

Takehiko Gotoh

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

573
citations

840776

11
h-index

642732

23
g-index

51
all docs

51
docs citations

51
times ranked

579
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel synthesis of thermosensitive porous hydrogels. <i>Journal of Applied Polymer Science</i> , 1998, 69, 895-906.	2.6	133
2	Synthesis of porous poly(N-isopropylacrylamide) gel beads by sedimentation polymerization and their morphology. <i>Journal of Applied Polymer Science</i> , 2007, 104, 842-850.	2.6	77
3	Preparation of Molecular Imprinted Thermosensitive Gel Adsorbents and Adsorption/Desorption Properties of Heavy Metal Ions by Temperature Swing. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 59-66.	0.6	32
4	Development and regeneration of composite of cationic gel and iron hydroxide for adsorbing arsenic from ground water. <i>Chemosphere</i> , 2019, 217, 808-815.	8.2	32
5	Deterioration Mechanism of a Tertiary Polyamide Reverse Osmosis Membrane by Hypochlorite. <i>Environmental Science & Technology</i> , 2019, 53, 9109-9117.	10.0	31
6	Application of <i>Aurantiochytrium</i> sp. L3W for food-processing wastewater treatment in combination with polyunsaturated fatty acids production for fish aquaculture. <i>Science of the Total Environment</i> , 2020, 743, 140735.	8.0	23
7	The effect of Fe^{3+} -FeOOH on enhancing arsenic adsorption from groundwater with DMAPAAQ- Fe^{3+} -FeOOH gel composite. <i>Scientific Reports</i> , 2019, 9, 11909.	3.3	22
8	Investigation of ion adsorption properties of sulfobetaine gel and relationship with its swelling behavior. <i>Polymer</i> , 2014, 55, 5189-5197.	3.8	15
9	Consolidation of suspended particles by using dual ionic thermosensitive polymers with incorporated a hydrophobic component. <i>Separation and Purification Technology</i> , 2013, 106, 90-96.	7.9	14
10	Effects of specific anions on the relationship between the ion-adsorption properties of sulfobetaine gel and its swelling behavior. <i>Polymer</i> , 2015, 59, 144-154.	3.8	14
11	Measurements of Mechanical Properties on a Swollen Hydrogel by a Tension Test Method. <i>Polymer Journal</i> , 2004, 36, 59-63.	2.7	13
12	Dewatering of Organic Slurry Using Thermosensitive Porous Gel. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 347-352.	0.6	11
13	A new type porous carrier and its application to culture of suspension cells. <i>Cytotechnology</i> , 1993, 11, 35-40.	1.6	10
14	Synthesis of Porous Poly(N-isopropylacrylamide) Gel Beads by Sedimentation Polymerization. <i>Polymer Journal</i> , 2004, 36, 356-360.	2.7	10
15	Synthesis of porous poly[oligo(ethylene glycol) methyl ether methacrylate] gels that exhibit thermosensitivity in highly concentrated aqueous NaCl solution. <i>Polymer</i> , 2012, 53, 3417-3420.	3.8	10
16	Forced breakup of a power-law fluid jet discharged from an orifice. <i>Journal of Chemical Engineering of Japan</i> , 1991, 24, 799-801.	0.6	9
17	Synthesis of Oxidant Functionalised Cationic Polymer Hydrogel for Enhanced Removal of Arsenic (III). <i>Gels</i> , 2021, 7, 197.	4.5	9
18	Synthesis of Nonporous Poly(N-alkylacrylamide) Gel Beads by Nonaqueous Sedimentation Polymerization. <i>Polymer Journal</i> , 2007, 39, 18-20.	2.7	8

