

# Kazuhiro Hara

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1634175/publications.pdf>

Version: 2024-02-01

103  
papers

980  
citations

471509

17  
h-index

552781

26  
g-index

103  
all docs

103  
docs citations

103  
times ranked

819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of metal ions from aqueous solutions using carboxymethyl cellulose/sodium styrene sulfonate gels prepared by radiation grafting. <i>Carbohydrate Polymers</i> , 2017, 157, 335-343.	10.2	95
2	Synthesis of Potato Starch-Acrylic-Acid Hydrogels by Gamma Radiation and Their Application in Dye Adsorption. <i>International Journal of Polymer Science</i> , 2016, 2016, 1-11.	2.7	43
3	Direct Observation of Domain Structures in Triglycine Sulfate by Atomic Force Microscope. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 1390-1393.	1.5	38
4	Equilibrium and kinetic studies for silver removal from aqueous solution by hybrid hydrogels. <i>Journal of Hazardous Materials</i> , 2019, 365, 237-244.	12.4	35
5	Pectin-[(3- <i>acrylamidopropyl</i> ) trimethylammonium chloride-co-( <i>acrylic acid</i> )] hydrogel prepared by gamma radiation and selectively silver (Ag) metal adsorption. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45906.	2.6	34
6	Radiation induced modified CMC-based hydrogel with enhanced reusability for heavy metal ions adsorption. <i>Polymer</i> , 2019, 181, 121772.	3.8	32
7	Change of Temperature and Elastic Stiffness during Dehydration Process of Polyacrylamide Gel. <i>Japanese Journal of Applied Physics</i> , 1995, 34, 4997-5000.	1.5	31
8	Variations of Mechanical Properties in Egg White during Gel-to-Glasslike Transition. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 4038-4041.	1.5	29
9	Radiation synthesis and characterization of super-absorbing hydrogel from natural polymers and vinyl monomer. <i>Environmental Pollution</i> , 2018, 242, 1458-1466.	7.5	29
10	Biophoton Emission Induced by Heat Shock. <i>PLoS ONE</i> , 2014, 9, e105700.	2.5	28
11	A Soft Acoustic Mode in the Ferroelastic Phase Transition of LaNbO <sub>4</sub> . <i>Journal of the Physical Society of Japan</i> , 1985, 54, 1168-1172.	1.6	24
12	Density Variation in Heat- and Pressure-Treated Egg White during Gel-to-Glass-like Transition. <i>Japanese Journal of Applied Physics</i> , 1992, 31, 3754-3758.	1.5	23
13	Transformation of Egg-White Glass into Partially Crystallized Glass Induced by Heat Treatment and Gamma-Ray Irradiation. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 226-229.	1.5	22
14	Raman Scattering Study during the Dehydration Process of Polyacrylamide Gel. <i>Japanese Journal of Applied Physics</i> , 1995, 34, 5700-5705.	1.5	22
15	Selective adsorption of trivalent metal ions from multielement solution by using gamma radiation-induced pectin-acrylamide-(2-Acrylamido-2-methyl-1-propanesulfonic acid) hydrogel. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102844.	6.7	22
16	Synthesis of pectin-N, N-dimethyl acrylamide hydrogel by gamma radiation and application in drug delivery ( <i>in vitro</i> ). <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2018, 55, 369-376.	2.2	20
17	Attempts to capturing ppb-level elements from sea water with hydrogels. <i>Progress in Nuclear Energy</i> , 2016, 92, 228-233.	2.9	19
18	Enhanced Photochromism in the Hybrid Film of Tungstic Acid and Polyethylene Glycol. <i>Japanese Journal of Applied Physics</i> , 1992, 31, L1609-L1610.	1.5	17

