

kaoru kohyama

List of Publications by Year in descending order

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122
papers

5,449
citations

87843

38
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123
docs citations

123
times ranked

4215
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional probabilistic anatomical cranio-cerebral correlation via the international 10â€“20 system oriented for transcranial functional brain mapping. <i>NeuroImage</i> , 2004, 21, 99-111.	2.1	1,111
2	Dynamic viscoelastic study on the gelation of 7 S globulin from soybeans. <i>Journal of Agricultural and Food Chemistry</i> , 1992, 40, 941-944.	2.4	392
3	Effect of soluble sugars on gelatinization and retrogradation of sweet potato starch. <i>Journal of Agricultural and Food Chemistry</i> , 1991, 39, 1406-1410.	2.4	232
4	Multimodal assessment of cortical activation during apple peeling by NIRS and fMRI. <i>NeuroImage</i> , 2004, 21, 1275-1288.	2.1	203
5	Rheological studies on the gelation process of soybean 7 S and 11 S proteins in the presence of glucono- δ -lactone. <i>Journal of Agricultural and Food Chemistry</i> , 1993, 41, 8-14.	2.4	122
6	Parameters of Texture Profile Analysis. <i>Food Science and Technology Research</i> , 2013, 19, 519-521.	0.3	120
7	Solution properties of pullulan. <i>Macromolecules</i> , 1991, 24, 5590-5593.	2.2	117
8	Effects of sample hardness on human chewing force: a model study using silicone rubber. <i>Archives of Oral Biology</i> , 2004, 49, 805-816.	0.8	114
9	Influence of non-starch polysaccharides on the in vitro digestibility and viscosity of starch suspensions. <i>Food Chemistry</i> , 2012, 133, 1420-1426.	4.2	92
10	Gel-sol transition of methylcellulose. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 1217-1226.	1.1	89
11	A differential thermal analysis of the gelatinization and retrogradation of wheat starches with different amylopectin chain lengths. <i>Carbohydrate Polymers</i> , 2004, 58, 71-77.	5.1	87
12	A mixed system composed of different molecular weights konjac glucomannan and kappa carrageenan: large deformation and dynamic viscoelastic study. <i>Food Hydrocolloids</i> , 1993, 7, 213-226.	5.6	85
13	Effect of amylose content and rice type on dynamic viscoelasticity of a composite rice starch gel. <i>Food Hydrocolloids</i> , 2009, 23, 1712-1719.	5.6	85
14	Compression Test of Food Gels on Artificial Tongue and Its Comparison with Human Test. <i>Journal of Texture Studies</i> , 2013, 44, 104-114.	1.1	78
15	Texture design for products using food hydrocolloids. <i>Food Hydrocolloids</i> , 2012, 26, 412-420.	5.6	77
16	Effect of non-starch polysaccharides on the in vitro digestibility and rheological properties of rice starch gel. <i>Food Chemistry</i> , 2011, 127, 541-546.	4.2	75
17	Physicochemical characteristics of waxy rice starch influencing the in vitro digestibility of a starch gel. <i>Food Chemistry</i> , 2009, 116, 137-142.	4.2	73
18	Consensus on the terminologies and methodologies for masticatory assessment. <i>Journal of Oral Rehabilitation</i> , 2021, 48, 745-761.	1.3	68