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19	Dewatering of organic slurries using reinforced thermosensitive porous gels. <i>Polymer Bulletin</i> , 2007, 58, 213-223.	3.3	8
20	Degradation of secondary polyamide reverse osmosis membrane by hypochlorite in the presence of calcium ions. <i>Polymer Degradation and Stability</i> , 2020, 181, 109351.	5.8	7
21	Effects of Synthesis Conditions on Formation of Thermosensitive Porous Gels and Swelling/Shrinking Properties.. <i>Kobunshi Ronbunshu</i> , 2002, 59, 44-50.	0.2	6
22	A Novel Thermosensitive Gel Adsorbent for Phosphate Ions. <i>Macromolecular Symposia</i> , 2010, 295, 81-87.	0.7	6
23	Simultaneous Removal of Arsenic and Manganese from Synthetic Aqueous Solutions Using Polymer Gel Composites. <i>Nanomaterials</i> , 2021, 11, 1032.	4.1	6
24	Characterization and Swelling Behavior of Thermosensitive Porous Gel. <i>Journal of Chemical Engineering of Japan</i> , 2004, 37, 597-603.	0.6	5
25	Adsorption and desorption of calcium ions by temperature swing with copolymer of thermosensitive and chelating components grafted on porous ethylene vinyl acetate disk. <i>Reactive and Functional Polymers</i> , 2013, 73, 1632-1638.	4.1	5
26	Influence of Hydrophobicity of Backbone Polymer in Thermo-Responsive Hydrogel with Immobilized Amine on Cycle Capacity for Absorption and Recovery of CO ₂ . <i>Polymers</i> , 2019, 11, 1024.	4.5	5
27	A Novel Strain of <i>Aurantiochytrium</i> sp. Strain L3W and Its Characteristics of Biomass and Lipid Production Including Valuable Fatty Acids. <i>Journal of Water and Environment Technology</i> , 2021, 19, 24-34.	0.7	5
28	The Effect of Cation and Anion Species on the Transition and Adsorption Behaviors of Thermosensitive Sulfobetaine Gel-based Adsorbent. <i>International Journal of Technology</i> , 2019, 10, 443.	0.8	5
29	Metal Hydroxide Formation in DMAPAA Hydrogel and Novel Metal Ion Removal Method. <i>Kagaku Kogaku Ronbunshu</i> , 2017, 43, 199-206.	0.3	4
30	Removal of Arsenic Using a Cationic Polymer Gel Impregnated with Iron Hydroxide. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	4
31	Correlating properties between sulfobetaine hydrogels and polymers with different carbon spacer lengths. <i>Polymer</i> , 2020, 186, 122013.	3.8	4
32	Synthesis, Phase-Transition Behaviour, and Oil Adsorption Performance of Porous Poly(oligo(ethylene glycol) Alkyl Ether Acrylate) Gels. <i>Polymers</i> , 2020, 12, 1405.	4.5	4
33	Structure Control of Thermosensitive Porous Gels with Hydrophobic Long Side Chains and Their Thermoresponsive Properties.. <i>Kobunshi Ronbunshu</i> , 2000, 57, 722-729.	0.2	3
34	Selective Recovery of Metal Ion by Using Hydrogel With Different Inner pH. <i>Macromolecular Symposia</i> , 2019, 385, 1800163.	0.7	3
35	Effect of Plastics on the Photodegradation Behavior of Chlorophenols. <i>Journal of Chemical Engineering of Japan</i> , 2020, 53, 660-666.	0.6	3
36	Novel Thermosensitive-co-Zwitterionic Sulfobetaine Gels for Metal Ion Removal: Synthesis and Characterization. <i>Gels</i> , 2021, 7, 273.	4.5	3

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37	Utilization of saline and viscous food-processing liquid waste for cultivation of thraustochytrid for production of polyunsaturated fatty acids. <i>Clean Technologies and Environmental Policy</i> , 0, , .	4.1	3
38	Increase in sedimentary organic carbon with a change from hypoxic to oxic conditions. <i>Marine Pollution Bulletin</i> , 2021, 168, 112397.	5.0	2
39	The Removal of Hydrophobic Matter from Thermosensitive Poly[oligo(ethylene glycol) Monomethyl Ether Acrylate] Gel Adsorbent in Alcohol-Water Mixtures. <i>Gels</i> , 2022, 8, 200.	4.5	2
40	Control of Transition Temperature of Thermosensitive Porous Gel and Its Application for Dewatering Organic Slurry. <i>Kobunshi Ronbunshu</i> , 2008, 65, 739-744.	0.2	1
41	Novel Metal Ion Removal Method Using Protonated Hydrogel. <i>Macromolecular Symposia</i> , 2017, 372, 120-126.	0.7	1
42	Recovery of CO ₂ Using Temperature-Responsive Amine Gel Slurry. <i>Macromolecular Symposia</i> , 2019, 385, 1800165.	0.7	1
43	Poly(triethylene glycol methyl ether methacrylate) hydrogel as a carrier of phosphotungstic acid for acid catalytic reaction in water. <i>Materials Advances</i> , 0, , .	5.4	1
44	The Effect of Synthesis Condition of the Ability of Swelling, Adsorption, and Desorption of Zwitterionic Sulfobetaine-Based Gel. <i>International Journal of Technology</i> , 2020, 11, 299.	0.8	1
45	Removal of Manganese Using Polymer Gel Composites. <i>Materials Proceedings</i> , 2020, 4, .	0.2	1
46	Removal of Acetic Acid from Bacterial Culture Media by Adsorption onto a Two-Component Composite Polymer Gel. <i>Gels</i> , 2022, 8, 154.	4.5	1
47	Synthesis of Porous Polymers Utilizing Crystallization of Hydrophobic Long Alkyl Side Chains.. <i>Kobunshi Ronbunshu</i> , 1998, 55, 137-144.	0.2	0
48	Properties of Zwitterionic Sulfobetaine Gels Containing Different Numbers of Methylene Units. <i>MATEC Web of Conferences</i> , 2021, 333, 01002.	0.2	0
49	Recovery of Rare Earths using Anion-Supporting Polymer Gel. <i>Kagaku Kogaku Ronbunshu</i> , 2021, 47, 161-168.	0.3	0
50	Novel PH-Thermosensitive Gel Adsorbents for Phosphoric Acid. , 2008, , .		0
51	Preparation of Metal Oxide Nano Particle in Hydrogel Reaction Field. <i>Hosokawa Powder Technology Foundation ANNUAL REPORT</i> , 2022, 29, 23-29.	0.0	0