#	ARTICLE	IF	CITATIONS
19	Small-Angle Scattering Study of Mesoscopic Structures in Charged Gel and Their Evolution on Dehydration. <i>Journal of Physical Chemistry B</i> , 2003, 107, 6300-6308.	2.6	16
20	Experimental Studies of Phase Transitions in Betaine Phosphate. <i>Journal of the Physical Society of Japan</i> , 1989, 58, 4215-4221.	1.6	15
21	Selective Hg(II) adsorption from aqueous solutions of Hg(II) and Pb(II) by hydrolyzed acrylamide-grafted PET films. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2014, 49, 798-806.	1.7	14
22	Raman Scattering Study of Scheelite-Type Double Molybdates. <i>Journal of the Physical Society of Japan</i> , 1988, 57, 3220-3225.	1.6	13
23	Enhancement of Photochromism in Tungstic Acid Gels with Some Organic Additives: Effects of End Groups. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 4135-4136.	1.5	13
24	Poly (1, 4-diazocane-5, 8-dione) macrocyclic-functionalized hydrogel for high selectivity transition metal ion adsorption. <i>Reactive and Functional Polymers</i> , 2018, 125, 11-19.	4.1	13
25	AFM observations of TGS crystal surface in microscopic and semi-microscopic levels. <i>Ferroelectrics</i> , 1995, 170, 101-109.	0.6	12
26	Raman Scattering Study of Lithium Gallate LiGa <sub>5</sub> O <sub>8</sub> . <i>Journal of the Physical Society of Japan</i> , 1986, 55, 4500-4503.	1.6	11
27	Effect of Salt and Heating on a Mesoscopic Structure Composed of Ovalbumin Globules in Aqueous Solution. <i>Biomacromolecules</i> , 2001, 2, 1071-1073.	5.4	11
28	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. <i>Polymer</i> , 2012, 53, 2956-2963.	3.8	11
29	Solvent-Substitution Effects on Weight and Volume Changes during the Desiccation Process of Egg-White Gel. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 2905-2910.	1.5	10
30	Scanning Tunneling Microscope Observation of a Polar Liquid Crystal and Its Computer Simulation*1. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 1716-1721.	1.5	10
31	Raman Peak in Low-Frequency Region of Dehydrated Egg-White Gel. <i>Japanese Journal of Applied Physics</i> , 1996, 35, L43-L44.	1.5	10
32	Microphase Separation in Dehydrated N-isopropylacrylamide/sodium Acrylate Gel. <i>Japanese Journal of Applied Physics</i> , 1999, 38, L1360-L1362.	1.5	10
33	Optical Characterization of Tungstic Acid around Gelation Time. <i>Journal of the Physical Society of Japan</i> , 1992, 61, 2147-2153.	1.6	9
34	Surface Wave Measurements during Gelation Process of Tungstic Acid. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 3514-3517.	1.5	9
35	Multicomponent adsorption of benzene and selected borderline heavy metals by poly (butadiene-co-acrylic acid) hydrogel. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 3385-3392.	6.7	9
36	Correlation between the Photochromic Enhancement in Tungstic Acid and the O-C-H Bond in Additives. <i>Japanese Journal of Applied Physics</i> , 1997, 36, L443-L445.	1.5	8

#	ARTICLE	IF	CITATIONS
37	Turbidity Spectra of Tungstic Acid in Gelation Process. Journal of the Physical Society of Japan, 1991, 60, 3568-3572.	1.6	8
38	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
39	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
40	Propagating Property of Surface Waves and Viscoelasticity near the Gelation Point. Japanese Journal of Applied Physics, 1998, 37, 2815-2817.	1.5	7
41	Relaxation with long-period oscillation in defect turbulence of planar nematic liquid crystals. Physical Review E, 2016, 94, 042701.	2.1	7
42	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
43	Pressure Dependence of Raman Spectra in Low Frequency Region of LaNbO <sub>4</sub> . Journal of the Physical Society of Japan, 1987, 56, 794-797.	1.6	6
44	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
45	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
46	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
47	The effect of hot DMSO treatment on the $\hat{\Gamma}^3$ -ray-induced grafting of acrylamide onto PET films. Polymer Journal, 2014, 46, 412-421.	2.7	6
48	Time-Dependent Diffusion Coefficients for Chaotic Advection due to Fluctuations of Convective Rolls. Fluids, 2018, 3, 99.	1.7	6
49	Pressure Dependence of Raman Spectra in Low Frequency Region of Ferroelastic NdNbO <sub>4</sub> . Journal of the Physical Society of Japan, 1987, 56, 2187-2191.	1.6	5
50	Observation of Ferroelastic Domains in LaNbO <sub>4</sub> by Micro-Raman Spectroscopy. Journal of the Physical Society of Japan, 1990, 59, 4472-4475.	1.6	5
51	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
52	AFM Observation of Ferroelectric Domains on TGS Cleavage Surface. Journal of the Physical Society of Japan, 1996, 65, 2401-2403.	1.6	5
53	Structural change of $\hat{\Gamma}^2$ -carrageenan gel near sol-gel transition point. Physica B: Condensed Matter, 1997, 241-243, 999-1001.	2.7	5
54	Design of beamline BL15 at the Saga Light Source. Nuclear Instruments & Methods in Physics Research B, 2005, 238, 185-188.	1.4	5

