789.	1.5	28
43	Nanopattern Fabrication of Gold on Hydrogels and Application to Tunable Photonic Crystal. <i>Advanced Materials</i> , 2012, 24, 5243-5248.	11.1	28
44	Anomalous chemomechanical characteristics of electro-activated polyelectrolyte gels. <i>Journal of Polymer Science, Part C: Polymer Letters</i> , 1987, 25, 481-485.	0.7	27
45	Anisotropic Nucleation Growth of Actin Bundle: A Model for Determining the Well-Defined Thickness of Bundles. <i>Biochemistry</i> , 2006, 45, 10313-10318.	1.2	25
46	Oscillation of electrical current in water-swollen polyelectrolyte gels. <i>Die Makromolekulare Chemie</i> , 1988, 189, 597-605.	1.1	22
47	Plasma-polymerized organosiloxane membranes prepared by simultaneous doping of I2 molecules and the effect on liquid permeability. <i>Journal of Polymer Science: Polymer Chemistry Edition</i> , 1985, 23, 2425-2439.	0.8	17
48	Interaction of plasma-polymerized poly(organosiloxane) films with platelets. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1985, 6, 495-502.	1.1	17
49	Polarity and Motility of Large Polymer-Actin Complexes. <i>Biomacromolecules</i> , 2005, 6, 845-849.	2.6	16
50	Actin Network Formation by Unidirectional Polycation Diffusion. <i>Langmuir</i> , 2007, 23, 6257-6262.	1.6	16
51	Plasma-initiated emulsion polymerization of alkyl acrylates and methacrylates. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1983, 21, 643-648.	0.4	15
52	Presence of Electrostatic Potential Wells in the Ionic Polymer Network. <i>Chemistry Letters</i> , 1995, 24, 449-450.	0.7	15
53	How to Integrate Biological Motors towards Bio-Actuators Fueled by ATP. <i>Macromolecular Bioscience</i> , 2011, 11, 1314-1324.	2.1	15
54	Title is missing!. <i>Die Makromolekulare Chemie</i> , 1975, 176, 1893-1896.	1.1	14

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55	Title is missing!. Die Makromolekulare Chemie Rapid Communications, 1981, 2, 411-415.	1.1	13
56	Microtubule teardrop patterns. Scientific Reports, 2015, 5, 9581.	1.6	13
57	Plasma-exposed polymerization of cyclic organosiloxanes in the condensed phase. Journal of Polymer Science, Polymer Letters Edition, 1981, 19, 369-374.	0.4	10
58	Chemically cross-linked microtubule assembly shows enhanced dynamic motions on kinesins. RSC Advances, 2014, 4, 32953.	1.7	10
59	Thermo- and photo-enhanced microtubule formation from Ru(bpy) ₃ ²⁺ -conjugated tubulin. Journal of Materials Chemistry B, 2014, 2, 41-45.	2.9	10
60	Effect of microtubule polymerization on photoinduced hydrogen generation. Chemical Communications, 2015, 51, 11607-11610.	2.2	9
61	Mechanism on Polarity Sorting of Actin Bundles Formed with Polycations. Langmuir, 2009, 25, 1554-1557.	1.6	7
62	Noncationic Rigid and Anisotropic Coiled-Coil Proteins Exhibit Cell-Penetration Activity. Langmuir, 2015, 31, 8218-8223.	1.6	6
63	Radical polymerization reactivities of methacrylic acid coordinated to cobalt(III) complexes. Die Makromolekulare Chemie, 1976, 177, 1259-1271.	1.1	5
64	Title is missing!. Die Makromolekulare Chemie, 1976, 177, 2209-2213.	1.1	5
65	ATP-fueled soft gel machine with well-oriented structure constructed using actin-myosin system. Journal of Applied Polymer Science, 2009, 114, 2087-2092.	1.3	5
66	Design of Polymer Networks Involving a Photoinduced Electronic Transmission Circuit toward Artificial Photosynthesis. Langmuir, 2016, 32, 626-631.	1.6	5
67	Effects of polymeric cations and their gels on aspirin hydrolysis. Die Makromolekulare Chemie, 1979, 180, 1617-1621.	1.1	4
68	Characterization of Crystalline Poly(trioxane) and Poly(tetraoxane) Obtained through Plasma-Initiated Polymerization. ACS Symposium Series, 1979, , 263-274.	0.5	4
69	Title is missing!. Die Makromolekulare Chemie, 1976, 177, 1273-1282.	1.1	3
70	Intrahelical Interactions in an $\hat{\pm}$ -Helical Coiled Coil Determine the Structural Stability of Tropomyosin. Biochemistry, 2020, 59, 2194-2202.	1.2	3
71	Efficient Cellular Protein Transduction Using a Coiled-coil Protein Carrier. Chemistry Letters, 2017, 46, 719-721.	0.7	2
72	Polymer gels as artificial soft tissue. Polymer Science - Series C, 2017, 59, 3-10.	0.8	2

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73	Intelligent gels “ artificial soft tissue for the next era. Polymer International, 2022, 71, 616-629.	1.6	2
74	Novel Polymerizations Initiated by Plasma Exposure. Journal of Fiber Science and Technology, 1981, 37, P243-P251.	0.0	2
75	Biomimetic Functions of Synthetic Polymer Gels. , 2016, , 73-79.		1
76	Patterning: Nanopattern Fabrication of Gold on Hydrogels and Application to Tunable Photonic Crystal (Adv. Mater. 38/2012). Advanced Materials, 2012, 24, 5242-5242.	11.1	0
77	Effect of Microtubules Hierarchy on Photoinduced Hydrogen Generation and Application to Artificial Photosynthesis. Materials Research Society Symposia Proceedings, 2014, 1621, 229-233.	0.1	0
78	Microtubule Gel. , 2016, , 35-58.		0
79	Employing Cytoskeletal Treadmilling in Bio-actuators. , 2019, , 711-722.		0