Taichi Ito

List of Publications by Citations

82 papers	2,894 citations	25 h-index	53 g-index
86 ext. papers	3,252 ext. citations	6.1 avg, IF	4.8 L-index

#	Paper	IF	Citations
82	Toward a protein-protein interaction map of the budding yeast: A comprehensive system to examine two-hybrid interactions in all possible combinations between the yeast proteins. *Proceedings of the National Academy of Sciences of the United States of America*, **2000**, 97, 1143-7	11.5	662
81	The prevention of peritoneal adhesions by in situ cross-linking hydrogels of hyaluronic acid and cellulose derivatives. *Biomaterials*, **2007**, 28, 975-83	15.6	212
80	In situ cross-linkable hyaluronic acid hydrogels prevent post-operative abdominal adhesions in a rabbit model. *Biomaterials*, **2006**, 27, 4698-705	15.6	181
79	Development of a molecular recognition ion gating membrane and estimation of its pore size control. *Journal of the American Chemical Society*, **2002**, 124, 7840-6	16.4	175
78	Fluorescent differential display: arbitrarily primed RT-PCR fingerprinting on an automated DNA sequencer. *FEBS Letters*, **1994**, 351, 231-6	3.8	149
77	Dextran-based in situ cross-linked injectable hydrogels to prevent peritoneal adhesions. *Biomaterials*, **2007**, 28, 3418-26	15.6	112
76	Identification of SWI.SNF complex subunit BAF60a as a determinant of the transactivation potential of Fos/Jun dimers. *Journal of Biological Chemistry*, **2001**, 276, 2852-7	5.4	112
75	Anti-inflammatory function of an in situ cross-linkable conjugate hydrogel of hyaluronic acid and dexamethasone. *Biomaterials*, **2007**, 28, 1778-86	15.6	103
74	Injectable Hydrogel with Slow Degradability Composed of Gelatin and Hyaluronic Acid Cross-Linked by Schiff's Base Formation. *Biomacromolecules*, **2018**, 19, 288-297	6.9	99
73	In situ cross-linkable hydrogel of hyaluronan produced via copper-free click chemistry. *Biomacromolecules*, **2013**, 14, 3581-8	6.9	92
72	In situ cross-linkable hyaluronan hydrogels containing polymeric nanoparticles for preventing postsurgical adhesions. *Annals of Surgery*, **2007**, 245, 819-24	7.8	77
71	Osmotic pressure control in response to a specific ion signal at physiological temperature using a molecular recognition ion gating membrane. *Journal of the American Chemical Society*, **2004**, 126, 6202-3	16.4	66
70	Controlled release of model drugs through a molecular recognition ion gating membrane in response to a specific ion signal. *Langmuir*, **2006**, 22, 3945-9	4	64
69	Formation of two-dimensional electron gas and the magnetotransport behavior of ZnMnO/ZnO heterostructure. *Journal of Applied Physics*, **2003**, 93, 7673-7675	2.5	51
68	Intraperitoneal administration of cisplatin via an in situ cross-linkable hyaluronic acid-based hydrogel for peritoneal dissemination of gastric cancer. *Surgery Today*, **2014**, 44, 919-26	3	45
67	Preparation of monodisperse chitosan microcapsules with hollow structures using the SPG membrane emulsification technique. *Langmuir*, **2010**, 26, 14854-60	4	42
66	An SH3 domain-mediated interaction between the phagocyte NADPH oxidase factors p40phox and p47phox. *FEBS Letters*, **1996**, 385, 229-32	3.8	42

