Kazuhiro Hara

List of Publications by Year
in descending order

103	980	471509 17	552781 26
papers	citations	h-index	g-index

103	103	103	819
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study on the influence of inductive groups on the performance of carboxylate-based hydrogel polymer network. Polymer Testing, 2019, 80, 106117.	4.8	4
2	Radiation induced modified CMC-based hydrogel with enhanced reusability for heavy metal ions adsorption. Polymer, 2019, 181, 121772.	3.8	32
3	Equilibrium and kinetic studies for silver removal from aqueous solution by hybrid hydrogels. Journal of Hazardous Materials, 2019, 365, 237-244.	12.4	35
4	Selective adsorption of trivalent metal ions from multielement solution by using gamma radiation-induced pectin-acrylamide-(2-Acrylamido-2-methyl-1-propanesulfonic acid) hydrogel. Journal of Environmental Chemical Engineering, 2019, 7, 102844.	6.7	22
5	Synthesis of pectin-N, N-dimethyl acrylamide hydrogel by gamma radiation and application in drug delivery (in vitro). Journal of Macromolecular Science - Pure and Applied Chemistry, 2018, 55, 369-376.	2.2	20
6	Poly (1, 4-diazocane-5, 8-dione) macrocyclic-functionalized hydrogel for high selectivity transition metal ion adsorption. Reactive and Functional Polymers, 2018, 125, 11-19.	4.1	13
7	Sub-Diffusion in Electroconvective Turbulence of Homeotropic Nematic Liquid Crystals. Journal of the Physical Society of Japan, 2018, 87, 014401.	1.6	2
8	Pectinâ€[(3â€acrylamidopropyl) trimethylammonium chlorideâ€coâ€acrylic acid] hydrogel prepared by gamma radiation and selectively silver (Ag) metal adsorption. Journal of Applied Polymer Science, 2018, 135, 45906.	2.6	34
9	Time-Dependent Diffusion Coefficients for Chaotic Advection due to Fluctuations of Convective Rolls. Fluids, 2018, 3, 99.	1.7	6
10	Fabrication of poly (1, 4-dioxa-7, 12-diazacyclotetradecane-8, 11-dione) macrocyclic functionalized hydrogel for high selective adsorption of Cr, Cu and Ni. Reactive and Functional Polymers, 2018, 130, 90-97.	4.1	5
11	Synthesis and Characterization of Poly(1,4,7-Trioxacycloundecane-8,11-dione) Macrocyclic Functionalized Hydrogel for High Selectivity Adsorption and Complexation of Bismuth Ion. Polymers, 2018, 10, 662.	4.5	5
12	Radiation synthesis and characterization of super-absorbing hydrogel from natural polymers and vinyl monomer. Environmental Pollution, 2018, 242, 1458-1466.	7.5	29
13	Removal of metal ions from aqueous solutions using carboxymethyl cellulose/sodium styrene sulfonate gels prepared by radiation grafting. Carbohydrate Polymers, 2017, 157, 335-343.	10.2	95
14	Synthesis of Potato Starch-Acrylic-Acid Hydrogels by Gamma Radiation and Their Application in Dye Adsorption. International Journal of Polymer Science, 2016, 2016, 1-11.	2.7	43
15	Relaxation with long-period oscillation in defect turbulence of planar nematic liquid crystals. Physical Review E, 2016, 94, 042701.	2.1	7
16	Multicomponent adsorption of benzene and selected borderline heavy metals by poly (butadiene-co-acrylic acid) hydrogel. Journal of Environmental Chemical Engineering, 2016, 4, 3385-3392.	6.7	9
17	Attempts to capturing ppb-level elements from sea water with hydrogels. Progress in Nuclear Energy, 2016, 92, 228-233.	2.9	19
18	Responses of spatiotemporal chaos to oscillating forces. Physical Review E, 2015, 92, 012916.	2.1	2