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19	Prefrontal activity during taste encoding: An fNIRS study. <i>NeuroImage</i> , 2006, 31, 796-806.	2.1	67
20	The Effect of Sucrose on the Thermo-Reversible Gel-Sol Transition in Agarose and Gelatin.. <i>Polymer Journal</i> , 1992, 24, 871-877.	1.3	66
21	Relationship between Flow Properties of Thickener Solutions and Their Velocity through the Pharynx Measured by the Ultrasonic Pulse Doppler Method. <i>Food Science and Technology Research</i> , 2009, 15, 203-210.	0.3	63
22	Textural Evaluation of Rice Cake by Chewing and Swallowing Measurements on Human Subjects. <i>Bioscience, Biotechnology and Biochemistry</i> , 2007, 71, 358-365.	0.6	61
23	Characterization of eating difficulty by sensory evaluation of hydrocolloid gels. <i>Food Hydrocolloids</i> , 2014, 38, 95-103.	5.6	61
24	Cellulose Derivatives Effects on Gelatinization and Retrogradation of Sweet Potato Starch. <i>Journal of Food Science</i> , 1992, 57, 128-131.	1.5	60
25	ELECTROMYOGRAPHY DURING ORAL PROCESSING IN RELATION TO MECHANICAL AND SENSORY PROPERTIES OF SOFT GELS. <i>Journal of Texture Studies</i> , 2011, 42, 254-267.	1.1	60
26	Mastication Effort Estimated by Electromyography for Cooked Rice of Differing Water Content. <i>Bioscience, Biotechnology and Biochemistry</i> , 2005, 69, 1669-1676.	0.6	59
27	Characterization of Food Physical Properties by the Mastication Parameters Measured by Electromyography of the Jaw-Closing Muscles and Mandibular Kinematics in Young Adults. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 1690-1695.	0.6	57
28	Classification of Japanese Texture Terms. <i>Journal of Texture Studies</i> , 2013, 44, 140-159.	1.1	56
29	Differential scanning calorimetry and a model calculation of starches annealed at 20 and 50°C. <i>Carbohydrate Polymers</i> , 2006, 63, 82-88.	5.1	48
30	Characterization of arenga starch in comparison with sago starch. <i>Carbohydrate Polymers</i> , 2013, 92, 2306-2313.	5.1	48
31	A mixed system composed of different molecular weights konjac glucomannan and κ -carrageenan. II. Molecular weight dependence of viscoelasticity and thermal properties. <i>Food Hydrocolloids</i> , 1996, 10, 229-238.	5.6	47
32	Relationship between the Rheological Properties of Thickener Solutions and Their Velocity through the Pharynx as Measured by the Ultrasonic Pulse Doppler Method. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 1598-1605.	0.6	47
33	Effects of sugars and polyols on the gel-sol transition of agarose by differential scanning calorimetry. <i>Thermochimica Acta</i> , 1992, 206, 163-173.	1.2	45
34	Mastication efforts on block and finely cut foods studied by electromyography. <i>Food Quality and Preference</i> , 2007, 18, 313-320.	2.3	45
35	Mechanical and acoustic evaluation of potato chip crispness using a versatile texture analyzer. <i>Journal of Food Engineering</i> , 2012, 112, 268-273.	2.7	45
36	Oral Sensing of Food Properties. <i>Journal of Texture Studies</i> , 2015, 46, 138-151.	1.1	40

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37	Interactive relationship between the mechanical properties of food and the human response during the first bite. <i>Archives of Oral Biology</i> , 2007, 52, 455-464.	0.8	39
38	Rheological study on the rennet-induced gelation of casein micelles with different sizes. <i>Polymer Gels and Networks</i> , 1994, 2, 105-118.	0.6	38
39	Instrumental Uniaxial Compression Test of Gellan Gels of Various Mechanical Properties Using Artificial Tongue and Its Comparison with Human Oral Strategy for the First Size Reduction. <i>Journal of Texture Studies</i> , 2014, 45, 354-366.	1.1	38
40	Rheological study on gelation of soybean 11S protein by glucono- δ -lactone. <i>Journal of Agricultural and Food Chemistry</i> , 1992, 40, 740-744.	2.4	37
41	Pressure Distribution Measurement in Biting Surimi Gels with Molars Using a Multiple-point Sheet Sensor. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 2597-2603.	0.6	37
42	LEXICON FOR THE SENSORY DESCRIPTION OF FRENCH BREAD IN JAPAN. <i>Journal of Sensory Studies</i> , 2010, 25, 76-93.	0.8	32
43	Relations among mechanical properties, human bite parameters, and ease of chewing of solid foods with various textures. <i>Journal of Food Engineering</i> , 2009, 95, 400-409.	2.7	29
44	EFFECTS OF SAMPLE THICKNESS ON BITE FORCE FOR RAW CARROTS AND FISH GELS. <i>Journal of Texture Studies</i> , 2005, 36, 157-173.	1.1	28
45	Discrimination of cucumber cultivars using a multiple-point sheet sensor to measure biting force. <i>Journal of the Science of Food and Agriculture</i> , 2003, 83, 1320-1326.	1.7	27
46	Effect of water-soluble and insoluble non-starch polysaccharides isolated from wheat flour on the rheological properties of wheat starch gel. <i>Carbohydrate Polymers</i> , 2004, 57, 451-458.	5.1	27
47	Effect of fermentation metabolites on rheological and sensory properties of fermented rice noodles. <i>Journal of the Science of Food and Agriculture</i> , 2008, 88, 2134-2141.	1.7	27
48	Electromyography analysis of natural mastication behavior using varying mouthful quantities of two types of gels. <i>Physiology and Behavior</i> , 2016, 161, 174-182.	1.0	26
49	Mechanical properties of softened foodstuffs processed by freeze-thaw infusion of macerating enzyme. <i>Innovative Food Science and Emerging Technologies</i> , 2012, 16, 267-276.	2.7	24
50	Texture Evaluation of Cooked Rice Prepared from Japanese Cultivars Using Two-Bite Instrumental Test and Electromyography. <i>Journal of Texture Studies</i> , 2016, 47, 188-198.	1.1	24
51	Rheological Properties of Fermented Rice Flour Gel. <i>Cereal Chemistry</i> , 2007, 84, 620-625.	1.1	23
52	Characterization of spatiotemporal stress distribution during food fracture by image texture analysis methods. <i>Journal of Food Engineering</i> , 2007, 81, 429-436.	2.7	23
53	Linear and Nonlinear Rheology of Mixed Polysaccharide Gels. Pt. <sc>II</sc>. Extrusion, Compression, Puncture and Extension Tests and Correlation with Sensory Evaluation. <i>Journal of Texture Studies</i> , 2014, 45, 30-46.	1.1	22
54	Prefrontal activity during flavor difference test: Application of functional near-infrared spectroscopy to sensory evaluation studies. <i>Appetite</i> , 2006, 47, 220-232.	1.8	21