#	ARTICLE	IF	CITATIONS
55	Fabrication of poly (1, 4-dioxo-7, 12-diazacyclotetradecane-8, 11-dione) macrocyclic functionalized hydrogel for high selective adsorption of Cr, Cu and Ni. <i>Reactive and Functional Polymers</i> , 2018, 130, 90-97.	4.1	5
56	Synthesis and Characterization of Poly(1,4,7-Trioxacycloundecane-8,11-dione) Macrocyclic Functionalized Hydrogel for High Selectivity Adsorption and Complexation of Bismuth Ion. <i>Polymers</i> , 2018, 10, 662.	4.5	5
57	A Possibility of Heavy-Metal Recycling by Utilizing Hydrogels. <i>Transactions of the Materials Research Society of Japan</i> , 2010, 35, 449-454.	0.2	5
58	Simultaneous Time-Resolved Measurements of Weight and Small-Angle X-Ray Scattering of Heat- and Pressure-Treated Egg White during Gel-to-Glasslike Transition. <i>Japanese Journal of Applied Physics</i> , 1993, 32, L1439-L1440.	1.5	4
59	Evolution of the 2-Dimensional Intensity Distribution of the Scattered Lights from Gelling Tungstic Acid. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 996-1000.	1.5	4
60	Propagating Properties of Surface Wave in Sol-Gel Transition of Tungstic Acid. <i>Japanese Journal of Applied Physics</i> , 1994, 33, 2905-2907.	1.5	4
61	Time-resolved turbidimetric measurements during gelation process of egg white under high pressure. <i>Progress in Biotechnology</i> , 1996, 13, 343-346.	0.2	4
62	Elastic Anomaly and Glass Transition in Dehydrated Egg White Gel. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 4931-4932.	1.5	4
63	Structure Investigation of Metal Ions Clustering in Dehydrated Gel Using X-ray Anomalous Dispersion Effect. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 2110-2113.	1.6	4
64	Kadanoff-Baym Approach to Entropy Production in $O(N)$ Theory with Next-to-Leading Order Self-Energy. <i>Progress of Theoretical Physics</i> , 2011, 126, 249-267.	2.0	4
65	Study on the influence of inductive groups on the performance of carboxylate-based hydrogel polymer network. <i>Polymer Testing</i> , 2019, 80, 106117.	4.8	4
66	Observation of Transmitted Light Spectra during Gelation Process of Actomyosin. <i>Journal of the Physical Society of Japan</i> , 1992, 61, 1113-1118.	1.6	4
67	Harmful-Heavy-Metal-Anion Adsorbing Property of Acrylamide/Dimethylaminoethylacrylatemethylchloride Gel. <i>Transactions of the Materials Research Society of Japan</i> , 2008, 33, 455-458.	0.2	4
68	Side-Chain Structural Effect of a Harmful-Heavy-Metal-Anion Adsorbing Gel. <i>Transactions of the Materials Research Society of Japan</i> , 2008, 33, 463-466.	0.2	4
69	A Possibility of Hydro gels as Environment Purifying Materials. <i>Transactions of the Materials Research Society of Japan</i> , 2008, 33, 369-372.	0.2	4
70	Selective Adsorption of Heavy Metal Cations and Anions from their Aqueous Solution Mixture with Hydrogels. <i>Transactions of the Materials Research Society of Japan</i> , 2008, 33, 459-461.	0.2	4
71	Evolution of Light Scattering and Electrical Properties of Tungsten Oxide Gel. <i>Journal of the Physical Society of Japan</i> , 1988, 57, 3838-3842.	1.6	3
72	Optical Measurements during Gelation Process of Muscle Protein under High Pressure. <i>Journal of the Physical Society of Japan</i> , 1993, 62, 362-367.	1.6	3