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19	Biophoton Emission Induced by Heat Shock. PLoS ONE, 2014, 9, e105700.	2.5	28
20	The effect of hot DMSO treatment on the Î³-ray-induced grafting of acrylamide onto PET films. Polymer Journal, 2014, 46, 412-421.	2.7	6
21	Selective Hg(II) adsorption from aqueous solutions of Hg(II) and Pb(II) by hydrolyzed acrylamide-grafted PET films. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2014, 49, 798-806.	1.7	14
22	Selective Cu(II) Adsorption from Aqueous Solutions Including Cu(II), Co(II), and Ni(II) by Modified Acrylic Acid Grafted PET Film. ISRN Polymer Science, 2013, 2013, 1-9.	0.3	6
23	Gelation and Glass Transition in Thermosetting Process of Epoxy Resin. Progress of Theoretical Physics Supplement, 2013, 126, 119-122.	0.1	0
24	A Possibility of Heavy-Metal Recycling by Utilizing Hydrogels. Transactions of the Materials Research Society of Japan, 2012, 20thAnniv, 23-28.	0.2	1
25	Near edge X-ray absorption fine structure spectroscopic and infrared reflection absorption spectroscopic studies of surface modification of poly(butylene terephthalate) induced by UV irradiation. Polymer, 2012, 53, 2956-2963.	3.8	11
26	Nano-structural Analyses of Copper-ion-adsorbed PAAm/SA Gels after UV-light Irradiation. Transactions of the Materials Research Society of Japan, 2012, 37, 135-138.	0.2	0
27	Effects of Monomer Constituents, Crosslinker Concentration and Ambient Temperature on the Turbidity of <i>Poly</i> (acrylamide-co-maleic acid) Gel. Transactions of the Materials Research Society of Japan, 2012, 37, 115-118.	0.2	0
28	Kadanoff-Baym Approach to Entropy Production inO(N) Theory with Next-to-Leading Order Self-Energy. Progress of Theoretical Physics, 2011, 126, 249-267.	2.0	4
29	Capturing of Positive and Negative Rare-metal Ions by Polarity-Composite Hydrogels. Transactions of the Materials Research Society of Japan, 2011, 36, 401-404.	0.2	1
30	Study on UV Surface Modification of Poly(butylene terephthalate) by Near Edge X-ray Absorption Fine Structure Spectroscopy and Infrared Reflection Absorption Spectroscopy. Bunseki Kagaku, 2010, 59, 477-488.	0.2	2
31	A Possibility of Heavy-Metal Recycling by Utilizing Hydrogels. Transactions of the Materials Research Society of Japan, 2010, 35, 449-454.	0.2	5
32	UV-irradiation Effects on the Properties of poly-Acrylamide/Sodium Acrylate Gel. Transactions of the Materials Research Society of Japan, 2010, 35, 865-868.	0.2	1
33	Thermal Behavior of Albumin Gel in Low Water Content. Transactions of the Materials Research Society of Japan, 2010, 35, 869-872.	0.2	0
34	Thermal Behavior of Bio-related Material Gel in Low Water Content. Transactions of the Materials Research Society of Japan, 2009, 34, 485-488.	0.2	0
35	Harmful-Heavy-Metal-Anion Adsorbing Property of Acrylamide/Dimethylaminoethylacrylatemethylchloride Gel. Transactions of the Materials Research Society of Japan, 2008, 33, 455-458.	0.2	4
36	Side-Chain Structural Effect of a Harmful-Heavy-Metal-Anion Adsorbing Gel. Transactions of the Materials Research Society of Japan, 2008, 33, 463-466.	0.2	4

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37	A Possibility of Hydro gels as Environment Purifying Materials. Transactions of the Materials Research Society of Japan, 2008, 33, 369-372.	0.2	4
38	Selective Adsorption of Heavy Metal Cations and Anions from their Aqueous Solution Mixture with Hydrogels. Transactions of the Materials Research Society of Japan, 2008, 33, 459-461.	0.2	4
39	Effect of Organic Solvent Substitution on Nano-scopic Structure of Poly(acrylamide-<i>co</i>-sodium acrylate) Gel. Transactions of the Materials Research Society of Japan, 2008, 33, 451-454.	0.2	0
40	Dynamical Aspects in Dehydrated Gel. Ferroelectrics, 2007, 348, 166-169.	0.6	0
41	Utilization of Ion Capturing Property of Gels for Environmental Purification. Ferroelectrics, 2007, 348, 161-165.	0.6	2
42	An XAFS Beamline at the SAGA Light Source. AIP Conference Proceedings, 2007, , .	0.4	1
43	Effect of Organic-Solvent Treatment on Swelling of Poly(acrylamide-co-sodiumacrylate) Gel. Transactions of the Materials Research Society of Japan, 2007, 32, 795-798.	0.2	1
44	Effect of Terminal-Group Substitution of a Harmful-Heavy-Metal-Anion Adsorbing Gel. Transactions of the Materials Research Society of Japan, 2007, 32, 819-822.	0.2	7
45	Design of beamline BL15 at the Saga Light Source. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 185-188.	1.4	5
46	Screening effect on nanostructure of charged gel. Physica B: Condensed Matter, 2004, 350, E967-E970.	2.7	1
47	Small-Angle Scattering Study of Mesoscopic Structures in Charged Gel and Their Evolution on Dehydration. Journal of Physical Chemistry B, 2003, 107, 6300-6308.	2.6	16
48	Structure Investigation of Metal Ions Clustering in Dehydrated Gel Using X-ray Anomalous Dispersion Effect. Journal of the Physical Society of Japan, 2003, 72, 2110-2113.	1.6	4
49	Heat-Induced Evolution of the Mesoscopic Structure of Dehydrated Poly(vinyl alcohol) Gel. Journal of the Physical Society of Japan, 2002, 71, 1035-1038.	1.6	1
50	Comparative SANS and SAXS studies on a mesoscopically heterogeneous structure in the dehydrated NIPA/SA gel. Physica B: Condensed Matter, 2002, 311, 90-94.	2.7	6
51	Multiple-phase behavior and its microscopic implication for 4-acrylamidosalicylic acid gel. Journal of Chemical Physics, 2001, 114, 6906-6912.	3.0	2
52	Effect of Salt and Heating on a Mesoscopic Structure Composed of Ovalbumin Globules in Aqueous Solution. Biomacromolecules, 2001, 2, 1071-1073.	5.4	11
53	Coexistence of capillary and elastic surface waves at the gelation point of tungstic acid. AIP Conference Proceedings, 2000, , .	0.4	1
54	Inhomogeneity in dehydrated NIPA/SA gel. AIP Conference Proceedings, 2000, , .	0.4	0