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55	Visual illusion in mass estimation of cut food. <i>Appetite</i> , 2007, 49, 183-190.	1.8	21
56	Phenomenological viscoelasticity of some rice starch gels. <i>Food Hydrocolloids</i> , 2010, 24, 512-517.	5.6	21
57	Modulation of biting procedures induced by the sensory evaluation of cheese hardness with different definitions. <i>Appetite</i> , 2008, 50, 158-166.	1.8	20
58	Ultrasound Analysis of the Effects of Food Bolus Volume on Tongue Movement at the Initiation of Swallowing. <i>Journal of Texture Studies</i> , 2013, 44, 387-396.	1.1	20
59	Gelation Properties of Soymilk and Soybean 11S Globulin from Japanese-grown Soybeans. <i>Bioscience, Biotechnology and Biochemistry</i> , 1992, 56, 725-728.	0.6	19
60	The effect of glucono- δ -lactone on the gelation time of soybean 11S protein: concentration dependence. <i>Food Hydrocolloids</i> , 1992, 6, 263-274.	5.6	19
61	Effects of Cross-sectional Area on Human Bite Studied with Raw Carrot and Surimi Gel. <i>Bioscience, Biotechnology and Biochemistry</i> , 2004, 68, 2104-2110.	0.6	19
62	Electromyographic texture characterization of hydrocolloid gels as model foods with varying mastication and swallowing difficulties. <i>Food Hydrocolloids</i> , 2015, 43, 146-152.	5.6	19
63	Sucrose release from agar gels and sensory perceived sweetness. <i>Food Hydrocolloids</i> , 2016, 60, 405-414.	5.6	19
64	A comparison of the effects of heat moisture treatment (HMT) on rheological properties and amylopectin structure in sago (<i>Metroxylon sago</i>) and arenga (<i>Arenga pinnata</i>) starches. <i>Journal of Food Science and Technology</i> , 2017, 54, 3404-3410.	1.4	19
65	Polysaccharide-protein interaction: A rheological study of the gel-sol transition of a gelatin-methylcellulose-water system. <i>Biorheology</i> , 1993, 30, 243-252.	1.2	18
66	First bite for hardness judgment as haptic exploratory procedure. <i>Physiology and Behavior</i> , 2007, 92, 601-610.	1.0	18
67	Visualization of planar stress distributions in cucumber cultivars using a multiple-point sheet sensor. <i>Journal of the Science of Food and Agriculture</i> , 2004, 84, 1091-1096.	1.7	17
68	Statistical Laws for Food Fragmentation by Human Mastication. <i>Journal of the Physical Society of Japan</i> , 2006, 75, 083001.	0.7	17
69	Comparison of human-bite and instrument puncture tests of cucumber texture. <i>Postharvest Biology and Technology</i> , 2009, 52, 243-246.	2.9	17
70	Electromyographic Measurement of Eating Behaviors for Buckwheat Noodles. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 56-62.	0.6	17
71	Natural eating behavior of two types of hydrocolloid gels as measured by electromyography: Quantitative analysis of mouthful size effects. <i>Food Hydrocolloids</i> , 2016, 52, 243-252.	5.6	17
72	Relationships Between Mechanical Properties Obtained from Compression Test and Electromyography Variables During Natural Oral Processing of Gellan Gum Gels. <i>Journal of Texture Studies</i> , 2017, 48, 66-75.	1.1	17