#	ARTICLE	IF	CITATIONS
73	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
74	Gelation and Glass Transition in Thermosetting Process of Epoxy Resin. Progress of Theoretical Physics Supplement, 1997, 126, 119-122.	0.1	3
75	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
76	Multiple-phase behavior and its microscopic implication for 4-acrylamidosalicylic acid gel. Journal of Chemical Physics, 2001, 114, 6906-6912.	3.0	2
77	Utilization of Ion Capturing Property of Gels for Environmental Purification. Ferroelectrics, 2007, 348, 161-165.	0.6	2
78	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
79	Responses of spatiotemporal chaos to oscillating forces. Physical Review E, 2015, 92, 012916.	2.1	2
80	Sub-Diffusion in Electroconvective Turbulence of Homeotropic Nematic Liquid Crystals. Journal of the Physical Society of Japan, 2018, 87, 014401.	1.6	2
81	Evolution of Light Transmissivity of Tungstic Acid during Gelation. Journal of the Physical Society of Japan, 1989, 58, 3424-3426.	1.6	1
82	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
83	Small-Angle Neutron Scattering Observation of Aqueous Suspension of Microcrystalline Cellulose. Japanese Journal of Applied Physics, 1998, 37, L404-L405.	1.5	1
84	Anomalous velocity change of surface wave near the gelation point. Physica B: Condensed Matter, 1999, 263-264, 73-76.	2.7	1
85	Coexistence of capillary and elastic surface waves at the gelation point of tungstic acid. AIP Conference Proceedings, 2000, , .	0.4	1
86	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
87	Screening effect on nanostructure of charged gel. Physica B: Condensed Matter, 2004, 350, E967-E970.	2.7	1
88	An XAFS Beamline at the SAGA Light Source. AIP Conference Proceedings, 2007, , .	0.4	1
89	A Possibility of Heavy-Metal Recycling by Utilizing Hydrogels. Transactions of the Materials Research Society of Japan, 2012, 20thAnniv, 23-28.	0.2	1
90	Information Reduction for Chaotic Patterns. Forma, 0, , .	0.1	1

#	ARTICLE	IF	CITATIONS
91	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
92	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
93	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
94	Inhomogeneity in dehydrated NIPA/SA gel. AIP Conference Proceedings, 2000, , .	0.4	0
95	Dynamical Aspects in Dehydrated Gel. Ferroelectrics, 2007, 348, 166-169.	0.6	0
96	Effect of Organic Solvent Substitution on Nano-scopic Structure of Poly(acrylamide-&lt;i>&lt;/i>co&lt;/i>-sodium acrylate) Gel. Transactions of the Materials Research Society of Japan, 2008, 33, 451-454.	0.2	0
97	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
98	Thermal Behavior of Albumin Gel in Low Water Content. Transactions of the Materials Research Society of Japan, 2010, 35, 869-872.	0.2	0
99	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
100	Effects of Monomer Constituents, Crosslinker Concentration and Ambient Temperature on the Turbidity of Poly (acrylamide-co-maleic acid) Gel. Transactions of the Materials Research Society of Japan, 2012, 37, 115-118.	0.2	0
101	Gelation and Glass Transition in Thermosetting Process of Epoxy Resin. Progress of Theoretical Physics Supplement, 2013, 126, 119-122.	0.1	0
102	Viscoelastic properties near the sol-gel transition. , 1999, , .		0
103	Heat-treatment effect on wet and dehydrated gels. , 1999, , .		0