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55	Frequency Dispersion in Elastic Property During the Glass Transition of Dehydrated Polyacrylamide Gel. Japanese Journal of Applied Physics, 2000, 39, 2913-2915.	1.5	2
56	Microphase Separation in Dehydrated N-isopropylacrylamide/sodium Acrylate Gel. Japanese Journal of Applied Physics, 1999, 38, L1360-L1362.	1.5	10
57	Anomalous velocity change of surface wave near the gelation point. Physica B: Condensed Matter, 1999, 263-264, 73-76.	2.7	1
58	Viscoelastic properties near the sol-gel transition. , 1999, , .		0
59	Heat-treatment effect on wet and dehydrated gels. , 1999, , .		0
60	Difference in Low Frequency Raman Spectra between Dehydrated Egg White and the Dehydrated Heat-Treated Gel. Japanese Journal of Applied Physics, 1998, 37, L143-L144.	1.5	3
61	Small-Angle Neutron Scattering Observation of Aqueous Suspension of Microcrystalline Cellulose. Japanese Journal of Applied Physics, 1998, 37, L404-L405.	1.5	1
62	Propagating Property of Surface Waves and Viscoelasticity near the Gelation Point. Japanese Journal of Applied Physics, 1998, 37, 2815-2817.	1.5	7
63	Elastic Anomaly and Glass Transition in Dehydrated Egg White Gel. Japanese Journal of Applied Physics, 1998, 37, 4931-4932.	1.5	4
64	Correlation between the Photochromic Enhancement in Tungstic Acid and the O-C-H Bond in Additives. Japanese Journal of Applied Physics, 1997, 36, L443-L445.	1.5	8
65	Change in the Low-Lying Raman Scattering Spectrum in the Glass Transition of Dehydrated Polyacrylamide Gel. Japanese Journal of Applied Physics, 1997, 36, L1182-L1184.	1.5	7
66	Structural change of Î¹-carrageenan gel near sol-gel transition point. Physica B: Condensed Matter, 1997, 241-243, 999-1001.	2.7	5
67	Gelation and Glass Transition in Thermosetting Process of Epoxy Resin. Progress of Theoretical Physics Supplement, 1997, 126, 119-122.	0.1	3
68	Time-resolved turbidimetric measurements during gelation process of egg white under high pressure. Progress in Biotechnology, 1996, 13, 343-346.	0.2	4
69	AFM Observation of Ferroelectric Domains on TGS Cleavage Surface. Journal of the Physical Society of Japan, 1996, 65, 2401-2403.	1.6	5
70	Raman Peak in Low-Frequency Region of Dehydrated Egg-White Gel. Japanese Journal of Applied Physics, 1996, 35, L43-L44.	1.5	10
71	AFM observations of TGS crystal surface in microscopic and semi-microscopic levels. Ferroelectrics, 1995, 170, 101-109.	0.6	12
72	Raman Scattering Study during the Dehydration Process of Polyacrylamide Gel. Japanese Journal of Applied Physics, 1995, 34, 5700-5705.	1.5	22