65	Nonlinear self-excited oscillation of a synthetic ion-channel-inspired membrane. *Angewandte Chemie - International Edition*, **2006**, 45, 5630-3	16.4	40
64	Development of carboxymethyl cellulose nonwoven sheet as a novel hemostatic agent. *Journal of Bioscience and Bioengineering*, **2015**, 119, 718-23	3.3	38
63	Rapid engineering of endothelial cell-lined vascular-like structures in in situ crosslinkable hydrogels. *Biofabrication*, **2014**, 6, 025006	10.5	35
62	Cross-Linkable Gelatin-CMC Hydrogels Designed for Rapid Engineering of Perfusable Vasculatures. *ACS Biomaterials Science and Engineering*, **2016**, 2, 1059-1066	5.5	34
61	Production of Cisplatin-Incorporating Hyaluronan Nanogels via Chelating Ligand-Metal Coordination. *Bioconjugate Chemistry*, **2016**, 27, 504-8	6.3	33
60	Injectable Hemostat Composed of a Polyphosphate-Conjugated Hyaluronan Hydrogel. *Biomacromolecules*, **2018**, 19, 3280-3290	6.9	33
59	Enhancing osteogenic differentiation of MC3T3-E1 cells by immobilizing inorganic polyphosphate onto hyaluronic acid hydrogel. *Biomacromolecules*, **2015**, 16, 166-73	6.9	31
58	Investigating the optimum size of nanoparticles for their delivery into the brain assisted by focused ultrasound-induced blood-brain barrier opening. *Scientific Reports*, **2020**, 10, 18220	4.9	30
57	New hepatectomy-induced postoperative adhesion model in rats, and evaluation of the efficacy of anti-adhesion materials. *Surgery Today*, **2014**, 44, 314-23	3	24
56	Intraperitoneal Delivery of Cisplatin via a Hyaluronan-Based Nanogel/in Situ Cross-Linkable Hydrogel Hybrid System for Peritoneal Dissemination of Gastric Cancer. *Molecular Pharmaceutics*, **2017**, 14, 3105-3113	5.6	22
55	Preparation of uniform-sized hemoglobin-albumin microspheres as oxygen carriers by Shirasu porous glass membrane emulsification technique. *Colloids and Surfaces B: Biointerfaces*, **2015**, 127, 1-7	6	22
54	Fabrication of calcium phosphate-loaded carboxymethyl cellulose non-woven sheets for bone regeneration. *Carbohydrate Polymers*, **2018**, 189, 322-330	10.3	21
53	A biocompatible calcium salt of hyaluronic acid grafted with polyacrylic acid. *Carbohydrate Polymers* , **2015**, 117, 43-53	10.3	20
52	The Effect of Methanol Crossover on the Cathode Overpotential of DMFCs. *Fuel Cells*, **2011**, 11, 394-403	2.9	19
51	Biocompatible Star Block Copolymer Hydrogel Cross-linked with Calcium Ions. *ACS Biomaterials Science and Engineering*, **2015**, 1, 914-918	5.5	16
50	Advancement of Biomaterial-Based Postoperative Adhesion Barriers. *Macromolecular Bioscience*, **2021**, 21, e2000395	5.5	16
49	Size-Controlled Preparation of Microsized Perfluorocarbon Emulsions as Oxygen Carriers via the Shirasu Porous Glass Membrane Emulsification Technique. *Langmuir*, **2019**, 35, 4094-4100	4	13
48	Electron-count imaging in SEM. *Scanning*, **1991**, 13, 165-171	1.6	12