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73	Dielectric, viscoelastic and broad-line NMR study of konjac glucomannan films. <i>Carbohydrate Polymers</i> , 1992, 17, 59-63.	5.1	16
74	Effects of Milling Ratio and Water-Rice Ratio on Mastication Effort for Cooked Rice Measured by Electromyography. <i>Journal of Texture Studies</i> , 2014, 45, 477-486.	1.1	16
75	A trial of human electromyography to evaluate texture of softened foodstuffs prepared with freeze-thaw impregnation of macerating enzymes. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 21, 188-194.	2.7	16
76	Tensile Test of Cabbage Leaves for Quality Evaluation of Shredded Cabbage. <i>Food Science and Technology Research</i> , 2008, 14, 337-344.	0.3	15
77	Molecular Structure and Physicochemical Properties of Acid-Methanol-Treated Chickpea Starch. <i>International Journal of Food Properties</i> , 2013, 16, 125-138.	1.3	15
78	Compression Test of Soft Food Gels Using a Soft Machine with an Artificial Tongue. <i>Foods</i> , 2019, 8, 182.	1.9	15
79	Effect of acid-methanol treatment on the molecular structure and physicochemical properties of lentil (<i>Lens culinaris Medik</i>) starch. <i>Food Hydrocolloids</i> , 2009, 23, 2219-2225.	5.6	14
80	Fragmentation of a Viscoelastic Food by Human Mastication. <i>Journal of the Physical Society of Japan</i> , 2010, 79, 044801.	0.7	14
81	Rheological Properties of Starch Gels from Wheat Mutants with Reduced Amylose Content. <i>Cereal Chemistry</i> , 2007, 84, 102-107.	1.1	13
82	Time-intensity Analysis of Sourness of Commercially Produced Gummy Jellies Available in Japan. <i>Food Science and Technology Research</i> , 2009, 15, 75-82.	0.3	13
83	A Pilot Study on Ultrasound Elastography for Evaluation of Mechanical Characteristics and Oral Strategy of Gels. <i>Journal of Texture Studies</i> , 2016, 47, 152-160.	1.1	13
84	Measurement of bite force variables related to human discrimination of left-right hardness differences of silicone rubber samples placed between the incisors. <i>Archives of Oral Biology</i> , 2005, 50, 517-526.	0.8	12
85	Research Survey of Japanese Consumers on Texture Vocabulary (Studies on Japanese texture terms Part) Tj ETQq1 1 0.784314 rgBT / 0.1 12	0.1	12
86	Bite-speed Effects in Two-bite Texture Analysis. <i>Journal of the Japanese Society for Food Science and Technology</i> , 2012, 59, 96-103.	0.1	12
87	Influence of Starch and Gluten Characteristics on Rheological Properties of Wheat Flour Gel at Small and Large Deformation. <i>Cereal Chemistry</i> , 2008, 85, 329-334.	1.1	11
88	Elucidation of Fermentation Effect on Rice Noodles Using Combined Dynamic Viscoelasticity and Thermal Analyses. <i>Cereal Chemistry</i> , 2009, 86, 70-75.	1.1	11
89	Texture of Sliced Cucumbers Measured by Subjective Human-Bite and Objective Instrumental Tests. <i>Journal of Texture Studies</i> , 2013, 44, 1-11.	1.1	11
90	Globin protein gelation: the effect of pH and temperature. <i>Food Hydrocolloids</i> , 1990, 4, 87-93.	5.6	10