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73	Change of Temperature and Elastic Stiffness during Dehydration Process of Polyacrylamide Gel. Japanese Journal of Applied Physics, 1995, 34, 4997-5000.	1.5	31
74	Surface Wave Measurements during Gelation Process of Tungstic Acid. Japanese Journal of Applied Physics, 1994, 33, 3514-3517.	1.5	9
75	Enhancement of Photochromism in Tungstic Acid Gels with Some Organic Additives: Effects of End Groups. Japanese Journal of Applied Physics, 1994, 33, 4135-4136.	1.5	13
76	Propagating Properties of Surface Wave in Sol-Gel Transition of Tungstic Acid. Japanese Journal of Applied Physics, 1994, 33, 2905-2907.	1.5	4
77	Direct Observation of Domain Structures in Triglycine Sulfate by Atomic Force Microscope. Japanese Journal of Applied Physics, 1994, 33, 1390-1393.	1.5	38
78	Transformation of Egg-White Glass into Partially Crystallized Glass Induced by Heat Treatment and Gamma-Ray Irradiation. Japanese Journal of Applied Physics, 1994, 33, 226-229.	1.5	22
79	Investigations of Pressure and Temperature Effects on Gelation Process of Egg White by Time-Resolved Turbidimetric Measurements. Japanese Journal of Applied Physics, 1994, 33, 2817-2820.	1.5	1
80	Solvent-Substitution Effects on Weight and Volume Changes during the Desiccation Process of Egg-White Gel. Japanese Journal of Applied Physics, 1993, 32, 2905-2910.	1.5	10
81	Simultaneous Time-Resolved Measurements of Weight and Small-Angle X-Ray Scattering of Heat- and Pressure-Treated Egg White during Gel-to-Glasslike Transition. Japanese Journal of Applied Physics, 1993, 32, L1439-L1440.	1.5	4
82	Variations of Mechanical Properties in Egg White during Gel-to-Glasslike Transition. Japanese Journal of Applied Physics, 1993, 32, 4038-4041.	1.5	29
83	Evolution of the 2-Dimensional Intensity Distribution of the Scattered Lights from Gelling Tungstic Acid. Japanese Journal of Applied Physics, 1993, 32, 996-1000.	1.5	4
84	Scanning Tunneling Microscope Observation of a Polar Liquid Crystal and Its Computer Simulation*1. Japanese Journal of Applied Physics, 1993, 32, 1716-1721.	1.5	10
85	Optical Measurements during Gelation Process of Muscle Protein under High Pressure. Journal of the Physical Society of Japan, 1993, 62, 362-367.	1.6	3
86	The pH Dependence on the Formation Process of Tungsten Oxide Gel. Journal of the Physical Society of Japan, 1993, 62, 357-361.	1.6	5
87	Dielectric and Ferroelectric Hysteresis Loop Measurements for Ultrathin VDF/TrFE Copolymer Films Evaporated Under Electric Field. Japanese Journal of Applied Physics, 1992, 31, 1407-1408.	1.5	7
88	Enhanced Photochromism in the Hybrid Film of Tungstic Acid and Polyethylene Glycol. Japanese Journal of Applied Physics, 1992, 31, L1609-L1610.	1.5	17
89	Density Variation in Heat- and Pressure-Treated Egg White during Gel-to-Glass-like Transition. Japanese Journal of Applied Physics, 1992, 31, 3754-3758.	1.5	23
90	Optical Characterization of Tungstic Acid around Gelation Time. Journal of the Physical Society of Japan, 1992, 61, 2147-2153.	1.6	9

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91	Observation of Transmitted Light Spectra during Gelation Process of Actomyosin. Journal of the Physical Society of Japan, 1992, 61, 1113-1118.	1.6	4
92	Turbidity Spectra of Tungstic Acid in Gelation Process. Journal of the Physical Society of Japan, 1991, 60, 3568-3572.	1.6	8
93	Observation of Ferroelastic Domains in LaNbO4by Micro-Raman Spectroscopy. Journal of the Physical Society of Japan, 1990, 59, 4472-4475.	1.6	5
94	Experimental Studies of Phase Transitions in Betaine Phosphate. Journal of the Physical Society of Japan, 1989, 58, 4215-4221.	1.6	15
95	Evolution of Light Transmissivity of Tungstic Acid during Gelation. Journal of the Physical Society of Japan, 1989, 58, 3424-3426.	1.6	1
96	The ferroelastic transition in some scheelite-type crystals. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1988, 150, 258-264.	0.9	6
97	Raman Scattering Study of Scheelite-Type Double Molybdates. Journal of the Physical Society of Japan, 1988, 57, 3220-3225.	1.6	13
98	Evolution of Light Scattering and Electrical Properties of Tungsten Oxide Gel. Journal of the Physical Society of Japan, 1988, 57, 3838-3842.	1.6	3
99	Pressure Dependence of Raman Spectra in Low Frequency Region of LaNbO4. Journal of the Physical Society of Japan, 1987, 56, 794-797.	1.6	6
100	Pressure Dependence of Raman Spectra in Low Frequency Region of Ferroelastic NdNbO4. Journal of the Physical Society of Japan, 1987, 56, 2187-2191.	1.6	5
101	Raman Scattering Study of Lithium Gallate LiGa5O8. Journal of the Physical Society of Japan, 1986, 55, 4500-4503.	1.6	11
102	A Soft Acoustic Mode in the Ferroelastic Phase Transition of LaNbO4. Journal of the Physical Society of Japan, 1985, 54, 1168-1172.	1.6	24
103	Information Reduction for Chaotic Patterns. Forma, 0, , .	0.1	1