47	Prevention of Peritoneal Adhesions by Ferric Ion-Cross-Linked Hydrogels of Hyaluronic Acid Modified with Iminodiacetic Acids. *ACS Biomaterials Science and Engineering*, **2018**, 4, 3405-3412	5.5	11
46	In Vivo Redox-Responsive Sol/Gel/Sol Transition of Star Block Copolymer Solution Based on Ionic Cross-Linking. *Macromolecules*, **2017**, 50, 5539-5548	5.5	11
45	Switching of Cell Proliferation/Differentiation in Thiol-Maleimide Clickable Microcapsules Triggered by in Situ Conjugation of Biomimetic Peptides. *Biomacromolecules*, **2019**, 20, 2350-2359	6.9	10
44	In Situ Fabrication of Double-Layered Hydrogels via Spray Processes to Prevent Postoperative Peritoneal Adhesion. *ACS Biomaterials Science and Engineering*, **2019**, 5, 4790-4798	5.5	10
43	Size-dependent interaction of cells and hemoglobin-albumin based oxygen carriers prepared using the SPG membrane emulsification technique. *Biotechnology Progress*, **2015**, 31, 1676-84	2.8	10
42	Analysis of the Calcium Alginate Gelation Process Using a Kenics Static Mixer. *Industrial & Engineering Chemistry Research*, **2015**, 54, 2099-2107	3.9	8
41	The Prevention of Hepatectomy-Induced Adhesions by Bilayer Sponge Composed of Ultrapure Alginate. *Journal of Surgical Research*, **2019**, 242, 286-295	2.5	7
40	Pulsed-field polyacrylamide gel electrophoresis: basic phenomena and applications. *Electrophoresis*, **1993**, 14, 278-82	3.6	7
39	Silver-loaded carboxymethyl cellulose nonwoven sheet with controlled counterions for infected wound healing.. *Carbohydrate Polymers*, **2022**, 286, 119289	10.3	7
38	Thermal Treatments of Tumors **2018**, 199-228		6
37	Pemetrexed-conjugated hyaluronan for the treatment of malignant pleural mesothelioma. *European Journal of Pharmaceutical Sciences*, **2019**, 138, 105008	5.1	6
36	Development of human-derived hemoglobin-albumin microspheres as oxygen carriers using Shirasu porous glass membrane emulsification. *Journal of Bioscience and Bioengineering*, **2018**, 126, 533-539	3.3	6
35	Model Predictive Control for the Artificial Pancreas **2018**, 75-95		5
34	Bone regeneration by calcium phosphate-loaded carboxymethyl cellulose nonwoven sheets in canine femoral condyle defects. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2019**, 107, 1516-1521	3.5	5
33	Facile fabrication of PEG-coated PLGA microspheres via SPG membrane emulsification for the treatment of scleroderma by ECM degrading enzymes. *Colloids and Surfaces B: Biointerfaces*, **2019**, 179, 453-461	6	4
32	3D inkjet printing of star block copolymer hydrogels cross-linked using various metallic ions. *RSC Advances*, **2017**, 7, 55571-55576	3.7	4
31	The Balance between the Hemostatic Effect and Immune Response of Hyaluronan Conjugated with Different Chain Lengths of Inorganic Polyphosphate. *Biomacromolecules*, **2020**, 21, 2695-2704	6.9	3
30	Prevention of postoperative peritoneal adhesions in rats with sidewall defect-bowel abrasions using metal ion-crosslinked N-succinyl chitosan hydrogels. *Reactive and Functional Polymers*, **2019**, 145, 104374	4.6	3