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91	Mechanical stress distributions in cross-sections of cucumber cultivars during the fracture process. Journal of the Science of Food and Agriculture, 2006, 86, 26-34.	1.7	10
92	Effects of Sprouting on Texture of Cooked Buckwheat (<i>Fagopyrum esculentum</i> Moench) Noodles. Plant Production Science, 2009, 12, 492-496.	0.9	10
93	Acoustic Analysis of the Swallowing Sounds of Food with Different Physical Properties Using the Cervical Auscultation Method. Journal of Texture Studies, 2013, 44, 169-175.	1.1	10
94	Texture Evaluation of Soft Gels with Different Fracture Strains using an Artificial Tongue. Journal of Texture Studies, 2016, 47, 496-503.	1.1	10
95	Fracture phenomena of soft gellan gum gels during compression with artificial tongues. Food Hydrocolloids, 2021, 112, 106283.	5.6	10
96	Characterization of mechanical stress distributions in a cross section of cucumber fruits: bisector reference line represents tissue anatomy. Journal of the Science of Food and Agriculture, 2005, 85, 785-790.	1.7	9
97	Fast Fourier transform analysis of sounds made while swallowing various foods. Journal of the Acoustical Society of America, 2012, 132, 2478-2482.	0.5	9
98	Effects of Rice Flour Blends on Bread Texture and Staling. Cereal Chemistry, 2014, 91, 146-151.	1.1	9
99	Recognition of Japanese Texture Descriptive Terms According to Gender, Age and Region (Studies on) 54, 488-502.	0.1	8
100	Ultrasound Pulsed Wave Doppler Imaging of the Esophagus Illustrates the Effects of Water Volume on Bolus Kinematics. Journal of Texture Studies, 2014, 45, 335-343.	1.1	8
101	Mouthful Size Effects on Mastication Effort of Various Hydrocolloid Gels Used as Food Models. Food Science and Technology Research, 2014, 20, 1121-1130.	0.3	7
102	Compression test of soft gellan gels using a soft machine equipped with a transparent artificial tongue. Journal of Texture Studies, 2020, 51, 612-621.	1.1	7
103	Conditions of viscosity measurement for detecting irradiated peppers. Radiation Physics and Chemistry, 1995, 45, 665-669.	1.4	6
104	Collection and Analysis of Foods Associated with Japanese Texture Terms. Journal of the Japanese Society for Food Science and Technology, 2011, 58, 359-374.	0.1	6
105	Physical Properties and Texture of Japanese White Salted Noodles Mixed with Tapioca Starch. Journal of the Japanese Society for Food Science and Technology, 2012, 59, 268-278.	0.1	5
106	Variation in Firmness of Whole Beans, Embryos, and Testas of Cooked Soybean (<i>Glycine max</i>) Cultivars. Cereal Chemistry, 2014, 91, 419-424.	1.1	5
107	Effects of Head Density of Cabbages (<i>Brassica oleracea</i> var. <i>Capitata</i>) on Mechanical Properties. Food Science and Technology Research, 2009, 15, 11-18.	0.3	4
108	Electromyography Study of Mastication of Pickles by Young and Elderly People. Journal of the Japanese Society for Food Science and Technology, 2009, 56, 14-19.	0.1	4

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109	Scaling Laws for Shapes of Food Fragments by Human Mastication. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 044002.	0.7	3
110	Effects of Fish Collagen Peptides on Physical Properties of Mixed Gels Containing Konjac Glucomannan and Kappa-Carrageenan. <i>Journal of the Japanese Society for Food Science and Technology</i> , 2011, 58, 252-258.	0.1	3
111	Characterization of Waxy Rice Cakes (<i>Mochi</i>) with Rapid Hardening Quality by Instrumental and Sensory Methods. <i>Cereal Chemistry</i> , 2013, 90, 101-106.	1.1	3
112	Sensory Comparison of Several Manufactured Shao-mai (steamed Chinese-style meat dumplings). <i>Journal of the Japanese Society for Food Science and Technology</i> , 2009, 56, 85-94.	0.1	2
113	Effects of Mechanical Properties of Food on Tongue Movement at the Initiation of Swallowing Measured by Ultrasound Imaging. <i>Journal of the Japanese Society for Food Science and Technology</i> , 2012, 59, 604-610.	0.1	2
114	Application of a balloon-type pressure sensor in texture evaluation of tongue-crushable foods. <i>Journal of Texture Studies</i> , 2022, , .	1.1	2
115	Gelation process of amylose-DMSO-water system. <i>Makromolekulare Chemie Macromolecular Symposia</i> , 1993, 76, 83-88.	0.6	1
116	Rheological study on gelation of soybean 11S protein by glucono-delta-lactone. [Erratum to document cited in CA116:234084]. <i>Journal of Agricultural and Food Chemistry</i> , 1994, 42, 2076-2076.	2.4	1
117	Extraction of Alpha Activities from an EEG Obtained During Gum Chewing. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2008, 3, 324-333.	0.8	1
118	The Influence of Skin Processing on Mechanical and Mastication Properties of Takuan (Pickled Radish). <i>Journal of the Japanese Society for Food Science and Technology</i> , 2010, 57, 232-237.	0.1	1
119	Supporting young researchers in food texture studies. <i>Journal of Texture Studies</i> , 2018, 49, 150-159.	1.1	1
120	Rheological Study on the Effect of the A5Subunit on the Gelation Characteristics of Soybean Proteins. <i>Agricultural and Biological Chemistry</i> , 1991, 55, 351-355.	0.3	0
121	Food Fragmentation by Human Mastication. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
122	Mechanical Modeling of Foods Including Fracture and Simulation of Food Compression. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0