29	Intraperitoneal Administration of a Cisplatin-Loaded Nanogel through a Hybrid System Containing an Alginic Acid-Based Nanogel and an Cross-Linkable Hydrogel for Peritoneal Dissemination of Ovarian Cancer. *Molecular Pharmaceutics*, **2021**, 18, 4090-4098	5.6	3
28	Nonlinear Pressure Drop Oscillations during Gelation in a Kenics Static Mixer. *Industrial & Engineering Chemistry Research*, **2020**, 59, 4533-4541	3.9	2
27	Ion-responsive fluorescence resonance energy transfer between grafted polyacrylic acid arms of star block copolymers. *Polymer*, **2018**, 137, 169-172	3.9	2
26	Noninvasive and Label-Free Characterization of Cells for Tissue Engineering Purposes **2018**, 145-173		2
25	Unstable retrovirus mutants with acquired transforming activity: rapid changes in the number of repeats of a specific junD polynucleotide segment. *Nucleic Acids Research*, **1998**, 26, 4868-73	20.1	2
24	Initiation of Impulsively Fast Magnetic Reconnection Induced by Current Sheet Ejection. *Plasma and Fusion Research*, **2013**, 8, 2401112-2401112	0.5	2
23	Bioinspired Perfluorocarbon-Based Oxygen Carriers with Concave Shape and Deformable Shell. *Advanced Materials Technologies*,2100573	6.8	2
22	Analysis of Endoscopic Injectability and Post-Ejection Dripping of Yield Stress Fluids: Laponite, Carbopol and Xanthan Gum. *Journal of Chemical Engineering of Japan*, **2021**, 54, 500-511	0.8	2
21	Balance of antiperitoneal adhesion, hemostasis, and operability of compressed bilayer ultrapure alginate sponges **2022**, 212825		2
20	A Chemical Engineering Perspective on Blood Oxygenators **2018**, 55-73		1
19	Development of Carboxymethyl Cellulose Nonwoven Sheet as a Novel Hemostatic Material. *Membrane*, **2015**, 40, 143-148	0	1
18	Nonlinear Self-Excited Oscillation of a Synthetic Ion-Channel-Inspired Membrane. *Angewandte Chemie*, **2006**, 118, 5758-5761	3.6	1
17	Development of Enzyme-Encapsulated Microcapsule Reactors with Ion-Responsive Shell Membranes. *Journal of Chemical Engineering of Japan*, **2007**, 40, 590-597	0.8	1
16	Systematic Material Design for Bio-system Inspired Molecular Recognition Membranes. *Membrane*, **2005**, 30, 124-131	0	1
15	Cisplatin-Chelated Iminodiacetic Acid-Conjugated Hyaluronic Acid Nanogels for the Treatment of Malignant Pleural Mesothelioma in Mice.. *Molecular Pharmaceutics*, **2022**,	5.6	1
14	Preparation of Uniform-Sized Poly[methacryloxypropyl Tris(trimethylsiloxy)silane] Microspheres via Shirasu Porous Glass Membrane Emulsification Technique. *Journal of Chemical Engineering of Japan*, **2013**, 46, 777-784	0.8	1
13	Injectable bottlebrush triblock copolymer hydrogel crosslinked with ferric ions. *Polymer*, **2022**, 240, 124519	3.9	1
12	Cationic surface charge effect on proliferation and protein production of human dental pulp stem cells cultured on diethylaminoethyl-modified cellulose porous beads. *Biochemical Engineering Journal*, **2021**, 176, 108217	4.2	1

11	Thermoreversible gelation with ion-binding cross-links of variable multiplicity. *Journal of Chemical Physics*, **2019**, 150, 174904	3.9	0
10	Artificial Kidney **2018**, 9-26		
9	Current Status and New Challenges of the Artificial Liver **2018**, 27-54		
8	Multiscale Synthetic Biology **2018**, 97-117		
7	Chemical Reaction Engineering Methodologies for Biomedical Imaging Analysis **2018**, 119-144		
6	TMS-EEG **2018**, 175-197		
5	Development of Novel CMC Nonwoven Sheets and Their Biomedical Applications. *Membrane*, **2022**, 47, 28-35	0	
4	1F34 Immobilizing inorganic polyphosphate onto hyaluronic acid for use as a hydrogel scaffold in osteochondral tissue engineering. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2015**, 2015.27, 249-250	0	
3	High-Voltage Operation of Polymer Electrolyte Fuel Cells under Low Humidity Condition with Pt-Co Catalyst. *Journal of Chemical Engineering of Japan*, **2010**, 43, 623-626	0.8	
2	Development of an a Molecular Recognition Ion Gating Membrane. *Membrane*, **2012**, 37, 140-145	0	
1	Bioinspired Perfluorocarbon-Based Oxygen Carriers with Concave Shape and Deformable Shell (Adv. Mater. Technol. 3/2022). *Advanced Materials Technologies*, **2022**, 7, 2270011	6.8	